

Wildland Fire Management Information (WFMI) Weather - Lesson 5: Station

The WFMI Weather module allows users to display the weather data from Remote Automated Weather Stations (RAWS). If the user has edit access to WFMI Weather, there will be links shown on the left and right side of the weather image, as shown below.

Weather



This document describes the Station page, which is accessed by clicking on the Select Station Criteria link and then selecting a station. For more information on how to select a station, see lesson 4.

Station

The Station page displays the station's metadata.

Weather - Station: PIERCE, ID (32374254)			
Name:	PIERCE	Observations	NAMS - Place an Order
State:	ID	Messages	NAMS - Post-trip Update
NESDIS ID:	32374254	Message Detail	NAMS - RAWS Asset Report
NWS ID (WIMS Station ID):	100711	Station Events	NAMS - Update Notes
Agency:	USFS	Metadata Change History	NAMS - Update Route
Region:	01	Print Friendly Description	
Unit:	NEZ PERCE-CLEARWATER	Google Earth	
Last Modified:	03/24/2017 16:36 UTC	Fund Source Cost Accounting	
Last Observation:	04/04/2017 12:52 UTC	Station Metadata History	
Status:	Active	Enable Edit Mode	

PIERCE, ID (32374254)		Current	
General Information		Owner and Maintenance Information	
State:	Idaho	Agency:	USFS
County:	Clearwater	Region:	01
NESDIS ID:	32374254	Unit:	NEZ PERCE-CLEARWATER
NWS ID (WIMS Station ID):	100711	SubUnit:	PIERCE RD

At a quick glance, the upper left side of the Station page shows some basic information about the station, as shown in the example below.

Name:	PIERCE
State:	ID
NESDIS ID:	32374254
NWS ID (WIMS Station ID):	100711
Agency:	USFS
Region:	01
Unit:	NEZ PERCE-CLEARWATER
Last Modified:	03/24/2017 16:36 UTC
Last Observation:	04/04/2017 12:52 UTC
Status:	Active

The Last Modified field shows when something was last changed in the station record. The Last Observation shows the last time data was transmitted from the station and received by WFMI weather. If the field is red colored, the data is not current in WFMI, as show in this example:

Last Observation:	04/04/2017 02:15 UTC
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The upper right side of the Station page has many buttons to view or edit data.

Observations	NAMS - Place an Order
Messages	NAMS - Post-trip Update
Message Detail	NAMS - RAWs Asset Report
Station Events	NAMS - Update Notes
Metadata Change History	NAMS - Update Route
Print Friendly Description	
Google Earth	
Fund Source Cost Accounting	
Station Metadata History	
Enable Edit Mode	

The user can view data, edit station metadata, order sensors and update post-trip documentation, depending on their permission (Role). Not all buttons will be available to all users.

What can I view in WFMI Weather about my station?

The following buttons are available for users with at least view access.

Observations

This page shows the last 24 hours of observations from the station.

Weather - Observations: 04/04/2017 13:35:38 UTC

Summary	Observations
Description	Show the observations for one or more stations. The user can select the stations, time period and output elements. For each observation the user can choose to view the detailed page for the message that produced the observation.
Selection Criteria	<ul style="list-style-type: none"> Time period: 04/03/2017 13:35 (093) UTC - 04/04/2017 13:35 (094) UTC Station: PIERCE, ID (32374254)

PIERCE, ID (32374254)

04/03/2017 13:35 (093) UTC to 04/04/2017 12:52 (094) UTC

Observation Time (UTC)	RNIN inches	WSM mph	WDD degrees	ATF deg. F	RHP %	BVV volts	WDDP degrees	WSMP mph	SRW w/m2	
04/04/2017 12:52:25 (094)	33.86	0.0	11.0	21.0	94.0	12.8	0.0	0.0	0.0	<input type="button" value="Message"/>
04/04/2017 11:52:25 (094)	33.86	0.0	28.0	21.0	95.0	12.9	0.0	0.0	0.0	<input type="button" value="Message"/>
04/04/2017 10:52:25 (094)	33.86	0.0	28.0	22.0	95.0	12.9	6.0	0.0	0.0	<input type="button" value="Message"/>
04/04/2017 09:52:25 (094)	33.86	0.0	124.0	23.0	96.0	12.9	0.0	0.0	0.0	<input type="button" value="Message"/>
04/04/2017 08:52:25 (094)	33.86	0.0	24.0	25.0	12.9	0.0	0.0	0.0	0.0	<input type="button" value="Message"/>

The Change Selection Criteria button allows users to select one or more stations and various time periods of observations.

Click on the blue links at the top of the column to find out more information about the element abbreviations (example, RNIN is the data element abbreviation for rain accumulation, measured in inches).

Messages

The Messages summary shows the messages from DCS (Data Collection System) Administration and Data Distribution System (DADDS) for this station.

Weather - Messages: 04/04/2017 13:51:34 UTC

Summary	Messages
Description	Show the messages for one or more stations. The user can select the stations, time period and message type. For each message the user can choose to view the detailed page for that message.
Selection Criteria	<ul style="list-style-type: none">Time period: 04/03/2017 13:51 (093) UTC - 04/04/2017 13:51 (094) UTCStation: PIERCE, ID (32374254)

Change Selection Criteria

Transmit Time (UTC)	Failure Code	Signal Strength	Frequency Offset	Modulation Index	Data Quality	Channel Received	GOES Spacecraft	Uplink Carrier Status	Message Data Length
PIERCE, ID (32374254) <div>Station Page</div>									
04/04/2017 12:52:25 (094)	Good message (G)	44	+0	Normal (N)	Normal (N)	52	W	d1	63
04/04/2017 11:52:25 (094)	Good message (G)	44	+0	Normal (N)	Normal (N)	52	W	d1	63
04/04/2017 10:52:25 (094)	Good message (G)	44	+0	Normal (N)	Normal	52	W	d1	6

This is information about the transmission of data from the station through the Geostationary Operational Environmental Satellite (GOES).

Message detail

This page includes the message header information (as described above) and includes the raw data (Message) from the station.

Weather - Message Detail: PIERCE, ID (32374254) 04/04/2017 13:52:25 UTC		
Step through messages for this station		Older Newer Current
Header		Message
NESDIS ID	32374254	3237425417094135225G44+0NN052Wd100063 ↓↓
Transmit Time (UTC)	04/04/2017 13:52:25 (094)	33.86 ↓↓
Failure Code	Good message (G)	000 ↓↓
Signal Strength	44	034 ↓↓
Frequency Offset	+0	020 ↓↓
Modulation Index	Normal (N)	094 ↓↓
Data Quality	Normal (N)	12.9 ↓↓
Channel Received	52	000 ↓↓
		000 ↓↓
		00004 ↓↓
		0

The user can select previous messages from the station with the Older button.

Station events

This page shows the system events associated with this station.

Weather - Station Events: 04/04/2017 13:58:06 UTC

Summary	Station Events			
Description	Select and display station events			
Selection Criteria	<ul style="list-style-type: none">Time period: 03/04/2017 13:57 (063) UTC - 04/04/2017 13:58 (094) UTCStation: PIERCE, ID (32374254)			

Change Selection Criteria

Event Time (UTC)	Obs/Tx Time (UTC)	Station Event Subtype	Element	Message
PIERCE, ID (32374254) Station Page				
04/01/2017 15:52:31 (091)	04/01/2017 15:52:25 (091)	Maximum number of hours without a change exceeded	Wind Speed MPH (WSM)	The current reading not changed in the last 1
03/31/2017 17:52:30	03/31/2017 17:52:25	Maximum number of hours without a change		The current reading

Station events describe data transmission errors and anomalous events. The events are emailed weekly on Monday, Wednesday, and Friday to the user(s) based on the email list for the station. The user can view station events details on this page without having to wait for one to be emailed. The Change Selection Criteria button can be selected if a longer or shorter set of events are needed.

Metadata change history

All edits/changes to the station metadata are recorded in WFMI Weather, including the data and time, the user who made the change, and what was changed.

Weather - Metadata Change History: 04/04/2017 14:10:22 UTC

Summary	Metadata Change History			
Description	Show the changes made to RAWS station metadata over time			
Selection Criteria	<ul style="list-style-type: none"> Station: PIERCE, ID (32374254) 			

Change Selection Criteria

Modified Time (UTC)	Modified By	Field	From	To
PIERCE, ID (32374254) Station Page				

Use the Change Selection Criteria button to select a longer or shorter history of changes.

Print friendly description

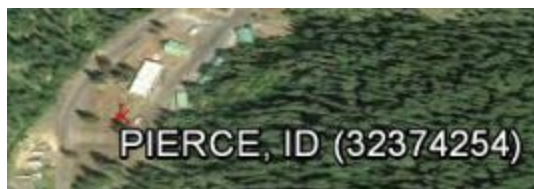
This page displays the station metadata in a format that can be printed.

Weather - Station Description

PIERCE, ID (32374254)		Current
General Information		Owner and Maintenance Information
State:	Idaho	Agency:
County:	Clearwater	Region:
NESDIS ID:	32374254	Unit:
NWS ID (WIMS Station ID):	100711	SubUnit:
Installed Date:	10/01/1985	DADDS Group:
Status:	Active	Field Maintenance Agency:
Category:	Permanent (1)	Maintenance Contract:

Google Earth

This allows the user to create a .kml file showing the location of the station, which may then be saved or opened in Google Earth.



Do I have edit access in WFMI weather for my stations?

If the user has edit access to a station, the following buttons should appear on the Station page.

Enable Edit Mode button

Enable Edit Mode

This button will put the station into edit mode and allow changes to be made to the station's metadata. After selecting Enable Edit Mode, the user can click on the Edit Metadata button. The user can then edit the fields that permission has been granted, based on Role. The Update Station Metadata and Cancel buttons are located at the bottom of the Edit Metadata page. If changes were made to the metadata, a page will display those changes and allows the user to commit (save) the changes or cancel.

National Interagency Fire Center (NIFC) Asset Management System (NAMS)

The WFMI Weather module is linked to NAMS to allow the user to update or request data in NAMS through a WFMI Weather interface. *NAMS ordering and post-trip are discussed in lessons 6 and 7.*

NAMS - RAWS Asset Report

The asset report includes information about the station, including site description, notes, narrative, route, and sensors.

Weather - NAMS - RAWS Asset Report: PIERCE, ID (32374254)

Name:	PIERCE	Agency:	USFS
State:	ID	Region:	01
NESDIS ID:	32374254	Unit:	NEZ PERCE-CLEARWATER
Last Modified:	03/24/2017 16:36 UTC	Status:	Active

Request RAWS Asset Report

E-mail Address:

Enter the e-mail address to which to send the RAWS Asset Report. If you would like the report sent to several email addresses, enter each address in the field above and include a comma between each address, as in the following example:
jdoe@blm.gov, jane_hall@nps.gov, joe.smith@bia.gov

Request RAWS Asset Report

Cancel

One or more email addresses can be entered to receive an asset report.

NAMS - Update notes

This page will allow the user to enter or updates notes about the station.

Weather - NAMS - Update Notes: PIERCE, ID (3237)

Name:	PIERCE	Agency:	USFS
State:	ID	Region:	01
NESDIS ID:	32374254	Unit:	NEZ PERCE
Last Modified:	03/24/2017 16:36 UTC	Status:	Active

Notes:

The Notes page contains site-specific information such as uncommon sensors, lack of standard sensors, special access procedures, precautions, etc. The information within notes is not visible outside of WFMI and can only be seen by user who has edit access to the station. This page also allows the option to email an asset report. Once changes are made, the choice to update notes or cancel is available.

NAMS - Update route

The route contains site-specific information for access to the weather station.

Weather - NAMS - Update Route: PIERCE, ID (3237)

Name:	PIERCE	Agency:	USFS
State:	ID	Region:	01
NESDIS ID:	32374254	Unit:	NEZ PERCE
Last Modified:	03/24/2017 16:36 UTC	Status:	Active

Route:

The instructions for location of the station should be complete so that someone without knowledge of the area can locate the station. This page also allows the option to email an asset report. Once changes are made, the choice to update route or cancel is available.