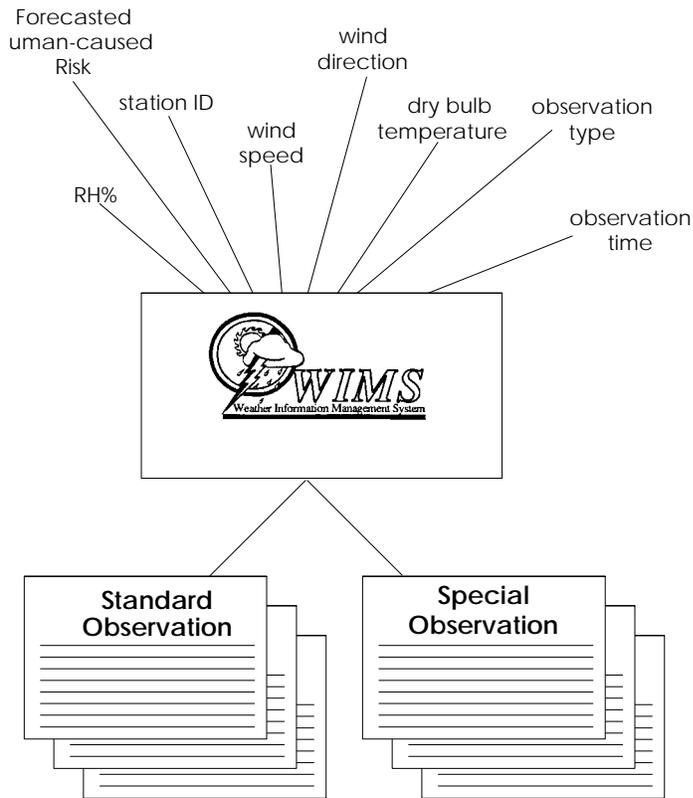


This chapter gives you the information you will need to display, enter, and edit observations. You must be the station's owner or have Access Control List authorization to create and edit observations.

Observations

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



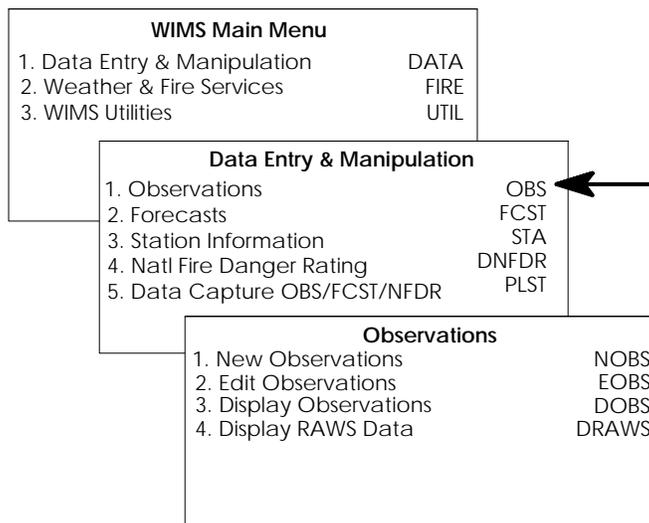
For more information about the menus and forms available to your access level, see Appendix A, "Menus, FASTPATHS, and access levels" in the back of this guide.

WIMS stores and maintains weather information into 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 observation
- ◆ 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 press <NEW LINE>.

```
Weather Information Management System
1.1 Observations OBS
WIMS
17-May-97
03.23.97

1. New Observations      NOBS
2. Edit Observations     EOBS
3. Display Observations  DOBS
4. Display RAWS Data     DRAWS
5. Screen HELP           HOBS
6. Return to Previous Menu DATA

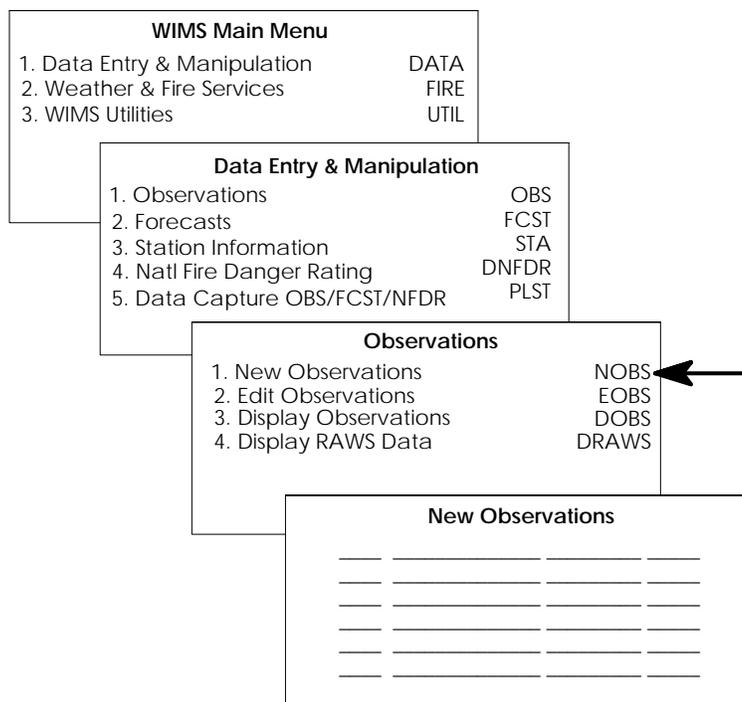
Option/FastPath: █

F2-FastPath Help      F3-Exit      F4-Top Menu      F11-Previous Menu
-----
OBS                   Page MENU     Count :
```

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 entered automatically by 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 press <NEW LINE>.

NOBS form

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| (Station ID: █ _____ or SIG: _____ )                               Date: 10-MAY-97 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Station Ob O      Dry Hum M HC   Wind 10  Temp      RH%                               Y FHC W |
| ID      Tm T      W Tmp Val L Rsk Dir Sp Hr  Max Min  Max Min Dur  Amt  L Rsk F |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|                                     F1-Save      F2-Help      F5-Show Keys      F11-Exit |
| Info: Previous selection criteria has been retrieved. _____ |
| Count: *0                                                                    <List> |

```

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) - or -	Enter the number of the station you want to display. - or -
SIG: (Special Interest Group name)	Enter the name of the SIG you want to display.
Date: (observation date)	Enter the observation date, in the format DD-MMM-YY. <i>You may also enter a range of dates for the Display Observation (DOBS) form. For more information, see "Searching by date" in Chapter 5, "Beyond the basics."</i> <i>The default Date is today's date.</i>
Station ID (station number)	Displays the number of the station(s).

<p>Ob Tm (observation time)</p>	<p>Using the 24-hour clock, displays the local standard time of the observation:</p> <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Time</u></th> </tr> </thead> <tbody> <tr> <td>11</td> <td>11:00 am</td> </tr> <tr> <td>12</td> <td>noon</td> </tr> <tr> <td>13</td> <td>1:00 pm</td> </tr> <tr> <td>14</td> <td>2:00 pm</td> </tr> <tr> <td>15</td> <td>3:00 pm.</td> </tr> </tbody> </table> <p><i>WIMS truncates the time to the hour. The default observation time is "13" (1:00 pm).</i></p>	<u>Code</u>	<u>Time</u>	11	11:00 am	12	noon	13	1:00 pm	14	2:00 pm	15	3:00 pm.												
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11	11:00 am																								
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<p>O T (observation type)</p>	<p>Displays the type of observation:</p> <table border="0"> <thead> <tr> <th><u>Type</u></th> <th><u>Description</u></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>A</td> <td>Archived, historical observation</td> </tr> <tr> <td>X</td> <td>Invalid observation rejected by NIFMID.</td> </tr> </tbody> </table> <p><i>The default Type is "O." Types "A" and "X" are used by the WIMS Janitor.</i></p>	<u>Type</u>	<u>Description</u>	O	Standard observation	S	Special observation	R	RAWS observation	A	Archived, historical observation	X	Invalid observation rejected by NIFMID.												
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<p>W (state of the weather - required)</p>	<p>Enter the code for the state of the weather:</p> <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Description</u></th> <th><u>Code</u></th> <th><u>Description</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>clear (0.0 - 0.1)</td> <td>1</td> <td>scattered clouds (0.2 - 0.5)</td> </tr> <tr> <td>2</td> <td>broken clouds (0.6 - 0.9)</td> <td>3</td> <td>overcast (100% obscured)</td> </tr> <tr> <td>4</td> <td>foggy</td> <td>5</td> <td>drizzling</td> </tr> <tr> <td>6</td> <td>raining</td> <td>7</td> <td>snow/sleet</td> </tr> <tr> <td>8</td> <td>showering</td> <td>9</td> <td>thunderstorms in progress.</td> </tr> </tbody> </table> <p><i>This field must not be blank. Remember to enter the appropriate state of the weather code for accurate NFD RS indices.</i></p>	<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>	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.
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4	foggy	5	drizzling																						
6	raining	7	snow/sleet																						
8	showering	9	thunderstorms in progress.																						
<p>Dry Tmp (dry bulb temperature)</p>	<p>Displays the observed dry bulb temperature in degrees. <i>Fahrenheit or Celsius is specified in the Temperature Code field in the station catalog.</i></p>																								
<p>Hum Val (measured humidity)</p>	<p>Displays the measured humidity, if available. <i>Based on the station catalog, this field identifies:</i></p> <p><i>wet bulb temperature dew point temperature relative humidity.</i></p>																								

<p>ML (morning's lightning - required)</p>	<p>Displays the morning's lightning activity level:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>no thunderstorms or building cumulus clouds</td> </tr> <tr> <td>2</td> <td>infrequent lightning, few building cumulus</td> </tr> <tr> <td>3</td> <td>occasional lightning, scattered cumulus</td> </tr> <tr> <td>4</td> <td>frequent lightning, cumulus to 1/3 area</td> </tr> <tr> <td>5</td> <td>frequent and intense lightning, cumulus common</td> </tr> <tr> <td>6</td> <td>dry lightning, low lightning flash rate, scattered towering cumulus, with virga.</td> </tr> </tbody> </table> <p><i>This field must not be blank.</i></p>	Code	Description	1	no thunderstorms or building cumulus clouds	2	infrequent lightning, few building cumulus	3	occasional lightning, scattered cumulus	4	frequent lightning, cumulus to 1/3 area	5	frequent and intense lightning, cumulus common	6	dry lightning, low lightning flash rate, scattered towering cumulus, with virga.																						
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<p>HC Rsk (human-caused risk)</p>	<p>Displays the human-caused risk (HCR) factor for the station, a value from 0 to 100.</p>																																				
<p>Wind Dir (wind direction)</p>	<p>Displays the direction where the wind is blowing from, in degrees:</p> <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.
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N	360																																				
FL	0.																																				
<p>Wind Sp (wind speed)</p>	<p>Displays the observed average ten-minute wind speed.</p>																																				
<p>10 Hr (ten-hour fuel stick moisture content)</p>	<p>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></p>																																				

Temp Max (24-hour maximum temperature)	Displays the maximum temperature observed in the 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)	Displays the lightning activity level from midnight yesterday to midnight last night: Code Description <hr/> 1 no thunderstorms or building cumulus clouds 2 infrequent lightning, few building cumulus 3 occasional lightning, scattered cumulus 4 frequent lightning, cumulus to 1/3 area 5 frequent and intense lightning, cumulus common 6 dry lightning, low lightning flash rate, scattered towering cumulus, with virga. <i>This field must not be blank.</i>
FHC Rsk (forecasted human-caused risk)	Displays the forecasted human-caused risk (HCR) factor for the station, a value from 0 to 100. <i>For more information, refer to Deeming, INT-39.</i>
W F (wet fuels)	Displays the state of the fuel for the observation time. Y, indicates wet fuels N, indicates dry fuels. <i>If the state of the weather code (W 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>

BPress (barometric pressure)	Displays the barometric pressure measured in the last 24 hours.
---------------------------------	---

To enter a new observation

From the Create Observation form:

1. In the *Station ID:* field, type the **number of the station** for the new observation and press <TAB>.

or

In the *SIG:* field, type the **Special Interest Group name** and press <TAB>.

2. In the *Date:* field, type the **observation date** and press <NEW LINE>.

The Create Observation form redisplay, listing the station number, observation time, and default observation type.



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

3. Complete the remaining fields in the form, as instructed on page 7.6. Press <TAB> after each entry.

4. To save the new observation, press <F1>.

Enter a single station or enter a SIG name.

displays on the Create Observation form.

Your observation is saved and you can enter another observation for a single station or for stations within a SIG.



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

To enter a new observation - an example

Suppose you want to enter new observations for stations that are defined as the Special Interest Group “SMPL.” “SMPL” contains the stations numbered “52902,” “52704,” and “52408.” 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 “52902” and “52408.” At this time, you do not need to enter a new observation for station “52704.”

From the Create Observation form:

1. In the *Station ID:* field, press <TAB>.

If there is already a station number in the Station ID: field, press <space bar> to blank out that station number, then press <TAB>.

2. In the *SIG:* field, type **SMPL** and press <TAB>.

3. In the *Date:* field, type the **observation date** and press <NEW LINE>.

4. For station number “52902,” complete the Create Observation form as shown on the next page.

```

+----- Create Observation -----+
| (Station ID: _____ or SIG: SMPL)          Date: 15-MAY-97          |
+-----+
| Station Ob O      Dry Hum M HC   Wind 10 Temp      RH%                Y FHC W |
| ID   Tm T      W Tmp Val L Rsk Dir Sp Hr Max Min  Max Min Dur Amt  L Rsk F |
| 52902_ 13 O    3  64  21 1  13 257 18  __  74  41  73  18  0  0  5  14 N |
| 52704_ 13 O    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| 52408_ 13 O    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
+-----+
                F1-Save   F2-Help       F5-Show Keys   F11-Exit
Enter the state of the weather.  See LIST OF VALUES. _____
Count: *0                                           <List>
    
```

After completing the *WF* field and pressing <TAB>, the cursor should now be located on station number "52704" as shown below.

```

+----- Create Observation -----+
| (Station ID: _____ or SIG: SMPL)          Date: 15-MAY-97          |
+-----+
| Station Ob O      Dry Hum M HC   Wind 10 Temp      RH%                Y FHC W |
| ID   Tm T      W Tmp Val L Rsk Dir Sp Hr Max Min  Max Min Dur Amt  L Rsk F |
| 52902_ 13 O    3  64  21 1  13 257 18  __  74  41  73  18  0  0  5  14 N |
| 52704_ 13 O    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| 52408_ 13 O    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
| _____ -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  - |
+-----+
                F1-Save   F2-Help       F5-Show Keys   F11-Exit
Enter the state of the weather.  See LIST OF VALUES. _____
Count: *0                                           <List>
    
```

5. To skip entries for station number "52704," press <F9>.



If you are on the DG, you can press <ERASE EOL> to clear a field.

If the cursor is not located on station number "52704," use <TAB> and/or arrow keys to move the cursor to that line, then press <F9>.

6. Using <TAB> and/or arrow keys, move the cursor from the *Station ID* field that contains station number "52408" to the *W* field for that station number. Complete the fields as shown below.

```

+----- Create Observation -----+
| (Station ID: _____ or SIG: SMPL)          Date: 15-MAY-97          |
+-----+
| Station Ob O      Dry Hum M HC   Wind 10 Temp      RH%                Y FHC W |
| ID      Tm T      W Tmp Val L Rsk Dir Sp Hr Max Min  Max Min Dur Amt  L Rsk F |
| 52902_ 13 O      3  64 21 1  13 257 18  ___ 74 41   73 18  0  0   5 14 N |
| 52408_ 13 O      4  60 48 0  0  245 16 10  80 55   49 20  0  0   5  0 Y |
| _____|
| _____|
| _____|
| _____|
| _____|
| _____|
| _____|
| _____|
| _____|
| _____|
| _____|
+-----+
| F1-Save  F2-Help  F5-Show Keys  F11-Exit |
| Enter the state of the weather. See LIST OF VALUES. _____ |
| Count: *0                                     <List> |

```

7. When finished, press <F1> to save the new observation.

Enter a single station or enter a SIG name.

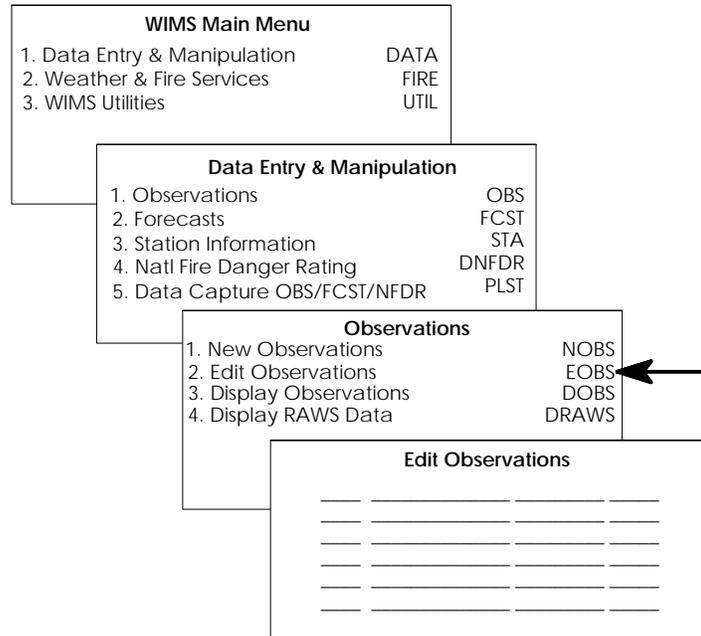
displays on the Create Observation form.



Although a confirmation message does not display on the Create Observation form, your observations are saved. For NFDRS type cataloged stations, the message, "Calculating NFDRS" appears after pressing <F1>. If any station NFDRS parameters need adjustment, the Edit NFDR Parameters screen appears.

To display the observations you saved, access the Display Observation form. For more information, see "Displaying an observation" later in this chapter.

Editing an observation



The Edit Observation form allows you to:

- ◆ edit previous observations and recalculate NFDRS components
- ◆ enter, edit, and initiate NFDRS calculations for RAWs 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 edit a regular observation beyond two hours of the standard observation time (1300), change the observation type from Regular (Type=O) to Special (Type=S).

To access the Edit Observation form

- ◆ In the *Option/Fastpath:* field, type **EOBS** and press <NEW LINE>.

3. In the *Date:* field, type the **observation date** and press <TAB>.



If you enter an observation date for which there is no observation data, WIMS searches the NIFMID historical database. Changes to historic data are then eventually moved to NIFMID by the WIMS Janitor.

4. In the *Time:* field, type the **observation time** and press <NEW LINE>.

You can leave this field blank.

The Edit Observation form redisplay, listing the station number, observation time, observation type, and all observations previously recorded for that station number.



If you are not authorized to edit observations for a station number, the message:

```
Error: This station does not exist OR you do
not have access!
```

displays on the bottom of the Edit Observation form.

5. Edit the values for the observation. Press <TAB> after each entry.



The W (state of the weather), ML (morning's lighting) and YL (yesterday's lightning) fields must not be blank. WIMS will not save changes to the observation if these fields are blank.

6. To save the changes you made to the observation, press <F1>.

```
Enter a single station or enter a SIG name
```

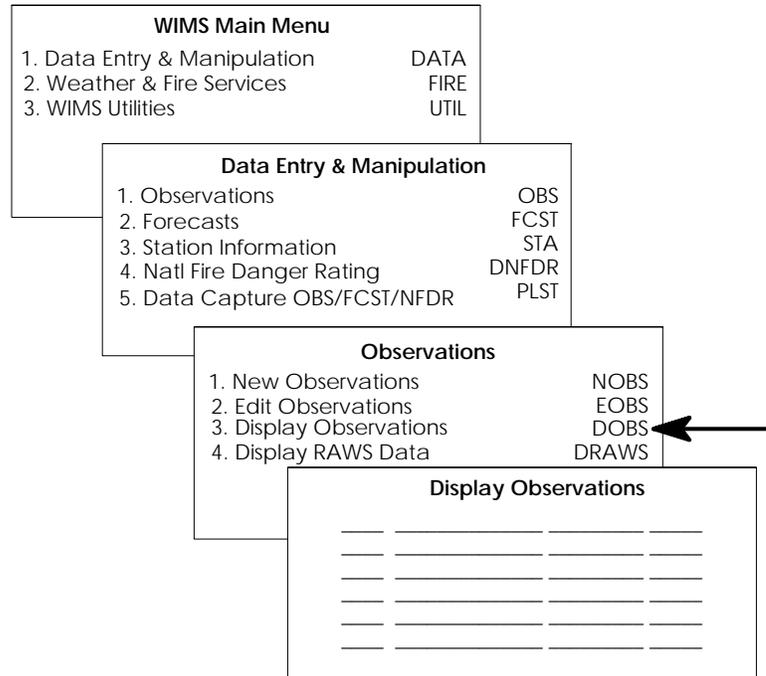
displays on the bottom of the Edit Observation form.



NFDRS indices are recalculated for the specified day. To update these calculations for a period of time, see "Recalculating NFDRS indices" in Chapter 5, "Beyond the basics."

If there has been precipitation within the last 24 hours but the current observation is dry (Wet Fuels flag is "N"), you may want to edit the observation and change the Wet Fuels flag to "Y."

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

- ◆ In the *Option/Fastpath:* field, type **DOBS** and press <NEW LINE>.

4. In the *Time:* field, type the **observation time** and press **<NEW LINE>**.

You can leave this field blank.

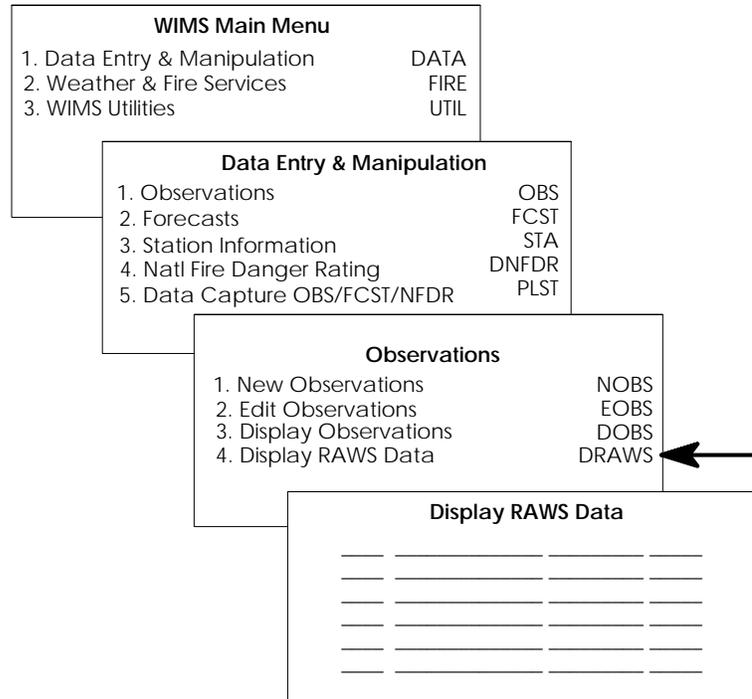
The Display Observation form redisplay, listing the station number, observation time, observation type, and all observations previously recorded for that station number.



*To edit an observation, move the cursor to the observation you want to edit and press **<CTRL> + <F7>** (**<F19>**). Remember, you must have **ACL** access to edit that observation.*

5. To return to the previous menu, press **<F11>**.

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 **DRAWS** and press <NEW LINE>.

<p>Start Time: (beginning observation time)</p>	<p>Using the 24-hour clock, displays the last 24-hourly observations, beginning with the standard observation time “13” (1:00 pm):</p> <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Time</u></th> <th><u>Code</u></th> <th><u>Time</u></th> </tr> </thead> <tbody> <tr><td>00</td><td>midnight</td><td>12</td><td>noon</td></tr> <tr><td>01</td><td>1:00 am</td><td>13</td><td>1:00 pm</td></tr> <tr><td>02</td><td>2:00 am</td><td>14</td><td>2:00 pm</td></tr> <tr><td>03</td><td>3:00 am</td><td>15</td><td>3:00 pm</td></tr> <tr><td>04</td><td>4:00 am</td><td>16</td><td>4:00 pm</td></tr> <tr><td>05</td><td>5:00 am</td><td>17</td><td>5:00 pm</td></tr> <tr><td>06</td><td>6:00 am</td><td>18</td><td>6:00 pm</td></tr> <tr><td>07</td><td>7:00 am</td><td>19</td><td>7:00 pm</td></tr> <tr><td>08</td><td>8:00 am</td><td>20</td><td>8:00 pm</td></tr> <tr><td>09</td><td>9:00 am</td><td>21</td><td>9:00 pm</td></tr> <tr><td>10</td><td>10:00 am</td><td>22</td><td>10:00 pm</td></tr> <tr><td>11</td><td>11:00 am</td><td>23</td><td>11:00 pm.</td></tr> </tbody> </table> <p><i>WIMS truncates the time to the hour.</i></p>	<u>Code</u>	<u>Time</u>	<u>Code</u>	<u>Time</u>	00	midnight	12	noon	01	1:00 am	13	1:00 pm	02	2:00 am	14	2:00 pm	03	3:00 am	15	3:00 pm	04	4:00 am	16	4:00 pm	05	5:00 am	17	5:00 pm	06	6:00 am	18	6:00 pm	07	7:00 am	19	7:00 pm	08	8:00 am	20	8:00 pm	09	9:00 am	21	9:00 pm	10	10:00 am	22	10:00 pm	11	11:00 am	23	11:00 pm.
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<p>Station ID (station number)</p>	<p>Displays the number of the RAWS station.</p>																																																				
<p>Obs Date (observation date)</p>	<p>Displays the observation date, in the format DD-MMM-YY.</p>																																																				
<p>Obs HH MM (local standard observation time)</p>	<p>Using the 24-hour clock, displays the last 24-hourly observations, beginning with this time:</p> <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Time</u></th> <th><u>Code</u></th> <th><u>Time</u></th> </tr> </thead> <tbody> <tr><td>0000</td><td>midnight</td><td>1200</td><td>noon</td></tr> <tr><td>0100</td><td>1:00 am</td><td>1300</td><td>1:00 pm</td></tr> <tr><td>0200</td><td>2:00 am</td><td>1400</td><td>2:00 pm</td></tr> <tr><td>0300</td><td>3:00 am</td><td>1500</td><td>3:00 pm</td></tr> <tr><td>0400</td><td>4:00 am</td><td>1600</td><td>4:00 pm</td></tr> <tr><td>0500</td><td>5:00 am</td><td>1700</td><td>5:00 pm</td></tr> <tr><td>0600</td><td>6:00 am</td><td>1800</td><td>6:00 pm</td></tr> <tr><td>0700</td><td>7:00 am</td><td>1900</td><td>7:00 pm</td></tr> <tr><td>0800</td><td>8:00 am</td><td>2000</td><td>8:00 pm</td></tr> <tr><td>0900</td><td>9:00 am</td><td>2100</td><td>9:00 pm</td></tr> <tr><td>1000</td><td>10:00 am</td><td>2200</td><td>10:00 pm</td></tr> <tr><td>1100</td><td>11:00 am</td><td>2300</td><td>11:00 pm.</td></tr> </tbody> </table> <p><i>Observation time is displayed in hours (HH) and minutes (MM).</i></p>	<u>Code</u>	<u>Time</u>	<u>Code</u>	<u>Time</u>	0000	midnight	1200	noon	0100	1:00 am	1300	1:00 pm	0200	2:00 am	1400	2:00 pm	0300	3:00 am	1500	3:00 pm	0400	4:00 am	1600	4:00 pm	0500	5:00 am	1700	5:00 pm	0600	6:00 am	1800	6:00 pm	0700	7:00 am	1900	7:00 pm	0800	8:00 am	2000	8:00 pm	0900	9:00 am	2100	9:00 pm	1000	10:00 am	2200	10:00 pm	1100	11:00 am	2300	11:00 pm.
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<p>O T (observation type)</p>	<p>Displays the type of observation. <i>For RAWS observations, the type is “R.”</i></p>																																																				
<p>Dry Tmp (dry bulb temperature)</p>	<p>Displays the observed dry bulb temperature, in degrees. <i>Fahrenheit or Celsius is specified in the Temperature Code: field in the station catalog.</i></p>																																																				
<p>RH (relative humidity)</p>	<p>Displays the relative humidity.</p>																																																				

Wind Dir (wind direction)	<p>Displays the wind direction in degrees:</p> <table> <thead> <tr> <th><u>Code</u></th> <th><u>Equivalent wind direction in degrees</u></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>	<u>Code</u>	<u>Equivalent wind direction in degrees</u>	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.
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N	360																																				
FL	0.																																				
Wind Sp (wind speed)	Displays the observed ten-minute wind speed.																																				
Temp Max (24-hour forecasted maximum temperature)	Displays the maximum observed temperature for the last 24 hours.																																				
Temp Min (24-hour forecasted minimum temperature)	Displays the minimum observed temperature for the last 24 hours.																																				
RH% Max (maximum forecasted relative humidity percentile)	Displays the maximum observed relative humidity percentile for the last 24 hours, a value from 1 to 100.																																				
RH% Min (minimum forecasted relative humidity percentile)	Displays the minimum observed relative humidity percentile for the last 24 hours, a value from 1 to 100.																																				
RGauge (rain gauge)	Displays the measured amount of rainfall.																																				
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.																																				

To display a RAWS observation

From the Remote Automatic Weather Station Display (RAWS) form:

1. In the *Station ID:* field, type the **number of the RAWS station** for the observation and press <TAB>.

or

In the *SIG:* field, type the **Special Interest Group name** and press <TAB>.

2. In the *Date:* field, type the **observation date** and press <TAB>.
3. In the *Start Time:* field, type the **beginning observation time** and press <NEW LINE>.

The Remote Automatic Weather Station Display (RAWS) form redisplay, listing the station number, observation date, observation time beginning at the date and time specified in the query block for that RAWS station number.

4. To return to the previous menu, press <F11>.



Remember, the Remote Automatic Weather Station Display (RAWS) form reflects hourly observations. For example, Hrly Precip reflects the total precipitation measured for a one-hour period.

To scroll right on the Remote Automatic Weather Station Display (RAWS) form - an example

From the Remote Automatic Weather Station Display (RAWS) form:

1. Complete the Remote Automatic Weather Station Display (RAWS) form as instructed on the previous pages. Press <TAB> after each entry.
2. To display the rest of the form, press <CTRL> + <F6> (<F18>). For A2B or SimPC, press <SHIFT> + <F6>. Continue pressing <CTRL> + <F6> (<F18>) until all sensors are displayed. You may see blank columns.

```

+----- Remote Automatic Weather Station Display (RAWS) ----- 2 --+
| (Station ID: 350913 or SIG: ____ )   Date: 02-MAY-95   Start Time: 8_ |
+-----+
Station  Obs      Obs  Fuel |
  ID      Date    HH MM Temp |
350913  04-FEB-97  8_  __ 36 | PC    22 US    19 UD    6 TA    ____ MT    ____
350913  04-FEB-97  7_  __ 37 | PC    22 US    97 UD    3 TA    ____ MT    ____
350913  04-FEB-97  6_  __ 38 | PC    22 US    12 UD    5 TA    ____ MT    ____
350913  04-FEB-97  5_  __ 38 | PC    22 US     6 UD    6 TA    ____ MT    ____
350913  04-FEB-97  4_  __ 38 | PC    22 US     9 UD    6 TA    ____ MT    ____
350913  04-FEB-97  3_  __ 36 | PC    22 US     8 UD    5 TA    ____ MT    ____
350913  04-FEB-97  2_  __ 35 | PC    22 US   354 UD    3 TA    ____ MT    ____
350913  04-FEB-97  1_  __ 34 | PC    22 US    54 UD    2 TA    ____ MT    ____
350913  04-FEB-97  0_  __ 35 | PC    22 US    32 UD    3 TA    ____ MT    ____
350913  03-FEB-97  23  __ 36 | PC    21 US     0 UD    3 TA    ____ MT    ____
350913  03-FEB-97  22  __ 35 | PC    22 US   353 UD    2 TA    ____ MT    ____
350913  03-FEB-97  21  __ 34 | PC    21 US    90 UD    4 TA    ____ MT    ____
350913  03-FEB-97  20  __ 38 | PC    20 US    38 UD    3 TA    ____ MT    ____
350913  03-FEB-97  19  __ 39 | PC    19 US   130 UD    2 TA    ____ MT    ____
-- All values are in the ENGLISH number system -----
F2-Help      F5-Show Keys  F11-Exit     F17-Scroll Left  F18-Scroll Right

Count:  14          v

```



The diagram above lists the measured values of the RAWS sensors as identified in the station catalog.

To edit an observation from the Remote Automatic Weather Station Display (RAWS) form - an example

From the Remote Automatic Weather Station Display (RAWS) form:

1. Using <TAB> and/or arrow keys, move the cursor to the observation you want to edit.



To edit an observation, you must be the owner or defined on the Access Control List for that station and have “Edit Observation” authorization. For more information, see “Understanding Access Control Lists” in Chapter 6, “Working with Station Information.”

2. To edit that observation, press **<CTRL> + <F7>** (**<F19>**). For *A2B* or *SimPC*, press **<SHIFT> + <F7>**.

WIMS displays the Edit Observation form, listing the RAWS station number, observation date and time, and existing NFDRS components for the RAWS station number you selected.

3. Edit the observation, pressing **<TAB>** after each entry.
4. To save the changes you made to the observation, press **<F1>**.

Info: Display has not been updated with changes!

displays on the Remote Automatic Weather Station Display (RAWS) form.