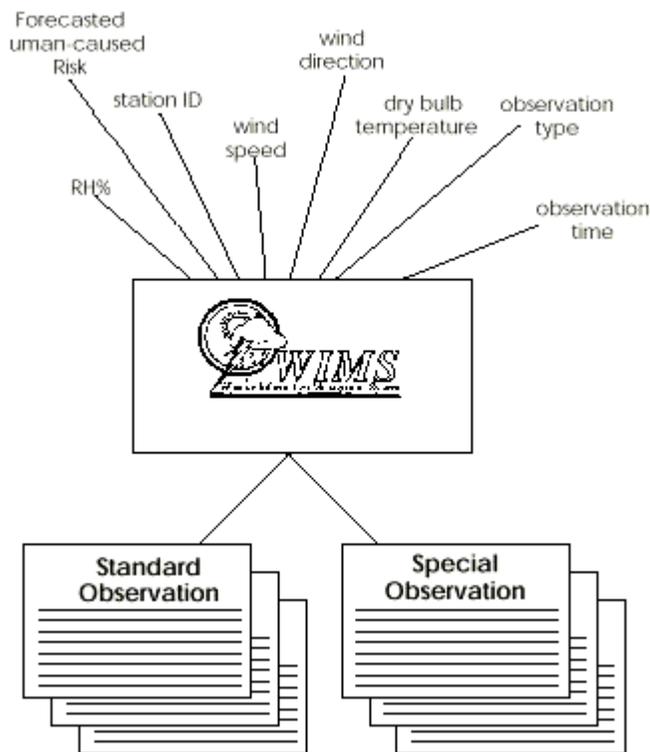


Chapter 7. Working with Observations *OBS*

This chapter gives you the information you will need to display, enter, and edit weather observations. You must be the station's owner or have authorization to create and edit observations.

Observations

Weather observations are gathered from a nationwide network of manual and remotely operated stations. These observations provide specific information to fire, land management and research personnel.



For more information about the menus and forms available to your access level, see Appendix A, "Menus, FastPaths, and access levels" in the back of this guide.

WIMS stores and maintains weather information in two basic categories:

- Current weather information is stored and maintained as a standard or special weather observation.
- Future weather information is stored and maintained as a weather forecast.

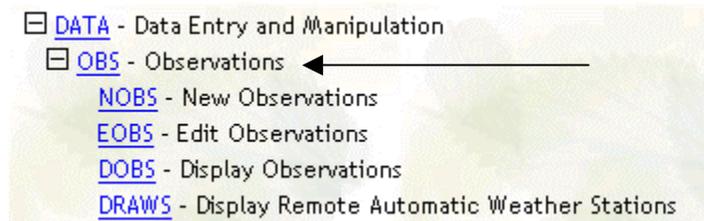
For more information about forecasts, see Chapter 8, "Working with Forecasts."

Accessing the Observations menu

The Observations menu allows you to:

- Create a new NFDRS or special observation
- Input missed historical observations
- Edit an existing observation
- Change a RAWS observation to a regular or special observation
- Display an existing observation
- Display RAWS data.

To access the Observations menu



In the Option/ FastPath: field, type OBS and click Go.



Remember, you can skip this menu by typing the FASTPATH command:

- **NOBS**, to display the Create Observation form
- **EOBS**, to display the Edit Observation form
- **DOBS**, to display the Display Observation form
- **DRAWS**, to display the Remote Automatic Weather Station Display (RAWS) form.

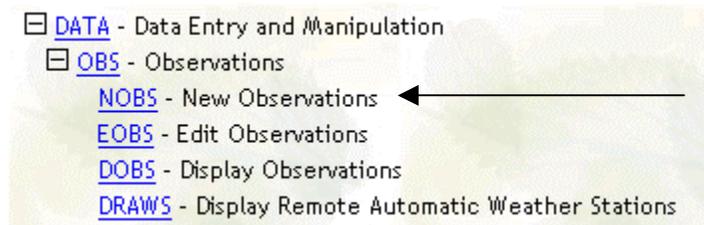
Entering a new observation

You can enter regular and special observations by station number or Special Interest Group (SIG). RAWS observations are posted automatically to WIMS. Use the Edit Observations form to change a RAWS observation to a regular or special observation.

For more information about Special Interest Groups, see Chapter 6, "Working with Station Information." For more information about RAWS observations, see "Displaying RAWS data" later in this chapter.

To enter a new observation you must be the station's owner or have Access Control List authorization. For more information, see "Access Control Lists (ACLs)" in Chapter 6, "Working with Station Information."

To access the Create Observation form



In the Option/ FastPath: field, type NOBS and click Go.



NOBS form

Create Observations NOBS [Back to Menu](#)

Station ID: List or SIG Date:

X	Station ID	Ob Tm	O T	W	Dry Tmp	Hum Val	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk	W F
									Dir	SP		Max	Min	Max	Min					

The Create Observation (NOBS) form will display with showing today's date. Change the date if necessary, in the Station ID field, type the number of the station for the new observation, use the List button to select the desired station id, or in the SIG field type the Special Interest Group name and click **Setup**.

Station ID: List or SIG Date:

X	Station ID	Ob Tm	O T	W	Dry Tmp	Hum Val	M L	HC Rsk	Wind		10 Hr	Temp	
									Dir	SP	Hr	Max	

Observations are generally only created for Type 2 stations (Manual Stations).

If you are not authorized to enter observations for a station, that station number does not display on the Create Observations form.

Create a new observation

Create Observations NOBS [Back to Menu](#)

Station ID: or Date:

X	Station ID	Ob Tm	O T	W	Dry Tmp	Hum Val	M L	HC Rsk	Wind		Temp		RH%		Dur	Amt	Y L	FHC Rsk	W F
									Dir	SP	Max	Min	Max	Min					
<input type="checkbox"/>	40237	12	0	0	55	35		0	220	2					0	0		0	N

Required entries include the W (State of the Weather), Dry Tmp (Dry Bulb Temperature), Hum Val (Humidity Value), Wind Direction and Wind Speed, Duration (Precipitation Duration) and AMT (Precipitation Amount). In the ML (Morning Lightning) and YL Yesterdays Lightning) columns no entry is required. These columns are no longer being used in the calculation. In the columns HC RSK (Human Cause Risk) and FHC Risk (Forecasted Human Cause Risk) enter a zero. These columns are no longer being used in the calculations, but an entry is required to save the observation. Verify the WF (Wet Flag). If the State of the Weather is 0, 1, 2, or 3, the WF should be N. If the State of the Weather is 5, 6, or 7 The Wet Flag should be Y. For State of the Weather 8 and 9 the Wet Flag should generally be set to N. Click **Save** to save the edits.

To save the new observation click Save.

Station ID: or Date:

Info: Station Information successfully created.[40237/30-SEP-02/12/O]
 Info: XCNFDR completed [40237/30-SEP-02/12/O]

A confirmation message stating the observation is successfully saved. Observations can be entered for another station or for stations within a SIG.

Observation field definitions

Use the field definitions listed below to complete observation-related forms in this chapter. Fields in the query block are shaded.

Field	Description and action to be taken																						
Station ID (Station number)	Displays the number of the station(s).																						
Ob Tm (Observation time)	Using the 24-hour clock, displays the local standard time of the observation: <i>WIMS truncates the time to the hour. The default observation time is "13" (1:00 pm). The observation time is stored in the Station Information Screen (ESTA).</i>																						
O T (Observation type)	Displays the type of observation: <table border="1"> <thead> <tr> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Standard observation</td> </tr> <tr> <td>S</td> <td>Special observation</td> </tr> <tr> <td>R</td> <td>RAWS observation</td> </tr> <tr> <td>F</td> <td>Forecasted observation</td> </tr> </tbody> </table>	Type	Description	O	Standard observation	S	Special observation	R	RAWS observation	F	Forecasted observation												
Type	Description																						
O	Standard observation																						
S	Special observation																						
R	RAWS observation																						
F	Forecasted observation																						
W (State of the weather -required)	Enter the code for the state of the weather: <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Clear (0.0 -0.1)</td> </tr> <tr> <td>1</td> <td>Scattered clouds (0.2 -0.5)</td> </tr> <tr> <td>2</td> <td>Broken clouds (0.6 -0.9)</td> </tr> <tr> <td>3</td> <td>Overcast (100% obscured)</td> </tr> <tr> <td>4</td> <td>Foggy</td> </tr> <tr> <td>5</td> <td>Drizzling</td> </tr> <tr> <td>6</td> <td>Raining</td> </tr> <tr> <td>7</td> <td>Snow/ sleet</td> </tr> <tr> <td>8</td> <td>Showering</td> </tr> <tr> <td>9</td> <td>Thunderstorms in progress.</td> </tr> </tbody> </table> <i>This field must not be blank.</i> <i>Remember to enter the appropriate state of the weather code for accurate NFDRS indices. SOW 5, 6, and 7 will set the Wet Fuels Flag to "Y".</i>	Code	Description	0	Clear (0.0 -0.1)	1	Scattered clouds (0.2 -0.5)	2	Broken clouds (0.6 -0.9)	3	Overcast (100% obscured)	4	Foggy	5	Drizzling	6	Raining	7	Snow/ sleet	8	Showering	9	Thunderstorms in progress.
Code	Description																						
0	Clear (0.0 -0.1)																						
1	Scattered clouds (0.2 -0.5)																						
2	Broken clouds (0.6 -0.9)																						
3	Overcast (100% obscured)																						
4	Foggy																						
5	Drizzling																						
6	Raining																						
7	Snow/ sleet																						
8	Showering																						
9	Thunderstorms in progress.																						
Dry Tmp (Dry bulb temperature)	Displays the observed dry bulb temperature in degrees. <i>Fahrenheit or Celsius is specified in the Temperature Code field in the station catalog.</i>																						

Field	Description and action to be taken																																				
Hum Val (Measured humidity)	Displays the measured humidity, if available. <i>Based on the station catalog, this field identifies: wet bulb temperature, dew point temperature, and relative humidity.</i>																																				
M L (Morning's lightning -required)	<i>This field is no longer used in the NFDRS calculations and may be left blank.</i>																																				
HC Rsk (Human-caused risk)	<i>This field is no longer used in the NFDRS calculations; enter a "0" (zero).</i>																																				
Wind Dir (Wind direction)	Displays the direction where the wind is blowing from, in degrees: <table border="1"> <thead> <tr> <th>Code</th> <th>Equivalent wind direction in degrees</th> </tr> </thead> <tbody> <tr><td>NNE</td><td>23</td></tr> <tr><td>NE</td><td>45</td></tr> <tr><td>ENE</td><td>68</td></tr> <tr><td>E</td><td>90</td></tr> <tr><td>ESE</td><td>113</td></tr> <tr><td>SE</td><td>135</td></tr> <tr><td>SSE</td><td>158</td></tr> <tr><td>S</td><td>180</td></tr> <tr><td>SSW</td><td>203</td></tr> <tr><td>SW</td><td>225</td></tr> <tr><td>WSW</td><td>248</td></tr> <tr><td>W</td><td>270</td></tr> <tr><td>WNW</td><td>293</td></tr> <tr><td>NW</td><td>315</td></tr> <tr><td>NNW</td><td>338</td></tr> <tr><td>N</td><td>360</td></tr> <tr><td>FL</td><td>0</td></tr> </tbody> </table>	Code	Equivalent wind direction in degrees	NNE	23	NE	45	ENE	68	E	90	ESE	113	SE	135	SSE	158	S	180	SSW	203	SW	225	WSW	248	W	270	WNW	293	NW	315	NNW	338	N	360	FL	0
Code	Equivalent wind direction in degrees																																				
NNE	23																																				
NE	45																																				
ENE	68																																				
E	90																																				
ESE	113																																				
SE	135																																				
SSE	158																																				
S	180																																				
SSW	203																																				
SW	225																																				
WSW	248																																				
W	270																																				
WNW	293																																				
NW	315																																				
NNW	338																																				
N	360																																				
FL	0																																				
Wind Sp (Wind speed)	Displays the observed average ten-minute wind speed.																																				
10 Hr (Ten-hour fuel stick moisture content) Measured (weighted) values only. Do not enter calculated value.	Displays the measured ten-hour fuel stick moisture content. <i>If the Wet Fuels field is set to "Y" the default ten-hour fuel stick moisture content is "35".</i> <i>For a RAWS station without an associated manual station, WIMS calculates this value.</i>																																				
Temp Max	Displays the maximum temperature observed in the																																				

Field	Description and action to be taken
(24-hour maximum temperature)	last 24 hours of observation time. <i>The maximum temperature must be equal to or higher than the dry bulb temperature (Dry Tmp field) at observation time.</i>
Temp Min (24-hour minimum temperature)	Displays the minimum temperature observed in the last 24 hours. <i>The minimum temperature must be equal to or lower than the dry bulb temperature (Dry Tmp field) at observation time.</i>
RH% Max (Maximum observed relative humidity percentile)	Enter the maximum relative humidity observed in the last 24 hours, a value from 1 to 100. <i>The maximum relative humidity must be equal to or higher than the reported or calculated relative humidity at observation time.</i>
RH% Min (Minimum observed relative humidity percentile)	Displays the minimum relative humidity observed in the last 24 hours, a value from 1 to 100. <i>The minimum relative humidity must be equal to or lower than the reported or calculated relative humidity at observation time.</i>
Dur (Precipitation duration)	Displays the duration of precipitation in hours, as observed in the last 24 hours.
Amt (Precipitation amount)	Displays the cumulative precipitation amount observed in the last 24 hours, in the format 9.99, or " T" for trace.
Y L (Yesterday's lightning -required)	<i>This field is no longer used in the NFDRS calculations and may be left blank.</i>
FHC Rsk (Forecasted human-caused risk)	<i>This field is no longer used in the NFDRS calculation. Enter a "0" (zero).</i>
W F (Wet fuels)	Displays the state of the fuel for the observation time. <ul style="list-style-type: none"> • Y - indicates wet fuels • N - indicates dry fuels. <i>If the state of the weather code (WF field) is 5, 6, or 7 the Wet Fuels field defaults to " Y. " For more information about wet fuel descriptions, see Appendix E, " NFDRS technical reference. "</i>

NFDRS indices are calculated for any NFDRS-type stations (type "2", "4 " and "6").

To enter new observations for stations defined in a SIG

Suppose you want to enter new observations for stations that are defined as the Special Interest Group "SMPL." "SMPL" contains the stations numbered "xxxxxx", "xxxxxx" and "xxxxxx." You are on the Access Control List and are authorized to enter observations for these station numbers. In this example, you will enter new observations for station numbers for the station numbers of your choosing."

From the Create Observation form:

- 1** In the SIG: field select SMPL from the dropdown menu and then click Setup.
- 2** For station number "xxxxxx," complete the Create Observation form as shown as before.
- 3** To skip entries for a station simply leave the fields for that station blank when you save your changes.
- 4** When finished, click Save to save the new observation.

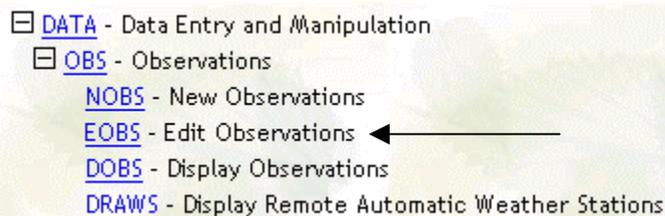
Editing an observation

The Edit Observation form allows you to:

- Edit RAWS observations for automated stations
- Edit previously entered observations
- Correct erroneous information for archived historical weather information.

You must have access authority to edit an observation. You can only have one Regular observation (Type= O) per day.

To access the Edit Observation form



In the Option/ FastPath: field, type EOBS and click Go.



EOBS form

A screenshot of the 'Edit Observations EOBS' form. At the top, it says 'Edit Observations EOBS' and 'Back to Menu'. Below that, there are input fields for 'Station ID: 353307', 'List or SIG', 'Type: R', 'Date: 01-aug-02', and 'Time: 13'. There are 'Find', 'Reset', and 'Save' buttons. Below the form is a table with various weather parameters.

Station ID	Ob Tm	O T	W	Dry Tmp	RH%	M L	HC Rsk	Wind Dir	SP	10 Hr	Temp Max	Temp Min	RH% Max	RH% Min	Dur	Amt	Y L	FHC Rsk	W F

To edit an observation:

In the Station ID, enter the station id or click the List button and choose the desired station or in the SIG field type the Special Interest Group name. In the Type field, enter an “R” for to display a RAWS observation. The Date field will default to the current day’s date. A different date can be entered if desired. In the Time field enter the desired observation time. See the Station Information Screen (ESTA). Click the **Find** button to locate the desired observation.

The Edit Observation form redisplay, listing the station number, observation time, observation type, and observation information.

If you are not authorized to edit observations for a station number, an error message is returned to the browser:

Edit Observations EOBS [Back to Menu](#)

Station ID: List or SIG Type: Date: Time:

	Station ID	Ob Tm	O T	W	Dry Tmp	RH%	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk	W F
									Dir	SP		Max	Min	Max	Min					
<input type="checkbox"/>	353307	13	<input type="text" value="0"/>	<input type="text" value="0"/>	76	17		0	248	11		79	57	32	14	0	0		0	N

Change the OT (Obs Type) from “R” to “O”, enter the State of the Weather in the “W” column. Entries in the ML (Morning Lightning) and YL (Yesterdays Lightning) columns are not required. In the columns HC RSK (Human Cause Risk) and FHC RSK (Forecasted Human Cause Risk) enter a zero. These columns are no longer being used in the calculations, but an entry is required to save the observation. Verify the WF (Wet Flag). If the State of the Weather is 0, 1, 2, or 3, the WF should be N. If the State of the Weather is 5, 6, or 7, the Wet Flag should be Y. For State of the Weather 8 and 9 the Wet Flag should generally be set to N. Click **Save** to save the edits.

Edit Observations EOBS [Back to Menu](#)

Station ID: List or SIG Type: Date: Time:

Info: XCNFDR completed [353307/01-Aug-02/13/0]

	Station ID	Ob Tm	O T	W	Dry Tmp	RH%	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk	W F
									Dir	SP		Max	Min	Max	Min					
<input checked="" type="checkbox"/>	353307	13	<input type="text" value="0"/>	<input type="text" value="0"/>	76	17		0	248	11		79	57	32	14	0	0		0	N

Info: Observation successfully saved.[353307/01-Aug-02/13/0]

A confirmation message will display and the observation will be highlighted.

Remember observations must be entered daily for NFDRS and NWS forecasts to be produced.

Displaying an observation

The Display Observation form allows you to display observations from manual and RAWS stations. From this form you can jump to the Edit Observation form.

Any WIMS user can display observation data for any station.

To access the Display Observation form

- [DATA](#) - Data Entry and Manipulation
 - [OBS](#) - Observations
 - [NOBS](#) - New Observations
 - [EOBS](#) - Edit Observations
 - [DOBS](#) - Display Observations ←
 - [DRAWWS](#) - Display Remote Automatic Weather Stations

In the Option/ FastPath: field, type DOBS and click Go.

Ver. 1.1.0 FastPath Weather Information Mar

DOBS form

Display Observations DOBS [Back to Menu](#)

Station ID: or SIG Type: Date: Time:

Station ID	Obs Date	Ob Tm	O T	W	Dry Temp	RH	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk
									Dir	SP		Max	Min	Max	Min				

To display an observation

From the Display Observation form:

In the Station ID field, type the number of the station for the observation, or In the SIG field, type the Special Interest Group name. This is the minimum data required to display observations to narrow your search further continue to steps 2 through 4.

In the Type: enter the observation type (R, O, F, S).

You can leave this field blank and get all observation types.

In the Date: enter the observation date (and/or date range). The date is averaged by day starting with the day's first observation.

In the Time: enter the observation time.

You can leave this field blank.

Click Find to locate the desired observations. The Display Observation form redisplay, listing the station number, observation time, observation type, and all observations previously recorded for that station number.

Display Observations DOBS [Back to Menu](#)

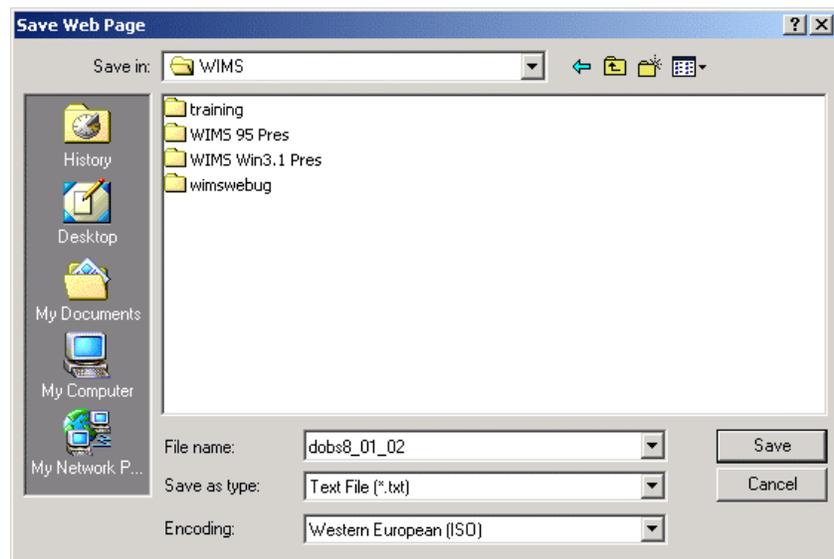
Station ID: or SIG Type: Date: Time:

Station ID	Obs Date	Ob Tm	O T	W	Dry Tmp	RH	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk	
									Dir	SP		Max	Min	Max	Min					
<input type="checkbox"/>	353307	01-Aug-02	0	R		59	15	0	0	57	13		79	53	47	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	1	R		59	15	0	0	50	14		79	53	47	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	2	R		58	16	0	0	47	10		79	53	47	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	3	R		57	15	0	0	56	7		79	53	47	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	4	R		60	15	0	0	134	4		79	53	47	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	5	R		60	16	0	0	144	7		79	53	47	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	6	R		60	17	0	0	169	10		79	54	47	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	7	R		61	18	0	0	159	10		79	55	47	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	8	R		64	20	0	0	179	8		79	57	43	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	9	R		67	22	0	0	204	7		79	57	43	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	10	R		69	24	0	0	193	8		79	57	39	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	11	R		74	23	0	0	215	7		79	57	32	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	12	R		77	20	0	0	233	8		79	57	32	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	13	O	0	76	17		0	248	11		79	57	32	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	14	R		77	17	0	0	252	11		79	57	32	14	0	0	0	0
<input type="checkbox"/>	353307	01-Aug-02	15	R		78	15	0	0	248	12		79	57	32	14	0	0	0	0

To save the observations click the Print button. The data will be displayed on the screen.

Station ID	Station Name	Obs Date	Obs Tm	Obs Typ	Obs S	Dry Wmp	RH L	M Rsk	HC Dir	Wnd Sp	Wnd Hr	10 Max	Tmp Min	RH% Max	RH% Min	Dur	Amt Y	FHC L	Rsk
353307	CALIMUS	01-Aug-02	0	R		59	15	0	0	57	13	79	53	47	14	0	0	0	0
353307	CALIMUS	01-Aug-02	1	R		59	15	0	0	50	14	79	53	47	14	0	0	0	0
353307	CALIMUS	01-Aug-02	2	R		58	16	0	0	47	10	79	53	47	14	0	0	0	0
353307	CALIMUS	01-Aug-02	3	R		57	15	0	0	56	7	79	53	47	14	0	0	0	0
353307	CALIMUS	01-Aug-02	4	R		60	15	0	0	134	4	79	53	47	14	0	0	0	0
353307	CALIMUS	01-Aug-02	5	R		60	16	0	0	144	7	79	53	47	14	0	0	0	0
353307	CALIMUS	01-Aug-02	6	R		60	17	0	0	169	10	79	54	47	14	0	0	0	0
353307	CALIMUS	01-Aug-02	7	R		61	18	0	0	159	10	79	55	47	14	0	0	0	0
353307	CALIMUS	01-Aug-02	8	R		64	20	0	0	179	8	79	57	43	14	0	0	0	0
353307	CALIMUS	01-Aug-02	9	R		67	22	0	0	204	7	79	57	43	14	0	0	0	0
353307	CALIMUS	01-Aug-02	10	R		69	24	0	0	193	8	79	57	39	14	0	0	0	0
353307	CALIMUS	01-Aug-02	11	R		74	23	0	0	215	7	79	57	32	14	0	0	0	0
353307	CALIMUS	01-Aug-02	12	R		77	20	0	0	233	8	79	57	32	14	0	0	0	0
353307	CALIMUS	01-Aug-02	13	0	0	76	17		0	248	11	79	57	32	14	0	0		0
353307	CALIMUS	01-Aug-02	14	R		77	17	0	0	252	11	79	57	32	14	0	0	0	0
353307	CALIMUS	01-Aug-02	15	R		78	15	0	0	248	12	79	57	32	14	0	0	0	0

The data will be displayed on the screen. Click File and Print. To save to Notepad, click File and Save As. The following window will open. Select the desired directory to save the observations to the hard drive. Make sure to change the file type to .txt.



Displaying RAWS data

The Remote Automatic Weather Station Display (RAWS) form allows you to display RAWS observations for a single RAWS station or for all RAWS stations within a SIG.

If a public SIG is specified, manual stations associated with that SIG also display on this form.

If you have "Edit Observation" Access Control List authorization and want to calculate NFDRS indices for a RAWS observation, see "Calculating NFDRS indices for a RAWS observation" in Chapter 9, "Working with NFDRS."

To access the Remote Automatic Weather Station Display (RAWS) form



In the Option/ FastPath field, type DRAWWS and click Go.



DRAWWS form

A screenshot of the 'Remote Automatic Weather Station Display DRAWWS' form. The form includes the following elements:

- Page: 1
- Remote Automatic Weather Station Display DRAWWS
- [Back to Menu](#)
- Station ID: or SIG: Date: Start Time:
- Buttons: Find, Reset, PrintAll, Print, Export

Enter the Station ID or the SIG and the desired date and click **Find**. The results will display in the bottom window. The DRAWWS screen contains two information screens. The first screen will display the information collected from the 8 standard sensors on the station. For stations with additional sensors the 9th sensor will also display on the in the first screen.

Ver. 1.1.0 FastPath **Weather Information Management System** Show [Navigation Tree](#)

Page: 1 2 [Remote Automatic Weather Station Display DRAWS](#) [Back to Menu](#)

Station ID: or SIG Date: Start Time:

Station OID	Obs Date	Obs		O T	Dry Temp	RH	Wind		Temp		RH%		RGauge	Hrly Prpc	BVI	BPress	Fuel Temp
		HH	MM				Dir	Sp	Max	Min	Max	Min					
<input type="checkbox"/> 353307	01-Aug-02	23	0	R	54	33	346	13	78	54	33	13	6.67	0.0	13.1	30.2	53
<input type="checkbox"/> 353307	01-Aug-02	22	0	R	56	31	338	14	78	56	33	13	6.67	0.0	13.1	30.2	55
<input type="checkbox"/> 353307	01-Aug-02	21	0	R	58	33	338	14	78	57	33	13	6.67	0.0	13.1	30.2	57
<input type="checkbox"/> 353307	01-Aug-02	20	0	R	59	28	316	14	78	57	32	13	6.67	0.0	13.2	30.2	58
<input type="checkbox"/> 353307	01-Aug-02	19	0	R	63	27	269	13	78	57	32	13	6.67	0.0	13.2	30.2	63
<input type="checkbox"/> 353307	01-Aug-02	18	0	R	66	18	281	14	78	57	32	13	6.67	0.0	13.4	30.2	68
<input type="checkbox"/> 353307	01-Aug-02	17	0	R	71	17	281	13	78	57	32	13	6.67	0.0	14	30.2	77
<input type="checkbox"/> 353307	01-Aug-02	16	0	R	77	13	249	13	79	57	32	13	6.67	0.0	13.9	30.2	88
<input type="checkbox"/> 353307	01-Aug-02	15	0	R	78	15	248	12	79	57	32	14	6.67	0.0	13.9	30.2	95
<input type="checkbox"/> 353307	01-Aug-02	14	0	R	77	17	252	11	79	57	32	14	6.67	0.0	13.9	30.2	97
<input type="checkbox"/> 353307	01-Aug-02	13	0	O	76	17	248	11	79	57	32	14	6.67	0.0	13.9	30.2	99
<input type="checkbox"/> 353307	01-Aug-02	12	0	R	77	20	233	8	79	57	32	14	6.67	0.0	13.9	30.2	103
<input type="checkbox"/> 353307	01-Aug-02	11	0	R	74	23	215	7	79	57	32	14	6.67	0.0	13.9	30.2	106
<input type="checkbox"/> 353307	01-Aug-02	10	0	R	69	24	193	8	79	57	39	14	6.67	0.0	14	30.2	100
<input type="checkbox"/> 353307	01-Aug-02	9	0	R	67	22	204	7	79	57	43	14	6.67	0.0	14	30.2	91
<input type="checkbox"/> 353307	01-Aug-02	8	0	R	64	20	179	8	79	57	43	14	6.67	0.0	14	30.2	82
<input type="checkbox"/> 353307	01-Aug-02	7	0	R	61	18	159	10	79	55	47	14	6.67	0.0	13.5	30.2	69
<input type="checkbox"/> 353307	01-Aug-02	6	0	R	60	17	169	10	79	54	47	14	6.67	0.0	13	30.2	55

Total number of rows retrieved: 24; #### BLM Boise RAWs data is currently at 09-MAY-02 02:22:25 GMT ####

DRAWS Column Definitions (First Screen):

Field	Description and action to be taken
Station ID: (Station number)	The unique six digit numeric identifier assigned to each station by the NWS.
Date: (Observation date)	The date of the observation
Obs HH MM	The time of the observation. In the RAWs screen the hour and minutes will be displayed. In the DOBS screen only the hour will be displayed.
OT (Observation Types)	WIMS recognizes four type of observations or outputs from which the user can choose. These are: O – Observed weather data or calculated NFDRS indices R – Raw weather data from automated stations S – Special observations (observations or indices based on other than standard observations) F – Forecasted indices generated from data forecasted by the NWS.

Field	Description and action to be taken
Dry Tmp (Dry bulb temperature)	Displays the observed dry bulb temperature, in degrees at the time of the observation. <i>Fahrenheit or Celsius is specified in the Temperature Code: field in the station catalog.</i>
RH (Relative humidity)	Displays the relative humidity at the time of the observation.
Wind Dir (Wind direction)	Displays the wind direction in degrees at the time of the observation.
Wind Sp (Wind speed)	Displays the observed ten-minute wind speed at the time of the observation.
Temp Max (24-hour maximum temperature)	The maximum temperature taken during the 24 hour period, for example 1300 on Tuesday to 1259 on Wednesday.
Temp Min (24-hour minimum temperature)	The minimum temperature taken during the 24 hour period, for example 1300 on Tuesday to 1259 on Wednesday.
RH% Max (Maximum relative humidity percentile)	The maximum Relative Humidity Percentile taken during the 24 hour period, for example 1300 On Tuesday to 1259 on Wednesday.
RH% Min (Minimum relative humidity percentile)	The minimum Relative Humidity Percentile taken during the 24 hour period, for example 1300 On Tuesday to 1259 on Wednesday.
RGauge (Rain gauge)	Displays the measured amount of rainfall. This is a cumulative total and reset when the tipping bucket on the station is reset.
Hrly Precip (Hourly precipitation)	Displays the hourly amount of precipitation measured during the last 24 hours.
BVlt (Battery voltage)	Displays the voltage of the battery in the RAWS station.
BPress (Barometric pressure)	Displays the barometric pressure measured in the last 24 hours.

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Station ID: or SIG Date: Start Time: Find Reset PrintAll Print Export

Station OID	Obs Date	Obs		RAWS Sensor Data									
		HH	MM	UX	UG	MM	PC						
<input type="checkbox"/> 353307	01-Aug-02	23	0	340	19	6	-3						
<input type="checkbox"/> 353307	01-Aug-02	22	0	348	21	6	-4						
<input type="checkbox"/> 353307	01-Aug-02	21	0	332	24	5	-5						
<input type="checkbox"/> 353307	01-Aug-02	20	0	157	19	6	-4						
<input type="checkbox"/> 353307	01-Aug-02	19	0	291	22	5	19						
<input type="checkbox"/> 353307	01-Aug-02	18	0	292	25	5	86						
<input type="checkbox"/> 353307	01-Aug-02	17	0	265	26	6	142						
<input type="checkbox"/> 353307	01-Aug-02	16	0	275	29	6	335						
<input type="checkbox"/> 353307	01-Aug-02	15	0	251	25	6	765						
<input type="checkbox"/> 353307	01-Aug-02	14	0	191	23	6	880						
<input type="checkbox"/> 353307	01-Aug-02	13	0	235	24	6	951						
<input type="checkbox"/> 353307	01-Aug-02	12	0	183	19	6	993						
<input type="checkbox"/> 353307	01-Aug-02	11	0	236	12	6	935						
<input type="checkbox"/> 353307	01-Aug-02	10	0	184	13	6	834						
<input type="checkbox"/> 353307	01-Aug-02	9	0	205	14	6	699						
<input type="checkbox"/> 353307	01-Aug-02	8	0	159	11	6	522						
<input type="checkbox"/> 353307	01-Aug-02	7	0	175	12	6	323						
<input type="checkbox"/> 353307	01-Aug-02	6	0	168	12	6	144						

Total number of rows retrieved: 24; ##### BLM Boise RAWS data is currently at 09-MAY-02 02:22:25 GMT ##### Internet

The second DRAWS screen will display data collected from any additional sensors on the station. Additional sensors can vary from station to station.

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Remote Automatic Weather Station Display DRAWS

Station ID: or SIG Date: Start Time:

Station OID	Obs Date	Obs		O T	Dry Temp	RH	Wind		Temp		RH%		RGauge	Hrly Prcp	BVlt	BPress	Fuel Temp
		HH	MM				Dir	Sp	Max	Min	Max	Min					
353307	01-Aug-02	23	0	R	54	33	346	13	78	54	33	13	6.67	0.0	13.1	30.2	53
353307	01-Aug-02	22	0	R	56	31	338	14	78	56	33	13	6.67	0.0	13.1	30.2	55
353307	01-Aug-02	21	0	R	58	33	338	14	78	57	33	13	6.67	0.0	13.1	30.2	57
353307	01-Aug-02	20	0	R	59	28	316	14	78	57	32	13	6.67	0.0	13.2	30.2	58
353307	01-Aug-02	19	0	R	63	27	269	13	78	57	32	13	6.67	0.0	13.2	30.2	63
353307	01-Aug-02	18	0	R	66	18	281	14	78	57	32	13	6.67	0.0	13.4	30.2	68
353307	01-Aug-02	17	0	R	71	17	281	13	78	57	32	13	6.67	0.0	14	30.2	77
353307	01-Aug-02	16	0	R	77	13	249	13	79	57	32	13	6.67	0.0	13.9	30.2	88
353307	01-Aug-02	15	0	R	78	15	248	12	79	57	32	14	6.67	0.0	13.9	30.2	95
353307	01-Aug-02	14	0	R	77	17	252	11	79	57	32	14	6.67	0.0	13.9	30.2	97
353307	01-Aug-02	13	0	O	76	17	248	11	79	57	32	14	6.67	0.0	13.9	30.2	99
353307	01-Aug-02	12	0	R	77	20	233	8	79	57	32	14	6.67	0.0	13.9	30.2	103
353307	01-Aug-02	11	0	R	74	23	215	7	79	57	32	14	6.67	0.0	13.9	30.2	106
353307	01-Aug-02	10	0	R	69	24	193	8	79	57	39	14	6.67	0.0	14	30.2	100
353307	01-Aug-02	9	0	R	67	22	204	7	79	57	43	14	6.67	0.0	14	30.2	91
353307	01-Aug-02	8	0	R	64	20	179	8	79	57	43	14	6.67	0.0	14	30.2	82
353307	01-Aug-02	7	0	R	61	18	159	10	79	55	47	14	6.67	0.0	13.5	30.2	69
353307	01-Aug-02	6	0	R	60	17	169	10	79	54	47	14	6.67	0.0	13	30.2	55

Total number of rows retrieved: 24; ##### BLM Boise RAWs data is currently at 09-MAY-02 02:22:25 GMT #####

Internet

The DRAWS screen is a very valuable screen for trouble shooting station sensor problems. For example, look at the Wind Dir column. Are the values changing or showing the same direction for a number of hours? If the same value is showing for a number of hours or days, the Wind Dir sensor on the station is probably not functioning correctly. Using this screen is an easy way to monitor station performance.