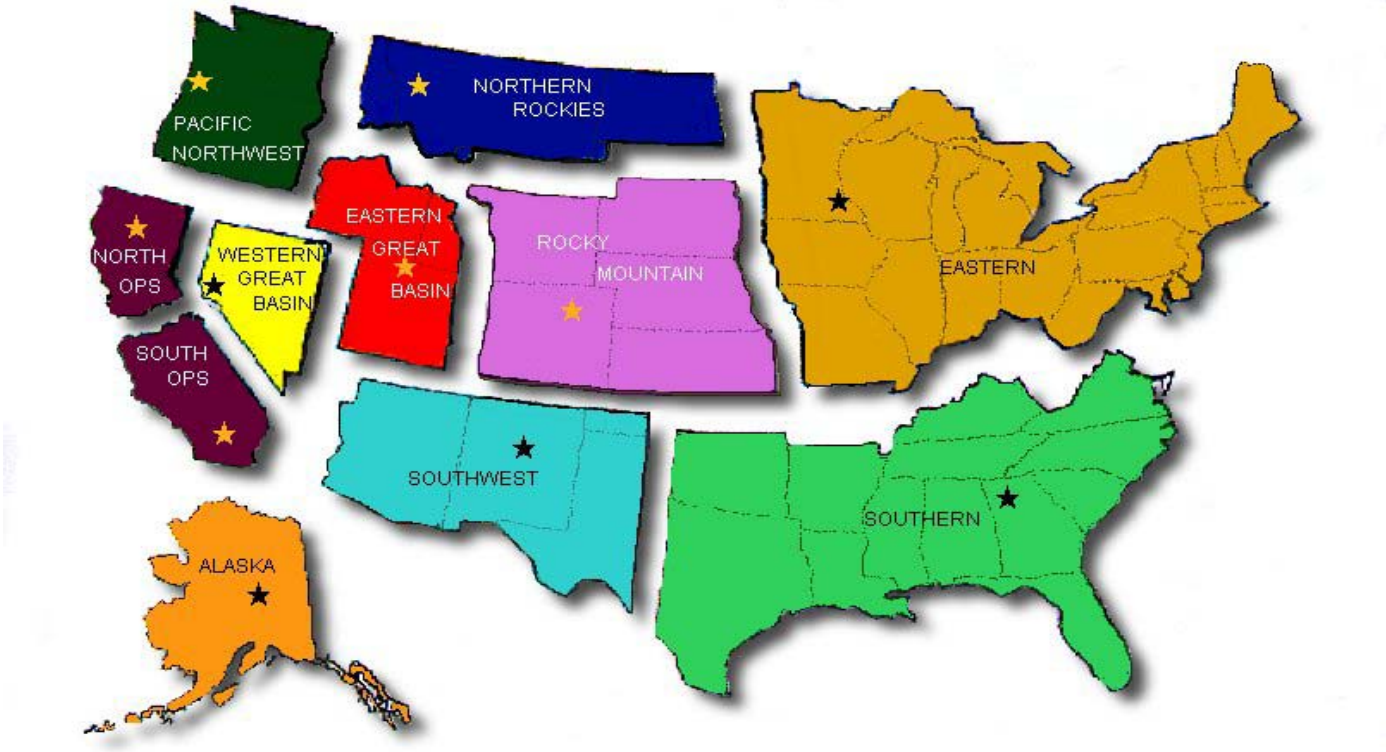
ROMAN

REALTIME **O**BSERVATION **M**ONITORING and **A**NALYSIS **N**ETWORK



A NATIONAL JOINT PROJECT BETWEEN INTERAGENCY METEOROLOGISTS AND THE UNIVERSITY OF UTAH

Users Guide Prepared By Fire Meteorologists Tim Mathewson, Ed Delgado, Russ Mann, and Dave Detweiler

2003 EDITION

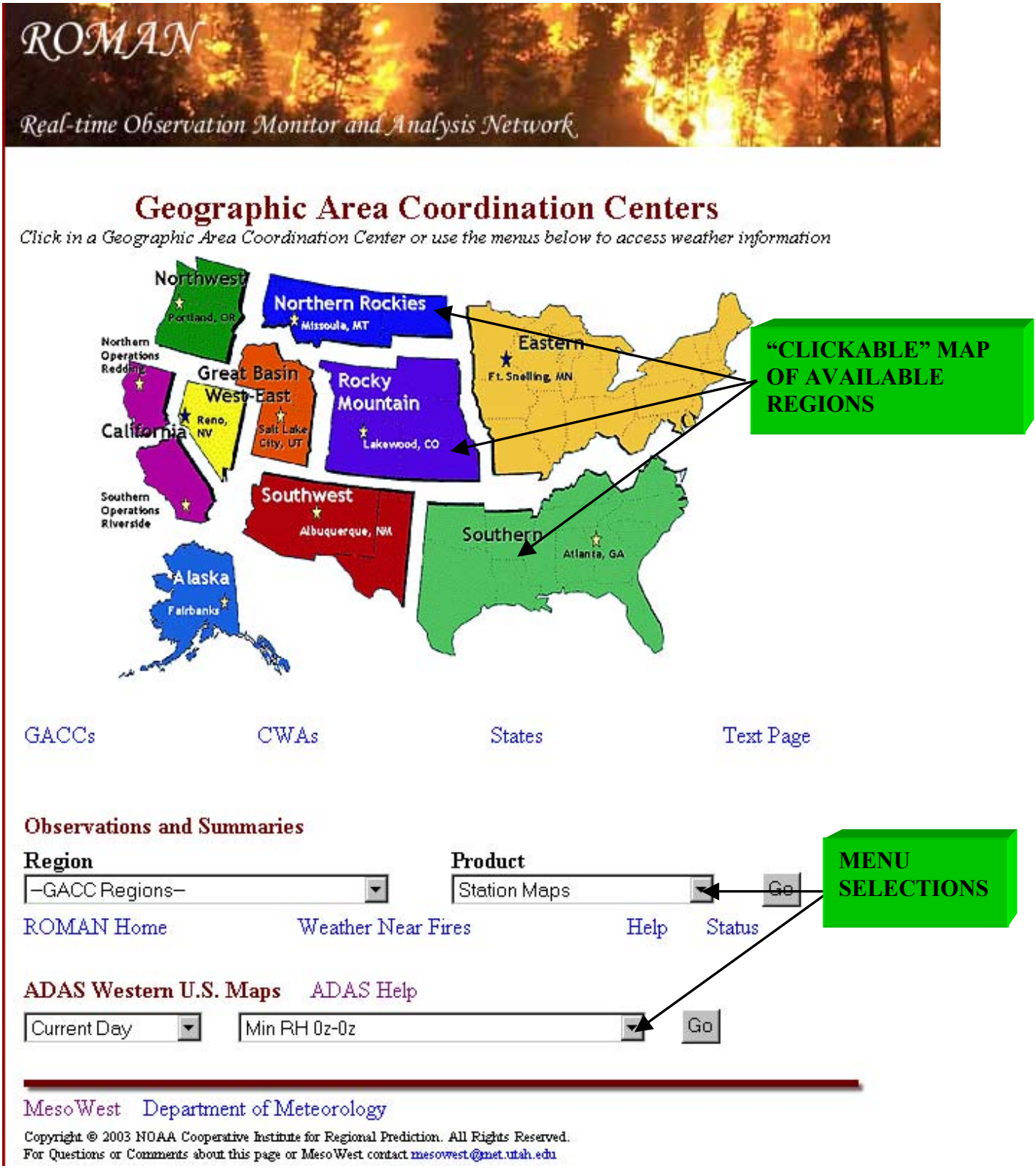
CONTENTS:

I. INTRODUCTION AND BACKGROUND:

During the last couple of years and stemming from the year 2000 fire plan, Land Management Agencies hired 20 meteorologist nationwide to develop fire weather programs at a GACC level and to introduce and implement new programs in support of the fire community. Early on, Coordination Center Meteorologists recognized that valuable weather information crucial to the fire community wasn't available in an adequate format, and was scattered and disorganized across multiple websites. In order to make educated decisions, fire personnel at national, regional, and field levels needed to be able to do a quick, but thorough analysis of a large and varied network of surface weather observations (RAWS, NWS and other miscellaneous networks such as DOT, FAA, etc.). The answer was to consolidate the network of observations into one web site. The format of this web site had to be concise, emphasizing weather elements most pertinent to fire weather/fire danger. As a result, GACC meteorologists in coordination with the University of Utah developed ROMAN (Real-time Observation Monitoring and Analysis Network). With ROMAN, the fire community can now get a quick and thorough view of available fire weather elements, without fumbling through a maze of websites with differing observation networks. The large and varied network of weather observations is now condensed into one web site (One Stop Shopping). The following users guide should help you get started using ROMAN. You will find that the system is easily accessible and user-friendly.

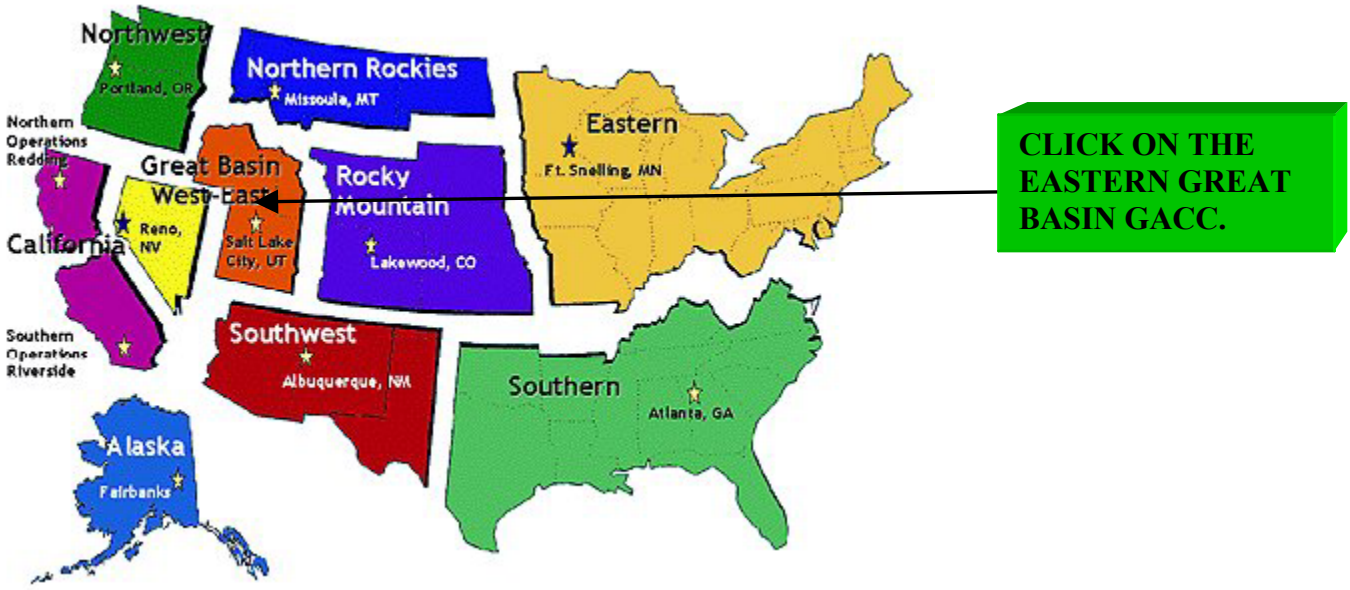
II. HOMEPAGE AND USER INTERFACE:

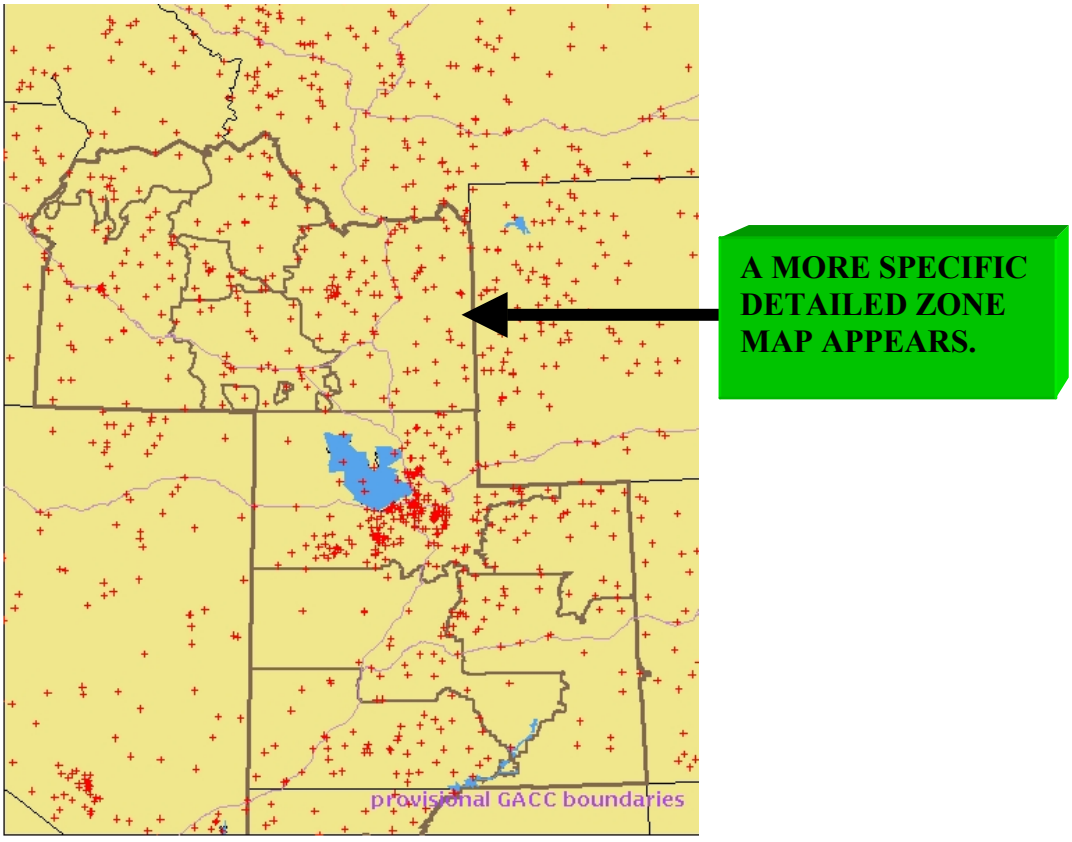
The homepage and user interface was developed in the interest of reduced download time, with the main consideration for phone line limitations at field levels and fire incidents. The homepage interface is a bare-bones design that includes a "clickable" GACC map containing the different geographical areas, pull-down menus for specific product requests, and other links for even more detailed information.



III. CLICKABLE GACC MAP AND LAYERED MAP:

The clickable GACC map was designed for the user to select a specific geographical area of interest. After selecting a geographical area, another layer appears that graphically shows the specific zone configuration of the GACC area. The zone configuration may be different for each geographical area. For example, the Eastern Great Basin Area map may be broken into fire weather zones, whereas the Pacific Northwest may be broken into climate zones. Either way, the user will be able to select a specific weather station (see example below) within the GACC area.



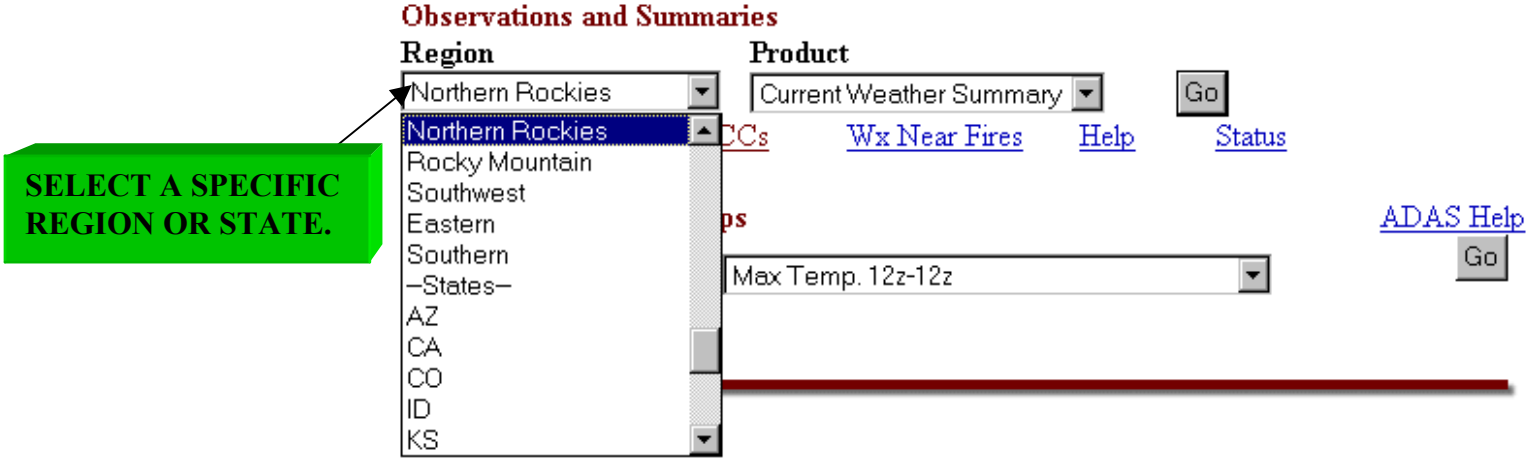


IV. USING THE DROP DOWN MENUS:

Utilize drop-down menus to make specific **region** and **product** selections.

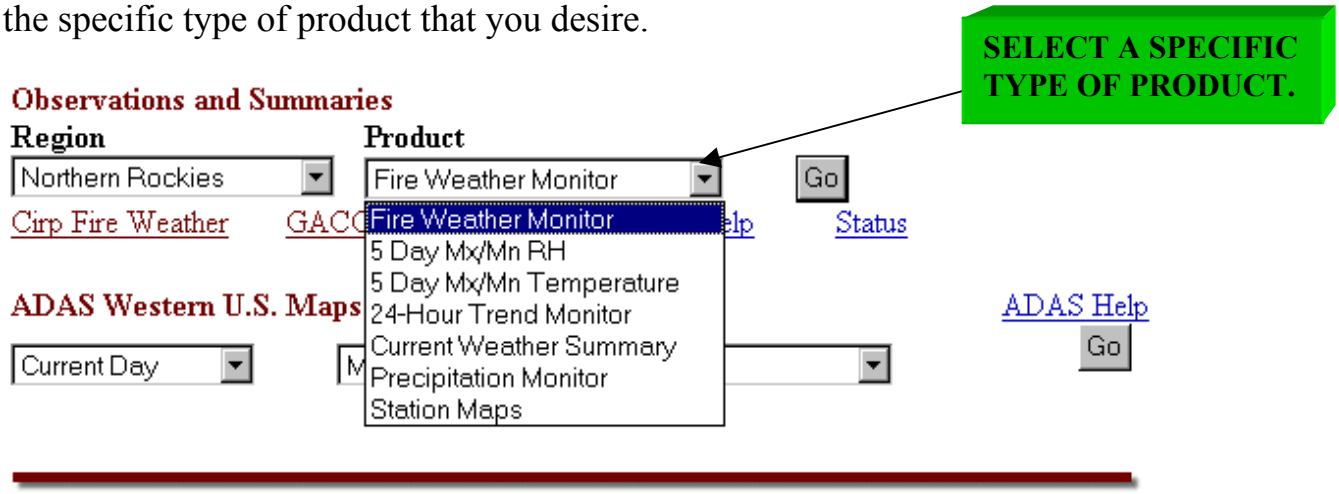
Region Selection

Click on the down arrow of the **region** drop down menu to highlight the region that you are requesting data from. The menu allows the user to select different geographical areas.



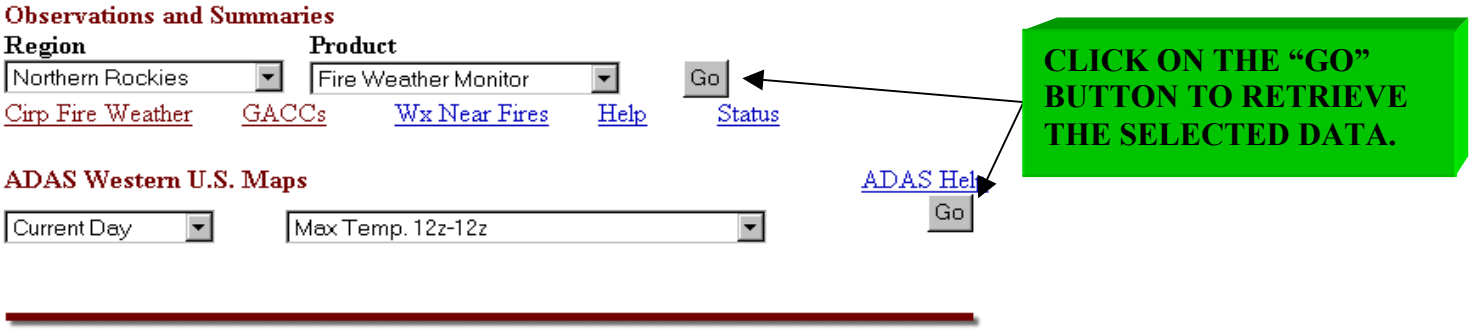
Product Selection

By clicking on the down arrow of the **product** drop down menu, you are able to highlight the specific type of product that you desire.



Retrieving Data

Clicking on the **GO** button retrieves the data request that the user specified in the drop down menus. Please give the server and database time to retrieve the data that you specified. The data typically displays in less than one minute, but may take longer based on the amount of users tasking the system.

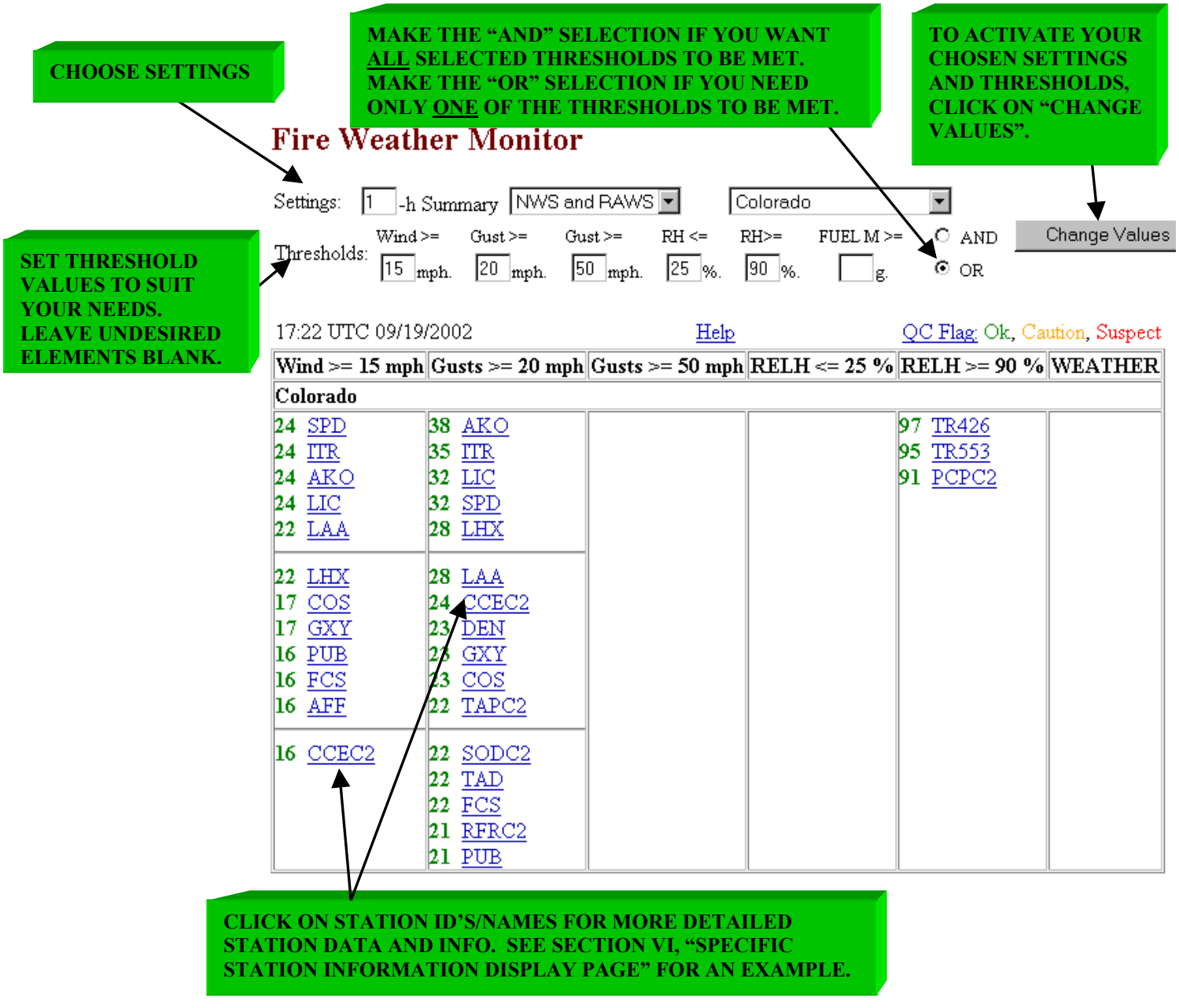


V. THE PRODUCT LIST:

The products were developed based on GACC Meteorologist input, as well as from input from the fire community nationwide. So far, the product list consists of a **Fire Weather Monitor, 5 Day Mx/Mn Relative Humidity Table, 5 Day Mx/Mn Temperature Table, 24 Hour Trend Monitor, Current Weather Summary, Precipitation Monitor, and Station maps.** The following sections (figs. A-G) will focus on examples and uses of each product listed above.

A. Fire Weather Monitor

The Fire Weather Monitor is a dynamic page that allows the user to assign specific weather thresholds that will be monitored and flagged whenever they occur. The monitor is programmed to search for new data and reload every 5 minutes, thereby displaying the locations where the threshold criteria were met. Changing the settings in the drop down menus allows the user to look at NWS and/or RAWS observations back as far as 24 hours (Set the number of hours you want to view data for).



B. 5 Day Max/Min Relative Humidity Table

The 5 Day Max/Min RH Table (see below) displays 5 days of max/min relative humidity data, and the times in which the max and min value was reached.

The ID listed just above the station name is a clickable link. Clicking on the link displays another page of detailed information about the station, such as meteograms (graphs) of data, detailed observations going back as far as 2 weeks, several years of archived data, a map of the station's location, the station's lat/lon, and the station's elevation. Refer to section VI, **Specific Station Information Display Page** for examples.

Maximum and Minimum Relative Humidity for Eastern Great Basin

Variable Relative Humidity | **Location** Eastern Great Basin | **Network** RAWS | Change Settings

Help QC Flag: Ok, Caution, Suspect

CIC: Central Idaho Interagency Dispatch	Info	Time	4-21 Max/ Time	4-21 Min/ Time	4-20 Max/ Time	4-20 Min/ Time	4-19 Max/ Time	4-19 Min/ Time	4-18 Max/ Time	4-18 Min/ Time	4-17 Max/ Time	4-17 Min/ Time
YFFI1 BONANZA	RAWS 6411 ft	1605Z 10:05MDT	86 705	57 1005	90 0905	17 1605	91 0605	12 1705	98 0505	37 1905	98 2105	50 1605
CHRI1 CHALLIS	RAWS 5249 ft	1600Z 10:00MDT	50 700	31 000	52 0700	13 1700	56 0700	13 1900	86 0100	26 1800	86 0900	37 0200
CBFI1 COPPER BASIN	RAWS 7822 ft	1605Z 10:05MDT	53 2305	36 905	89 0105	30 1505	94 0705	29 1605	99 0405	36 1305	99 2105	50 1405
EZRI1 EZRA CREEK	RAWS 6660 ft	1610Z 10:10MDT	54 510	38 2310	57 0510	24 1710	70 0710	24 1710	93 0110	49 1910	93 0710	59 0310
INDI1 INDIANOLA	RAWS 3501 ft	1605Z 10:05MDT	76 705	39 1005	83 0705	13 1805	81 0605	18 1805	63 0605	28 1905	84 0505	24 1705
KRCI1 KRILEY CREEK	RAWS 5200 ft	1625Z 10:25MDT	50 725	27 2325	55 0725	16 1625	66 0725	19 1825	82 0425	38 1725	85 0925	46 1825
LDOI1 LEADORE CREEK	RAWS 6001 ft	1625Z 10:25MDT	58 2325	32 1025	68 0125	20 1325	82 0725	17 1825	100 0825	46 1725	100 1125	55 0225

CLICK ON STATION ID'S/NAMES FOR MORE DETAILED STATION DATA AND INFORMATION. SEE SECTION VI, "SPECIFIC STATION INFORMATION DISPLAY PAGE" FOR AN EXAMPLE.

DATA IS POSTED IN DIFFERENT COLORS:
GREEN – GOOD DATA
YELLOW – USE DATA WITH CAUTION
RED – DATA IS SUSPECT

CLICK ON "QC FLAGS" (QUALITY CONTROL) FOR MORE INFORMATION.

C. 5 Day Max/Min Temperature Table

The 5 Day Max/Min temperature table displays 5 days of max/min temperature data and the times in which the max and min value was reached.

As in section B above, the ID listed just above the actual station name is also a clickable link. Clicking on the link displays another page of detailed information about the station, such as meteograms (graphs) of data, detailed observations going back as far as 2 weeks, several years of archived data, a map of the station's location, the station's lat/lon, and the station's elevation. Refer to section VI, **Specific Station Information Display Page** for examples.

Maximum and Minimum Temperature for Eastern Great Basin

Variable Temperature | **Location** Eastern Great Basin | **Network** NWS and RAWS | Change Settings

Help QC Flag: Ok, Caution, Suspect

CIC: Central Idaho Interagency Dispatch	Info	Time	4-21		4-20		4-19		4-18		4-17	
			Max/ Time	Min/ Time	Max/ Time	Min/ Time	Max/ Time	Min/ Time	Max/ Time	Min/ Time	Max/ Time	Min/ Time
YFFI1 BONANZA	RAWS 6411 ft	1705Z 11:05MDT	47 1105	26 605	60 1605	22 0805	55 1905	17 0705	43 1905	24 0505	44 1605	29 0205
CHRI1 CHALLIS	RAWS 5249 ft	1700Z 11:00MDT	48 1100	34 700	65 1700	32 0700	62 1700	27 0700	50 1800	30 0600	48 1600	32 0800
LLJ CHALLIS (AMOS)	NWS/FAA 5072 ft	1655Z 10:55MDT	45 1055	34 355	62 1655	30 0655	55 1655	24 0655	48 1555	30 0655	44 1755	33 0755
CBFI1 COPPER BASIN	RAWS 7822 ft	1705Z 11:05MDT	47 1005	32 2305	50 1605	17 0605	49 1605	11 0705	44 1105	7 0705	48 1405	27 2305
EZRI1 EZRA CREEK	RAWS 6660 ft	1710Z 11:10MDT	49 1110	36 510	55 1710	35 0510	53 1710	26 0710	39 1310	29 0310	39 1810	30 0710
INDI1 INDIANOLA	RAWS 3501 ft	1705Z 11:05MDT	59 1105	33 705	74 1705	32 0805	66 1705	28 0805	54 1905	37 2305	62 1505	32 0705
KRCI1 KRILEY CREEK	RAWS 5200 ft	1625Z 10:25MDT	51 2325	39 725	61 1825	36 0725	55 1725	29 0725	48 1625	34 2325	49 1625	33 0725
LDOI1 LEADORE CREEK	RAWS 6001 ft	1625Z 10:25MDT	50 1025	33 2325	57 1725	31 0125	55 1725	25 0725	41 1725	30 0725	43 1825	32 1025

CLICK ON STATION ID'S/NAMES FOR MORE DETAILED STATION DATA AND INFORMATION. SEE SECTION VI, "SPECIFIC STATION INFROMATION DISPLAY PAGE" FOR AN EXAMPLE.

D. 5-Day Max/Min Wind Speed Table

The 5 Day Max/Min wind speed table displays 5 days of max/min wind data and the times in which the max and min value was reached. One important thing to note on this section is that the max wind is the peak **sustained** wind recorded, not the peak gust which is an **instantaneous** measurement. There is a section under development that will incorporate these instantaneous peak gusts in future ROMAN updates.

As in section B and C above, the ID listed just above the actual station name is a clickable link which accesses detailed station information.

Maximum and Minimum Wind Speed for Southwest

Variable Wind Speed | **Location** Southwest | **Network** RAWS | Change Settings

Help QC Flag: Ok, Caution, Suspect

			4-22		4-21		4-20		4-19		4-18	
Santa Fe Zone	**Info**	**Time**	**Max/ Time**	**Min/ Time**	**Max/ Time**	**Min/ Time**	**Max/ Time**	**Min/ Time**	**Max/ Time**	**Min/ Time**	**Max/ Time**	**Min/ Time**
COYN5 **COYOTE**	RAWS 8799 ft	1235Z 6:35MDT	**6** 135	**3** 2335	**7** 1135	**0** 2035	**4** 2335	**0** 0835	**5** 1635	**0** 0835	**4** 1035	**0** 0535
GRCN5 **GARCIA CANY ALERT**	RAWS 8156 ft	1315Z 7:15MDT	**7** 115	**3** 515	**8** 1115	**0** 1915	**5** 2315	**0** 0715	**6** 0515	**0** 0815	**10** 0015	**0** 0915
TR364 **GUAJE ALERT #6**	RAWS 8310 ft	0535Z 23:35MDT	**10** 2335	**10** 2335	**13** 0235	**2** 1835	**9** 2335	**3** 0935	**9** 0135	**0** 0935	**15** 0035	**1** 1135
NS054 **JEMEZ**	RAWS 7999 ft	1310Z 7:10MDT	**5** 110	**2** 610	**9** 1010	**3** 0010	**5** 2310	**1** 0810	**9** 0910	**1** 2310	**10** 0210	**1** 2210
PJRN5 **PAJARITO ALERT #3**	RAWS 8333 ft	1330Z 7:30MDT	**3** 2330	**1** 130	**5** 1230	**0** 0630	**3** 2230	**0** 0730	**3** 0530	**0** 0930	**5** 0030	**0** 0730
LVPN5 **PECOS**	RAWS 8599 ft	1220Z 6:20MDT	**7** 020	**2** 520	**7** 1420	**3** 0720	**7** 1420	**0** 0320	**9** 1220	**0** 0220	**12** 1420	**1** 2020
PUBN5 **PUEBLO CANY ALERT**	RAWS 8501 ft	1315Z 7:15MDT	**9** 015	**6** 515	**13** 1615	**2** 1915	**9** 2215	**0** 0715	**13** 0215	**0** 0715	**15** 0015	**2** 1315
QMCN5 **QUEMAZON CANY #1**	RAWS 9770 ft	1330Z 7:30MDT	**10** 2330	**2** 530	**10** 2130	**4** 0630	**6** 2330	**0** 1930	**10** 0230	**0** 2330	**13** 0230	**3** 1730
SCLN5 **SANTA CLARA CANY AL**	RAWS 7940 ft	1325Z 7:25MDT	**7** 125	**3** 525	**8** 1425	**0** 1925	**6** 2325	**0** 0725	**6** 1125	**0** 0725	**10** 0025	**0** 0825

E. 24 Hour Trend Monitor

The 24hr trend monitor provides current and 24 hour trend information for all available weather stations within the specified area. In the example below, the (Temp) column for the first station has two numbers. The first number is the current temperature; the second number is the change in degrees from the same time 24 hours ago. You may request 24 hour trends from up to the last 12 hourly observations by typing the appropriate number in the settings window.

REQUEST THE LATEST 24-HOUR TREND (1), OR UP TO THE LAST 12.

Fire Weather 24-Hour Trend Monitor

Settings: 1 -h Summary | NWS and RAWS | Colorado | Change Settings

24-Hour Changes 17:28 UTC 04/21/2003 (reloads every 5 minutes) Help QC Flag: Ok, Caution, Suspect

Colorado

Alamosa County

Station	Info	Time	Temp	DewT	RH	Dir	Spd	Gust
ALS ALAMOSA MUNI(AWOS)	NWS/FAA 7543 ft	1650Z 10:50MDT	50/+ 9	23/- 11	34/- 41	E/	6/+ 2	

Arapahoe County

Station	Info	Time	Temp	DewT	RH	Dir	Spd	Gust
BKF BUCKLEY ANGB/DENVER	NWS/FAA 5663 ft	1655Z 10:55MDT	59/+ 11	30/- 4	33/- 24	SSW / N	12/+ 2	
APA DENVER/CENTENNIAL	NWS/FAA 5883 ft	1650Z 10:50MDT	57/+ 10	34/+ 5	41/- 8	SSE / N	10/+ 3	

Archuleta County

Station	Info	Time	Temp	DewT	RH	Dir	Spd	Gust
DYKC2 DEVIL RTN.	RAWS 7441 ft	1655Z 10:55MDT	60/+ 8	22/- 4	23/- 13	SSE / S	5/+ 0	14/+ 3
SDVC2 SAN DOVAL	RAWS 8491 ft	1650Z 10:50MDT	-32/- 32	-53/- 8	28/- 17	SSE / SSE	7/+ 2	13/+ 5

CLICKABLE STATION ID'S/NAMES

CHANGE IN WEATHER CONDITIONS FROM 24-HOURS AGO.

CURRENT WIND DIRECTION, AND DIRECTION FROM 24-HOURS AGO.

F. Current Weather Summary

The Current Weather Summary provides access to current weather, updated every 5 minutes from RAWS, NWS, or all networks (including miscellaneous networks like DOT, FAA, etc.). Currently, the weather variables presented are temperature (TEMP), relative humidity (RH), wind speed in knots (WIND), wind direction in degrees (DRCT), peak wind or gust (PKWND), and 10 hour fuel moisture (FM). In addition 24-hour max/min readings are given for temperature and precipitation.

SELECT THE OBSERVATION NETWORK.

CURRENT WEATHER SUMMARY

Settings: RAWS | CO | Reports within last 12 hrs | Change Settings

RAWS
NWS and RAWS
All Networks

Current tir 2002 (reloads every 5 minutes) Print Version Help QC Flag: Ok, Caution, Suspect

Colorado

Archuleta

	Time		Current						24 Hour					Precipitation			
Station	LOCAL	UTC	TEMP	RH	WIND	DRCT	PKWND	FM	MAX T	MIN T	MAX RH	MIN RH	MAX G	1 HR	3 HR	6 HR	24 HR
DEVIL MTN.	1155MDT	1755	61	46	4	160	10	-	61	36	100	46	17	0	0	0	0.10
SAN DOVAL	1150MDT	1750	54	61	3	180	8	16	54	37	100	61	14	0	0	0	0.06
SJF2 PAGOSA PORT	1225MDT	1825	57	59	4	210	7	26	57	34	100	58	11	0	0.01	0.01	0.65

Boulder

	Time		Current						24 Hour					Precipitation			
Station	LOCAL	UTC	TEMP	RH	WIND	DRCT	PKWND	FM	MAX T	MIN T	MAX RH	MIN RH	MAX G	1 HR	3 HR	6 HR	24 HR
BOULDER	1155MDT	1755	59	40	4	90	9	15	62	38	91	36	14	0	0	0	0.08
PSF2 SALIDA 555	1225MDT	1825	46	42	6	250	19	-	53	28	93	32	19	0	0.20	0.20	0.29

CLICKABLE STATION ID'S/NAMES.

WIND AT THE BOULDER RAWS BLOWING AT 4 KNOTS FROM 90 DEGREES (FROM THE EAST), WITH A PEAK WIND OR GUST AT 9 MPH.

G. Precipitation Monitor

The precipitation monitor provides precipitation amounts for each individual station, as well as zone summaries. The table is broken down into 1hr, 3hr, 6hr, 12hr, and 24hr totals, as well as amounts since midnight and 1300 LST. At the bottom of the table is a summary of the observations from your chosen zone or group of observations, with max/min/average amounts calculated.

CLICKABLE STATION ID'S/NAMES.

1 HR, 3 HR, 6 HR, 12 HR, 24 HR PRECIPITATION AMOUNTS FOR INDIVIDUAL STATIONS.

Fremont

Station	Info	Time	1 HR	3 HR	6 HR	12 HR	24 HR	Since Midnight	Since 1300L
ANDW4 ANDERSON RIDGE	RAWS 8120 ft	7:45 MDT	0	0	0	0	0.02	0	0.02
CAMW4 CAMP CREEK	RAWS 7379 ft	7:40 MDT	0	0.03	0.06	0.07	0.07	0.07	0.07
ELKW4 ELKHORN	RAWS 8084 ft	6:55 MDT	0	0	0	0	0	0	0
RASW4 RASPBERRY	RAWS 10039 ft	7:40 MDT	0	0	0	0	0.02	0	0.02
WRVW4 WIND RIVER	RAWS 9236 ft	7:20 MDT	0	0	0	0	0	0	0
MAXIMUM	-	-	0	0.03	0.06	0.07	0.07	0.07	0.07
ZONE AVERAGE	-	-	0	0.01	0.01	0.01	0.02	0.01	0.02
MINIMUM	-	-	0	0	0	0	0	0	0

MAX/MIN/AVERAGE PRECIPITATION FOR ALL STATIONS IN THE CHOSEN ZONE.

PRECIPITATION AMOUNTS SINCE MIDNIGHT AND 1300 LST.

H. Precipitation Summary

Similar to the precipitation monitor section, the precipitation summary section provides precipitation amounts for each individual station, as well as zone summaries. The difference is that the precipitation summary section summarizes precipitation over a number of days instead of hours. An added feature of the precipitation summary section counts the number of days that have passed since a specific amount of precipitation occurred.

2 DAY, 5 DAY, 7 DAY, 10 DAY, AND 30 DAY PRECIPITATION AMOUNTS FOR INDIVIDUAL STATIONS.

Grant County

Station	Type	2 days	5 days	7 days	10 days	30 days	0.01"	0.10"	0.25"	0.50"	1.00"
BOARD CREEK	RAWS	0.38	-	-	1.25	-	2	2	101	101	-
CASE	RAWS	0.09	-	-	0.47	2.31	2	17	50	53	-
CRANE PRAIRIE	RAWS	0.20	-	-	0.78	4.06	2	17	17	67	101
FALL MOUNTAIN	RAWS	0.02	-	-	0.67	2.83	3	10	30	93	-
KEENEY TWO	RAWS	0.19	-	-	1.24	3.52	2	2	10	67	-
MAXIMUM	-	0.38	-	-	1.25	4.06					
ZONE AVERAGE	-	0.18	-	-	0.88	3.18					
MINIMUM	-	0.02	-	-	0.47	2.31					

Harney County

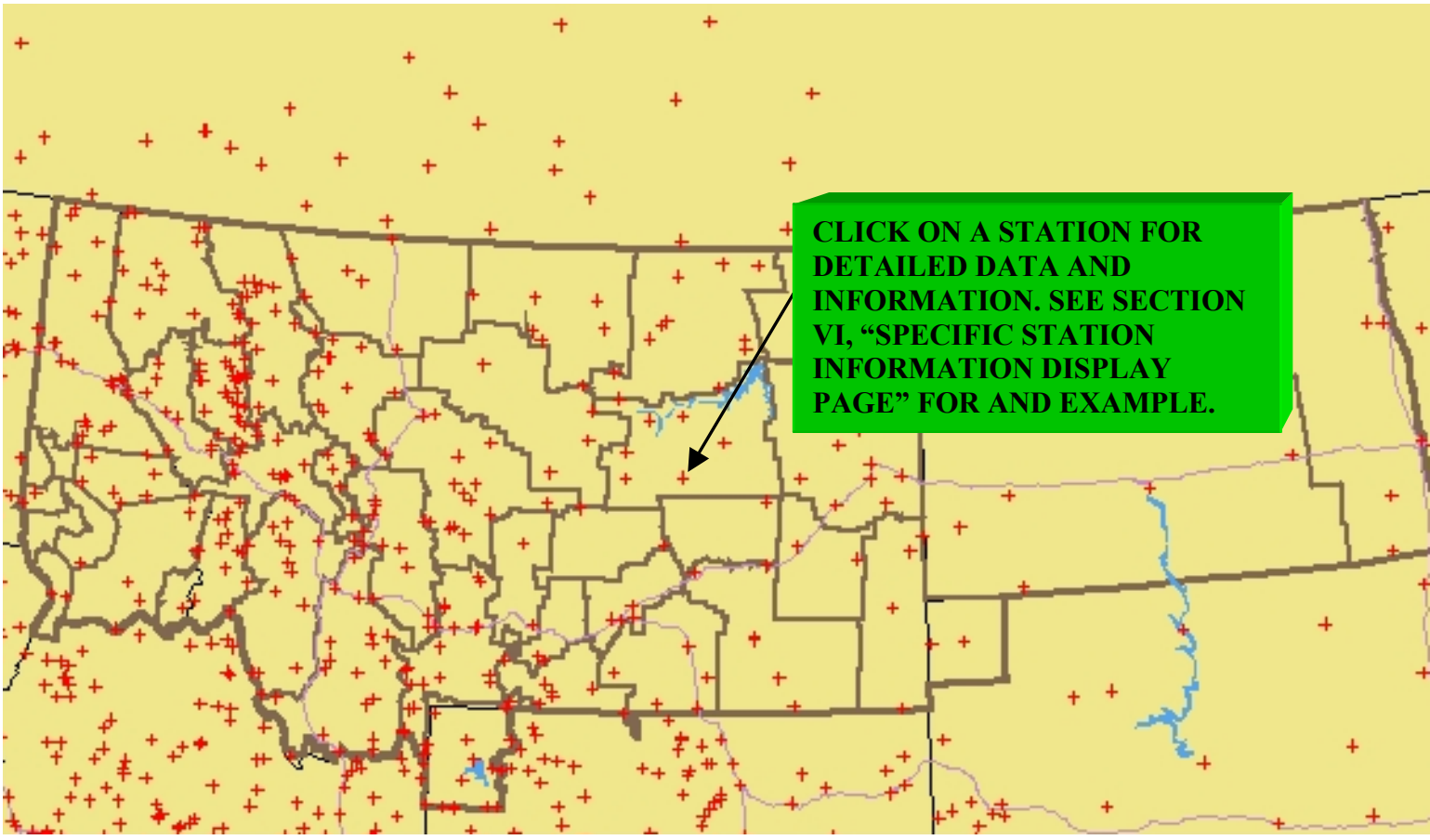
Station	Type	2 days	5 days	7 days	10 days	30 days	0.01"	0.10"	0.25"	0.50"	1.00"
ALLISON	RAWS	0.05	-	-	0.58	3.41	10	17	17	101	-
ANTELOPE	RAWS	0.00	-	-	0.14	0.65	17	67	67	-	-
BALD MTN	RAWS	0.04	-	-	0.46	2.43	3	52	67	101	-
BASQUE HILLS	RAWS	0.12	-	-	0.24	0.80	3	20	20	-	-
CROW FLAT	RAWS	0.13	-	-	1.10	4.37	2	3	17	101	101
FISH FIN RIM	RAWS	0.04	-	-	0.28	0.57	4	21	-	-	-
FOSTER FLAT	RAWS	0.05	-	-	0.46	1.05	2	3	115	-	-
MOON HILL	RAWS	0.26	-	-	1.08	3.04	2	20	20	-	-
P HILL (FRENCHGLEN	RAWS	0.12	-	-	0.52	1.28	2	53	53	-	-
RIDDLE MTN.	RAWS	0.00	-	-	0.36	1.21	10	52	68	-	-
SAGE HEN	RAWS	0.07	0.23	-	0.84	2.03	2	3	67	-	-
WAGONTIRE	RAWS	0.01	-	-	0.31	0.88	17	67	-	-	-
MAXIMUM	-	0.26	0.23	-	1.10	4.37					
ZONE AVERAGE	-	0.07	0.23	-	0.53	1.81					
MINIMUM	-	0.00	0.23	-	0.14	0.57					

NUMBER OF DAYS PASSED SINCE .01", .10", .25", .50", OR 1.00" OF PRECIPITATION OCCURRED.

I. Station Map

The interactive station map lets you point and click on a specific station and links you to highly detailed individual station data.

The detailed station data is similar to the clickable links discussed in section B and C above, but in this case you click on the dots on the map instead of the station name. Each dot is a clickable link, and clicking on the link displays another page of detailed information about the station, such as meteograms (graphs) of data, detailed observations going back as far as 2 weeks, several years of archived data, a map of the station's location, the station's lat/lon, and the station's elevation. Refer to section VI, **Specific Station Information Display Page** for examples.



VI. SPECIFIC STATION INFORMATION DISPLAY PAGE:

The specific station display page can be accessed in order to view a highly detailed set of single station weather parameters. This data can be displayed in either a tabular format (fig. A) or graphical format (fig. B). Additionally, the time scales are user adjustable, which allows you to view all the data anywhere from the last two days to the last two weeks. Archived data going back several years is also available from this page (fig. C).

A. 24-HOUR SUMMARY

SITE INFORMATION
ID: LVS
NAME: LAS VEGAS MUNICIPAL
LATITUDE: 35.65
LONGITUDE: -105.15
ELEVATION: 6873 ft
MINET: NWS/FAA

(Click here for closeup map or here for larger-scale map provided by: TopoZone)

SITE LINKS
Metric Units
Station Information
24hr Conditions
Graphical Time Series
Data Quality
Past Data
2 Week Summary
Restrictions

DATA COURTESY OF
National Weather Service

Most Recent Observations at current time: September 25, 2002 - 11:53 MDT

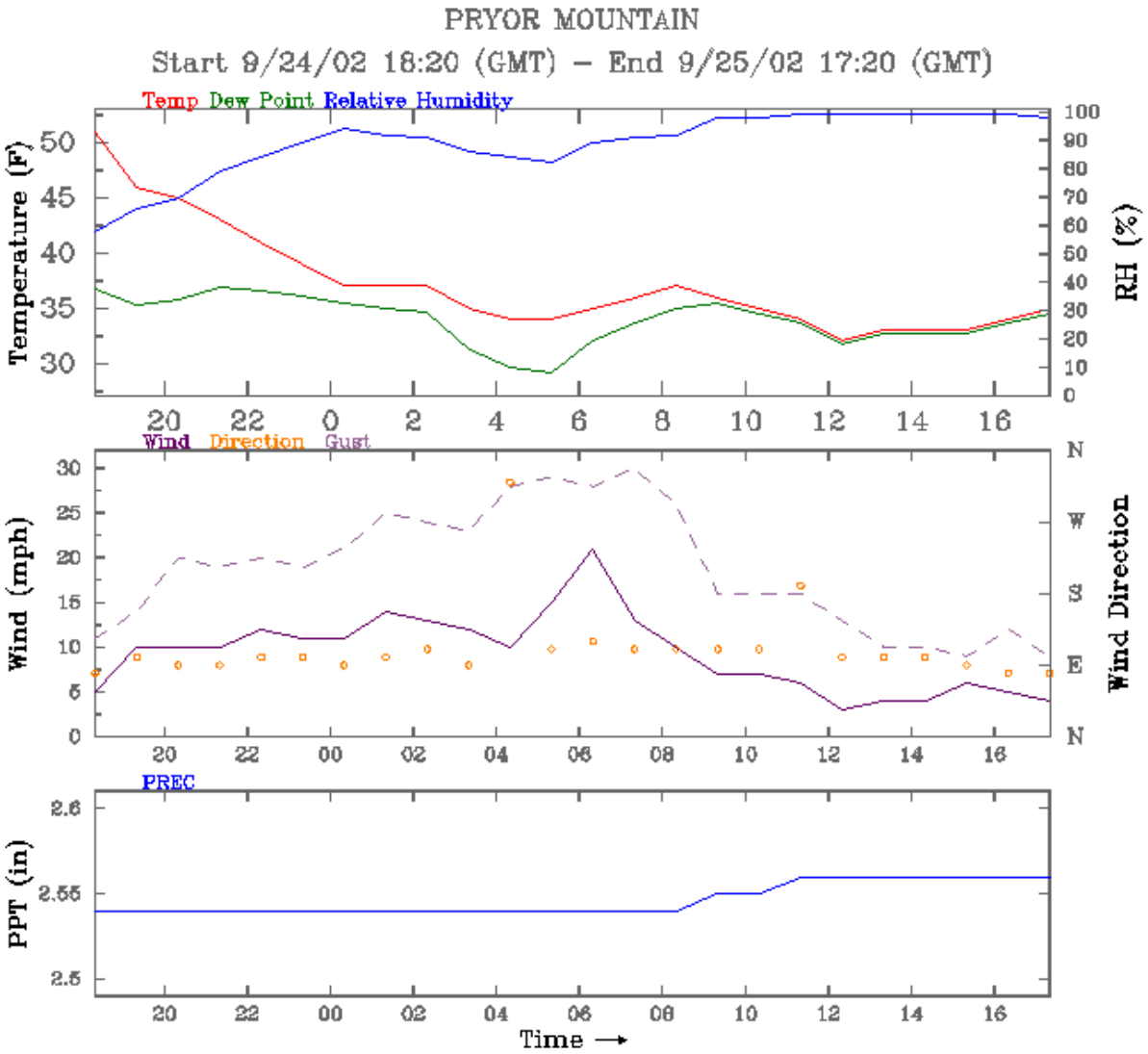
Weather Conditions September 25, 2002 - 10:50 MDT

	10:50	Max since Midnight	Min since Midnight	24 Hour Max	24 Hour Min
Temperature	69.8° F	69.8 at 10:50	46.0 at 6:50	75.2 at 13:50	46.0 at 6:50
Dew Point	41.0° F	42.8 at 9:50	36.0 at 6:50	42.8 at 12:50	26.6 at 16:50
Relative Humidity	35%	68 at 3:50	35 at 10:50	68 at 3:50	17 at 16:50
Wind Speed	9 mph at 180°	13 at 0:50	6 at 6:50	24 at 14:50	6 at 6:50
Wind Gust	-	-	-	31 at 13:50	25 at 12:50
Sea level pressure	29.93 in	29.99 at 6:50	29.93 at 10:50	30.00 at 19:50	29.93 at 10:50
Altimeter	30.22 in	30.25 at 0:50	30.21 at 4:50	30.26 at 12:50	30.19 at 16:50
Weather conditions	clear	-	-	-	-
Visibility	10 miles	10 at 0:50	10 at 0:50	10 at 12:50	10 at 12:50

Time Series: September 24, 2002 - 23:53 through September 25, 2002 - 11:53 MDT

Time(MDT)	Temperature	Dew Point	Relative Humidity	Wind Speed	Wind Gust	Wind Direction	Sea level pressure	Altimeter	Pressure Tendency	Weather conditions	Visibility
	° F	° F	%	mph	mph		in	in	in		miles
10:50	69.8	41.0	35	9		180	29.93	30.22		clear	10
9:50	62.6	42.8	48	7		190	29.96	30.23		partly cloudy	10
8:50	55.9	39.9	55	6		180	29.98	30.23	-2.95	partly cloudy	10
7:50	52.0	39.0	61	7		180	29.98	30.23		mostly cloudy	10
6:50	46.0	36.0	68	6		210	29.99	30.22		partly cloudy	10
5:50	48.9	36.0	61	8		180	29.94	30.22	14.77	clear	10
4:50	48.0	37.0	66	10		180	29.93	30.21		clear	10
3:50	48.0	37.9	68				29.94	30.22		clear	10
2:50	50.0	37.9	63	13		180	29.93	30.23		clear	10
1:50	50.0	37.4	62	13		190	29.95	30.24		clear	10

B. GRAPHS



C. PAST DATA (ARCHIVES)

Observations prior to selected time: May 9, 1998 - 0:00 MDT

Weather Conditions at May 8, 1998 - 23:55 MDT

		24 Hour Max	24 Hour Min
Temperature	46.0° F	66.9 at 11:55	46.0 at 23:55
Dew Point	28.9° F	32.0 at 22:55	19.0 at 4:55
Relative Humidity	51%	51 at 23:55	19 at 12:55
Wind Speed	9 mph at 120°	24 at 12:55	3 at 3:55
Wind Gust	-	30 at 12:55	22 at 14:55
Sea level pressure	29.75 in	29.75 at 23:55	29.55 at 12:55
Altimeter	29.92 in	29.92 at 23:55	29.75 at 13:55
Solar Radiation	0.0	0.0 at 0:55	0.0 at 0:55
Visibility	10 miles	10 at 0:55	10 at 0:55
Soil Temperature	0.0° F	0.0 at 0:55	0.0 at 0:55

Time Series: May 8, 1998 - 18:00 through May 9, 1998 - 0:00 MDT

Time (MDT)	Temperature	Dew Point	Relative Humidity	Wind Speed	Wind Gust	Wind Direction	Sea level pressure	Altimeter	Solar Radiation	Visibility	Precipitation 1hr	Precipitation 3hr	Precipitation 5min	Precipitation 10min	Precipitation 15min	Soil Temperature
	° F	° F	%	mph	mph		in	in		miles	in	in	in	in	in	° F
23:55	46.0	28.9	51	9		120	29.75	29.92	0.0	10	0.00		0.00	0.00	0.00	0.0
22:55	52.0	32.0	46	5		300	29.72	29.90	0.0	10	0.00		0.00	0.00	0.00	0.0
21:55	54.0	30.9	41	7		330	29.72	29.89	0.0	10	0.00		0.00	0.00	0.00	0.0
21:40	53.6	26.6	35	13		310		29.89	0.0	10	0.00		0.00	0.00	0.00	0.0
20:55	55.0	26.1	33	7		270	29.70	29.87	0.0	10	0.00		0.00	0.00	0.00	0.0
19:55	57.0	28.9	34	13		250	29.69	29.84	0.0	10	0.00		0.00	0.00	0.00	0.0
18:55	57.0	30.0	36	13	23	240	29.65	29.81	0.0	10	0.00		0.00	0.00	0.00	0.0

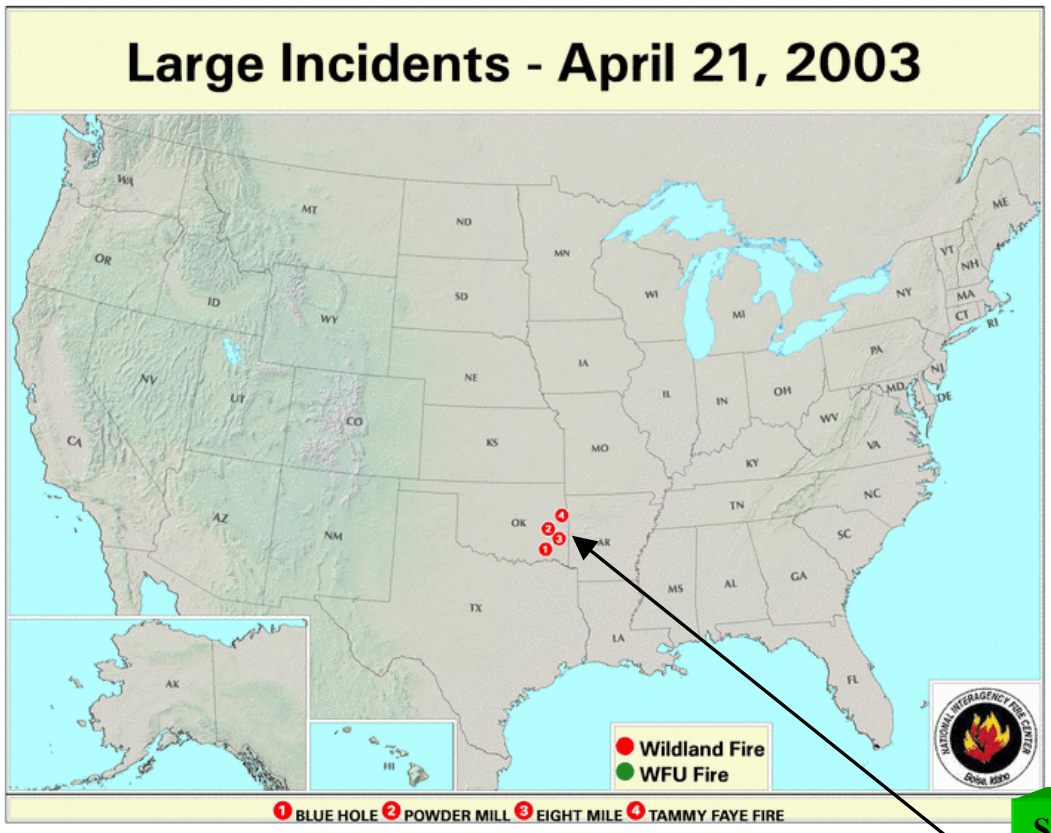
VII. WEATHER NEAR FIRES:

Another useful feature is the "Weather Near Fires" section (fig. A). This page allows you to quickly access a group of observations near a fire of interest by either clicking the links on the CONUS map, or by a user selectable radius distance from a wildfire of interest. The observations displayed include the current weather situation, as well as the 24-hour change trend (fig. B). You can also access the names of past fires as well as observations in their vicinity by clicking on the "Past Fires" link above the map (fig. C).

A. WILDFIRE SELECTION MAP AND TABLE

Past Fires

SELECT TO ACCESS INFORMATION FROM PAST FIRES.



SELECT THE WILDFIRE OF INTEREST FROM THE MAP, OR FROM THE RADIAL DISTANCE ON THE TABLE

Northern California
No Fires
Search Radius 50mi
submit

Rocky Mountain
No Fires
Search Radius 50mi
submit

Southern California
No Fires
Search Radius 50mi
submit

Southwest
No Fires
Search Radius 50mi
submit

Southern
BLUE_HOLE (Contained)
Search Radius 50mi
submit

Eastern
No Fires
Search Radius 50mi
submit

B. WEATHER NEAR FIRES OBSERVATION TABLE

A SUMMARY OF CURRENT WEATHER CONDITIONS WITHIN THE SPECIFIED RADIUS OF THE SELECTED WILDFIRE IS DISPLAYED.

WILLIAMS Fire: Latitude 34.219 Longitude -117.768 36530 acres
(Fire location provided by: TopoZone)

24-Hour Trend Monitor

Settings: 1 -h Summary NWS and RAWS 25 km Radius Change Settings

24-Hour Changes 16:10 UTC 10/01/2002 (reloads every 5 minutes) Help QC Flag: Ok, Caution, Suspect

Station	Info	Dist/Dir	Time	Temp	DewT	RH	Dir	Spd	Gust
CHOC1 CHILAO	RAWS 5449 ft	32 km 20 mi NW	1535Z 8:35PDT	44/- 3	43/- 4	95/- 5	SW / S	4/+ 4	6/+ 2
CMOC1 CLAREMONT	RAWS 1644 ft	11 km 7 mi SE	1540Z 8:40PDT	59/+ 2	58/+ 2	97/+ 0	W / SW	6/+ 3	11/+ 5
EMT EL MONTE	NWS/FAA 295 ft	33 km 20 mi SW	1545Z 8:45PDT				SW/	8/	
TR545 FRWS22	RAWS 2306 ft	2 km 1 mi N	N/A						
POC LA VERNE/BRACK	NWS/FAA 1010 ft	13 km 8 mi S	1545Z 8:45PDT				W / W	6/+ 2	
MNCC1 MORMON ROCK	RAWS 3301 ft	32 km 20 mi E	1520Z 8:20PDT	54/- 3	49/+ 1	83/+ 10	E / SE	5/+ 4	9/+ 2
ONT ONTARIO INTL A	NWS/FAA 942 ft	26 km 16 mi SE	1550Z 8:50PDT	61/+ 0	57/+ 2	88/+ 6	SW / W	8/+ 1	
STFC1 SANTA FE DAM	RAWS 499 ft	23 km 14 mi SW	1530Z 8:30PDT	61/+ 0	53/+ 3	75/+ 7	W / NE	3/+ 1	
TANC1 TANBARK	RAWS 2598 ft	6 km 4 mi S	1535Z 8:35PDT	53/+ 0	50/+ 2	91/+ 7	SE / E	2/+ 2	5/+ 2

DISTANCE AND DIRECTION OF OBSERVATION FROM THE SELECTED WILDFIRE.

CHANGE IN WEATHER CONDITIONS FROM 24-HOURS AGO.

CURRENT WIND DIRECTION, AND THE DIRECTION 4-HOURS AGO.

CLICKABLE STATION ID'S/NAMES

C. PAST FIRES

Fires - Past Locations

July 16, 2001 - Current is available

Date 16 July 2002

submit

Fires in the Western United States on 2002-07-16

MesoWest

Geographic Area Coordination Centers

Pacific Northwest

Malheur_Complex	fire_id=877
Trimbly_Creek (Contained)	fire_id=899
Grizzly_Complex	fire_id=913
BISCUIT_COMPLEX	fire_id=918
WINTER_FIRE	fire_id=925
Tool_Box	fire_id=927
MONUMENT__FIRE	fire_id=931
Flagtail	fire_id=933
Mud_Duck (Contained)	fire_id=938
Mahogany_Complex	fire_id=949
Squire_Peak	fire_id=951
Eyerly_Complex	fire_id=952
NORTH_UMPQUA_COMPLEX	fire_id=953
TILLER_COMPLEX	fire_id=957
DEER_POINT	fire_id=958
INCIDENT_747	fire_id=960

Western Great Basin

PAN (Contained)	fire_id=880
GATE_	fire_id=881
ELLSWORTH	fire_id=896
BUCKEYE	fire_id=920
LOST_CABIN	fire_id=921
PONY_EXPRESS	fire_id=936
Eagle	fire_id=940

Stations in Vicinity of Fires

SELECT DATE OF INTEREST, AND THE ACTIVE FIRES ARE DISPLAYED FOR THAT DATE.

SELECT "STATIONS IN VICINITY OF FIRES", TO BRING UP THE FIRE NAME/RADIUS SELECTION TABLE. THEN CLICK ON "SUBMIT" TO RETRIEVE INFORMATION ON THE OBSERVATIONS NEAR YOUR FIRE OF INTEREST.

Fires - Stations in Vicinity

FIRE NAME	FIRE ID
ORACLE HILL	
Search Radius 25km	Search Radius 25km
submit	submit

Oracle_Hill Latitude 32.583 Longitude -110.772 2397 acres

(Click here for closeup map or here for larger-scale map provided by: MapBlast)

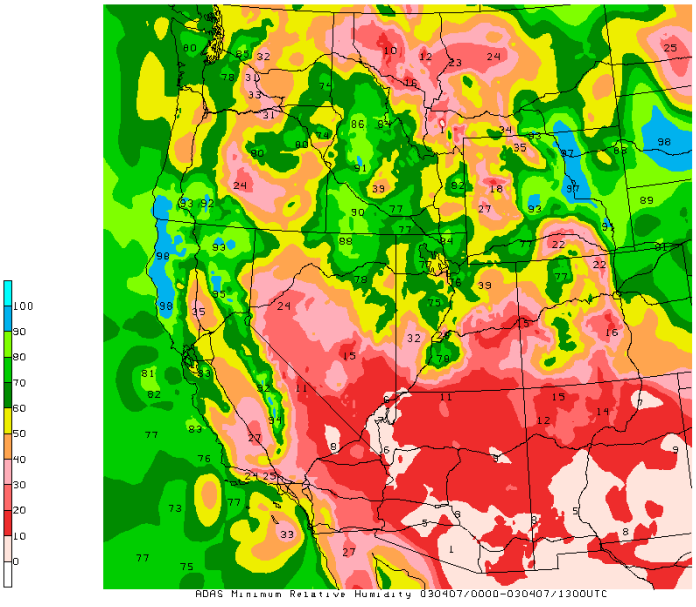
ID	Name	Mesonet	Distance (km)	Station Direction
TMP95	SOLLERS	RAWS	21 km	S
QSLA3	SOLLERS	RAWS	21 km	S

VIII. ADAS (Advanced Data Analysis System):

A high resolution graphical display of current and past weather data can be accessed through the ADAS link. These graphical products are produced by combining high resolution atmospheric computer models with all available surface observations (RAWS included). Several different weather elements are available for display. Additionally, several different display formats are available, along with selectable time periods from the current day up to a week ago. Available formats and display options include 4-panels (one page with four different charts), current conditions, and Max/Min values of selected weather elements over the last few hours up to the last 24 hours.

SELECT DESIRED TIME PERIOD AND WEATHER ELEMENT.

ADAS - Minimum Relative Humidity



A HIGH RESOLUTION WEATHER MAP IS DISPLAYED.

Appendix:

A: Points of Contact

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