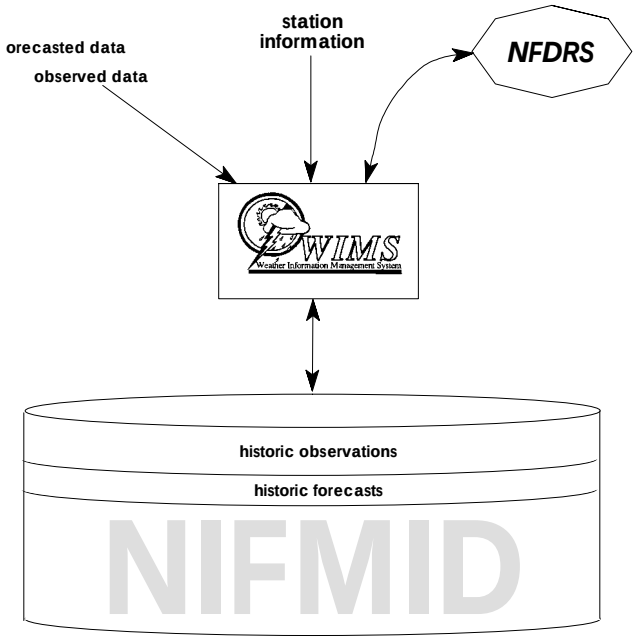
Chapter 9. Working with NFDRS *DNFDR*

This chapter gives you the information you will need to display National Fire Danger Rating System (NFDRS) reports.

The menu options and functions you will be able to access depends on your access level, and not all tasks described in this chapter are available to everyone. For more information about access levels see Appendix A, ‘‘Menus, FASTPATHs, and access levels.’’

The National Fire Danger Rating System



NFDRS provides information about current and predicted fire danger conditions on a broad scale. Using mathematical models, WIMS calculates NFDRS components and indices from observed and forecasted weather data.

Using WIMS, you can obtain NFDRS information in a variety of forms, either by station number or by SIG.

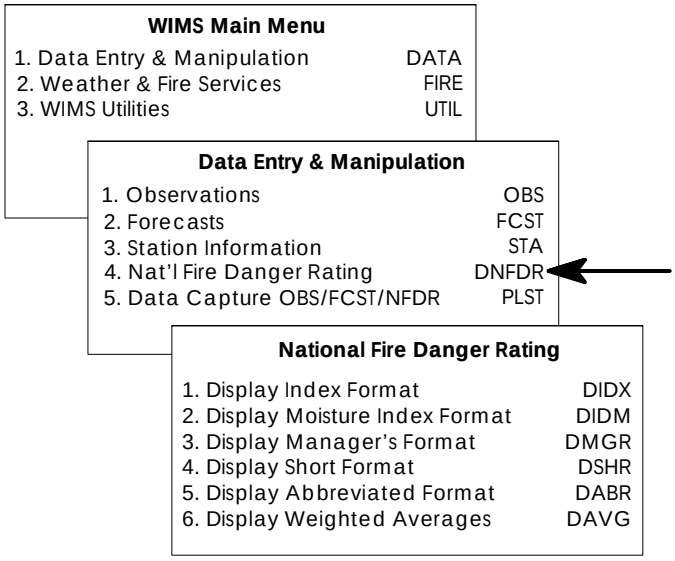
For a detailed description about NDFRS components and indices, see Appendix E, ‘‘NFDRS technical reference.’’

NFDRS forms

NFDRS information can be displayed in the following formats:

- The Index (DIDX) form displays key fire weather variables and NFDRS indices.
- The Display Moisture Index (DIDM) form displays the calculated NFDRS moisture variables for a list of observations.
- The Manager's (DMGR) form displays several fire weather variables and lists many NFDRS indices.
- The Short (DSHR) form displays precipitation amount, duration data, fire spread component, and adjective fire danger rating
- The Abbreviated (DABR) form displays key fire weather variables for regular, special, and forecast observations and all NFDRS components and indices.
- The Weighted Averages (DAVG) form displays weighted NFDRS outputs for a SIG.

The National Fire Danger Rating menu



To access the National Fire Danger Rating menu

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

```
                    Weather Information Management System                WIMS
                    1.4 National Fire Danger Rating DNFDR             18-May-97
                                                                       03.23.97


                       1. Display Index Format           DIDX
                       2. Display Moisture Index Format  DIDM
                       3. Display Manager's Format       DMGR
                       4. Display Short Format           DSHR
                       5. Display Abbreviated Format     DABR
                       6. Display Weighted Averages      DAVG
                       7. Screen HELP                   HDNFDR
                       8. Return to Previous Menu        DATA



                    Option/FastPath:


     F2-FastPath Help      F3-Exit      F4-Top Menu      F11-Previous Menu
DNFDR                         PageMENU                  Count:
```

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

- **DIDX**, to access the Display NFDR (Index) form
- **DIDM**, to access the Display Moisture (Index) Format
- **DMGR**, to access the Display NFDR (Manager) form
- **DSHR**, to access the Display NFDR (Short) form
- **DABR**, to access the Display NFDR (Abbrv) form
- **DAVG**, to access the Display NFDRS Weighted Averages form.

To display an NFDRS form

1. In the *Option/Fastpath:* field, type the ***FASTPATH*** of the form you want to display and press **<NEW LINE>**.

NFDRS field descriptions

Use the field descriptions listed below to specify the query block for the NFDRS form you want to display.

Field	Description and action to be taken
Station ID: (station number) **- or -**	Enter the number of the NFDRS station you want to display. **- or -**
SIG: (Special Interest Group name)	Enter the name of the SIG you want to display.
Type: (NFDRS observation type)	Enter the type of NFDRS observation: O, for a regular NFDRS observation S, for a special NFDRS observation F, for a forecast NFDRS observation. *The default Type is ''O.''*
Date: (NFDRS observation date)	Enter the NFDRS observation date, in the format DD-MMM-YY. *You may also enter a date range. For more information, see ''Searching by date'' in Chapter 5, ''Beyond the basics.''* *The default Date is today's date.*

To retrieve tomorrow's (forecasted) NFDRS indices for today's observations

1. In the *Option/Fastpath:* field, type the ***FASTPATH*** of the form you want to display and press **<NEW LINE>**.

2. In the *Station ID:* field, type the ***number of the station*** you want to display and press **<TAB>**.

   or

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

3. In the *Type*: field, type **F** and press **<TAB>**.

4. In the *Date*: field, type ***tomorrow's NFDRS observation date*** and press **<NEW LINE>**.

   The NFDRS report displays, listing today's forecasted NFDRS indices for the station or SIG you specified.

Calculating NFDRS indices for a RAWS observation

For NFDRS indices to be calculated, you must first edit the RAWS observation from Type=R to either a Type=O or a Type=S.

There are two basic steps to display a RAWS observation:

1. Edit the *O T* field of the RAWS observation to either ''regular'' or ''special'' to display a RAWS observation using one of the NFDRS forms.
2. Specify the form you want to review.

WIMS no longer provides a calculated state of the weather code for RAWS observations.

When editing a RAWS observation, you must enter the observed state of the weather code of the associated manual station, if available.

To edit a RAWS observation

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

   The Edit Observation form displays.

   For an example of this form, see ''EOBS form'' in Chapter 7, ''Working with Observations.''

   *You can also press **<F17>** from the DRAWS or DOBS form to edit the RAWS observation.*

2. In the *Station ID:* field, type the ***station number of the RAWS station*** you want to display and press **<TAB>**.

3. In the *SIG:* field, press **<TAB>**.

   *If there is already a SIG in this field, press **<space bar>** to blank out that name, then press **<TAB>**.*

4. Complete the remaining fields in the form, as instructed on page 9.4. Press **<TAB>** after each entry.

The Remote Automatic Weather Station Display form redisplays, listing the RAWS station information that you specified.

5. Using **<TAB>** and / or arrow keys, move the cursor next to the desired RAWS observation.

You must have access authority to edit a station. You can only have one regular observation (Type=O) per day. To edit the RAWS observation, change the observation type from Regular (Type=O) to Special (Type=S).

6. Using **<TAB>** and / or arrow keys, move the cursor to the *O T* field, type **S** and press **<TAB>**.

7. Verify and edit, if necessary, the *W, HC Rsk, ML, YL* and *FHC Rsk* fields.

State of the Weather (W field), Morning's lightning activity level (M L field) and yesterday's lightning activity level (Y L field) are required fields. WIMS will not save changes to the RAWS observation if these fields are blank.

You should also verify and correct, if necessary, the W field (state of the weather), and the HC Risk and FHC Risk fields (human-caused risk and forecasted human-caused risk).

8. Press **<TAB>** to move the cursor to a field with a length greater than one character, then press **<F1>** to save your changes.

*If you do not press **<TAB>** to move the cursor to a field with a length greater than one character, the message:*

```
FRM-41007: Cursor not in a valid field.
Function key was ignored.  Please acknowledge
message.  (OK)
```

displays on the Edit Observation form.

*Press **<NEW LINE>** to acknowledge this message and return to the form.*

To display an edited RAWS observation in an NFDRS form

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

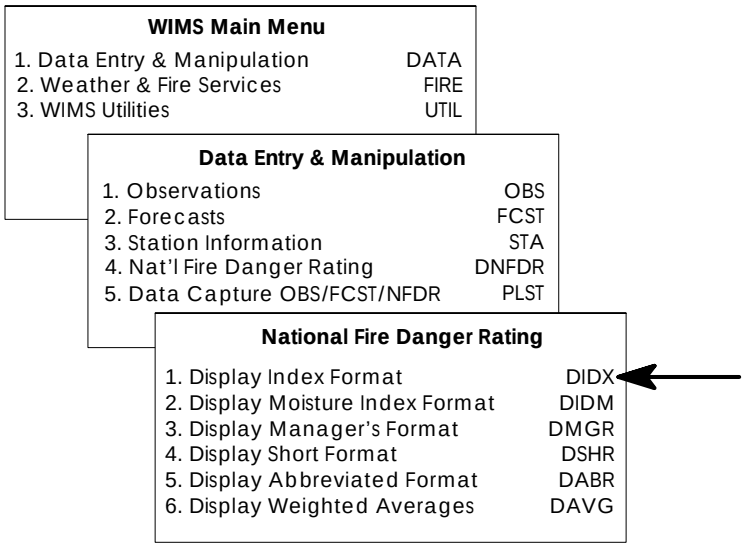
2. In the *Option/Fastpath:* field, type the ***FASTPATH*** of the form you want to display and press **<NEW LINE>**.

3. Verify that the station information fields are correct for the RAWS station you want to display.

4. Using **<TAB>**, move the cursor to the *Date:* field, then press **<NEW LINE>**.

   The NFDRS report that you specified redisplays, listing the RAWS observation you specified.

Displaying the Index form



The Display NFDR (Index) form allows you to display key fire weather variables for regular and special observations and forecasts. Some key fields listed on the indexed form include:

- Fuel Model
- Wind Speed
- Spread Component
- Burning Index
- Staffing Level
- Keetch-Byram Drought Index.
- Moisture Contents
- Ignition Component
- Energy Release Component
- Fire Load Index
- Adjective Fire Danger Rating

To access the Display NFDR (Index) form

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

Index (DIDX) form

```
+-------------------------  Display NFDR (Index)  ---------------------------+
| (Station ID: ▒_____ or SIG:  ____ )  Type:  _  Date:  18-MAY-95___________ |
+-----------------------------------------------------------------------------+
  Station  Obs  Ob O
    ID     Date Tm T  MSGC WS WDY HRB 1H 10 HU TH  IC  SC  EC  BI  FL SL R KBDI
  ______ ______ __ _ _____ __ ___ ___ __ __ __ __ ___ ___ ___ ___ ___ __ _ ___
  ______ ______ __ _ _____ __ ___ ___ __ __ __ __ ___ ___ ___ ___ ___ __ _ ___
  ______ ______ __ _ _____ __ ___ ___ __ __ __ __ ___ ___ ___ ___ ___ __ _ ___
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  ______ ______ __ _ _____ __ ___ ___ __ __ __ __ ___ ___ ___ ___ ___ __ _ ___
  ______ ______ __ _ _____ __ ___ ___ __ __ __ __ ___ ___ ___ ___ ___ __ _ ___
-------------------------------------------------------------------------------
       F2-Help     F5-Show Keys     F11-Exit     F17-Expanded Display

 Info:  Previous selection criteria has been retrieved._____________________
   Count: *0                                                     <List>
```

Index (DIDX) field definitions

Field	Brief description
MSGC	fuel Model, Slope class, Grass type, and Climate class
WS	Wind Speed (ten-minute average measured at 20 feet)
WDY	calculated live woody fuel moisture
HRB	calculated herbaceous moisture content
1H	calculated one-hour timelag fuel moisture content
10	measured or calculated 10-hour timelag fuel moisture content
HU	calculated 100-hour timelag fuel moisture content
TH	calculated 1000-hour timelag fuel moisture content
IC	Ignition Component
SC	Spread Component
EC	Energy Release Component
BI	Burning Index
FL	Fire Load Index

SL	Staffing Level
R	Rating (adjective fire danger rating)
KBDI	Keetch-Byram Drought Index
x1000	live fuel moisture recovery value
LR	Lightning Risk
LO	Lightning-caused fire Occurrence Index
HR	Human-Caused Risk
HO	Human-caused fire Occurrence index
MC	staffing index - also known as Manning Class

For more information about NFDRS components, see Appendix E, ‘‘NFDRS technical reference.’’

To display an index form - an example

For this example, you will display the index form of a regular observation using the date range of May 01, 1997 to May 15, 1997 for the NFDRS station‘‘352108’’.

1. In the *Option/Fastpath:* field, type **DIDX** and press **<NEW LINE>**.

2. Complete the desired fields in the query block as shown below, then press **<NEW LINE>**.

```
+-------------------------  Display NFDR (Index)  ---------------------------+
| (Station ID:  352108 or SIG:  ____ )  Type:  O  Date:  01-MAY-97 15-MAY-97_ |
+-------------------------------------------------------------------------+
```

In the example above, a space is entered between the date range.

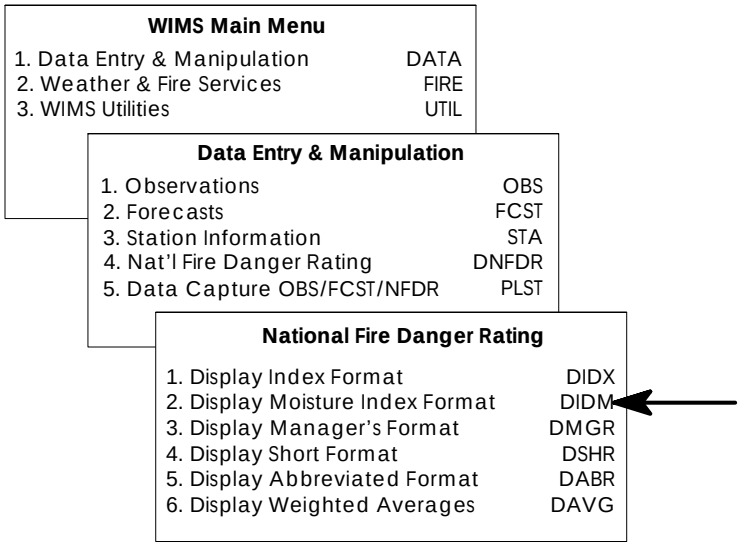
Page one of the Display NFDR (Index) form is shown on the next page and lists 14 regular observations for station ‘‘352108’’ for the date range May 1 through May 15, 1997.

```
+-------------------------  Display NFDR (Index)  --------------------------+
| (Station ID:  352108 or SIG:  ____ )  Type:  O  Date:  01-MAY-97 15-MAY-97_ |
+-----------------------------------------------------------------------------+
  Station  Obs  Ob O
    ID     Date Tm T  MSGC WS WDY HRB 1H 10 HU TH  IC  SC  EC  BI  FL SL R KBDI
  352108 051595 13 O 7A2A2  2 186 160  6  9 15 23   4   2   0   3   2 1_ L   6
  352108 051595 13 O 7T2A2  2 186 233  6  9 15 23   4   1   3   5   4 1_ L   6
  352108 051295 13 O 7A2A2  5 189 160  8 12 16 24   3   3   0   3   2 1_ L   4
  352108 051295 13 O 7T2A2  5 189 236  8 12 16 24   4   2   2   5   4 1_ L   4
  352108 051195 13 O 7A2A2  6 191 160 11 20 18 24   1   2   0   2   2 1_ L   3
  352108 051195 13 O 7T2A2  6 191 236 11 20 18 24   2   2   0   2   2 1_ L   3
  352108 051095 13 O 7A2A2  2 188 160 11 13 18 24   1   2   0   1   1 1_ L   2
  352108 051095 13 O 7T2A2  2 188 236 11 13 18 24   1   1   1   3   2 1_ L   2
  352108 050995 13 O 7A2A2 12 200 160 11 14 19 25   1   2   0   2   2 1_ L   1
  352108 050995 13 O 7T2A2 12 200 250 11 14 19 25   3   4   1   6   5 1_ L   1
  352108 050895 13 O 7A2A2  8 200 160  9 13 20 25   2   3   0   2   2 1_ L   2
  352108 050895 13 O 7T2A2  8 193 233  9 13 20 25   4   3   2   6   4 1_ L   2
  352108 050595 13 O 7A2A2 12 200 160 14 22 21 25   0   1   0   0   0 1_ L   0
  352108 050595 13 O 7T2A2 12 162 183 14 22 21 25   0   1   0   0   0 1_ L   0
-------------------------------------------------------------------------------
       F2-Help     F5-Show Keys     F11-Exit     F17-Expanded Display

 ____________________________________________________________________________
Count:  14          v
```

By pressing **<CTRL>** + **<F5>** (**<F17>**) you can display page two of the Display NFDR (Index) form to list additional fields for the weather station. *For A2B or SimPC, press* ***<SHIFT>*** + ***<F5>***.

```
+-------------------------  Display NFDR (Index)  --------------------------+
| (Station ID:  352108 or SIG:  ____ )  Type:  O  Date:  01-MAY-97 15-MAY-97_ |
+-----------------------------------------------------------------------------+
+-----------------------------------------------------------------------------+
|  Expanded Display for Station Id:  352108  Date:  15-MAY-95  Time:  13      |
|                                                                             |
| WDY HRB 1/H 10  HU  TH   x1000 KBDI IC  LR  LO  HR  HO  SC  EC  BI  FL  MC  |
| 186 160 6__ 9__ 15_ 23_  24_   6__  4__ 0__ 0__ 18_ 1__ 2__ 0__ 3__ 2__ 1__ |
|                                                                             |
|                                                                             |
|                                                                             |
|                                                                             |
+-----------------------------------------------------------------------------+
  352108 050995 13 O 7A2A2 12 200 160 11 14 19 25   1   2   0   2   2 1_ L   1
  352108 050995 13 O 7T2A2 12 200 250 11 14 19 25   3   4   1   6   5 1_ L   1
  352108 050895 13 O 7A2A2  8 200 160  9 13 20 25   2   3   0   2   2 1_ L   2
  352108 050895 13 O 7T2A2  8 193 233  9 13 20 25   4   3   2   6   4 1_ L   2
  352108 050595 13 O 7A2A2 12 200 160 14 22 21 25   0   1   0   0   0 1_ L   0
  352108 050595 13 O 7T2A2 12 162 183 14 22 21 25   0   1   0   0   0 1_ L   0
-------------------------------------------------------------------------------
       F2-Help     F5-Show Keys     F11-Exit     F17-Expanded Display

 ____________________________________________________________________________
Count: *0
```

Displaying the Moisture Index form



The Display Moisture (Index) form allows you to track and compare key NFDRS carry over values for a list of observations, including the x1000 live fuel moisture recovery value.

The Moisture Index form makes it easy to compare:

- calculated against measured woody fuel moisture content, if available
- calculated herbaceous fuel moisture content against the calculated one-hour timelag fuel moisture
- fuel moistures for the 1-hour, 10-hour, 100-hour, 1000-hour indices and the x1000 live fuel moisture recovery value.

To access the Display Moisture (Index) form

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

Moisture (DIDM) form

```
+--------------------  Display NFDR Moisture (Index)  ------------------------+
| (Station ID:  ▒_____ or SIG:  ____ )  Type:  _  Date:  18-MAY-97___________ |
+-----------------------------------------------------------------------------+
  Station  Obs  O       WDY MEAS HRB 1HR 10H 100 1000 X1000 SN GREEN        W
     ID    Date T MSGC  FM  W FM  FM  FM  FM  FM  FM    FM  CD GR SH  KBDI   F
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
   ______ ______ _ _____ ___ ___ ___ __  __  __  __    __  _  __ __   ___   _
 -----------------------------------------------------------------------------

       F2-Help     F5-Show Keys     F11-Exit     F17-Expanded Display
 Info:  Previous selection criteria has been retrieved._______________________
Count: *0                                                        <List>
```

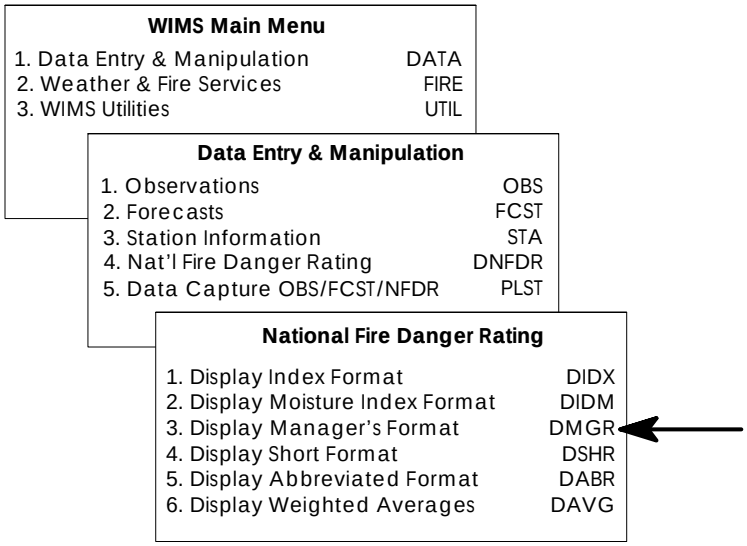
Moisture (DIDM) field definitions

Field	Brief description
MSGC	fuel Model, Slope class, Grass type, and Climate class
WDY FM	calculated live woody fuel moisture content
MEAS W FM	measured live woody fuel moisture content
HRB FM	calculated herbaceous fuel moisture content
1 HR FM	calculated one-hour timelag fuel moisture content
10H FM	measured or calculated 10-hour timelag fuel moisture content
100 FM	calculated 100-hour timelag fuel moisture content
1000 FM	calculated 1000-hour timelag fuel moisture content
X1000 FM	calculated live fuel moisture recovery value
SN CD	season code (for 1988 fuel models only)
GREEN GR	greeness factor - herbaceous (for 1988 fuel models only)
GREEN SH	greeness factor - shrub (for 1988 fuel models only)
KBDI	Keetch-Bryam Drought Index

W F	Wet Fuels

For more information about NFDRS components, see Appendix E, ‘‘NFDRS technical reference.’’

Displaying the Manager's form



The Display NFDR (Manager) form allows you to display several fire weather variables for regular and special observations and forecasts, including a partial list of NFDRS information.

In addition to some of the key fields displayed on the index form, the manager's form also lists:

- Dry Bulb Temperature
- Dew Point Temperature
- Relative Humidity
- total precipitation
- accumulated hours of precipitation.

To access the Display NFDR (Manager) form

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

Manager's (DMGR) form

```
+-------------------------  Display NFDR (Manager)  -------------------------+
| (Station ID:  ▒_____ or SIG:  ____ )  Type:  _  Date:  18-MAY-95___________ |
+-----------------------------------------------------------------------------+
Station  Obs  Ob O
  ID     Date Tm T  MSGC DBT DPT WS RH  PPAMT PD 1H 10  IC  SC  EC  BI  FL SL R
______ ______ __ _ _____ ___ ___ __ ___ _____ __ __ __ ___ ___ ___ ___ ___ __ _
______ ______ __ _ _____ ___ ___ __ ___ _____ __ __ __ ___ ___ ___ ___ ___ __ _
______ ______ __ _ _____ ___ ___ __ ___ _____ __ __ __ ___ ___ ___ ___ ___ __ _
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______ ______ __ _ _____ ___ ___ __ ___ _____ __ __ __ ___ ___ ___ ___ ___ __ _
------------------------------------------------------------------------------
                     F2-Help     F5-Show Keys     F11-Exit

 Info:  Previous selection criteria has been retrieved._______________________
Count: *0                                                        <List>
```

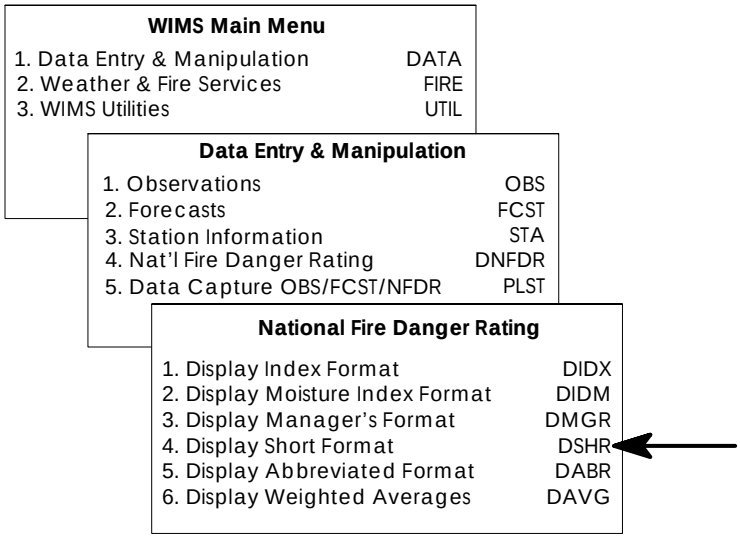
Manager's (DMGR) field definitions

Field	Brief description
MSGC	fuel Model, Slope class, Grass type, and Climate class
DBT	Dry Bulb Temperature
DPT	Dew Point Temperature
WS	Wind Speed
RH	Relative Humidity
PPAMT	Precipitation Amount (24-hour)
PD	Precipitation Duration (24-hour)
1H	calculated one-hour timelag fuel moisture content
10	measured or calculated 10-hour timelag fuel moisture content
IC	Ignition Component
SC	Spread Component
EC	Energy Release Component
BI	Burning Index

FL	Fire Load Index
SL	Staffing Level
R	Rating (adjective fire danger rating)

For more information about NFDRS components, see Appendix E, ‘‘NFDRS technical reference.’’

Displaying the Short form



The Display NFDR (Short) form allows you to query and display several fire weather variables for regular and special observations and forecasts.

The short form includes station information for:

- fuel Model / Slope class / Grass type / Climate class
- total precipitation
- accumulated hours of precipitation
- Staffing Level
- adjective fire danger rating.

To access the Display NFDR (Short) form

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

Short (DSHR) form

```
+-------------------------  Display NFDR (Short)  --------------------------+
| (Station ID:  ▒_____ or SIG:  ____ )  Type:  _  Date:  18-MAY-95___________ |
+-----------------------------------------------------------------------------+
                    Station  Obs  Ob O
                      ID     Date Tm T  MSGC PPAMT  PD SL R
                    ______ ______ __ _ _____ ______ __ __ _
                    ______ ______ __ _ _____ ______ __ __ _
                    ______ ______ __ _ _____ ______ __ __ _
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                    ______ ______ __ _ _____ ______ __ __ _
 -----------------------------------------------------------------------------
                     F2-Help     F5-Show Keys     F11-Exit

  Info:  Previous selection criteria has been retrieved._______________________
 Count: *0                                                        <List>
```
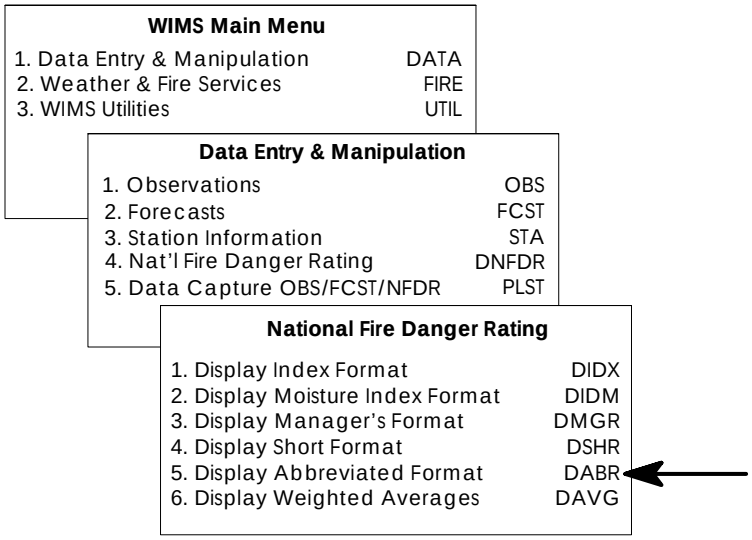

Short (DSHR) field definitions

Field	Brief description
MSGC	fuel Model, Slope class, Grass type, and Climate class
PPAMT	Precipitation Amount (24-hour)
PD	Precipitation Duration (24-hour)
SL	Staffing Level
R	Rating (adjective fire danger rating)

For more information about NFDRS components, see Appendix E, ‘‘NFDRS technical reference.’’

Displaying the Abbreviated form



The Display Abbreviated (DABR) form allows you to query and display an abbreviated version of the Index form for regular and special observations and forecasts. Some key fields listed on the abbreviated form include:

- Lightning Risk
- Spread Component
- Burning Index
- Staffing Level
- Ignition Component
- Energy Release Component
- Fire Load Index
- Adjective Fire Danger Rating.

To access the Display NFDR (Abbrv) form

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

Abbreviated (DABR) form

```
+-------------------------  Display NFDR (Abbrv)  ---------------------------+
| (Station ID:  ____ or SIG:  ____ )  Type:  _  Date:  18-MAY-95___________ |
+-----------------------------------------------------------------------------+
      Station  Obs  Ob O
        ID     Date Tm T  MSGC TH  IC LR LO HR HO  SC  EC  BI  FL SL R
      ______ ______ __ _ ______ __ ___ __ __ __ __ ___ ___ ___ ___ __ _
      ______ ______ __ _ ______ __ ___ __ __ __ __ ___ ___ ___ ___ __ _
      ______ ______ __ _ ______ __ ___ __ __ __ __ ___ ___ ___ ___ __ _
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      ______ ______ __ _ ______ __ ___ __ __ __ __ ___ ___ ___ ___ __ _
      ______ ______ __ _ ______ __ ___ __ __ __ __ ___ ___ ___ ___ __ _
      ______ ______ __ _ ______ __ ___ __ __ __ __ ___ ___ ___ ___ __ _
 -----------------------------------------------------------------------------
                     F2-Help     F5-Show Keys     F11-Exit

  Info:  Previous selection criteria has been retrieved._______________________
 Count: *0                                                        <List>
```
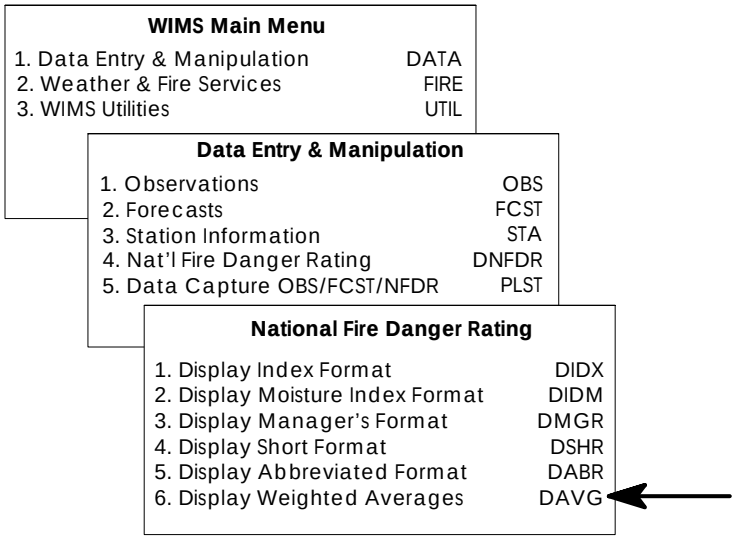

Abbreviated (DABR) field definitions

Field	Brief description
MSGC	fuel Model, Slope class, Grass type, and Climate class
TH	calculated 1000-hour timelag fuel moisture content
IC	Ignition Component
LR	Lightning Risk
LO	Lightning-caused fire Occurrence Index
HR	Human-Caused Risk
HO	Human-caused Fire Occurrence index
SC	Spread Component
EC	Energy Release Component
BI	Burning Index
FL	Fire Load Index
SL	Staffing Level
R	Rating (adjective fire danger rating)

For more information about NFDRS components, see Appendix E, ‘‘NFDRS technical reference.’’

Displaying the Weighted Averages form



Using NFDRS Weighted Average calculations, the Display NFDRS Weighted Averages (DAVG) form combines NFDRS indices from individual stations within a SIG into a single index.

A component weight is a value between 01 and 99 that represents the influence it has in the calculation. The component weight can include factors such as the percent of the total area represented by the station, resource values, historic fire occurrence, and public use patterns. The total component weight for individual stations within a SIG must equal 100.

Use the Edit Weighted Averages (EAVG) report to assign weights to stations within your SIG. For more information, see ''Assigning NFDR weighted averages to your SIG,'' in Chapter 6, ''Working with Station Information.''

For more information about NFDRS weights and weighting factors, refer to Deeming, INT-39.

To access the Display NFDRS Weighted Averages (DAVG) form

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

Weighted Averages (DAVG) form

```
+----------------------- Display NFDRS Weighted Averages ---------------------+
| SIG:  ___          Type:  _          Date:  18-MAY-95                       |
+-------------------------------------------------------------------------------+
                     WS WDY HRB 1H 10 HU TH  IC  SC  EC  BI  FL SL R KBDI
 Weighted Total:     __ ___ ___ __ __ __ __ ___ ___ ___ ___ ___ __ _ ___
                       Station    Observation
                         ID       Time   Type  Weight %
                       ______      __     _      ___
                       ______      __     _      ___
                       ______      __     _      ___
                       ______      __     _      ___
                       ______      __     _      ___
                       ______      __     _      ___
                       ______      __     _      ___
                                   Total Weight:  ___  %
(Region 6 Only Calculations for first models of C, F and G) Current Region:  __
 Precaution Value:   ______   Industrial Fire Precaution Level (IFPL):     __
--------------------------------------------------------------------------------
          F2-Help     F5-Show Keys     F11-Exit     F14-Data Capture

 Info:  Last SIG has been retrieved._____________________________________________
Count: *0                                                          <List>
```

Weighted Averages (DAVG) field definitions

Field	Brief description
WS	Wind Speed
WDY	calculated live woody fuel moisture
HRB	calculated herbaceous moisture content
1H	calculated one-hour timelag fuel moisture content
10	measured or calculated 10-hour timelag fuel moisture content
HU	calculated 100-hour timelag fuel moisture content
TH	calculated 1000-hour timelag fuel moisture content
IC	Ignition Component
SC	Spread Component
EC	Energy Release Component
BI	Burning Index
FL	Fire Load Index
SL	Staffing Level

R	Rating (adjective fire danger rating)
KBDI	Keetch-Byram Drought Index

When you display the Weighted Averages (DAVG) form, WIMS leaves Ignition Component (IC), Spread Component (SC), and Energy Release Component (EC) blank.

How WIMS handles IFPL calculations

The DAVG function in WIMS also calculates Industrial Fire Precaution Level (IFPL) values for stations cataloged in USFS Region 6.

For more information about IFPL calculations, see Appendix E, ''NFDRS technical reference.''

For more information about missing data, see ''More about recalculating NFDRS indices'' also in Appendix E.

NFDRS reference index

Use this NFDRS reference index to locate frequently needed information.

Subject	Publication	Section/Page
System Overview	INT-39	p. 6, Fig. 2
	INT-69 *more detail than INT-39*	
	PWS-GTR-82	
Components and Inputs	PWS-GTR-82	
A. Spread Component	INT-39	p. 28
B. Energy Release Component	INT-39	p. 24
C. Ignition Component	INT-39	p. 26
Indexes and Inputs		
A. Lightning Occurrence Index	INT-39	p. 26
B. Human-caused Fire Occurrence Index	INT-39	p. 9
C. Burning Index	INT-39	p. 24
D. Fire Load Index	INT-39	p. 25
Other System Inputs		
A. Slope Class	INT-39	p. 28
B. Fuel Models	INT-39	p. 25
C. Four Classes of Dead Fuels	INT-39	Appendix A
D. Two Classes of Live Fuels	INT-39	Appendix A
Dynamic Role of Live Fuels in NFDRS	INT-226	
A. Live Fuels - Heat Sink vs. Heat source	INT-226	
B. Annual-Perennial Designation	INT-226	
C. Climate Class	INT-39	Appendix H
	INT-82	2.1.5
D. Greenup	INT-39	Appendix H
	Guideline C	p. 54
E. Curing	INT-39	Appendix H
	Guideline D	
	INT-82	2.1.6
F. Freeze	INT-39	Appendix H
	INT-82	2.1.6
Fuel Model Selection	INT-39	Appendix B
Human-caused Risk	INT-39	Appendix A
MCR Scaling Factor	INT-39	Appendix E
	Guideline A	p. 43

Subject	**Publication**	**Section/Page**
Risk Source Ratios	INT-39 Guideline B	Appendix E
Human-caused Risk Calculation	INT-39 Guideline E INT-39	Appendix E p. 47 p. 65 (Nomogram)
Lightning Risk		
Definition and Terminology	INT-39	p. 26
1. LAL Selection - Observation	INT-39 Table 8	p. 39
- Forecast	INT-39 Table 7	p. 38
2. LRSF - LAL Data Available	INT-39	p. 36
- LAL Data not Available	INT-39	p. 37

For complete information about the publications listed in this NFDRS index, see ‘‘References‘‘ in the back of this guide.