NFIRS 8 - Wildland Fire Module
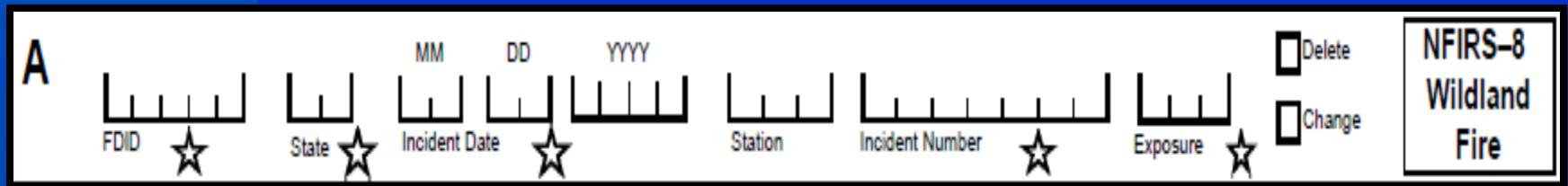
NFIRS 8 - Wildland Fire Module

The optional Wildland Fire Module can be used in place of the Fire Module for the following Incident Types.

140 Natural Vegetation Fire, Other
141 Forest, Woods or Wildland Fire
142 Brush, or Brush & Grass Mixture Fire
143 Grass Fire
160 Special Outside Fire
170 Cultivated Vegetation, Crop Fire, Other
171 Cultivated Grain, Crop Fire
172 Cultivated Orchard or Vineyard Fire

173 Cultivated Trees or Nursery Stock Fire
561 Unauthorized Burning
631 Authorized Controlled Burning
632 Prescribed Fire

When you see a star ★ the field is required.

A - Header Information

Header information is repeated on all modules.

In an automated system, this information is entered once and imported into all modules.

B - Alternate Location Specification

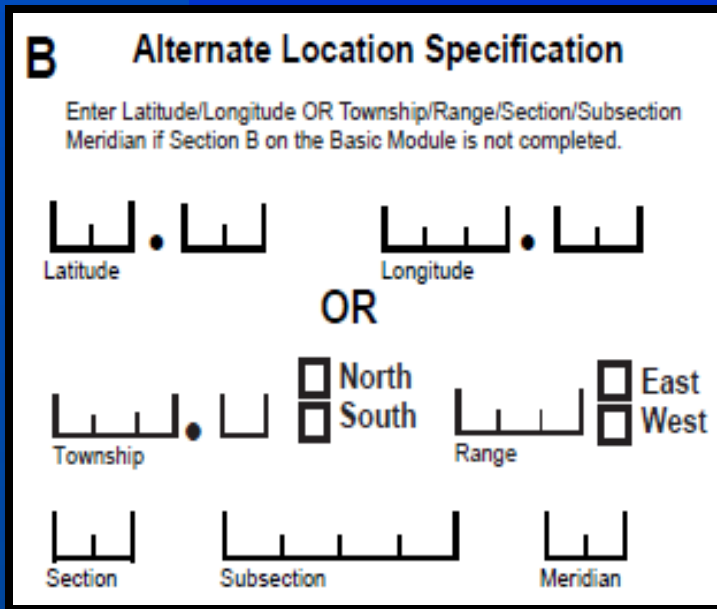**Alternate Location Specification**

B Enter Latitude/Longitude OR Township/Range/Section/Subsection Meridian if Section B on the Basic Module is not completed.

Latitude · Longitude

OR

Township · North / South Range East / West

Section Subsection Meridian

Documents the geographical location of the wildland fire.

Is used in place of Section B of the Basic Module (NFIRS-1) when traditional addressing methods are not suitable.

C - Area Type

Area Type ☆

C
1 ☐ Rural, farms >50 acres
2 ☐ Urban (heavily populated)
3 ☐ Rural/Urban or suburban
4 ☐ Urban-wildland interface area

This is a general description of the area where the wildland fire occurred.

D$_1$ - Wildland Fire Cause

D$_1$ Wildland Fire Cause ☆

1	☐ Natural source	8	☐	Misuse of fire
2	☐ Equipment	0	☐	Other
3	☐ Smoking	U	☐	Undetermined
4	☐ Open/Outdoor fire			
5	☐ Debris/Vegetation burn			
6	☐ Structure (exposure)			
7	☐ Incendiary			

Provides for the broadest classification of ignition causes consistent with the "General Fire Causes" adopted by the National Wildfire Coordinating Group (NWCG).

D$_2$ - Human Factors Contributing to Ignition

Human Factors Contributing to Ignition ☆ ☐ None
D2
Check as many boxes as are applicable.

1 ☐ Asleep
2 ☐ Possibly impaired by alcohol or drugs
3 ☐ Unattended person
4 ☐ Possibly mentally disabled
5 ☐ Physically disabled
6 ☐ Multiple persons involved
7 ☐ Age was a factor

Provides several options to record human factors that contributed to the ignition of a fire.

D$_3$ - Factors Contributing to Ignition

The contributing factors that allowed the heat source and combustible material to combine to ignite the fire.

D$_4$ - Fire Suppression Factors

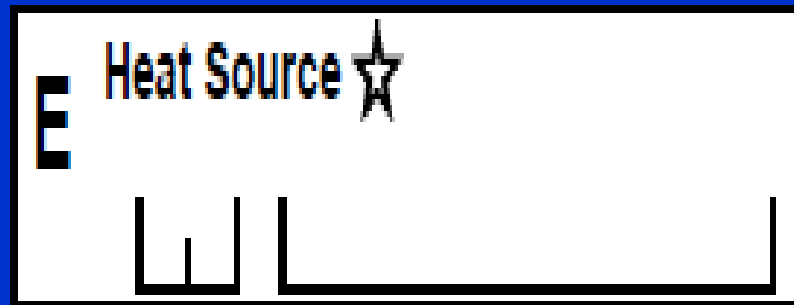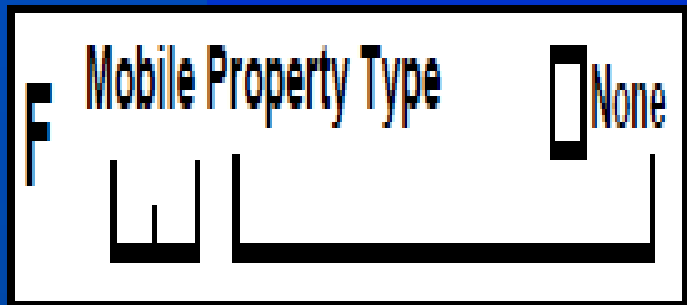**Documents the factors or conditions that affected fire suppression efforts or fire management strategy.**

E - Heat Source

Heat Source ☆
E

The specific source of the heat energy that started the fire.

F - Mobile Property Type

Mobile Property Type ☐ None

F ⌐⌐ ⌐⌐⌐⌐⌐⌐⌐

Used to document if mobile property failed, was used improperly, or provided the heat that caused the ignition.

Refers to property that is designed to be mobile.

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G - Equipment Involved in Ignition

Documents the equipment that provided the principle heat source to cause the ignition.

NFDRS Weather Station Identification

Weather Information

H

NFDRS Weather Station ID

Weather Type
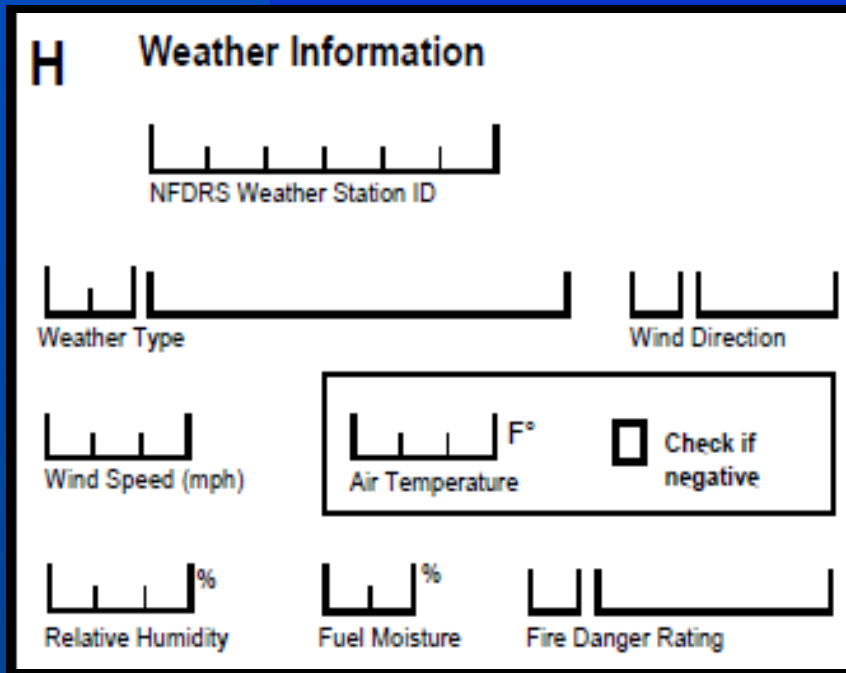
Wind Direction

Wind Speed (mph)

Air Temperature   F°   ☐ Check if negative

Relative Humidity %

Fuel Moisture %

Fire Danger Rating

Records the ID number for the NFDRS Weather Station that monitors weather conditions at the location of fire origin.

Weather Type

The general description of weather conditions at the time and location of fire origin.

Wind Direction & Speed

Weather Information

H

NFDRS Weather Station ID

Weather Type   Wind Direction

Wind Speed (mph)   Air Temperature F°   ☐ Check if negative

Relative Humidity %   Fuel Moisture %   Fire Danger Rating

The direction the wind was blowing and the speed of the wind at the location of fire origin.

Temperature & Relative Humidity

Weather Information

H

NFDRS Weather Station ID

Weather Type

Wind Direction
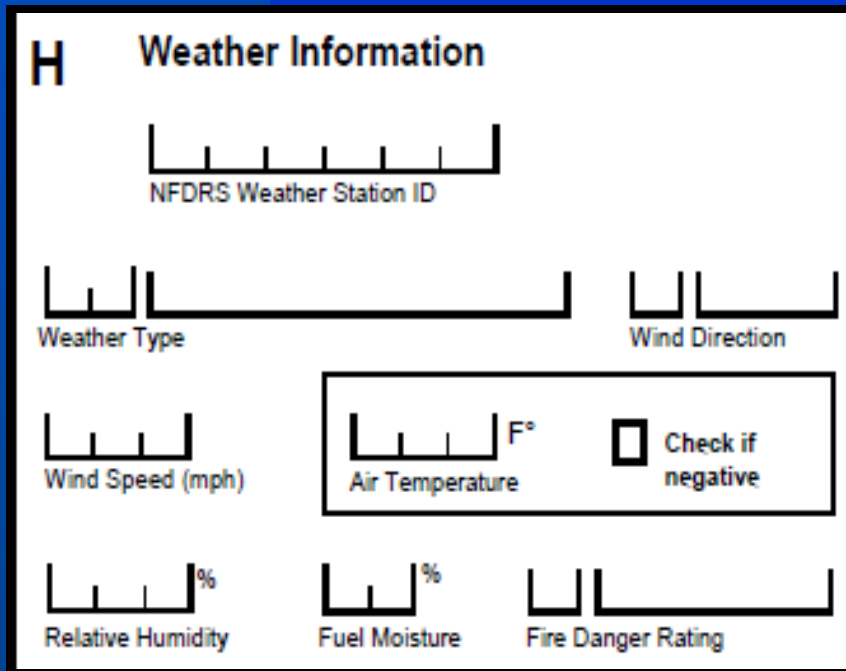
Wind Speed (mph)

Air Temperature F°

☐ Check if negative

Relative Humidity %

Fuel Moisture %

Fire Danger Rating

Records the ambient air temperature and the relative humidity at the time and location of fire origin.

Fuel Moisture

The ten-hour reading of the moisture content of a fuel stick taken in the general area of the fire origin.
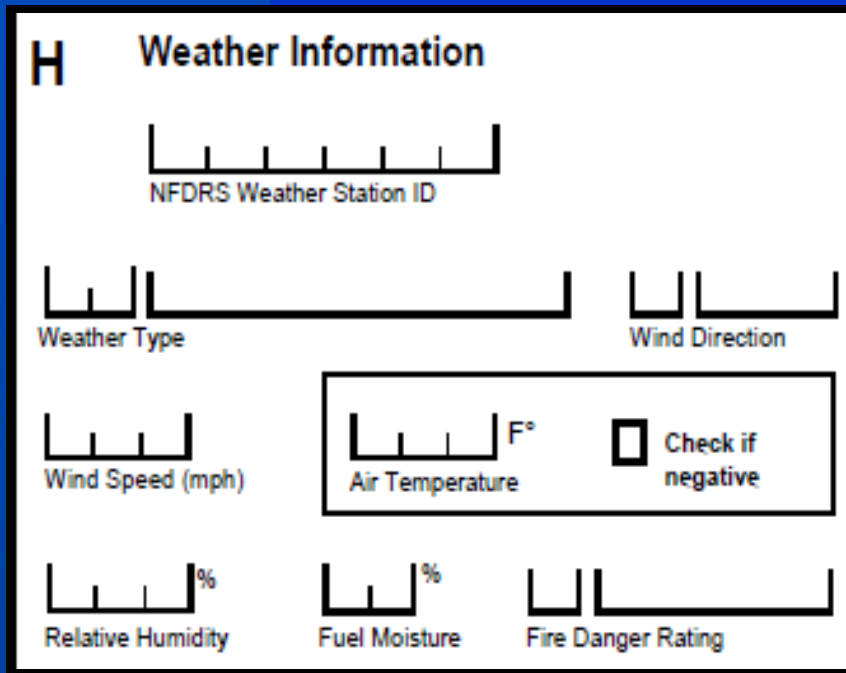
Fire Danger Rating
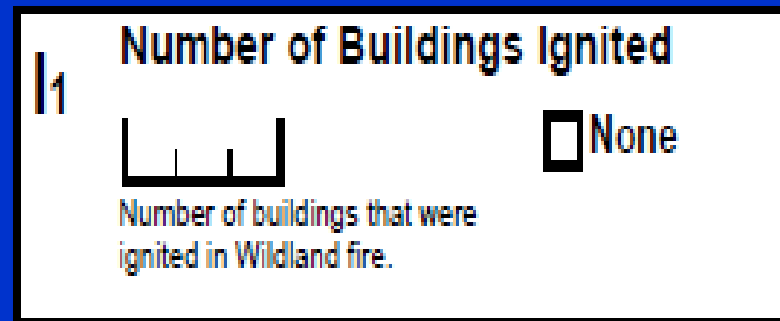

Refers to one method of describing the wildfire threat in a particular area, based on the NFDRS.

I_1 - Number of Buildings Involved

Number of Buildings Ignited

I_1

Number of buildings that were ignited in Wildland fire.

☐ None

**Records the number of buildings, if any, that were ignited in the wildland fire.**

I$_2$ - Number of Buildings Threatened

Number of Buildings Threatened

I$_2$

☐ None

Number of buildings that were threatened by Wildland fire but were not involved.
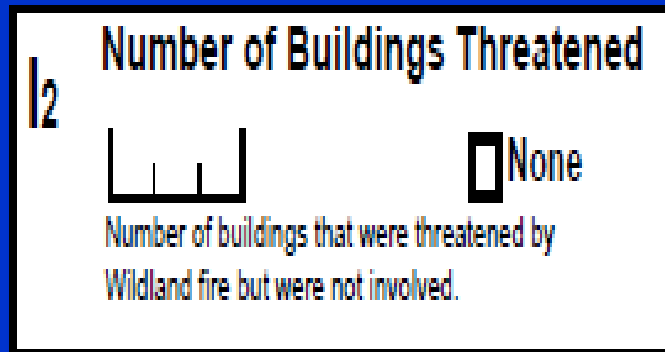
Records the number of buildings, if any, that were threatened, but not involved in the wildland fire.

I$_3$ - Total Acres Burned

Total Acres Burned

I$_3$
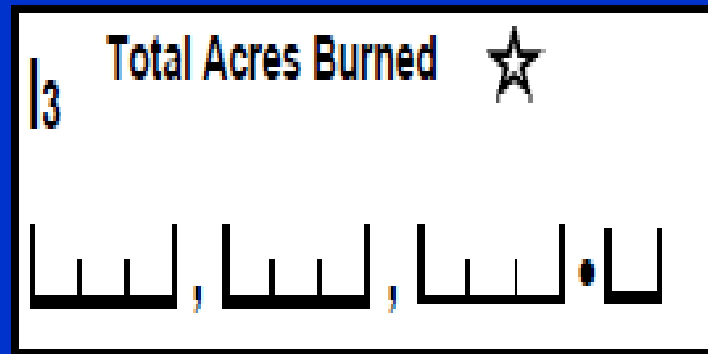
Records the estimated number of total acres burned by the wildfire.

I$_4$ - Primary Crops Burned

Primary Crops Burned

I4

Identify up to 3 crops if any crops were burned.

Crop 1

Crop 2

Crop 3

Identifies up to three types of crops that burned.

The crop with the most acres burned should be listed first.

J - Property Management

The percentage of total acres burned for each type of ownership involved and the entity having responsibility for the property where the fire originated.

Total percent should equal 100%.

Handbook page 10-35

K - Fuel Model at Origin

K NFDRS Fuel Model at Origin

Enter the code and the descriptor corresponding to the NFDRS Fuel Model at Origin.

Identifies the NFDRS fuel model that best describes the type of vegetation burned at the point of origin.

Handbook page 10-50

L$_1$ - Person Responsible for Fire

L$_1$ Person Responsible for Fire

1 ☐ Identified person caused fire
2 ☐ Unidentified person caused fire
3 ☐ Fire not caused by person

If person identified, complete the rest of Section L.

If person is identified, complete the rest of Section L.

Identifies whether or not a person (known or unknown) was responsible for the fire.

L_2 - Gender of Person Involved

L_2 Gender of Person Involved

    1 ☐ Male

    2 ☐ Female

Identifies the gender (sex) of the person responsible for causing the fire.

L$_3$ - Age or Date of Birth of Person Responsible

L$_3$ Age or Date of Birth

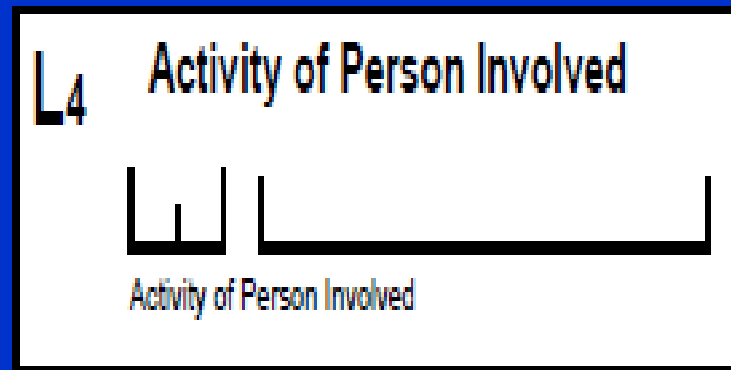Age in Years   Date of Birth

[   ]   OR   [   ] [   ] [   ]
                  Month   Day   Year

Identifies the age or date of birth of the person responsible for causing the fire.

L$_4$ - Activity of Person Involved

L$_4$ Activity of Person Involved

Activity of Person Involved

Describes the primary activity of the person responsible for causing the fire.

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M - Right of Way

Type of Right-of-Way

M ☐ None

Required if less than 100 feet.

|__|__| Feet

Horizontal distance from right-of-way

|__|__|__| |__|

Type of right-of-way

The horizontal distance of the point of fire origin from the right-of-way and the description of the right-of-way.

Used only for fires that started on or near a right-of-way.

Handbook page 10-57

N - Fire Behavior

N Fire Behavior

These optional descriptors refer to observations made at the point of initial attack.

| | Feet
Elevation

Relative position on slope

Aspect

| | Feet
Flame length

Chains per Hour
Rate of spread

NFIRS–8 Revision 01/01/07

These optional descriptors refer to observations made at the point of initial attack.

Elevation

Fire Behavior

N

These optional descriptors refer to observations made at the point of initial attack.

|_____| Feet
Elevation

Relative position on slope

Aspect

|____| Feet
Flame length

|_____| Chains per Hour
Rate of spread

NFIRS–8   Revision 01/01/07

The distance from sea level to the wildland fire.

Position on Slope

Fire Behavior

N

These optional descriptors refer to observations made at the point of initial attack.

Feet
Elevation

Relative position on slope

Aspect

Feet
Flame length

Chains per Hour
Rate of spread

NFIRS–8   Revision 01/01/07

This observation indicates the relative position of the fire on a slope at the time of initial attack .

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Aspect

Fire Behavior

These optional descriptors refer to observations made at the point of initial attack.

|__|__|__|__|__| Feet
Elevation

|_|_|_____|
Relative position on slope

|_|_|_____|
Aspect

|__|__| Feet
Flame length

|__|__|__| Chains per Hour
Rate of spread

NFIRS–8   Revision 01/01/07

This observation indicates the general direction that a given slope faces.

Handbook page 10-59   1-33

Flame Length

Fire Behavior

These optional descriptors refer to observations made at the point of initial attack.

Feet
Elevation

Relative position on slope

Aspect

Feet
Flame length

Chains per Hour
Rate of spread

NFIRS–8   Revision 01/01/07

This observation refers to the distance between the flame tip and the midpoint of the flame depth at the base of the flame.

Rate of Spread

Fire Behavior

N

These optional descriptors refer to observations made at the point of initial attack.

⌞_⌜_⌞_⌟_⌞ Feet
Elevation

⌞⌟⌞_____⌟
Relative position on slope

⌞⌟⌞_____⌟
Aspect

⌞__⌟ Feet
Flame length

⌞__⌟ Chains per Hour
Rate of spread

NFIRS–8   Revision 01/01/07

This is a measurement of the approximate rate of forward spread of a fire front, expressed in chains per hour.

Questions?