

US Forest Service
Bureau of Land Management
Bureau of Indian Affairs
National Park Service
Fish and Wildlife Service

Fire Environment Mapping System (FEMS)

Field Sample Database User Guide

Version 2.1

May 21, 2024

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Overview

The Field Sample Database (FSD) is a web-based query system that enables users to view sampled and measured live- and dead-fuel moisture information. The FSD is a module within the Fire Environment Mapping System (FEMS). The system utilizes a database that is routinely updated by fuels specialists who monitor, sample and calculate fuel moisture data.

Purpose of FSD

FSD serves multiple purposes. Firstly, NFMD provides a repository for sampled live- and dead-fuel moisture. Fuel moisture data can now be stored in a database that serves as a national archive of the fuels record. Secondly, it provides a resource for anyone who has a need for fuel moisture data. A national database eliminates the need for multiple requests for data or exhaustive searches for such data, which can often result in little or no success. Thirdly, it allows for easy viewing of the data in formats that are consistent with other applications used in the land management arena.

History of FSD

The idea of a national fuel moisture database arose in late 2001 when the Predictive Services program was in its infancy.

Over time, fuels sampling data became available to Predictive Services. Unfortunately, the data arrived in multiple formats – spreadsheets, web pages, Portable Document Format (pdf), lists and others – which were difficult to synthesize in a coherent fashion. In Fall, 2005, BLM Utah fuels specialists and Eastern Great Basin (EGB) Predictive Services meteorologists analysis and comparison.

In Spring, 2006, EGB introduced the EGB Fuel Moisture Database. During the busy fire season in central Idaho, the EGB database became an indispensable tool for fire behavior specialists working on fires in the area. When the Predictive Services meteorologists from all the Geographic Area Coordination Centers gathered in November 2006, they agreed to develop a national database built on the EGB model. The NFMD is the result.

At a national level NFMD was hosted at the Fire Science Lab in Missoula, Montana. NFMD has existed there, with limited funding form since early 2018.

In the past couple of years, the database has become unstable and required a rebuild in 2023. User access continued to be an issue. In 2022, an effort to modernize and centralize the database to bring the database under the FEMS application was initiated.

At the end of 2023 there was a final push made to complete the FSD Module within FEMS and deploy for the 2024 field season.

The initial release of the Field Sample Database was released in FEMS 2.0 in April 2024.

What's New in FEMS 2.1

Groups:

- Ability to add and edit Sample Groups.

Sites:

- Ability to add and edit Sample Sites.
- Ability to change the status of Sample Sites (Active/Inactive).

Access

The Field Sample Database is accessed through FEMS.

FEMS is an open system available for public viewing.

[FEMS 1.0 \(usda.gov\)](http://FEMS.1.0.usda.gov)

An initial Fire Environment Mapping System (FEMS) account, you will only have general user access. This will allow access to view fuel moistures through the “Tables” tab.

IMPORTANT: Assigned higher roles are needed to enter fuel sample data and those roles can be granted through your Area Editor or Group Editor, once initial training is completed.

Area editor leads will be responsible for training local Group Editors and Sample Site Collectors.

As training is completed, Field Sample Collectors may be granted roles through the geographic area lead in FEMS to allow them to enter data.

When sufficient training has been completed, role requests will be managed through iNAP.

Until field sample roles are granted users will not be able to enter fuel sample data.

Requesting Access – **This Feature is not available at this time.**

Role Access is requested through iNAP.

Request application access and roles

Requesting application access will result in a request to iNAP.

Application access	Instance
FEMS-Fire Environment Mapping System	TEST
Request application roles for FEMS - TEST	
<input type="checkbox"/> FEMS Admin <input type="checkbox"/> FEMS Tester <input type="checkbox"/> Field Sample AREA Editor <input type="checkbox"/> Field Sample Collector <input type="checkbox"/> Field Sample GROUP Editor <input type="checkbox"/> Fire Danger Editor <input checked="" type="checkbox"/> General User (default)	
Enter the contact who can validate your need to access this application. <ul style="list-style-type: none"> • You CAN NOT validate yourself. • Agency employees: enter manager or supervisor. • Contractors: enter your government contracting office personnel. 	
<input type="checkbox"/> Use existing contact Contact's first name <input type="text"/> Contact's last name <input type="text"/> Job title <input type="text"/> Phone number <input type="text"/> Ext (optional) <input type="text"/> E-Mail <input type="text"/>	

Save **Cancel**

Roles and Definitions

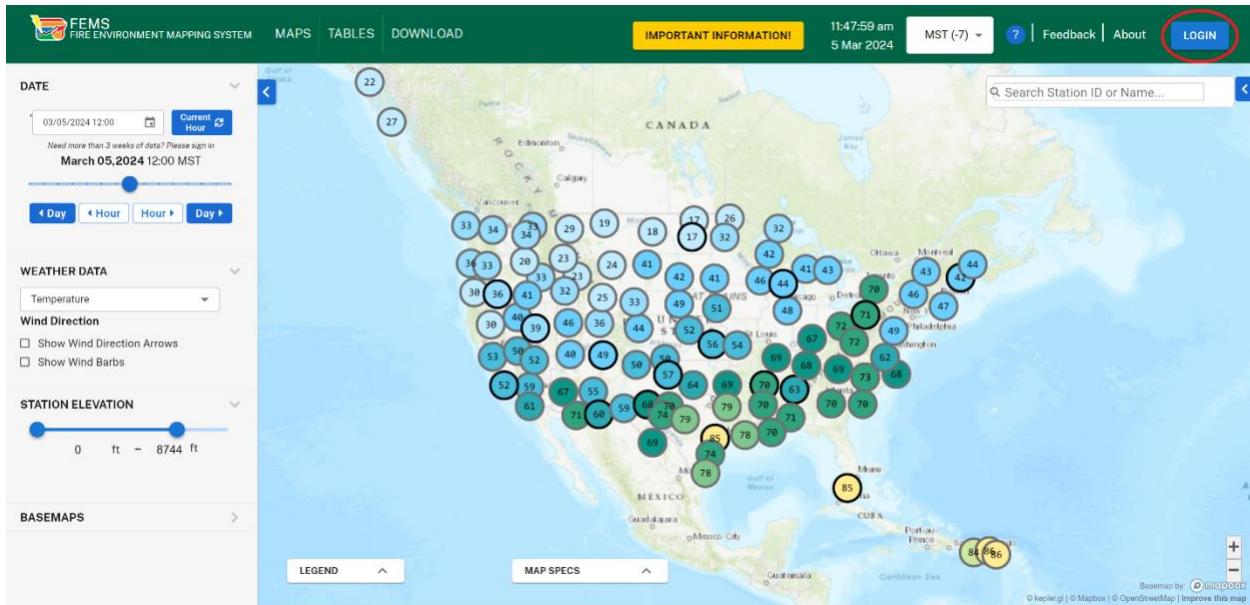
- Field Sample Collector
 - Enters and edits Fuel Moistures
- Field Sample Group Editor
 - Can enter and edit Fuel Moistures
 - Creates and edits Field Sample Sites
 - Creates and edits Field Sample Groups
- Field Sample Area Editor
 - Can enter and edit Fuel Moistures and Sample Sites
 - Creates and edits Field Sample Groups
 - Creates and edits Field Sample Areas

Request access for the role that fits your needs.

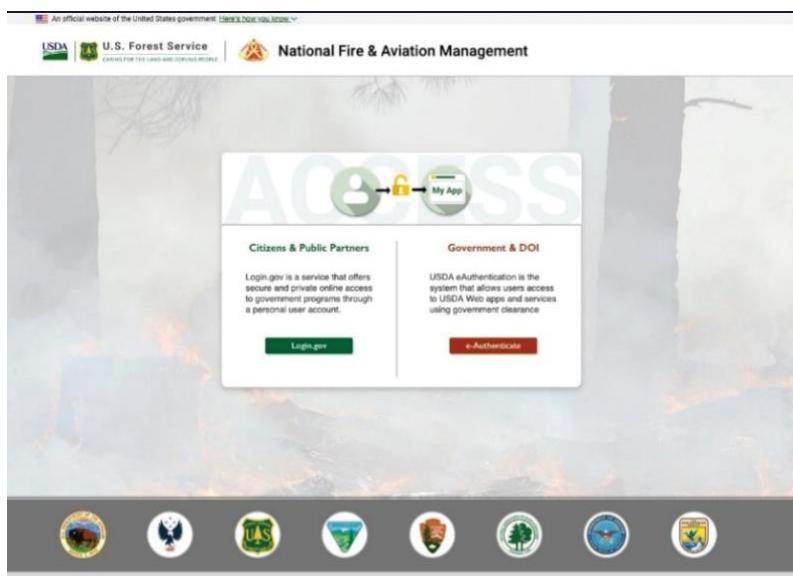
You will be required to list a contact. You cannot list yourself.

Home Screen

Click on the “LOGIN” button.



A popup box will appear:



There are two paths of authentication: e-Authentication (eAuth) and Login.gov.

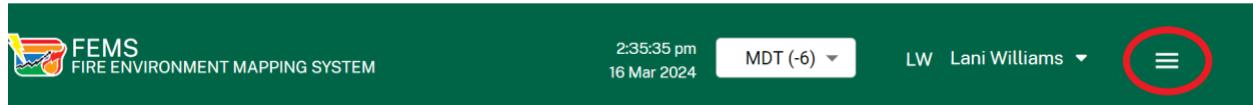
Once authenticated, there are two (2) possible banner views, dependent upon screen size:

Tabs across the top:

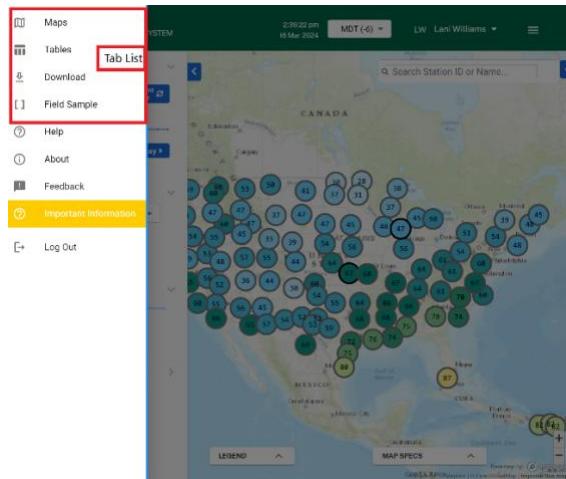


If the user is working on a narrow screen, the tabs will be found in a dropdown.

1. Click on the icon in the far left to display the dropdown:



2. A list of tabs will be displayed:



Click on the “Field Sample” tab:

Field Sample can be filtered by Area (GACC), Group Status (Active, Inactive, All) or Group. Buttons to add Areas, Groups and Sites are available based on roles. Greater functionality will be released in the future.

Ability to edit Areas and Groups and add Sites is currently available.

Field Samples

Area	Group Status	Groups	Area Name ↑	Area Editor(s)	Group Status
All	All	All	Alaska	Eric Miller	Active
> INTERAGENCY		Bryan Daigle, Tony	Eastern Area	Stephen Marien	Active
> ACADIA NP		Michael Matmiller, Steven	Eastern Area	Stephen Marien	Active
> CHEQUAMEGON-NICOLET NF		Nick Mouhaan, Jennifer	Eastern Area	Stephen Marien	Active
> HIAWATHA NF		Jeremy Kolaks, Logan	Eastern Area	Stephen Marien	Active
> HOOSIER NF					

Program Administration

Field Sample Area Editor

Adding, and Editing Field Sample Groups is a role that is assigned to the **Field Sample Area Editor**.

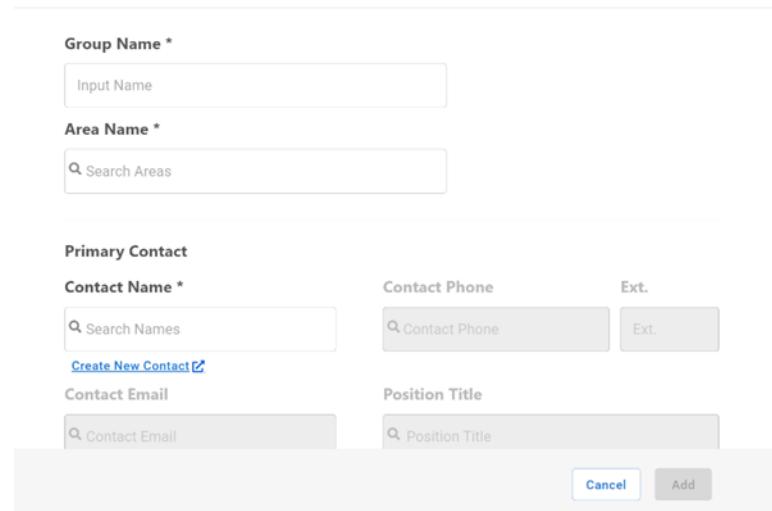
To Add a Field Sample Group:

1. Sign into FEMS and proceed to the Field Sample tab.
2. Click on the “Add a Group” button:

Area	Group Status	Groups	ADD AN AREA	ADD A GROUP	ADD A SITE
All	All	All			
> INTERAGENCY		Alaska		Eric Miller	Active
> ACADIA NP		Eastern Area		Stephen Marien	Active
> CHEQUAMEGON-NICOLET NF		Eastern Area		Stephen Marien	Active
> CHIPPEWA-SUPERIOR NF		Eastern Area		Stephen Marien	Active
> HIAWATHA NF		Eastern Area		Stephen Marien	Active
> HURON-MANISTEE NF		Eastern Area		Stephen Marien	Active
> IA-DNR		Eastern Area		Stephen Marien	Active
> MI-DNR		Eastern Area		Stephen Marien	Active

3. A popup box will appear.

Add a Group



Group Name *

Area Name *

Primary Contact

Contact Name *

[Create New Contact](#)

Contact Email

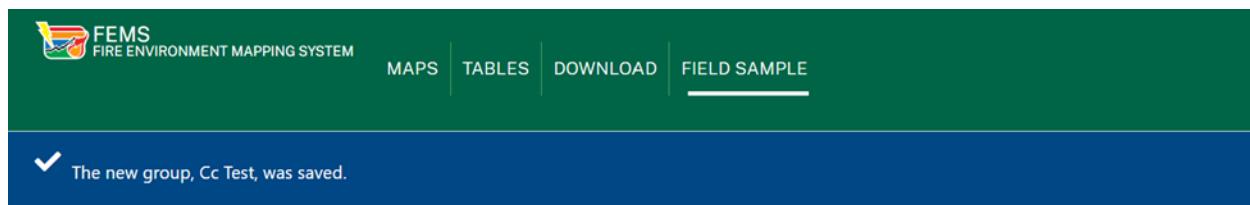
Contact Phone

Ext.

Position Title

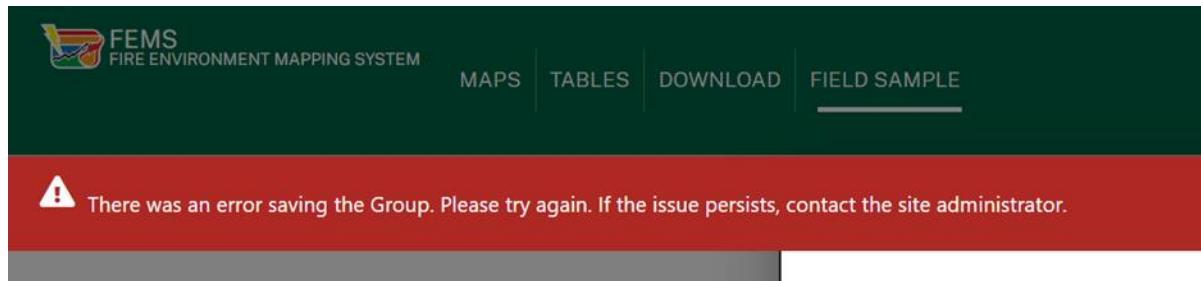
Add

4. Complete the required fields.
 - a) Select “Area Name” from the dropdown list.
 - b) More than one contact may be listed.
5. When all information has been entered, click on the Add button.
6. A banner will appear at the top to indicate that a Group has been created.



The new group, Cc Test, was saved.

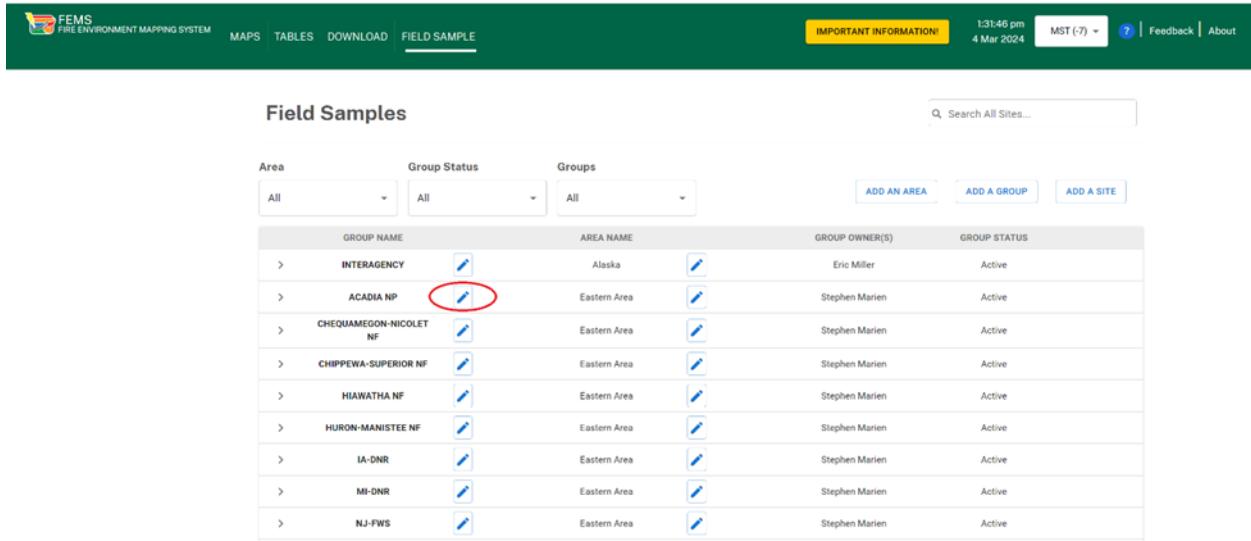
7. Each Group must have a unique name. If a duplicate is attempted a red error banner will appear at the top.



There was an error saving the Group. Please try again. If the issue persists, contact the site administrator.

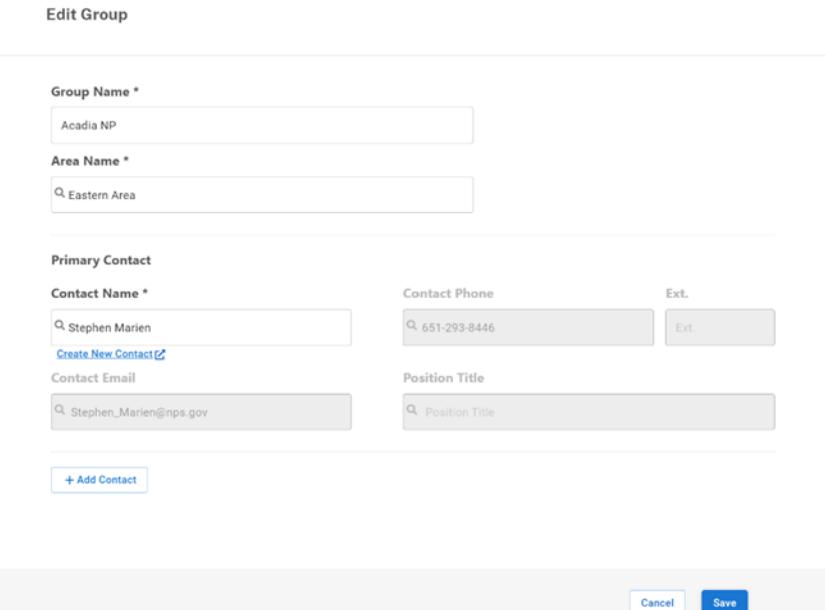
To Edit a Field Sample Group:

1. Select the **Edit link** to the right of the Field Sample Group name.



Area	Group Status	Groups			
All	All	All			
> INTERAGENCY		Alaska		Eric Miller	Active
> ACADIA NP		Eastern Area		Stephen Marien	Active
> CHEQUAMEGON-NICOLET NF		Eastern Area		Stephen Marien	Active
> CHIPPEWA-SUPERIOR NF		Eastern Area		Stephen Marien	Active
> HIAWATHA NF		Eastern Area		Stephen Marien	Active
> HURON-MANISTEE NF		Eastern Area		Stephen Marien	Active
> IA-DNR		Eastern Area		Stephen Marien	Active
> MI-DNR		Eastern Area		Stephen Marien	Active
> NJ-FWS		Eastern Area		Stephen Marien	Active

2. A popup box will appear.



Group Name *
Acadia NP

Area Name *
Eastern Area

Primary Contact

Contact Name *
Stephen Marien

Contact Email
Stephen_Marien@nps.gov

Contact Phone
651-293-8446

Ext.

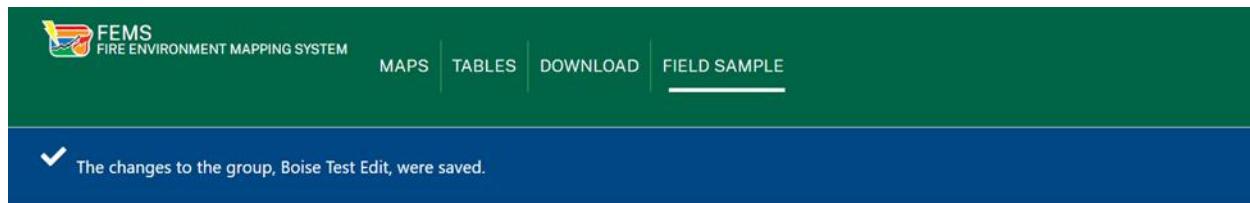
Position Title

+ Add Contact

Cancel Save

3. Edit the requested fields.
 - a. Select “Area Name” from the dropdown list.
4. Additional contacts may be added.

- When finished, click on the Save Changes button to save the information to the database.
- A banner will appear at the top to indicate that a Group has been created.



Field Sample Group Editor

Managing a Field Sample Site

Creating, Editing and Deleting Fields Sample Sites is a role that is assigned to the **Field Sample Group Editor**.

To Add a Field Sample Site:

- Sign into FEMS and Proceed to the Field Sample tab.
- Click on the “Add a Site” button.

GROUP NAME	AREA NAME	GROUP OWNER(S)	GROUP STATUS
INTERAGENCY	Alaska	Eric Miller	Active
ACADIA NP	Eastern Area	Stephen Marien	Active
CHEQUAMEGON-NICOLET NF	Eastern Area	Stephen Marien	Active
CHIPPEWA-SUPERIOR NF	Eastern Area	Stephen Marien	Active
HIAWATHA NF	Eastern Area	Stephen Marien	Active
HURON-MANISTEE NF	Eastern Area	Stephen Marien	Active
IA-DNR	Eastern Area	Stephen Marien	Active
MI-DNR	Eastern Area	Stephen Marien	Active
NJ-FWS	Eastern Area	Stephen Marien	Active
OTTAWA NF	Eastern Area	Stephen Marien	Active

- A popup box will appear.

Add a Site

Site Name*

Latitude* **Longitude***

Elevation*

Remarks

Site Start Date*
 

Agency Landowner*

Group Name*

4. Fill in the required information.
 - a) Remarks should pertain to the site. **Remarks related to the sample will be available in a future release.**
 - b) Agency Landowner – Select from a dropdown – searchable field.
 - c) Group Name – Select from a dropdown – searchable field.
 - d) Area Name – Select from a dropdown – searchable field.
 - e) Status – Select from a dropdown.
 - f) State - Select from a dropdown – searchable field.
5. Be sure to scroll down for additional fields.

Add a Site

Remarks
Enter Remarks

Site Start Date*
Site Start Date

Agency Landowner*
Enter Agency Landowner

Group Name*
Search Group

Area Name*
Search Area

Status*
Active

State *
Search States

Cancel Add

To Edit a Field Sample Site:

A Field Sample Site can either be edited from the data entry table or when viewing the Site Metadata.

Edit from the Data Entry Table:

1. To edit a Field Sample Site, from the data entry table select the **icon** to the left of the Field Sample Group name.

Area: Eastern Great Basin, Group Status: All, Groups: All

ADD AN AREA ADD A GROUP ADD A SITE

GROUP NAME	AREA NAME	GROUP OWNER(S)	GROUP STATUS		
ARIZONA STRIP DISTRICT	Eastern Great Basin	Shelby Law	Active		
ASHLEY NF	Eastern Great Basin	Shelby Law	Active		
BOISE FO	Eastern Great Basin	Shelby Law	Active		
Blackstone	42.44111111111105, 115.88555555555556	5000	Inactive	BLM	
Harriet	42.96722222222226, 115.45604444444444	2706	Inactive	BLM	
Kuna	43.44222222222222, 115.45277777777777	3060	Inactive	BLM	
Smico	43.08033333333334, 115.96450888888889	3000	This site is...	Inactive	BLM
Triangle	42.805, 115.63166666666666	5186	Inactive	BLM	
Wild West	43.87055555555555, 116.7775	2593	Inactive	BLM	
BOISE NF	Eastern Great Basin	Shelby Law	Active		
BRIDGER-TETON NF	Eastern Great Basin	Shelby Law	Active		

2. A popup will appear.

Edit Site

Site Name*	Wild West		
Latitude*	43.8705	Longitude*	-116.7775
Elevation*	2593		
Remarks	Enter Remarks		
Site Start Date*	12/31/2005		
Agency Landowner*	BLM		
Group Name*	Q Boise FO		

3. Make the desired edits.

- a) Remarks should pertain to the site. **Remarks related to the sample will be available in a future release.**
- b) Agency Landowner – Select from a dropdown – searchable field.
- c) Group Name – Select from a dropdown – searchable field.
- d) Area Name – Select from a dropdown – searchable field.
- e) Status – Select from a dropdown.
- f) State - Select from a dropdown – searchable field.

4. Be sure to scroll down for additional fields.

Edit Site

Remarks

Site Start Date*

Agency Landowner*

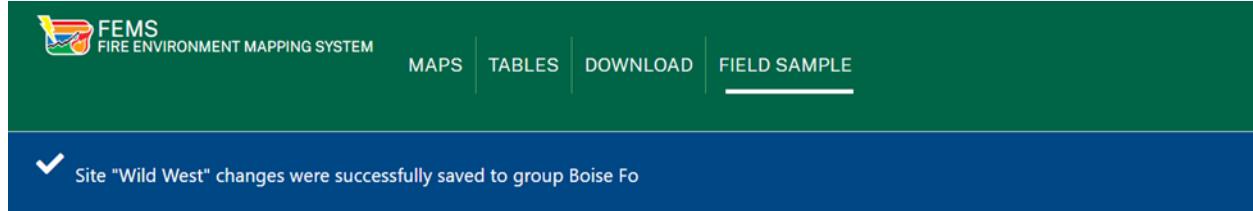
Group Name*

Area Name*

Status*

State *

5. Click on “Save”.
6. A banner will appear at the top to indicate that the Site has been edited.



Edit from Site Metadata:

1. Open the Site by clicking on the site name.

FEMS FIRE ENVIRONMENT MAPPING SYSTEM | MAPS | TABLES | DOWNLOAD | FIELD SAMPLE | [IMPORTANT INFORMATION](#) | 10:59:27 am | 6 Mar 2024 | MST (-7) | [Feedback](#) | [About](#)

Field Samples

Search All Sites...

Area	Group Status	Groups			Add An Area	Add A Group	Add A Site
Eastern Great Ba...	All	All					
GROUP NAME			AREA NAME		GROUP OWNER(S)		GROUP STATUS
> ARIZONA STRIP DISTRICT			Eastern Great Basin		Shelby Law		Active
> ASHLEY NF			Eastern Great Basin		Shelby Law		Active
BOISE FO			Eastern Great Basin		Shelby Law		Active
SITE NAME		LAT/LON	ELEVATION	REMARKS	STATUS	AGENCY LANDOWNER	
Blackstone		42.441111111111105, 115.8855555555556	5000		Inactive	BLM	
Hammett		42.96722222222226, 115.4594444444445	2706		Inactive	BLM	
Kuna		43.4422222222222, 116.4352777777778	3060		Inactive	BLM	
Simco		43.08833333333334, 115.96638888888889	3000	This site is...	Inactive	BLM	
Triangle		42.805, 116.6316666666666	5186		Inactive	BLM	
Wild West		43.870555555555555, 116.7775	2593		Inactive	BLM	
> BOISE NF		Eastern Great Basin		Shelby Law	Active		
> BRIDGER-TETON NF		Eastern Great Basin		Shelby Law	Active		

2. The Site information will display.
3. Click on “Site Metadata”.

Field Sample Home > Kuna

Kuna **SITE METADATA** >

Search All Sites...

Sample Start Date	Sample End Date	Sample Type	Status	Category	Sub-Category	Method
05/17/2023 	05/17/2024 	All 	All 	All 	All 	All 

 Clear Filters 

TYPE	CATEGORY	SUB-CATEGORY	METHOD
> Sagebrush, Wyoming Big	Tree	Not Specified	

4. The Metadata will be displayed.
5. Click on the “Edit Site” button.

Kuna SITE METADATA 

LATITUDE	LONGITUDE	ELEVATION	AGENCY LANDOWNER	REMARKS
43.4422	-116.4353	3060 ft	BLM - Bureau of Land Management	
CREATED DATE	AREA NAME	GROUP NAME	STATE	STATUS
2006-01-01	Great Basin	Boise FO	Idaho	Active

 Edit Site

Sample Start Date Sample End Date Sample Type Status Category Sub-Category Method

05/17/2023 	05/17/2024 	All 	All 	All 	All 	All 
--	--	---	---	---	--	---

[Clear Filters](#) + New Sample

TYPE	CATEGORY	SUB-CATEGORY	METHOD
> Sagebrush, Wyoming Big	Tree		Not Specified 

6. The popup to edit site information will appear.

Edit Site

Site Name*	<input type="text" value="Kuna"/>		
Latitude*	<input type="text" value="43.4422"/>	Longitude*	<input type="text" value="-116.4353"/>
Elevation*	<input type="text" value="3060"/>		
Remarks	<input type="text" value="Enter Remarks"/>		
Site Start Date*	<input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px;" type="text" value="12/31/2005"/> 		
Agency Landowner*	<input type="text" value="BLM - Bureau of Land Management"/>		
Group Name*	<input type="text" value="Boise FO"/>		
Cancel Save			

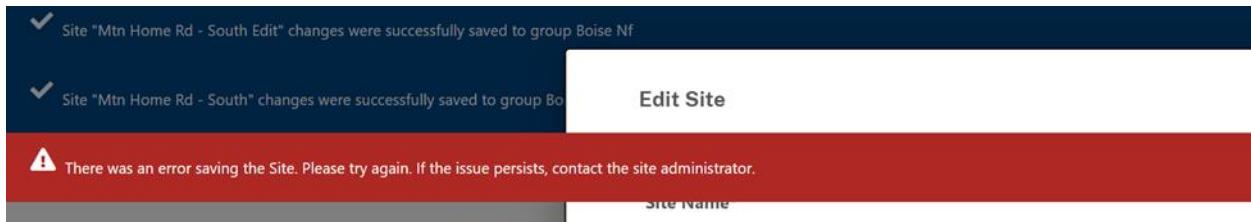
7. After making the desired edits, click “Save”.

- Remarks should pertain to the site. **Remarks related to the sample will be available in a future release.**
- Agency Landowner – Select from a dropdown – searchable field.
- Group Name – Select from a dropdown – searchable field.
- Area Name – Select from a dropdown – searchable field.
- Status – Select from a dropdown.

f) State - Select from a dropdown – searchable field.

8. After making the desired edits, click “Save”.
9. A banner will appear at the top to indicate that the site has been edited.

Error Banner



A red banner across the top may appear to indicate an error when creating or editing a site.

If this occurs – contact the IIA HelpDesk (866-224-7677).

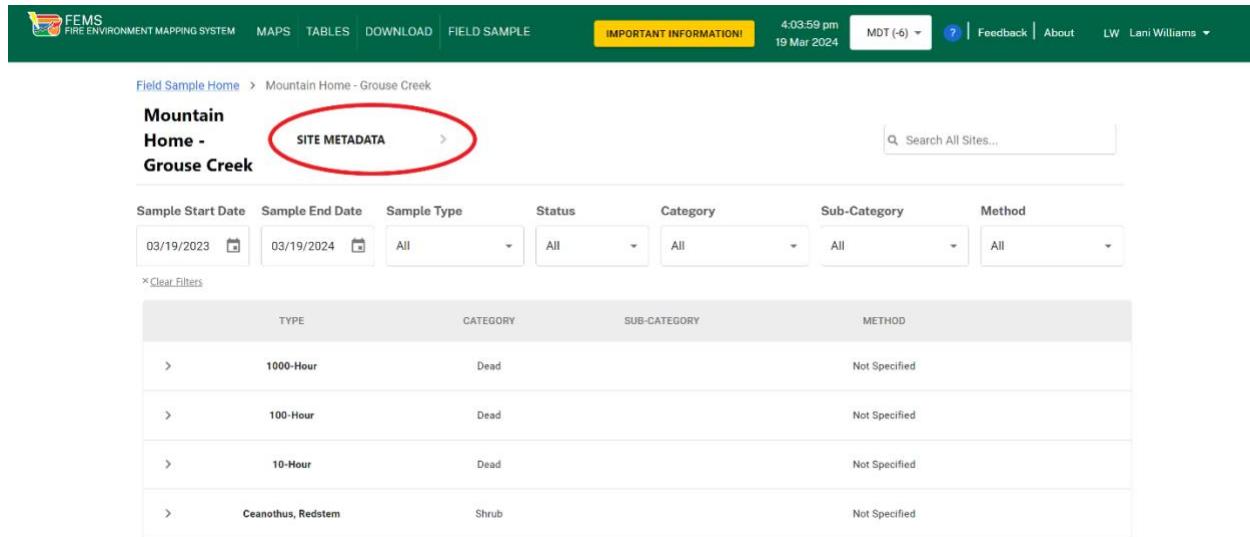
Field Sample Collector

Entering and editing Fuel Moistures is the role of the **Field Sample Area Editor**, Group Editor and Sample Site Collector.

1. Sign into FEMS and Proceed to the Field Sample tab.
2. To edit access Field Sample Site, select the “carrot” to the left of the Field Sample Group name.

GROUP NAME	AREA NAME	GROUP OWNER(S)	GROUP STATUS
INTERAGENCY	Alaska	Eric Miller	Active
ACADIA NF	Eastern Area	Stephen Marien	Active
CHEQUAMEGON-NICOLET NF	Eastern Area	Stephen Marien	Active
CHIPPEWA-SUPERIOR NF	Eastern Area	Stephen Marien	Active
Hog Creek	47.8011, 90.9536	This site is...	Active
Koski	47.8019, 90.8674	Due to poor...	Active
Mid-Gunflint Trail	48.0436, 90.4563	Fuel samples taken...	Inactive
Trappers	47.6216, 91.3347	Samples taken off...	Inactive

3. A dropdown of Field Sample Sites will appear.
4. Click on the name of the Field Sample Site to edit.
5. A new screen will appear.



Field Sample Home > Mountain Home - Grouse Creek

Mountain Home - Grouse Creek

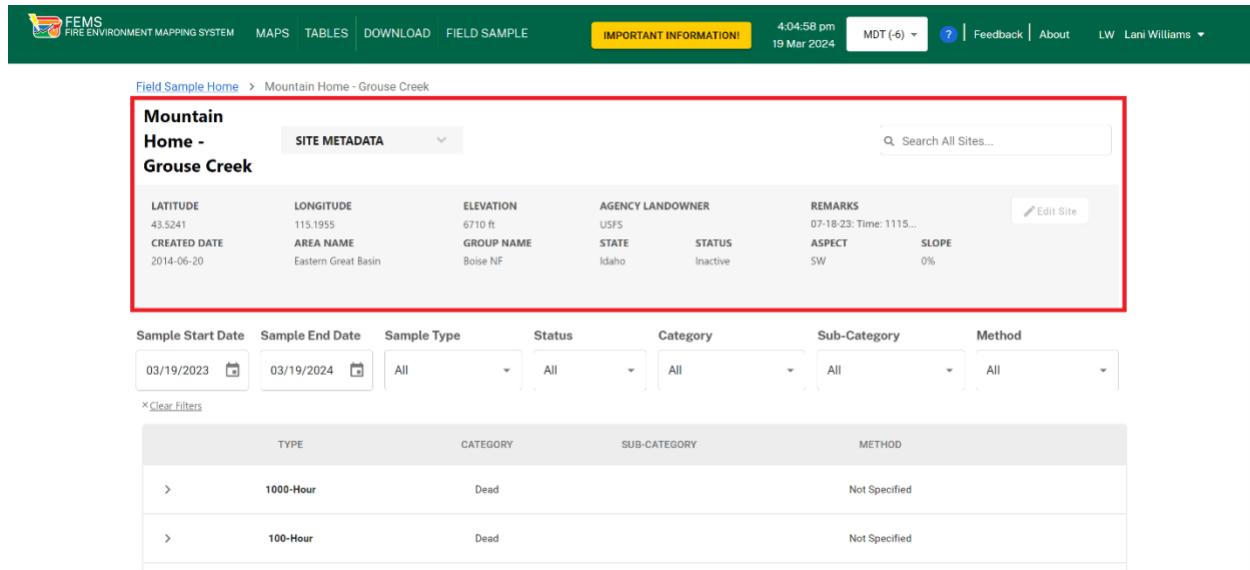
SITE METADATA

Sample Start Date: 03/19/2023 | Sample End Date: 03/19/2024 | Sample Type: All | Status: All | Category: All | Sub-Category: All | Method: All

[Clear Filters](#)

TYPE	CATEGORY	SUB-CATEGORY	METHOD
> 1000-Hour	Dead		Not Specified
> 100-Hour	Dead		Not Specified
> 10-Hour	Dead		Not Specified
> Ceanothus, Redstem	Shrub		Not Specified

6. Click on the carrot to see the Site Metadata.



Field Sample Home > Mountain Home - Grouse Creek

Mountain Home - Grouse Creek

SITE METADATA

LATITUDE: 43.5241 | LONGITUDE: 115.1955 | ELEVATION: 6710 ft | AGENCY LANDOWNER: USFS | REMARKS: 07-18-23: Time: 1115... | [Edit Site](#)

CREATED DATE: 2014-06-20 | AREA NAME: Eastern Great Basin | GROUP NAME: Boise NF | STATE: Idaho | STATUS: Inactive | ASPECT: SW | SLOPE: 0%

Sample Start Date: 03/19/2023 | Sample End Date: 03/19/2024 | Sample Type: All | Status: All | Category: All | Sub-Category: All | Method: All

[Clear Filters](#)

TYPE	CATEGORY	SUB-CATEGORY	METHOD
> 1000-Hour	Dead		Not Specified
> 100-Hour	Dead		Not Specified

Adding Fuel Moistures for Fuel Types being Monitored:

1. Select a Sample Start Date that will include Field Sample data.
2. Fuel moistures may also be filtered by: Sample Type, Status, Category, Sub-Category (New Field) Method.

Field Sample Home > Mountain Home - Grouse Creek

**Mountain
Home -
Grouse Creek**

SITE METADATA >

Search All Sites...

Sample Start Date: 02/05/2023 | Sample End Date: 03/06/2024

Sample Type	Status	Category	Sub-Category	Method
All	All	All	All	All

Clear Filters

+ New Sample

TYPE	CATEGORY	SUB-CATEGORY	METHOD	
> 1000-Hour	Dead		Not Specified	+
> 100-Hour	Dead		Not Specified	+
> 10-Hour	Dead		Not Specified	+
> Ceanothus, Redstem	Shrub		Not Specified	+
> Douglas-Fir	Tree		Not Specified	+

3. A table will populate.
4. Click on the “+” icon to add additional fuel moistures.
5. A popup will appear preloaded to the selected sample type.

New Sample

Type *

1000-Hour

Category *

Dead

Sub-Category

Select Sub-Category

Sample Date & Time *

Select Date & Time



Method

Not Specified

Cancel

New Sample

6. Enter the Sample Date & Time and click on the “New Sample” button.
7. A table will open.
8. Click on “Add Sub-Sample”.

FEMS FIRE ENVIRONMENT MAPPING SYSTEM MAPS TABLES DOWNLOAD FIELD SAMPLE

IMPORTANT INFORMATION! 0:18:49 pm MST (-7) 6 Mar 2024 ? Feedback About LW Lani Williams

Field Sample Home > Mountain Home - Grouse Creek

Mountain Home - Grouse Creek

SITE METADATA

Sample Start Date: 02/05/2024 Sample End Date: 02/06/2024 Sample Type: 1000-Hour Status: Draft Category: Dead Sub-Category: Method: Not Specified

[Clear Filters](#) [+ New Sample](#)

TYPE	CATEGORY	SUB-CATEGORY	METHOD																
1000-Hour	Dead		Not Specified																
<table border="1"> <tr> <th>DATE</th> <th>TIME</th> <th>SAMPLE AVG VALUE</th> <th>STATUS</th> </tr> <tr> <td>02/06/2024</td> <td>16:00 MST</td> <td>0 %</td> <td>Draft</td> </tr> <tr> <td>WET WEIGHT(g)</td> <td>DRY WEIGHT(g)</td> <td>TARE WEIGHT(g)</td> <td>VALUE</td> </tr> <tr> <td colspan="4"> <input type="button" value="+ Add Sub Sample"/> </td> </tr> </table>				DATE	TIME	SAMPLE AVG VALUE	STATUS	02/06/2024	16:00 MST	0 %	Draft	WET WEIGHT(g)	DRY WEIGHT(g)	TARE WEIGHT(g)	VALUE	<input type="button" value="+ Add Sub Sample"/>			
DATE	TIME	SAMPLE AVG VALUE	STATUS																
02/06/2024	16:00 MST	0 %	Draft																
WET WEIGHT(g)	DRY WEIGHT(g)	TARE WEIGHT(g)	VALUE																
<input type="button" value="+ Add Sub Sample"/>																			

Rows Per Page: All | << Back | 1-1 of 1 | Next > >>

9. Enter the sample data.

- Enter weights or value, you cannot enter both.
- Weights are limited to two (2) decimal places.
 - The Sample Average Value will be rounded where necessary.
- When a value has been entered, a “check box” will appear.
- Click on the “check box” to save your sample.
- The “check box” will change to a pencil to for editing icon.

FEMS FIRE ENVIRONMENT MAPPING SYSTEM MAPS TABLES DOWNLOAD FIELD SAMPLE

IMPORTANT INFORMATION! 0:00:07 pm MDT (-6) 27 Mar 2024 ? Feedback About LW Lani Williams

Field Sample Home > Koski

Koski

SITE METADATA

Sample Start Date: 03/21/2024 Sample End Date: 03/22/2024 Sample Type: 10-Hour Status: All Category: Dead Sub-Category: Method:

[Clear Filters](#) [+ New Sample](#)

TYPE	CATEGORY	SUB-CATEGORY	METHOD																				
10-Hour	Dead																						
<table border="1"> <tr> <th>DATE</th> <th>TIME</th> <th>SAMPLE AVG VALUE</th> <th>STATUS</th> </tr> <tr> <td>03/22/2024</td> <td>00:00 MDT</td> <td>0.00 %</td> <td>Draft</td> </tr> <tr> <td>WET WEIGHT(g)</td> <td>DRY WEIGHT(g)</td> <td>TARE WEIGHT(g)</td> <td>VALUE</td> </tr> <tr> <td>Input Weight</td> <td>Input Weight</td> <td>Input Weight</td> <td>8</td> </tr> <tr> <td colspan="4"> <input checked="" type="checkbox"/> <input type="button" value="X"/> </td> </tr> </table>				DATE	TIME	SAMPLE AVG VALUE	STATUS	03/22/2024	00:00 MDT	0.00 %	Draft	WET WEIGHT(g)	DRY WEIGHT(g)	TARE WEIGHT(g)	VALUE	Input Weight	Input Weight	Input Weight	8	<input checked="" type="checkbox"/> <input type="button" value="X"/>			
DATE	TIME	SAMPLE AVG VALUE	STATUS																				
03/22/2024	00:00 MDT	0.00 %	Draft																				
WET WEIGHT(g)	DRY WEIGHT(g)	TARE WEIGHT(g)	VALUE																				
Input Weight	Input Weight	Input Weight	8																				
<input checked="" type="checkbox"/> <input type="button" value="X"/>																							

Rows Per Page: All | << Back | 1-1 of 1 | Next > >>

- If you are finished entering values, click on “Save” and the status will change from “Draft” to “Complete”.
- The “X” will reset the sub-sample.
- The “trash can” will delete the record, if in “Draft”.
 - The ability to view archive data will be available in a future release.

- i. The entry being worked on must be saved for the “+Add Sub-Sample” link to reappear.

The screenshot shows the FEMS interface with the following details:

- Header:** FEMS FIRE ENVIRONMENT MAPPING SYSTEM, MAPS, TABLES, DOWNLOAD, FIELD SAMPLE, IMPORTANT INFORMATION (yellow box), 0:02:42 pm, 27 Mar 2024, MDT (-6) dropdown, Help (blue question mark), Feedback, About, LW, Lani Williams.
- Breadcrumbs:** Field Sample Home > Koski
- Section:** Koski, SITE METADATA
- Search:** Search All Sites...
- Table Headers:** Sample Start Date, Sample End Date, Sample Type, Status, Category, Sub-Category, Method
- Table Data:** Sample Start Date: 03/21/2024, Sample End Date: 03/22/2024, Sample Type: 10-Hour, Status: All, Category: Dead, Sub-Category: (empty), Method: (empty).
- Buttons:** Clear Filters, + New Sample
- Sub-Table Headers:** TYPE, CATEGORY, SUB-CATEGORY, METHOD
- Sub-Table Data:** TYPE: 10-Hour, CATEGORY: Dead, + Add New Sample button.
- Sub-Table Headers (Details):** DATE, TIME, SAMPLE AVG VALUE, STATUS
- Sub-Table Data (Details):** DATE: 03/22/2024, TIME: 00:00 MDT, SAMPLE AVG VALUE: 0.00 %, STATUS: Draft, Submit button.
- Sub-Table Headers (Weights):** WET WEIGHT(g), DRY WEIGHT(g), TARE WEIGHT(g), VALUE, STATUS
- Sub-Table Data (Weights):** WET WEIGHT(g): (empty), DRY WEIGHT(g): (empty), TARE WEIGHT(g): (empty), VALUE: 26, STATUS: Draft, + Add Sub Sample button (circled in red).
- Page Navigation:** Rows Per Page: All, Back, Next, Page Number: 1-1 of 1.

Adding Fuel Moistures for a new Fuel Type:

a. Click on the “+ New Sample” at the top of the table.

Field Sample Home > Mountain Home - Grouse Creek

Mountain Home - Grouse Creek

SITE METADATA

Sample Start Date: 02/07/2023 Sample End Date: 03/08/2024 Sample Type: All Status: All Category: All Sub-Category: All Method: All

[Clear Filters](#) [+ New Sample](#)

	TYPE	CATEGORY	SUB-CATEGORY	METHOD	
>	1000-Hour	Dead		Not Specified	+
>	100-Hour	Dead		Not Specified	+
>	10-Hour	Dead		Not Specified	+
>	Ceanothus, Redstem	Shrub		Not Specified	+
>	Douglas-Fir	Tree		Not Specified	+

b. A popup will appear.

New Sample

Type *

Category *

Sub-Category

Sample Date & Time *

Method

[Cancel](#) [New Sample](#)

c. Fill in the required items.

New Sample

Type *

Category *

Sub-Category

Sample Date & Time *

Method

[Cancel](#) [New Sample](#)

- d. Click on the “New Sample” box.
- e. The table will appear showing the new sample type.
- f. Click on the “+ Add Sub-Sample”.

The screenshot shows the FEMS interface. At the top, there are navigation links: MAPS, TABLES, DOWNLOAD, and FIELD SAMPLE. A yellow bar displays 'IMPORTANT INFORMATION' with the date '6 Mar 2024'. On the right, there are user details: '0:32:31 pm', 'MST (-7)', a help icon, 'Feedback', 'About', and 'LW Lani Williams'. Below this, the main content area shows a table for 'Mountain Home - Grouse Creek' with the following data:

Sample Start Date	Sample End Date	Sample Type	Status	Category	Sub-Category	Method
02/04/2024	02/05/2024	Aspen, Quaking	Draft	Tree		

Below the table, a sub-table for 'Aspen, Quaking' shows sample details:

TYPE	CATEGORY	SUB-CATEGORY	METHOD
Aspen, Quaking	Tree		

Underneath, a detailed row for the sample shows:

DATE	TIME	SAMPLE AVG VALUE	STATUS
02/05/2024	15:00 MST	0 %	Draft

At the bottom, there are buttons for 'Submit' and 'Delete', and a link '+ Add Sub Sample'.

- g. The table will expand to enter the new sample data.

Field Sample Home > Mountain Home - Grouse Creek

Mountain
Home - Grouse Creek

SITE METADATA

Sample Start Date: 02/04/2024 | Sample End Date: 02/05/2024 | Sample Type: Aspen, Quaking | Status: Draft | Category: Tree | Sub-Category: | Method: | [+ New Sample](#)

[Clear Filters](#)

TYPE	CATEGORY	SUB-CATEGORY	METHOD	
Aspen, Quaking	Tree			
DATE	TIME	SAMPLE AVG VALUE	STATUS	
02/05/2024	15:00 MST	0 %	Draft	
WET WEIGHT(g)	DRY WEIGHT(g)	TARE WEIGHT(g)	VALUE	STATUS
Input Weight	Input Weight	Input Weight	Input Weight	Draft

Rows Per Page: All | [Submit](#) | [Delete](#)

h. Enter the sample data.

- Enter weights or value, you cannot enter both.
- Weights are limited to two (2) decimal places.
 - The Sample Average Value will be rounded where necessary.
- When a value has been entered, a “check box” will appear.
- Click on the “check box” to save your sample.
- The “check box” will change to a pencil to for editing icon.

Field Sample Home > Koski

Koski

SITE METADATA

Sample Start Date: 03/21/2024 | Sample End Date: 03/22/2024 | Sample Type: 10-Hour | Status: All | Category: Dead | Sub-Category: | Method: | [+ New Sample](#)

[Clear Filters](#)

TYPE	CATEGORY	SUB-CATEGORY	METHOD	
10-Hour	Dead			
DATE	TIME	SAMPLE AVG VALUE	STATUS	
03/22/2024	00:00 MDT	0.00 %	Draft	
WET WEIGHT(g)	DRY WEIGHT(g)	TARE WEIGHT(g)	VALUE	STATUS
Input Weight	Input Weight	Input Weight	8	Draft

Rows Per Page: All | [Submit](#) | [Delete](#)

- If you are finished entering values, click on “Save” and the status will change from “Draft” to “Complete”.
- The “X” will reset the sub-sample.’
- The “trash can” will delete the record, if in “Draft”.

Field Sample Home > Mountain Home - Grouse Creek

**Mountain
Home -
Grouse Creek**

SITE METADATA

Search All Sites...

Sample Start Date	Sample End Date	Sample Type	Status	Category	Sub-Category	Method
02/05/2024	02/06/2024	1000-Hour	Draft	Dead		Not Specified

[Clear Filters](#) [+ New Sample](#)

TYPE	CATEGORY	SUB-CATEGORY	METHOD
1000-Hour	Dead		Not Specified
DATE	TIME	SAMPLE AVG VALUE	STATUS
02/06/2024	16:00 MST	0 %	Draft
WET WEIGHT(g)	DRY WEIGHT(g)	TARE WEIGHT(g)	VALUE
Input Weight	Input Weight	Input Weight	Input Weight
STATUS			
Draft			

[Submit](#) [Delete](#)

Rows Per Page: All [All](#) [1-1 of 1](#) [Next](#) [>>](#)

[+ New Sample](#)

[Delete](#)

[Edit](#)

- The entry being worked on must be saved for the “+Add Sub-Sample” link to reappear.

Field Sample Home > Koski

Koski

SITE METADATA

Search All Sites...

Sample Start Date	Sample End Date	Sample Type	Status	Category	Sub-Category	Method
03/21/2024	03/22/2024	10-Hour	All	Dead		

[Clear Filters](#) [+ New Sample](#)

TYPE	CATEGORY	SUB-CATEGORY	METHOD
10-Hour	Dead		
DATE	TIME	SAMPLE AVG VALUE	STATUS
03/22/2024	00:00 MDT	0.00 %	Draft
WET WEIGHT(g)	DRY WEIGHT(g)	TARE WEIGHT(g)	VALUE
0.00	0.00	0.00	0.00 %
STATUS			
Draft			

[Submit](#) [Delete](#)

[+ Add Sub Sample](#)

Rows Per Page: All [All](#) [1-1 of 1](#) [Next](#) [>>](#)

[Delete](#)

[Edit](#)