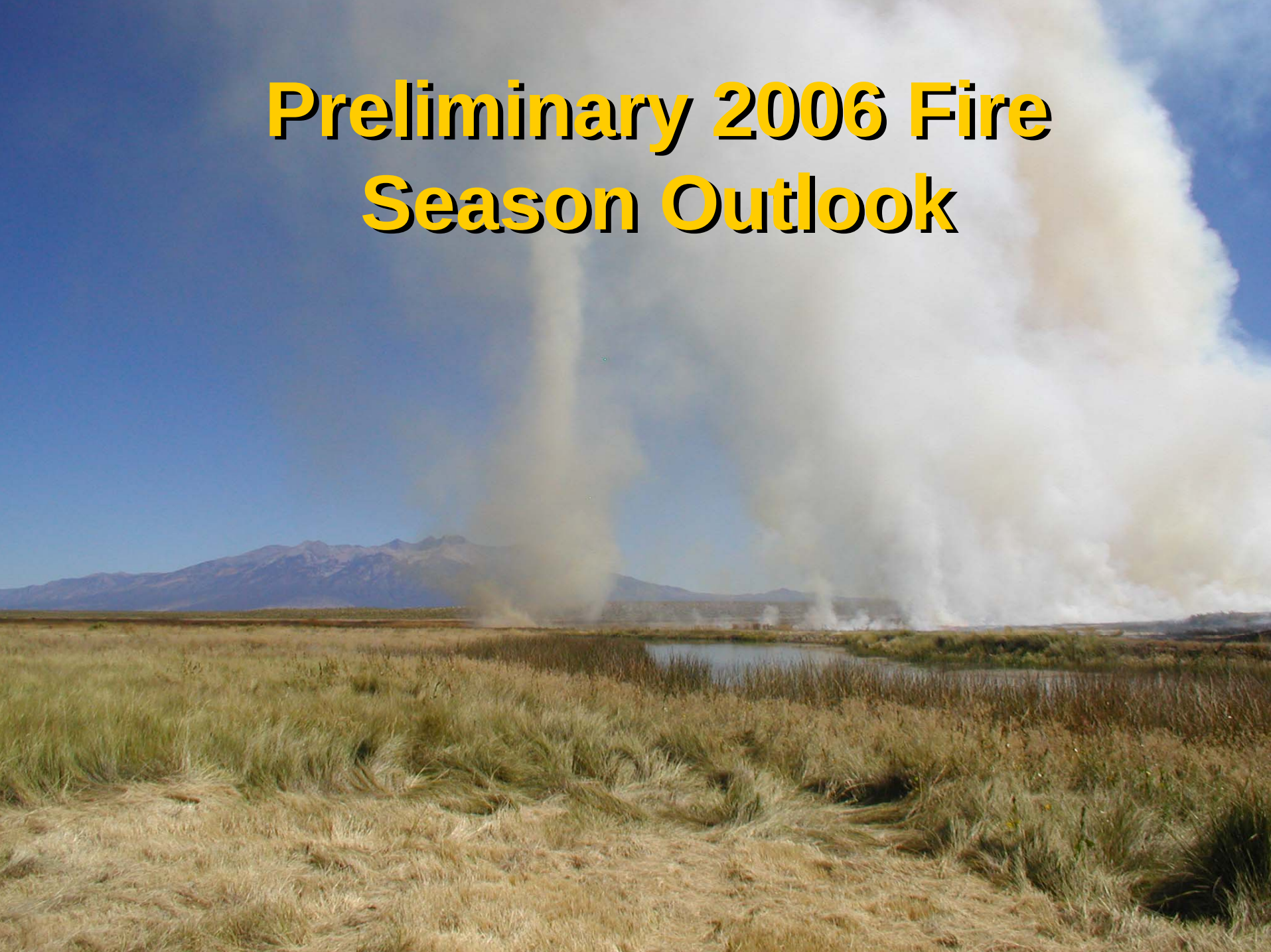
Preliminary 2006 Fire Season Outlook

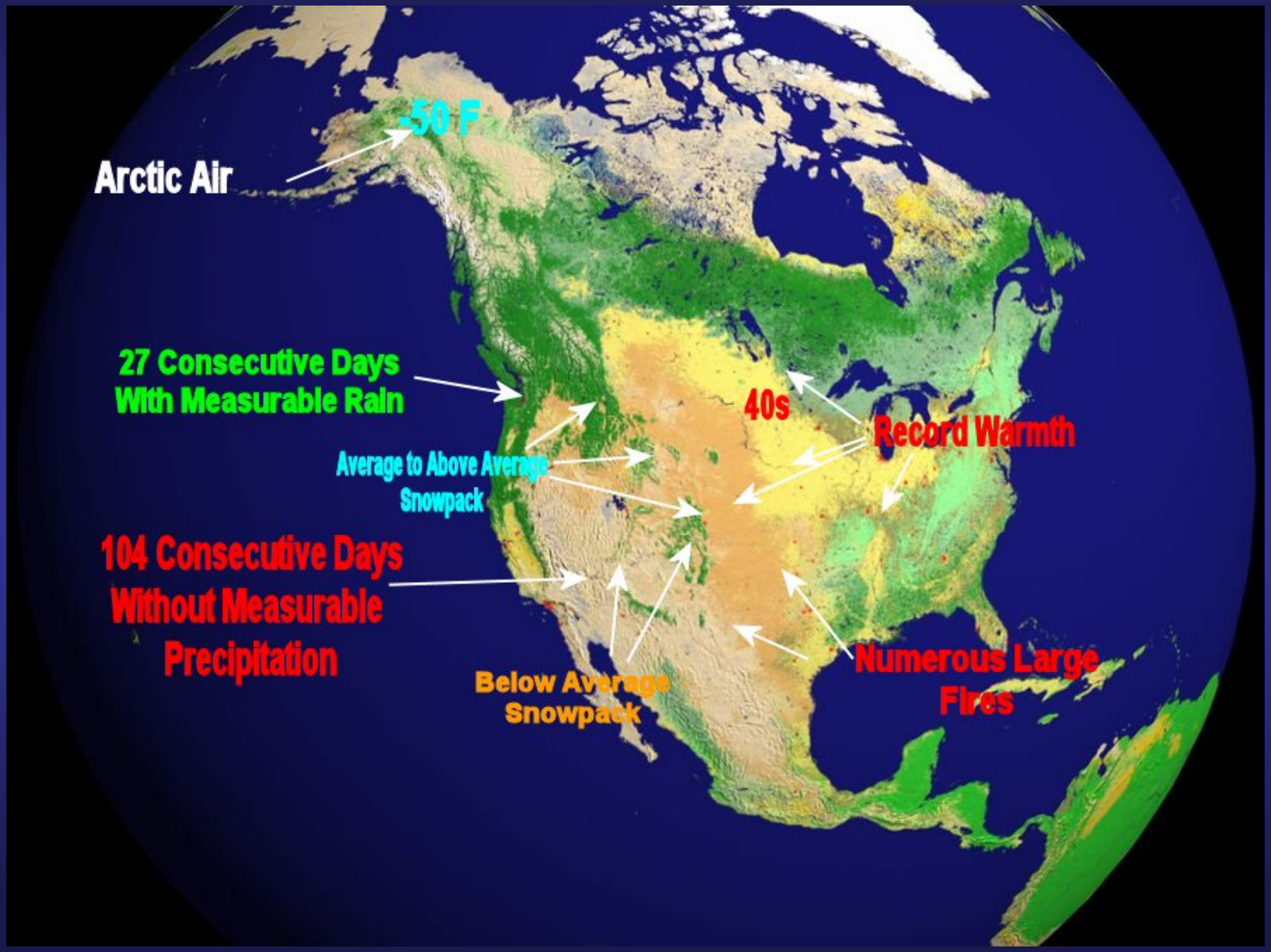


Preliminary Outlook

- Climate Overview
- RMA Current Situation
- Outlook/Scenarios

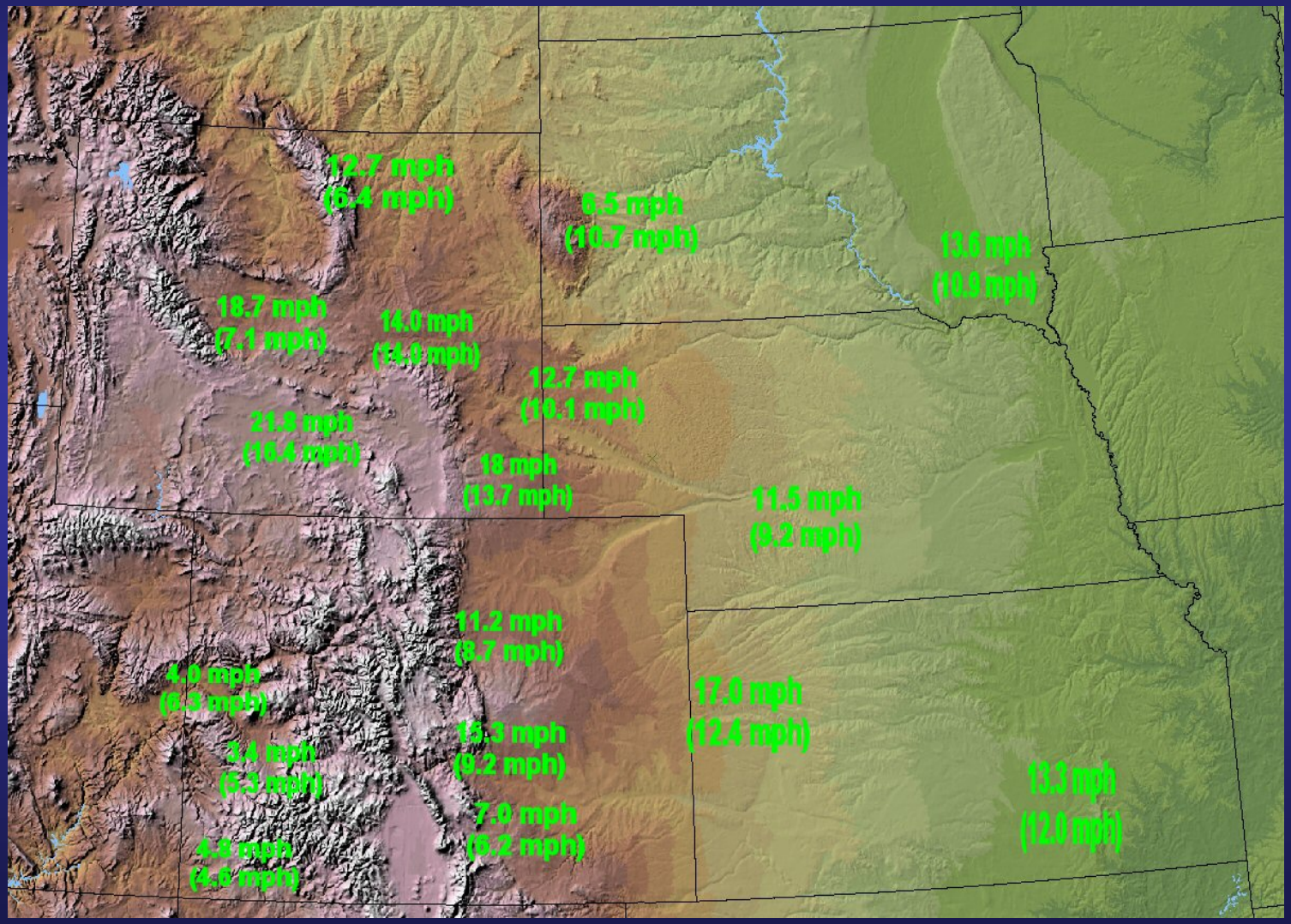
Jet Stream Pattern

U.S. Climate Overview

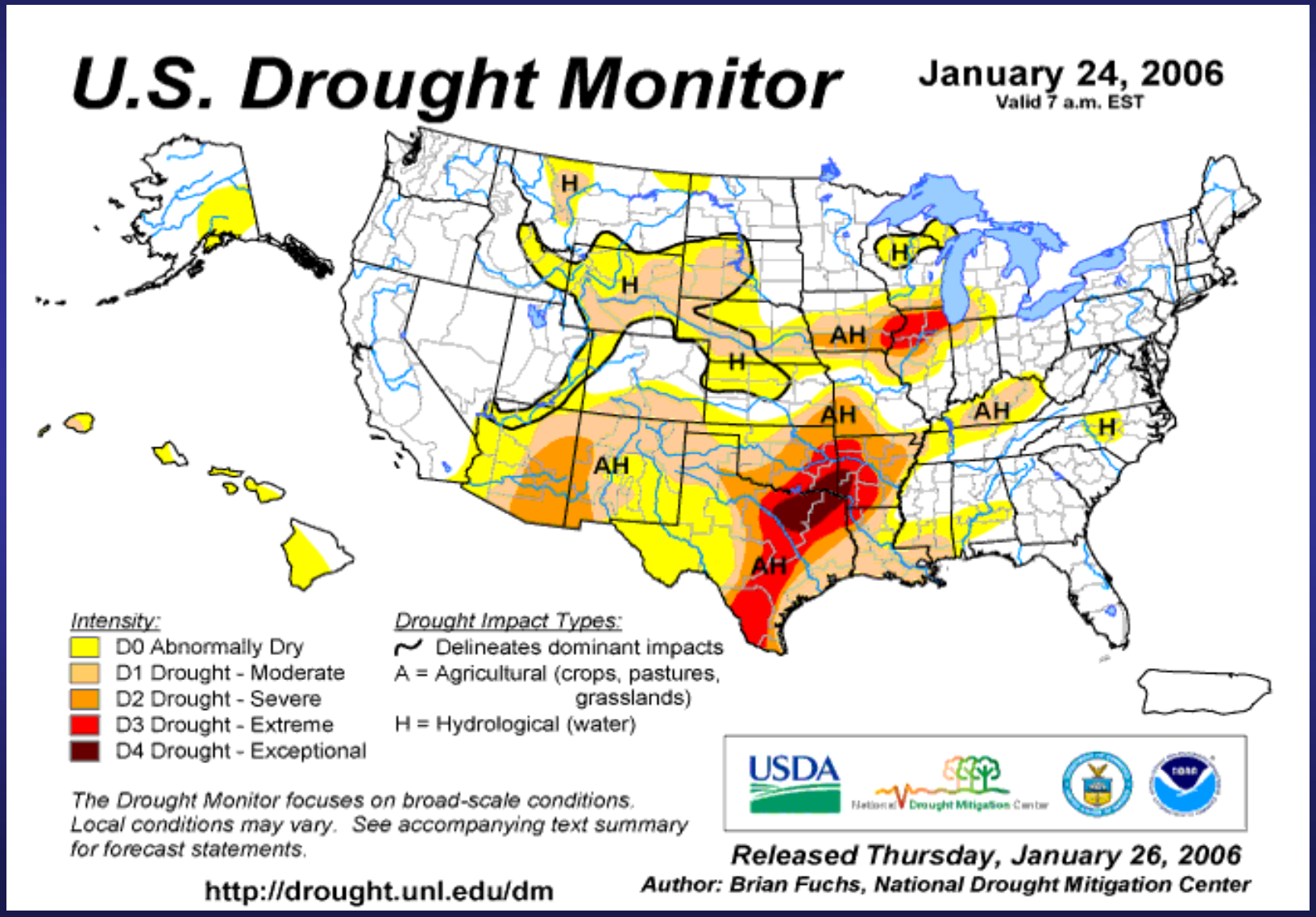


RMA Climate Overview

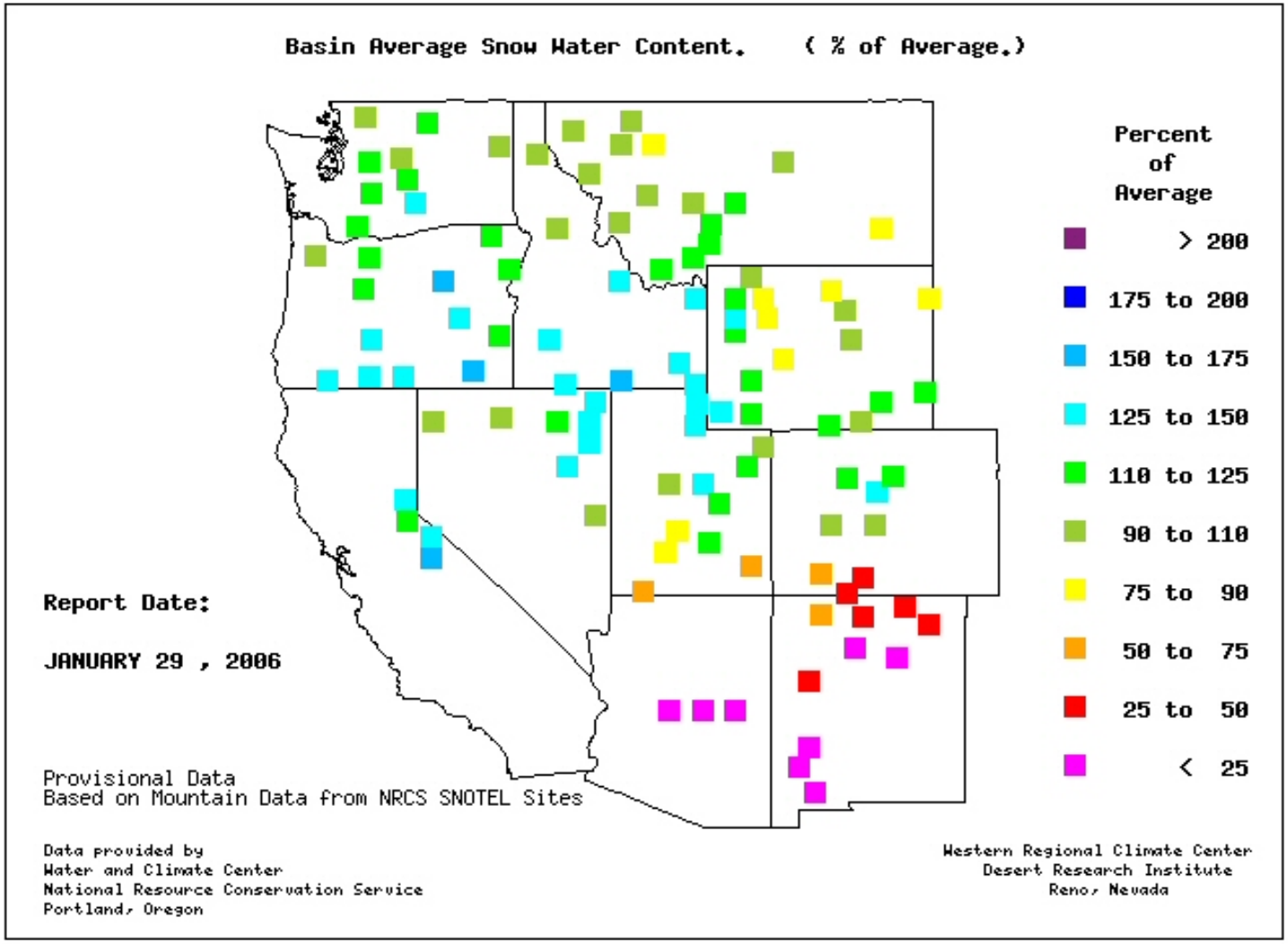
Its Been Windy



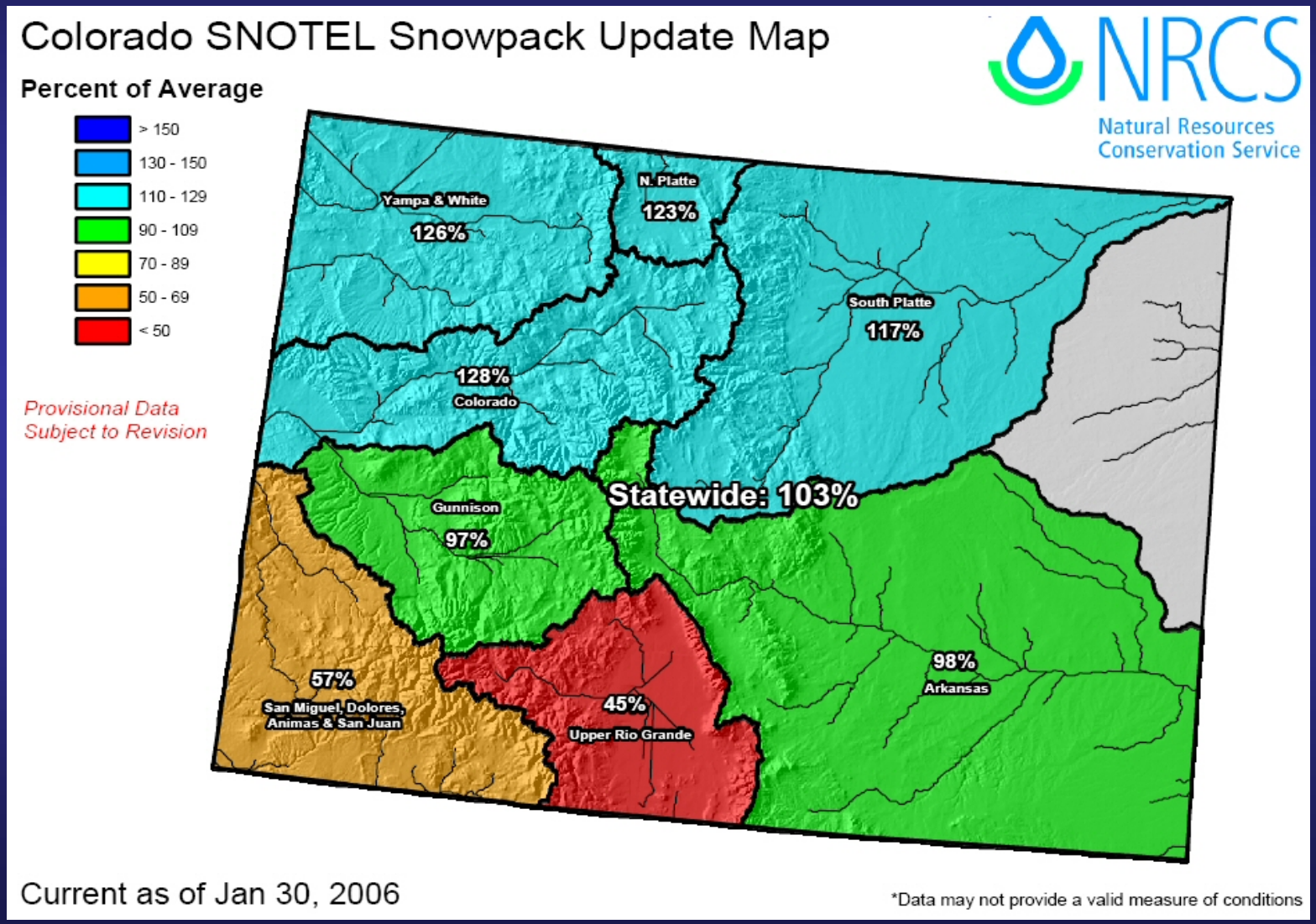
RMA Climate Overview



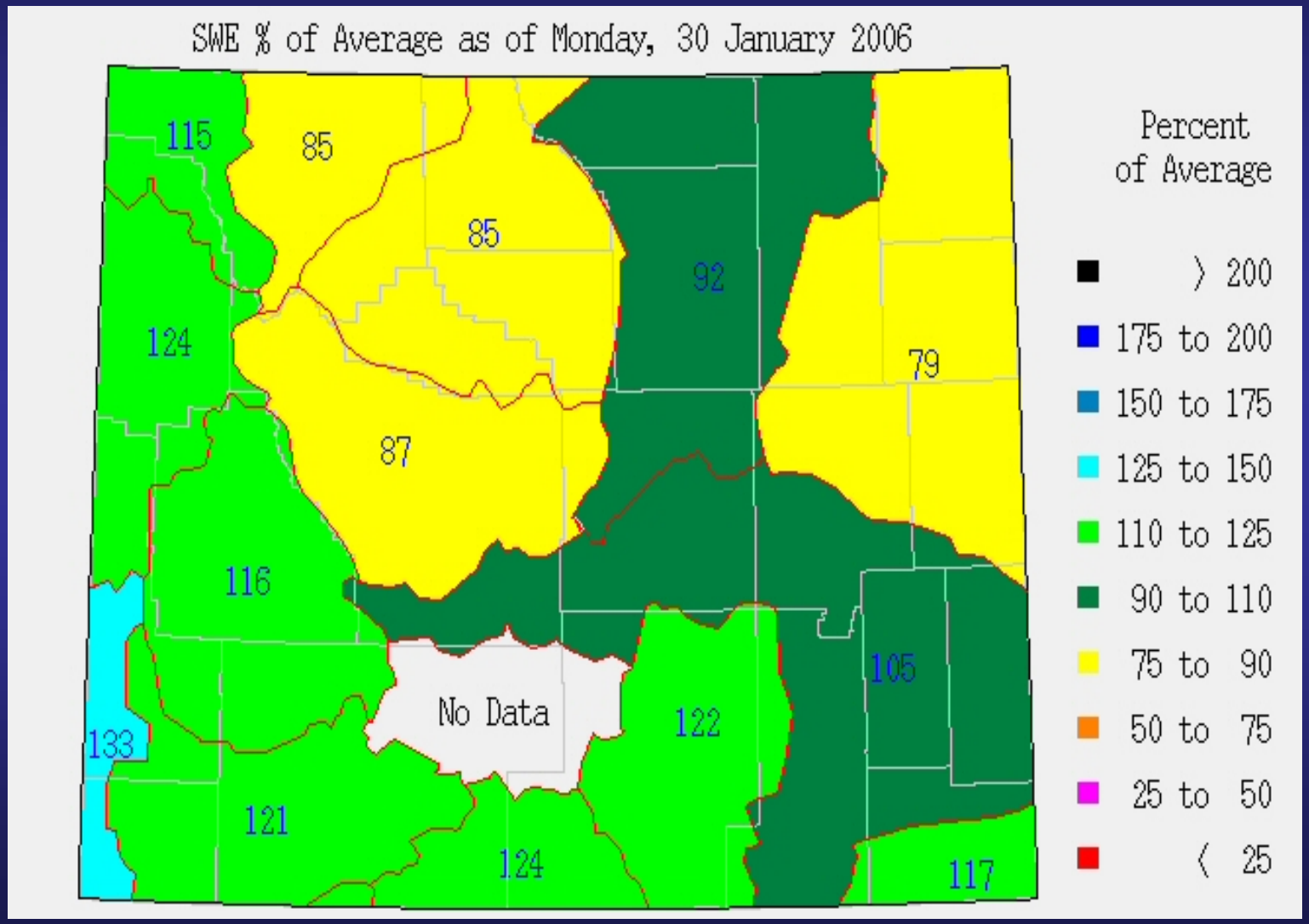
RMA Climate Overview



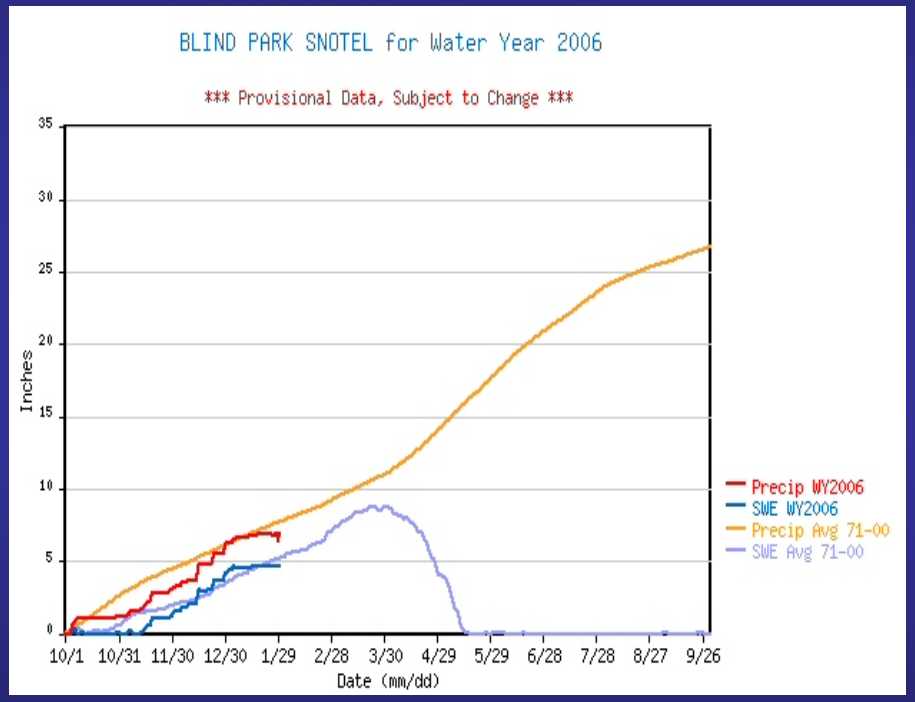
RMA Climate Overview

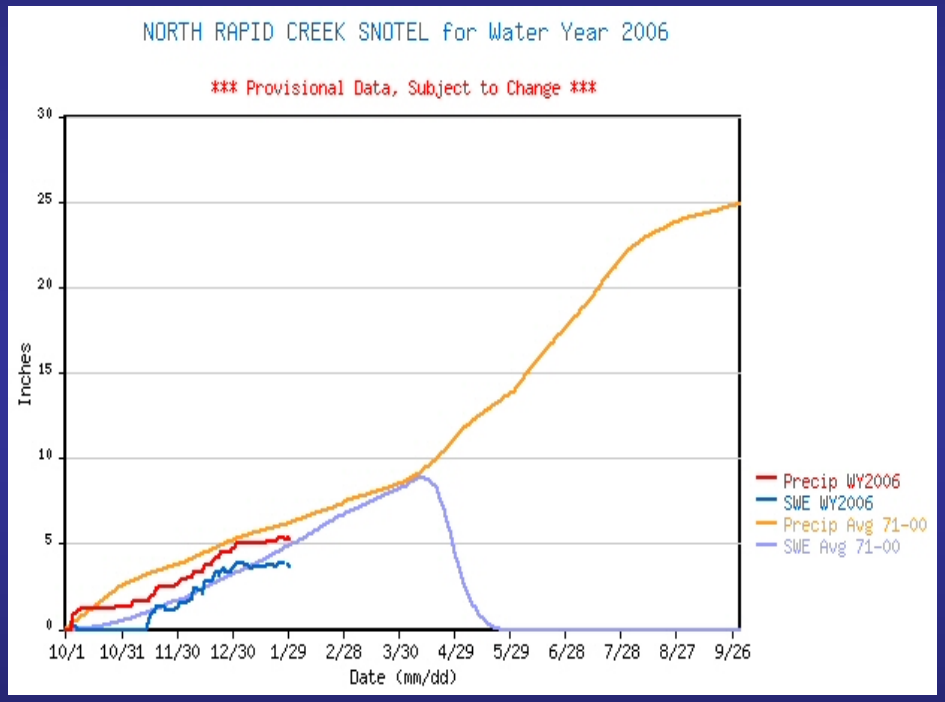


RMA Climate Overview

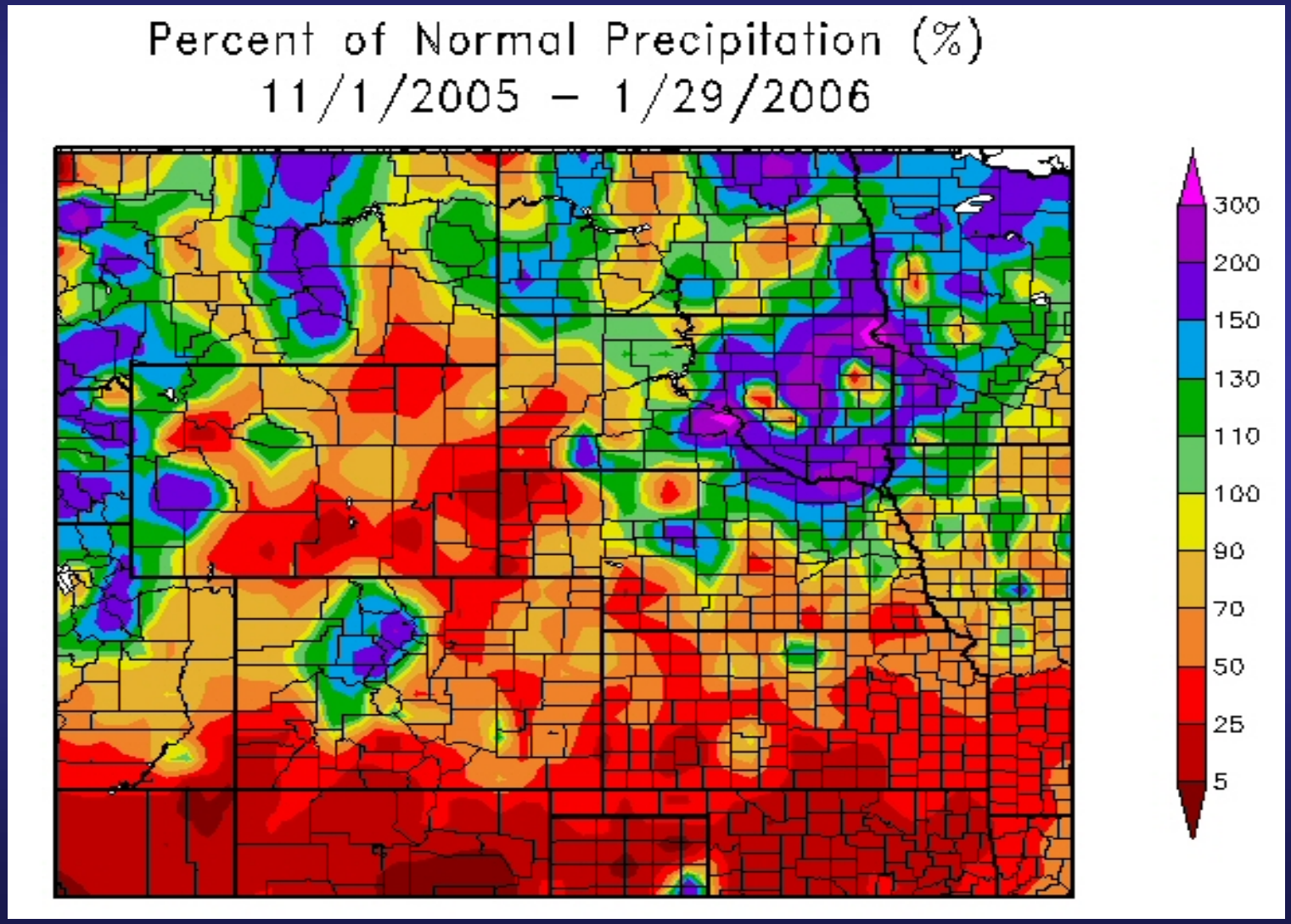


RMA Climate Overview

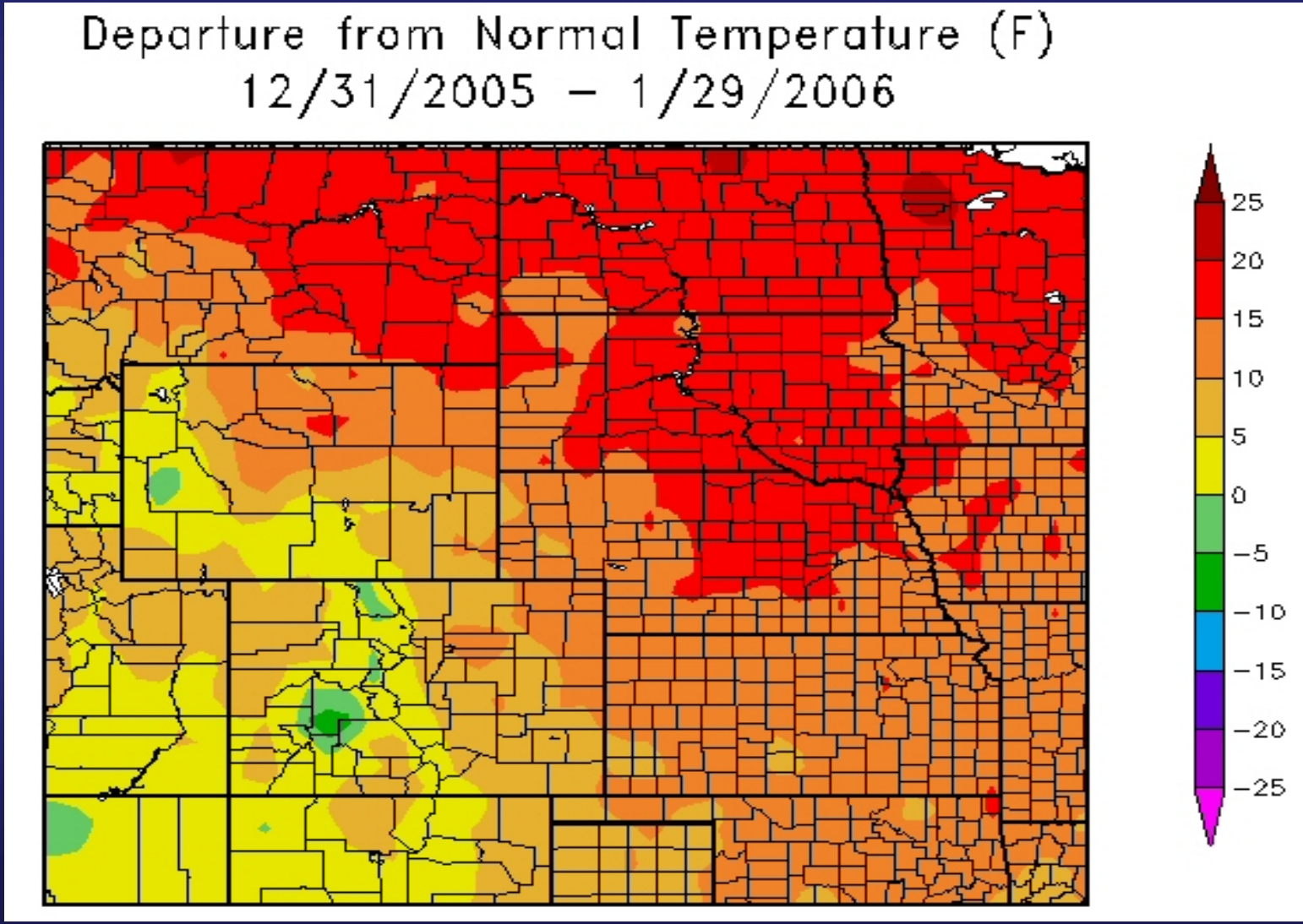




RMA Climate Overview



RMA Climate Overview



Climate Predictors

La Nina

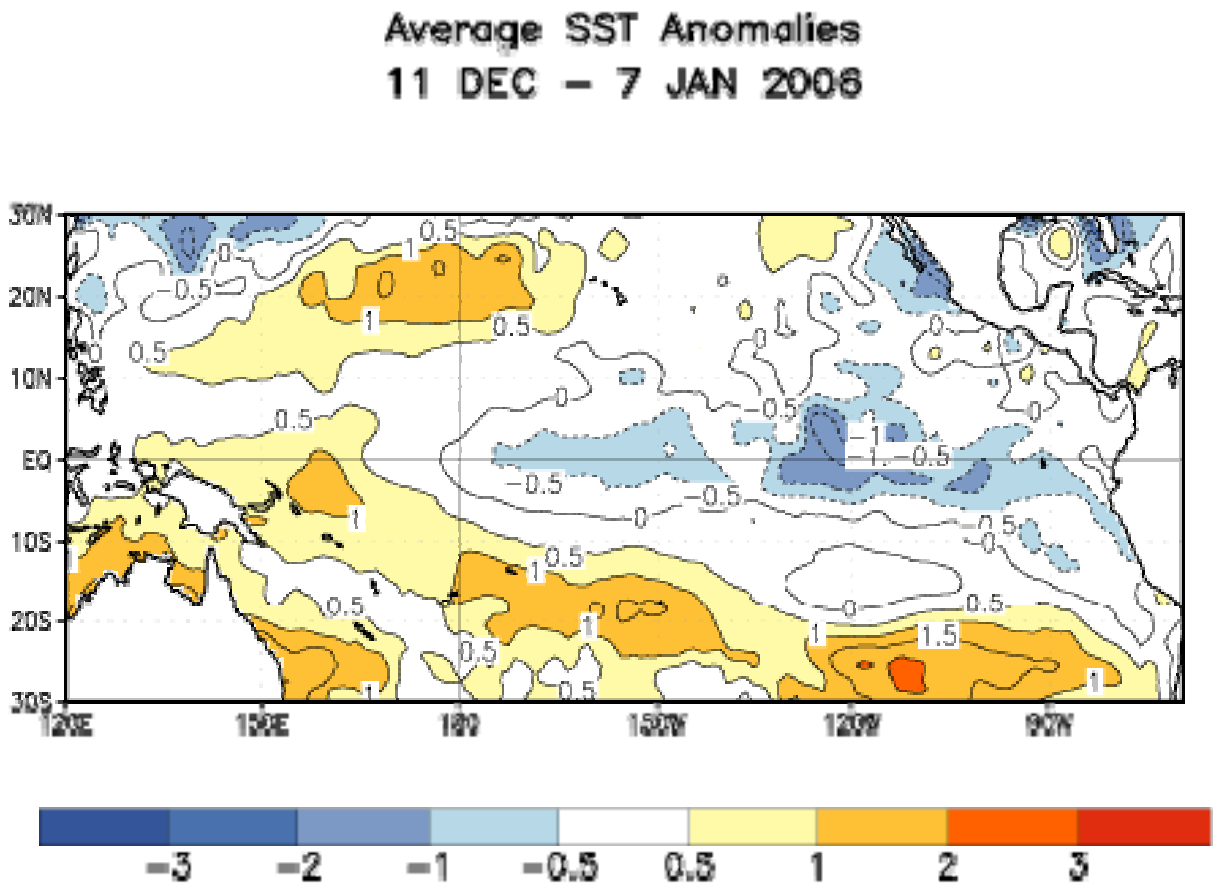
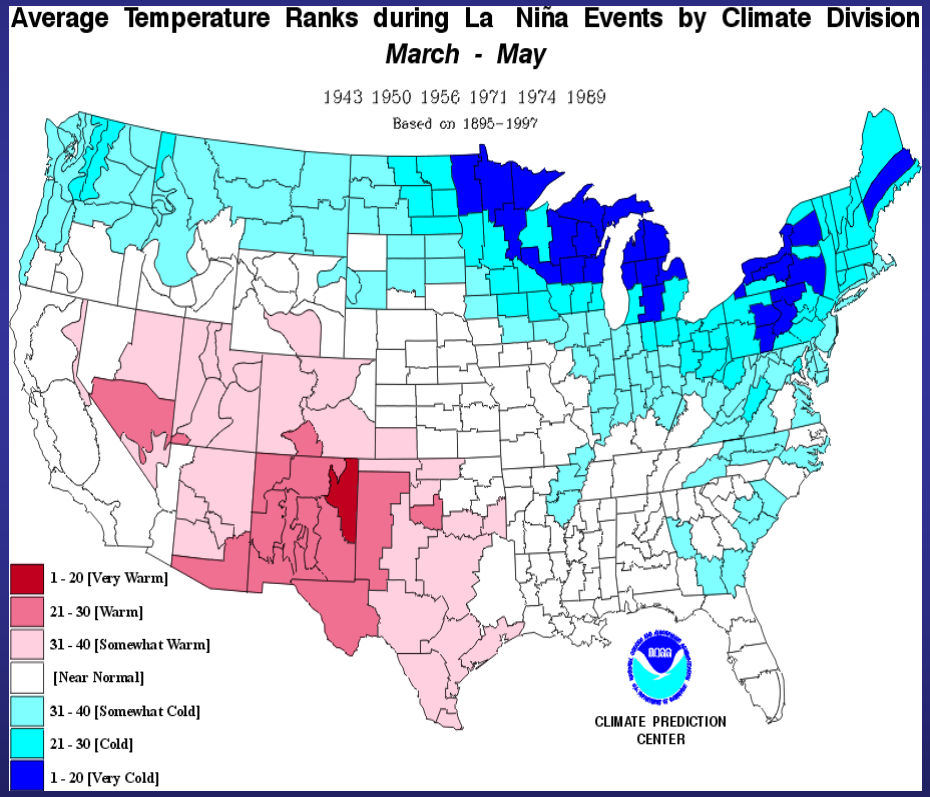
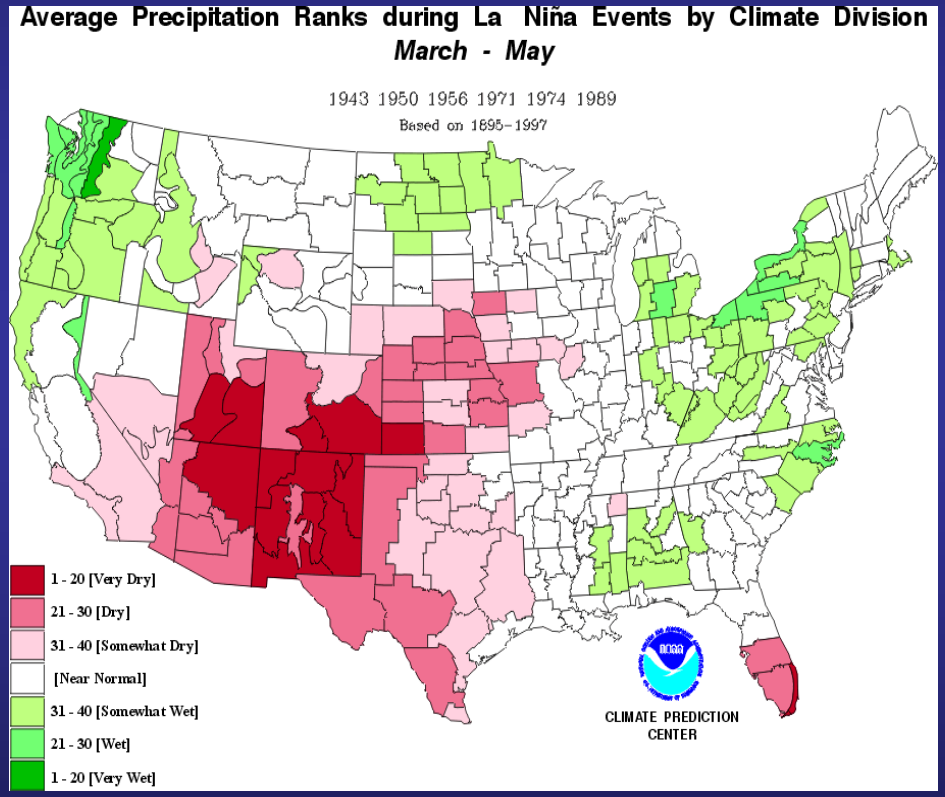


Figure 1. Average Sea surface temperature (SST) anomalies (°C) for the four week period 11 December 2005 – 7 January 2006. The SST anomalies are computed with respect to the 1971-2000 base period means (Smith and Reynolds, 1998, J. Climate, 11, 3320-3323).

Past La Nina Impacts

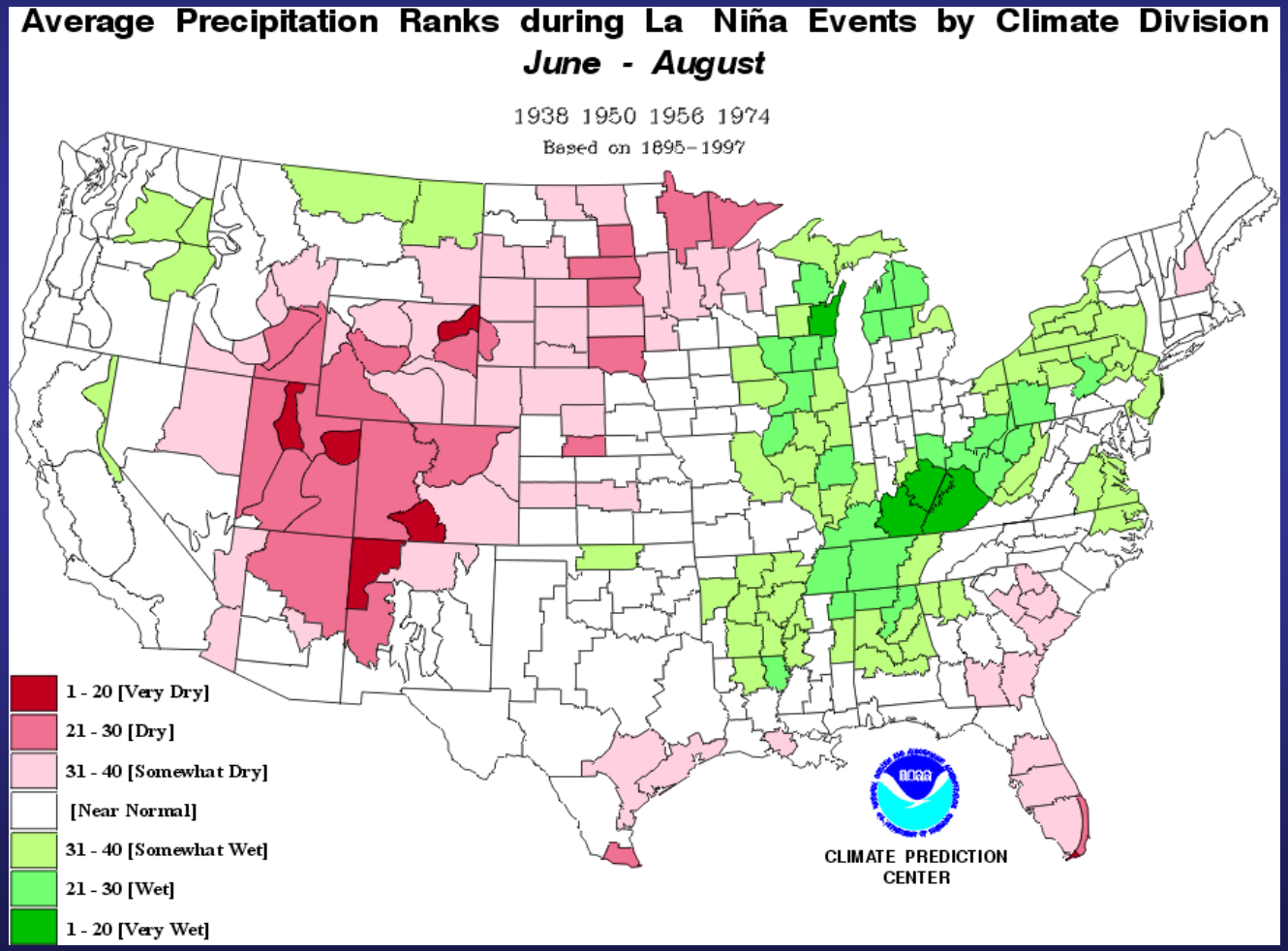
March through May



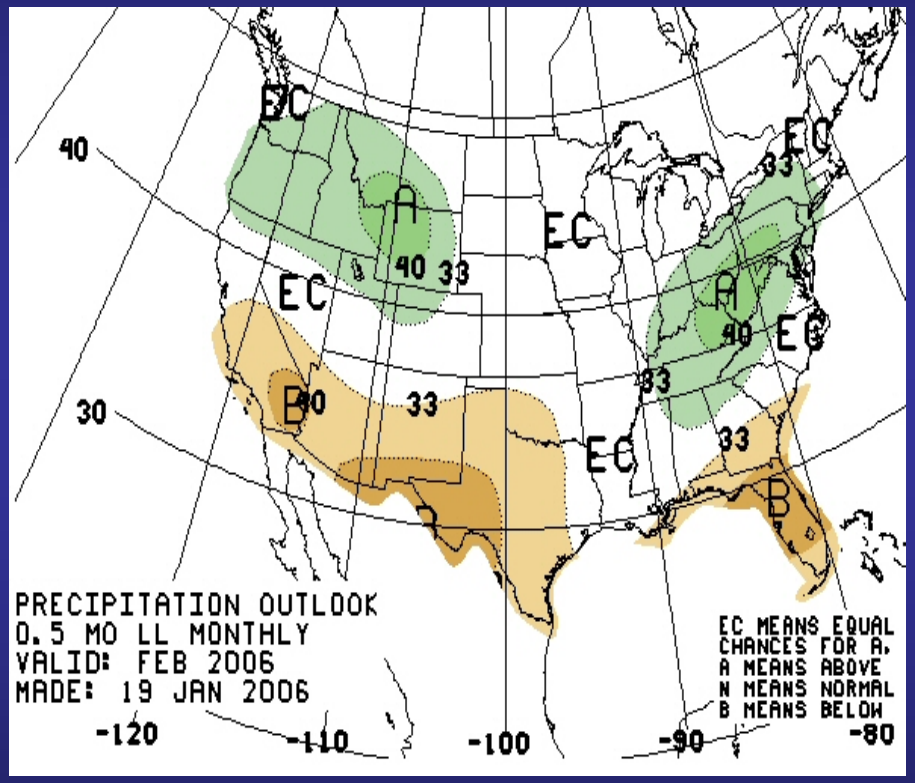


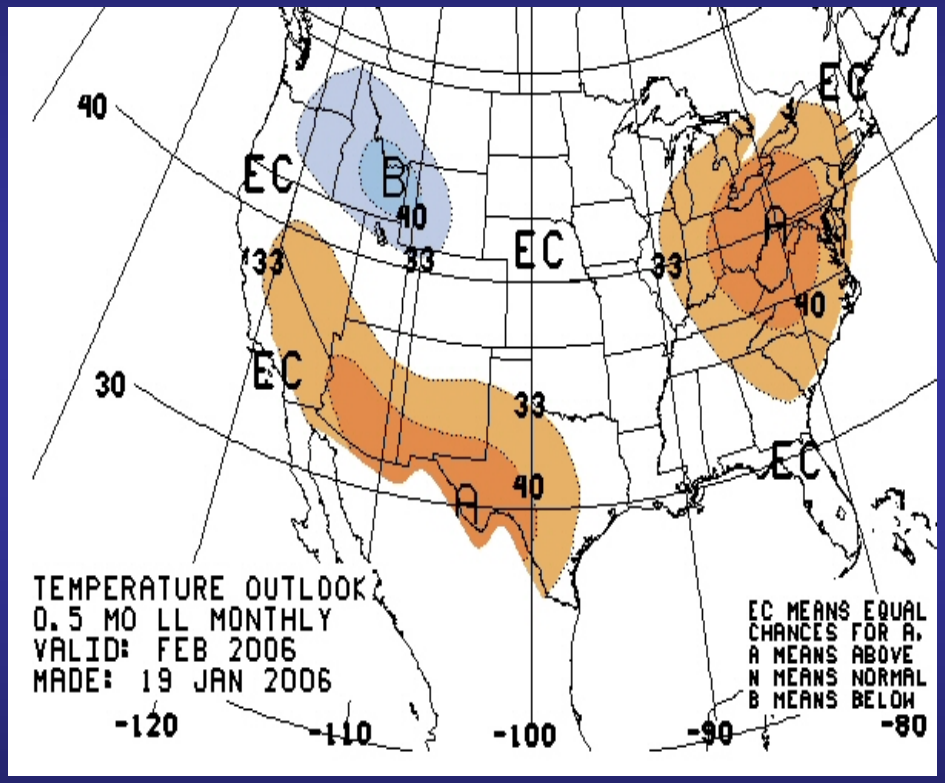
Past La Nina Impacts

June through August (PCP Only)

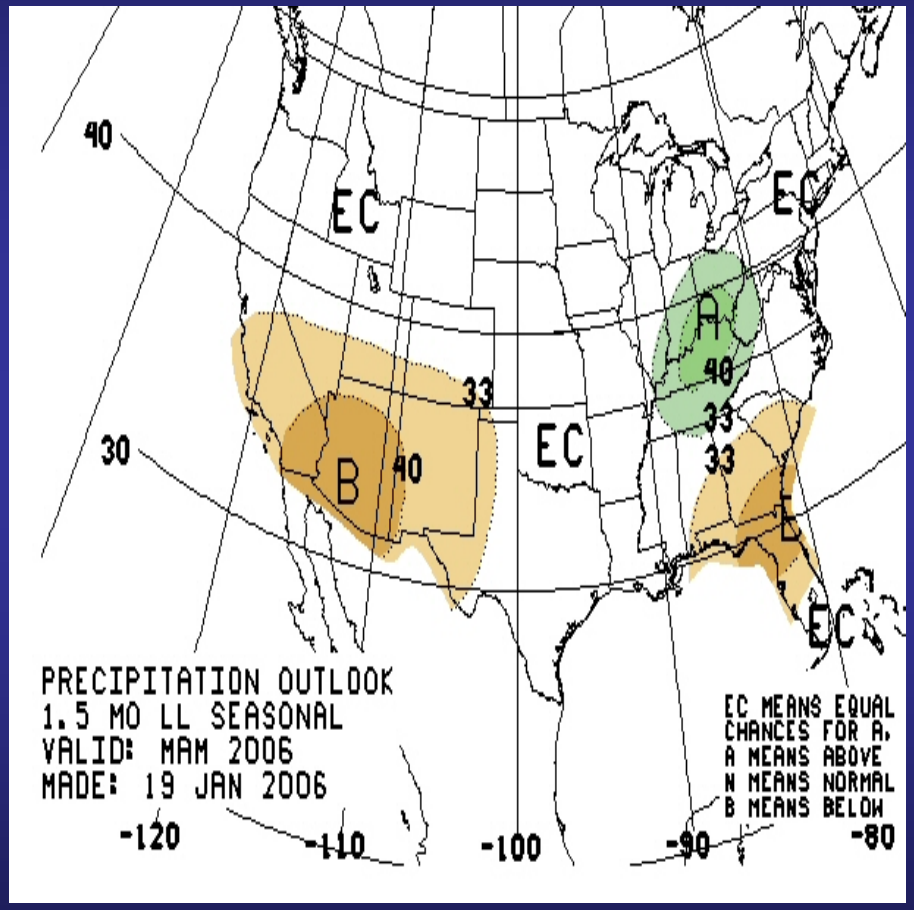


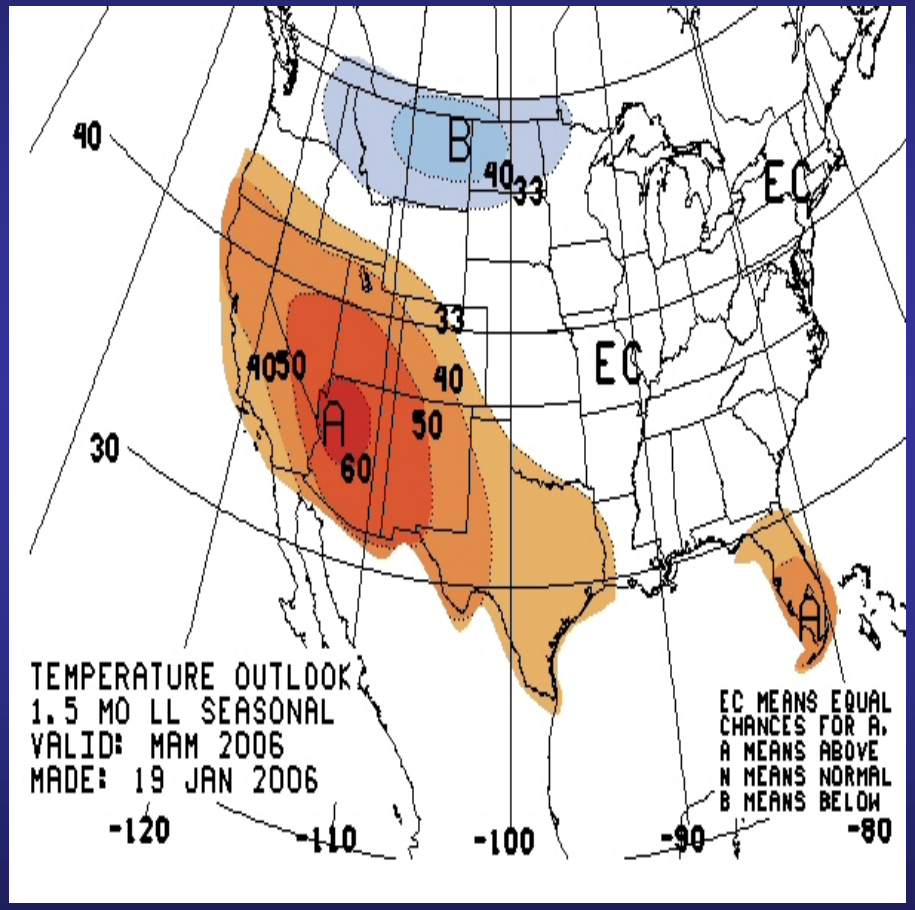
CPC 30 Day Outlook



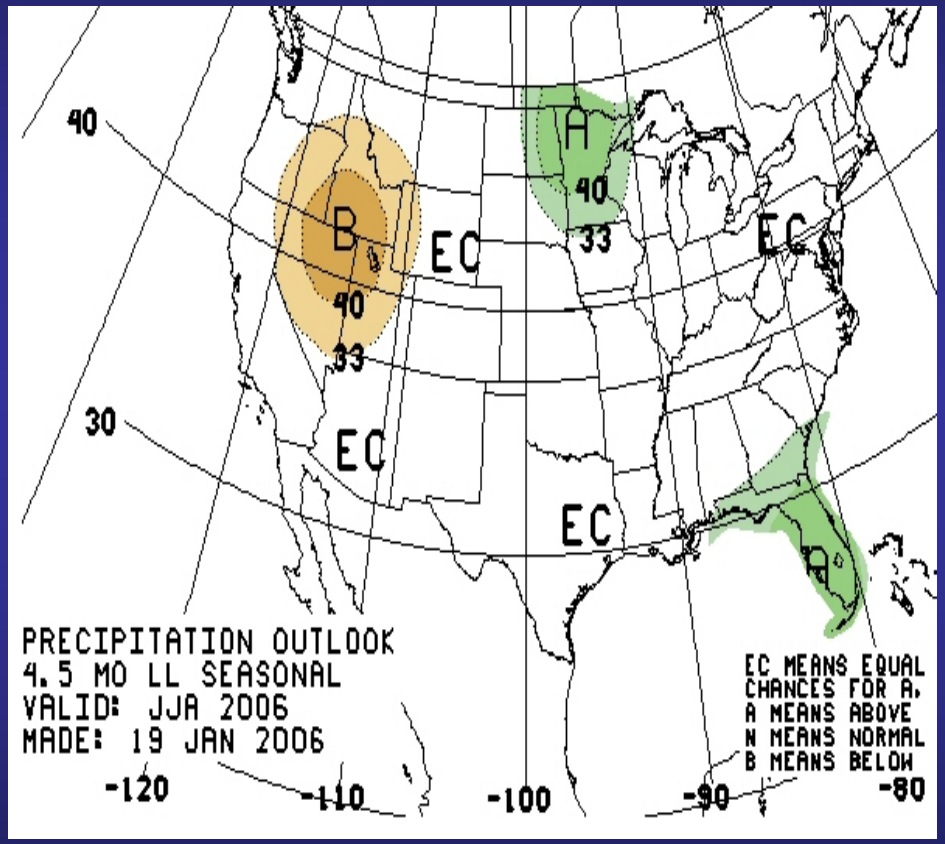


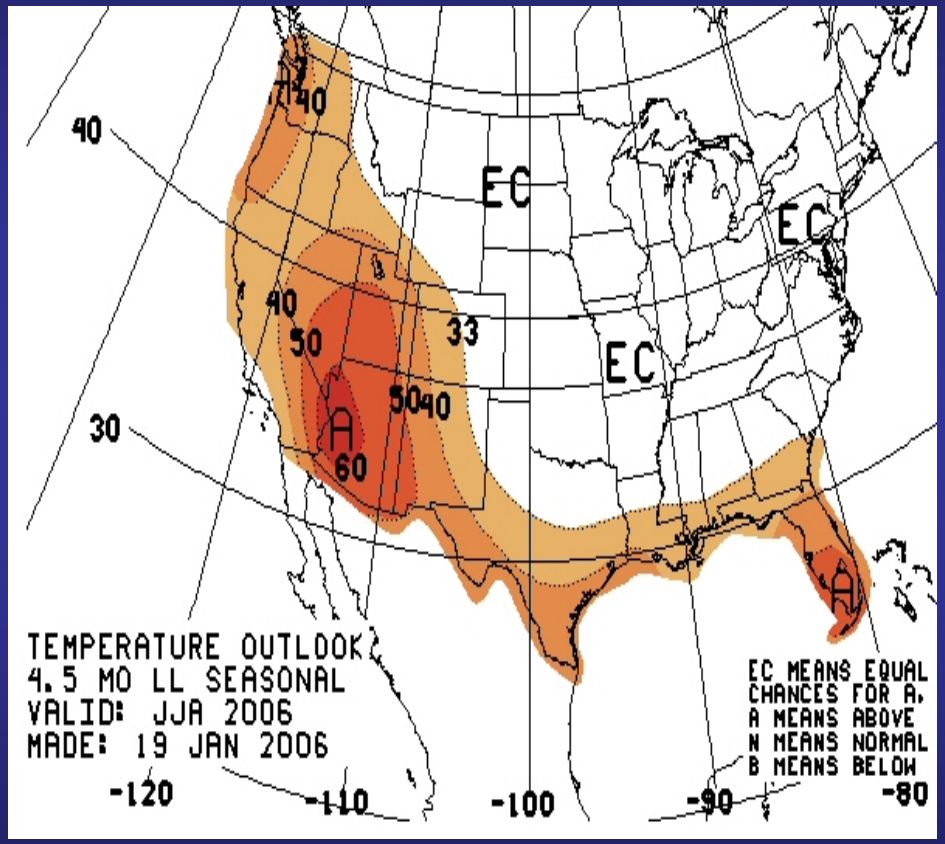
CPC MAM Outlook



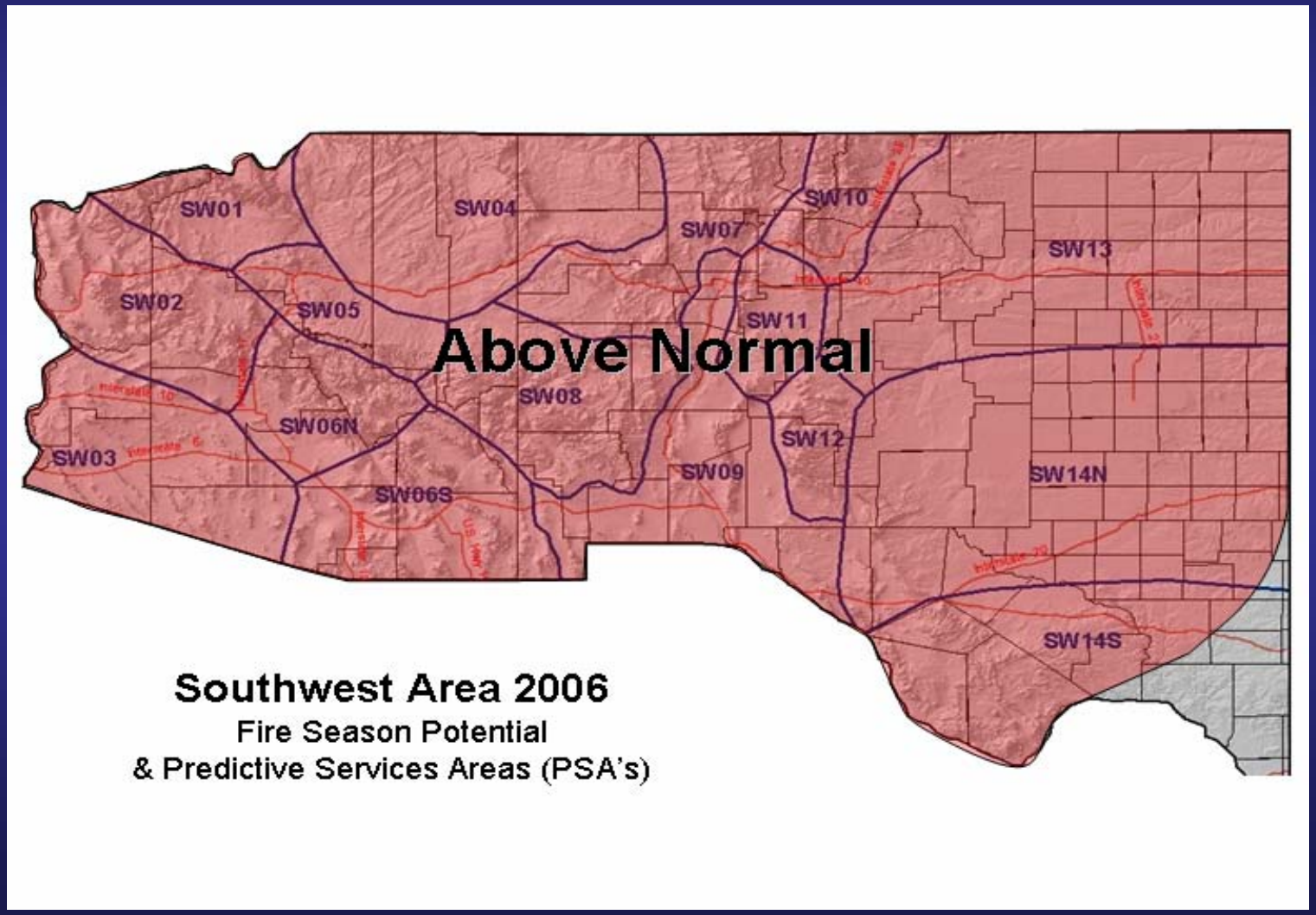


CPC JJA Outlook

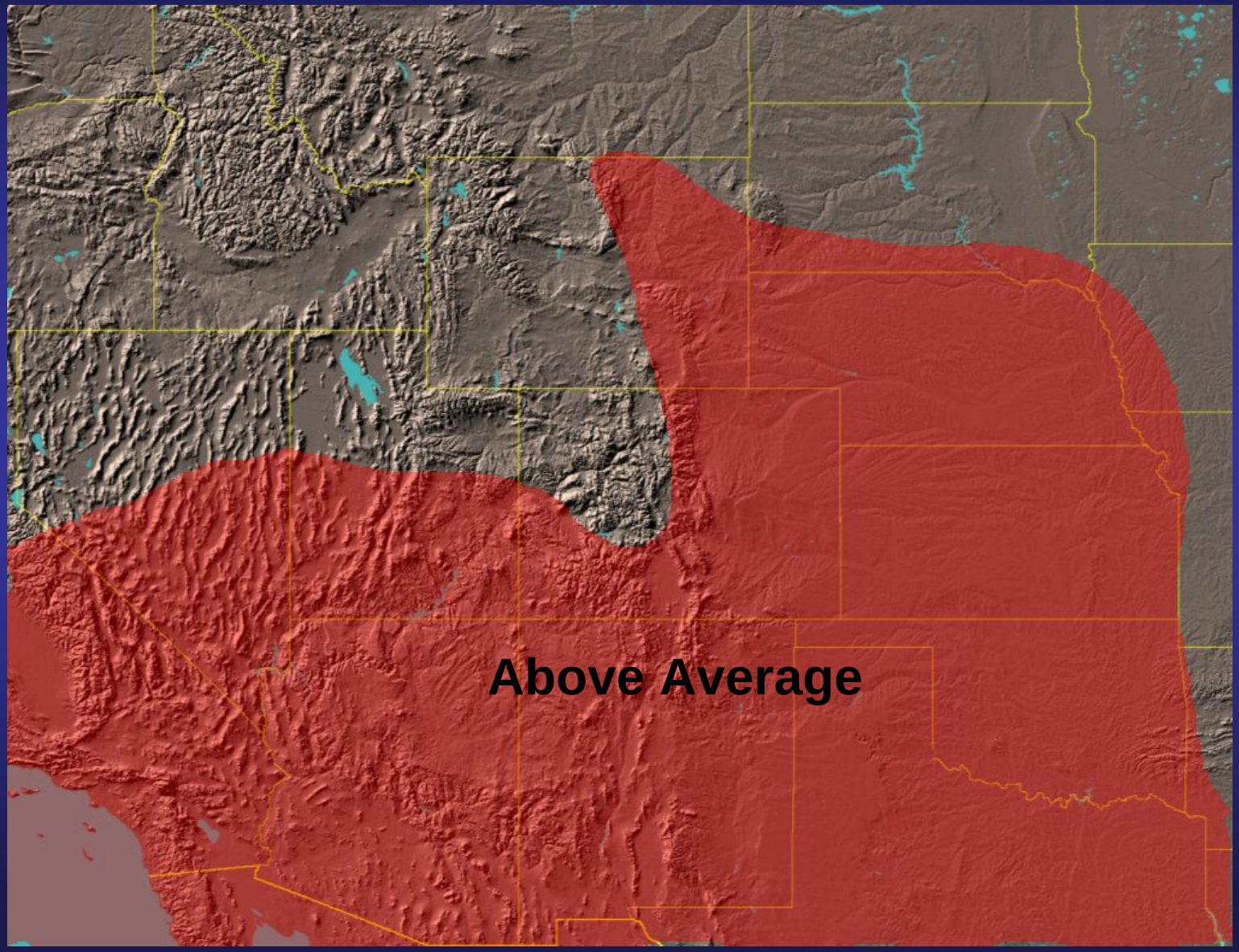




Southwest Outlook



RMA/Southwest Outlook



http://fireweather.sc.egov.usda.gov/farsite_process.php?file=...

File Edit View Favorites Tools Help

```
ENGLISH
1 20 00 0 1400 22 40 91 21 5708
1 21 00 500 1400 26 42 42 24 5708
1 22 00 600 1400 20 39 46 22 5708
```

Done Internet

relative humidity and precipitation, and a WND file with *hourly* data of wi
text (ASCII) format. This page allows you to retrieve these input weather
information generated by RMC. The weather files can be used with FARS
hours into the future.

How to Retrieve FARSITE Weather Files? - Click on the above links. A
download the file to your computer, click '*File -> Save As*' at the top men
save it as a '*Text* File'. Alternatively, you can use the cursor to select all
paste them into a text-editing program such as Notepad or Wordpad. *Eit*
extensions .WTR and .WND, respectively, or else the data may not be

The FARSITE weather files have the following tabular format:

Columns of the WTR File: *month*, *day*, *total daily precipitation amount*
(MST), *time* of maximum temperature (MST), *minimum daily temperatur*
relative humidity (%), *minimum daily relative humidity* (%), *elevation* (f
hour (MST) of daily precipitation . The last two columns are only displaye

Columns of the WND File: *month*, *day*, *hour* (MST), *wind speed* (mph)

Webmaster: N

http://fireweather.sc.egov.usda.gov/farsite_process.ph...

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```
ENGLISH
1 20 0 5 350 0
1 20 100 5 300 6
1 20 200 5 320 6
1 20 300 4 280 0
1 20 400 10 290 0
1 20 500 15 290 0
1 20 600 17 290 0
1 20 700 17 290 0
1 20 800 18 290 0
1 20 900 22 290 0
1 20 1000 21 300 0
1 20 1100 19 300 0
1 20 1200 18 300 0
1 20 1300 17 300 0
1 20 1400 16 290 0
1 20 1500 17 290 0
1 20 1600 13 290 0
1 20 1700 11 280 0
1 20 1800 15 270 0
1 20 1900 17 270 0
1 20 2000 19 270 0
1 20 2100 21 270 0
1 20 2200 23 270 0
1 20 2300 26 270 0
1 21 0 28 270 0
1 21 100 30 270 0
1 21 200 30 270 25
1 21 300 29 270 56
1 21 400 28 270 69
1 21 500 25 270 69
1 21 600 21 270 38
1 21 700 15 260 44
1 21 800 14 260 69
1 21 900 20 270 75
1 21 1000 27 270 75
1 21 1100 25 270 75
1 21 1200 23 280 69
```

Done Internet

fireweather.info - Microsoft Internet Explorer provided by Comcast High-Speed Internet

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Address http://fireweather.info/ Go

Staff Only

USDA FS

Fort Collins, CO

Rocky Mountain Center

Providing Weather Awareness in Support of Clean Air, Healthy Trees & People

Feedback Contacts

HOME

Observed Weather:

- Regional Maps
- Point Obs.
- High-Res. Data

Forecast Weather:

- Regional Maps
- Point Forecast
- Verification
- High-Res. Data

Applications:

- Smoke Forecast
- Wx Planner
- FARSITE Data
- FlamMap Data
- BehaveP Data

http://fireweather.sc.egov.usda.gov - RMC Point Editor - Mi...

New FARSITE Point

Enter **Name** (*up to 10 characters long*), **Latitude**, and **Longitude** (positive *degrees*) of the point you want to submit. To find the *exact* coordinates of a location, go to TopoZone. Weather forecasts for new points become available at the *next* model run.

Point Name:

Latitude (deg): North

Longitude (deg): West

Point Type: Select One:

Submit Reset

Done Internet

st is here. Fri, Jan 20, 2006

Service

h Station

WS Review

for the Western USA.

ur Fingertips!

Applications

Smoke Dispersion:

BlueSky-West Forecast:

- Submit Prescribed Burn

Weather Planner *New*

FARSITE Weather Data *New*

- Submit FARSITE Point

FlamMap Weather Data *New*

- Submit FlamMap Point

BehavePlus Weather Data

upper-air observations using the Local Analysis and Prediction System (LAPS).

Weather forecasts are produced via the MM5 meso-scale community model.

Special Weather Report: Mount Liebig (MT) Sep. 19-21, 2004

- Observed Weather
- Point Forecast (09/20)

Experimental Products

- Mexico Forecast
- South Asia Forecast

RMC Infrastructure

- The RMC Team
- RMC *Linux* Cluster

US Forest Service	Rocky Mountain Research Station	FCAMMS	National Fire Plan	CO Smoke Management Program	AZ Dept. of Environmental Quality	NM Smoke Management Program	National Weather Service	NOAA Fire Weather Page

Alert Posting

Webmaster: **Ned Nikolov** (nnikolov@fs.fed.us)

What is a *Weather Planner* ?

- A Web application aimed to assist the *planning* of *weather-sensitive* events such as prescribed burns.
- Allows users to identify *future* time periods with *favorable* or *prohibitive* weather conditions.
- Works at *user-defined* locations.
- Generates *printable Reports* for use by managers and field crews.

http://fireweather.sc.egov.usda.gov - Weather Planner - Microsoft Internet Explorer provided by Comcast High-Speed Internet

WEATHER PLANNER for KABQ (ALBUQUERQUE) 35.05N; 106.6167W
Forecast Beginning on Oct 16, 11:00 MST

Table Forecast | Cross-Section Plot I | Cross-Section Plot II | Verification Graphs

Click to view

Go back to Map

ast Period: Select Forecast Start Time

http://fireweather.sc.egov.usda.gov - Executive Report - Microsoft Internet Explorer provided by Comcast High...

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RMC *Weather Planner* Executive Report

for KABQ (ALBUQUERQUE) 35.05N; 106.6167W
Forecast Period: Oct 16, 11:00 - Oct 19, 11:00 MST
Issued on Oct 16, 2005, 21:25 MDT

1. *Event*: **Type Event Name here**

2. *Action*: ***GO*** (all constraints met) during the following time periods:

- 11:00 - 18:00 MST on Oct 16; Duration: 7 hours.
- 20:00 - 21:00 MST on Oct 16; Duration: 1 hour.
- 08:00 - 15:00 MST on Oct 17; Duration: 7 hours.
- 17:00 - 20:00 MST on Oct 17; Duration: 3 hours.
- 09:00 - 14:00 MST on Oct 18; Duration: 5 hours.
- 23:00 - 24:00 MST on Oct 18; Duration: 1 hour.
- 00:00 - 08:00 MST on Oct 19; Du

3. *Prescribed Constraints and 'Go' Peri*

Selected Weather Element	Presc	
Air Temperature (deg. F)	Be	00:00-13:00 MST, O
Relative Humidity (%)	Above 24	11:00-24:00 MST, O 00:00-24:00 MST, O 00:00-24:00 MST, O 00:00-13:00 MST, O
Wind Speed (mph)	Below 11	11:00-24:00 MST, O 00:00-24:00 MST, O 00:00-19:00 MST, O 20:00-21:00 MST, O 23:00-24:00 MST, O 00:00-08:00 MST, O
Unwanted Wind Dir. (deg. from N)	140 - 165	11:00-18:00 MST, O 20:00-21:00 MST, O 22:00-23:00 MST, O 01:00-20:00 MST, O 22:00-24:00 MST, O 00:00-08:00 MST, O 09:00-18:00 MST, O 21:00-24:00 MST, O 00:00-13:00 MST, O
Mixing Height (ft AGL)	Above 899	11:00-22:00 MST, O 08:00-22:00 MST, O 08:00-24:00 MST, Oct 18 00:00-13:00 MST, Oct 19

Internet

http://fireweather.sc.egov.usda.gov - Field Report - Microsoft Internet Explorer provided by Comcast High-Speed Internet

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RMC Pocket *Weather Planner* Card

for KABQ (ALBUQUERQUE) 35.05N; 106.6167W
Forecast Period: Oct 16, 11:00 - Oct 19, 11:00 MST
Issued on Oct 16, 2005, 21:26 MDT

Color Key: Below Prescription (No-Go) Within Prescription (Go) Exceeding Prescription (No-Go)

Weather Element / Month Day Hour	Oct 16 12h	Oct 16 13h	Oct 16 14h	Oct 16 15h	Oct 16 16h	Oct 16 17h	Oct 16 18h	Oct 16 19h	Oct 16 20h	Oct 16 21h	Oct 16 22h	Oct 16 23h	Oct 17 00h	Oct 17 01h	Oct 17 02h	Oct 17 03h	Oct 17 04h	Oct 17 05h	Oct 17 06h	Oct 17 07h	Oct 17 08h	Oct 17 09h	Oct 17 10h	Oct 17 11h	Oct 17 12h	Oct 17 13h	Oct 17 14h	Oct 17 15h	Oct 17 16h	Oct 17 17h	Oct 17 18h	Oct 17 19h	Oct 17 20h	Oct 17 21h	Oct 17 22h	Oct 17 23h
Temperature	64	65	66	67	67	66	65	63	62	61	60	60	60	59	59	58	58	57	57	56	59	62	64	66	68	69	70	71	71	70	69	67	65	64	64	63
Rel. Humidity	61	53	47	41	38	39	44	48	49	50	50	50	51	52	54	55	56	57	58	59	54	49	46	43	40	36	33	31	30	32	35	37	40	41	43	44
Wind Speed																					3	3	3	3	4	3	3	3	2	1	3	4	4	5	6	7
Unwanted Wind Dir. 1																					50	20	0	340	330	330	330	320	320	280	190	170	160	150	130	120
Mixing Height																					2K	4K	5K	5K	5K	5K	6K	5K	5K	5K	4K	3K	2K	1K	807	735
Action																					Go	Go	Go	Go	Go	Go	Go	No Go	No Go	Go	Go	Go	No Go	No Go	No Go	No Go

Weather Element / Month Day Hour	Oct 18 20h	Oct 18 21h	Oct 18 22h	Oct 18 23h	Oct 19 00h	Oct 19 01h	Oct 19 02h	Oct 19 03h	Oct 19 04h	Oct 19 05h	Oct 19 06h	Oct 19 07h	Oct 19 08h	Oct 19 09h	Oct 19 10h	Oct 19 11h
Temperature	62	62	61	60	60	59	59	58	61	63	65	67	69	70	71	72
Rel. Humidity	44	45	46	47	48	48	49	49	47	42	37	35	35	35	35	35
Wind Speed	6	4	3	4	4	4	3	3	2	2	4	4	5	6	7	8
Unwanted Wind Dir. 1	130	130	110	110	110	110	110	110	140	200	210	200	200	190	200	190
Mixing Height	735	774	699	604	528	463	443	469	2K	3K	5K	5K	5K	6K	7K	8K
Action	No Go	No Go	No Go	No Go	No Go	No Go	No Go	No Go	No Go	Go	Go	Go	Go	Go	No Go	No Go

Weather Element / Month Day Hour	Oct 19 12h	Oct 19 13h	Oct 19 14h	Oct 19 15h	Oct 19 16h	Oct 19 17h	Oct 19 18h	Oct 19 19h	Oct 19 20h	Oct 19 21h	Oct 19 22h	Oct 19 23h
Temperature	72	71	70	67	66	65	61	60	60	60	60	60
Rel. Humidity	36	37	43	51	55	59	72	76	75	75	74	75
Wind Speed	8	9	8	11	10	12	12	8	9	9	9	9
Unwanted Wind Dir. 1	190	180	160	150	160	190	190	170	170	170	170	170
Mixing Height	8K	8K	8K	5K	4K	5K	3K	2K	2K	2K	3K	5K
Action	No Go	No Go	No Go	No Go	No Go	No Go	No Go	Go	Go	Go	Go	Go

Weather Element / Month Day Hour	Oct 19 24h	Oct 19 01h	Oct 19 02h	Oct 19 03h	Oct 19 04h	Oct 19 05h	Oct 19 06h	Oct 19 07h	Oct 19 08h	Oct 19 09h	Oct 19 10h	Oct 19 11h
Temperature	59	58	57	56	58	59	59	60
Rel. Humidity	76	75	74	75	76	75	70	67	53	45	39	32
Wind Speed	9	10	10	10	14	14	14	13
Unwanted Wind Dir. 1	170	180	190	220	230	230	240
Mixing Height	5K	6K	8K	8K	8K	8K
Action	Go	Go	Go	Go	No Go	No Go	No Go	No Go

Current Weather Prescription:

Selected Weather Element	Prescribed Range
Air Temperature (deg. F)	Below 71
Relative Humidity (%)	Above 24
Wind Speed (mph)	Below 11
Unwanted Wind Dir. (deg. from N)	140 - 165
Mixing Height (ft AGL)	Above 899

Produced by the USDA FS *Rocky Mountain Center* (RMC), a member of the USDA FS Fire Consortia for Advanced Modeling of Meteorology and Smoke (FCAMMS).
On the Web at **www.FireWeather.info**

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ing Height (ft AGL) | 900

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