



United States Department of the Interior  
BUREAU OF INDIAN AFFAIRS  
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June 5, 2013

Memorandum

To: All Regional Directors, All Regions  
Attention: Forestry/Fire Management

From: Director, Branch of Wildland Fire Management

Subject: Bureau of Indian Affairs Fuels Treatment Effectiveness Final Guidance

From 2001 through 2012, the Bureau of Indian Affairs (BIA) has accomplished over a million acres of Hazardous Fuels Reduction (HFR) treatments. However, the effects of the hazardous fuels treatment program in reducing wildfire impacts have not been adequately documented. By reporting fuels treatment effectiveness, the BIA and the Interagency community will have data to show how fuels treatments contribute to modifying fire behavior, aid in wildfire management, and may reduce wildfire costs or negative impacts.

This message updates the September 25, 2012 BIA Fuels Treatment Effectiveness Interim Guidance and serves as a reminder of the importance of documenting interactions of wildfires and fuels treatments. An online tool, Fuels Treatment Effectiveness Monitoring (FTEM), has been developed to assist all of the Department of Interior (DOI) Bureaus and the Forest Service in documenting HFR treatment effectiveness and provides a single, interagency, national source to document the interaction of wildfires and fuels treatments. This system provides a simple and easy way for users to enter information about fire weather, fuels, and supporting documentation (e.g., photos, maps) inside and outside treated areas for comparison. This data will be available for use at various levels of the DOI Bureaus and the Forest Service to:

- Answer congressional and Office of Management and Budget (OMB) questions about the effectiveness of the HFR program.
- Establish baseline data to use when making future HFR program decisions.
- Document what we have learned from wildfire events to adjust future HFR treatment prescriptions.
- Verify whether HFR treatments have changed fire behavior.
- Share documentation with Tribal Councils, the Tribal public, and congressional representatives to demonstrate HFR program success.
- Positively impact future budget allocations.

Instructions for accessing the system are found in the attached User Guide for Fuel Treatment Effectiveness v5.1. The FTEM information is intended to supplement the National Fire Plan Reporting and Operating System (NFPORS) and Wildland Fire Management Information (WFMI) Fire Reporting data. Within the FTEM tool, all corresponding Project and Treatment data must be consistent with NFPORS and wildfire information must be consistent with the data recorded in the WFMI system. Wildfire/fuels treatment interactions must be reported in FTEM within 90 days of a wildfire intersecting a fuels treatment.

The FTEM data will be a primary source for the Healthy Forests Restoration Act (HFRA) 5 Year Monitoring Report, a joint effort between the Department of Interior and the USDA Forest Service. The HFRA 5 Year Monitoring Report addresses the question of HFR treatments meeting the objectives they were designed to achieve. Therefore, regions will ensure that, **at a minimum, all wildfires in the last five years (2008-2012) that have intersected with fuels treatments be reported in the FTEM online system.** However, if units would like to include earlier wildfire / fuels treatment intersections, wildfires can be added back to 2003. Regional Fire Ecologists have received direction to assist Agencies and Tribes in updating the FTEM database with past wildfires.

For questions related to the FTEM system, contact William Grauel, National Fire Ecologist, at 208-387-5234, or Kim Kelly Fire Ecologist, Northwest Region, at 503-231-2115.

Attachments

# User Guide for Fuel Treatment Effectiveness

System Version 2.0;

User Guide Version 5.1

DRAFT -- August 27, 2012 -- DRAFT

## Adopted by:

Interagency Fuels Management Committee

## About Fuels Treatment Effectiveness

The impacts of the hazardous fuels treatment program in reducing wildfire impacts has have not been sufficiently demonstrated to satisfy Congress, OMB, and the public. Demonstration of fuels treatment effectiveness is desired to improve the hazardous fuels reduction program and maintain current and future funding levels. The Fuels Treatment Effectiveness Monitoring (FTEM) system is intended to identify the extent which hazardous fuels treatments are affecting the wildland fire environment.

The FTEM system is designed to collect information about when and how fuel treatment activities contribute to mitigating wildfire behavior and assist in managing wildfires. The system will provide reportable data that demonstrates the importance of as well as the need for the Hazardous Fuels Reduction (HFR) program and will document wildfire and fuel treatment interactions.

The purpose of FTEM is to have an interagency, web-based hub to document the occurrence of wildfire and fuels treatment interactions. The system provides a simple and easy way for users to enter information about mitigation efforts fire weather, fuels, and supporting documentation (e.g., photos, maps) inside and outside of fuel treatment areas. This data can then be used for comparison at various levels of the DOI Bureaus and the USDA Forest Service to answer fuels treatment questions, including answering congressional and OMB requests as to the benefits of the multi-million dollar HFR program.

The objective of this data collection system is to provide a central location where documentation can be provided by on-the-ground personnel that describe the effect of fuel treatments on wildfire behavior. It will further provide the ability for fire managers to roll up this data into a single report that shows cumulatively the impacts of the HFR program across agency and interagency boundaries.

Field personnel from the local unit will fill out an online form for each wildfire that intersects with a HFR treatment based on department/bureau policy:

USDA Forest Service (Interim Directive 5140-2012-1):

- Complete a fuel treatment effectiveness assessment on all wildfires which start in or burn into a fuel treatment area that has been completed within the last 10 years (within last 3 years in the Southern Region and other areas designated by regional foresters).
- All fuel treatment effectiveness assessment reports must be submitted within 90 days of control of the fire.

DOI:

- Complete a fuel treatment effectiveness assessment on all wildfires which start in or burn into a fuel treatment area that has been completed and reported accomplishment acres in NFPORS from fiscal year (FY) 2003 to present. It is important that, when filling out this form online, that all corresponding Project and Treatment data is consistent with NFPORS.
- All fuel treatment effectiveness assessment reports must be submitted within 90 days of the wildfire burning into the treatment area.

The reporting form and database is intended to supplement the treatment data found in either the National Fire Plan Reporting and Operating System (NFPORS) or Forest Service Activity Tracking System (FACTS) and wildfire reporting systems, and will apply whenever a wildfire spreads into, or starts within a treatment.

This user guide will assist the user to access and enter the appropriate information into the online FTE form.

# Getting Started

## First Time Users:

### Creating an eAuthentication Account

To use the FTEM system you must obtain a US Department of Agriculture eAuthentication account.

- Forest Service employees should already have eAuthentication account.
- DOI and tribal members go to Appendix A to create an eAuthentication account.

### Requesting Access to the FTEM system

First time users to the FTEM system needs to be granted access by the system administrator.

- All first time users – to gain access to the FTEM system please follow the instruction described in Step 3 of Appendix A.

### Logging Into the FTEM System

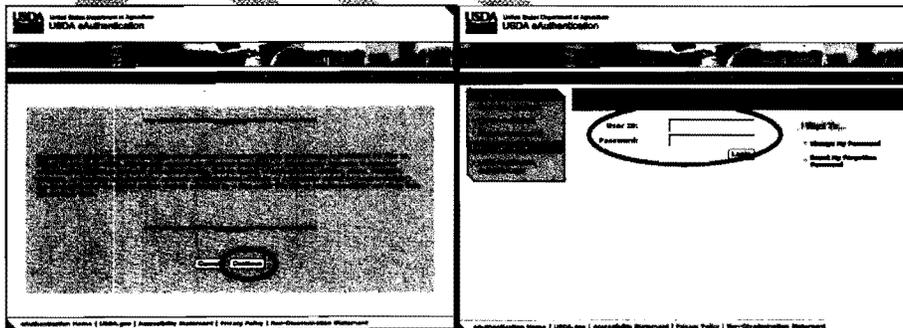
After an individual has completed the e-Authentication process and have been granted permission to use the FTEM system they may now log into the system.

#### 1. Connect to the F.A.M. Portal.

[www.fireportal.usda.gov](http://www.fireportal.usda.gov)

#### 2. Enter your eAuthentication account information

- Select 'Confirm'
- Log in using the 'user ID' and 'password' you established.



#### 3. Select the FTEM System

- Select the Fuel Treatment Effectiveness (FTEM) to get into the system from F.A.M. Portal:

# F.A.M. PORTAL



## Fire and Aviations Management Portal

Application Menu

Change Requests / Bugs



Request Access to a System



Digital Aviation Information (AP/16, DAFIF, FLIP, DVQI)



Fuels Treatment Effectiveness (FTEM)

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## User Privileges

The FTEM system has been setup with three levels of user privileges.

**User** – This is the most common system user with privileges targeting the field level. These privileges allow the following:

1. To enter records
2. To edit/update records that the User created
3. To replicate a record that the User or others have created

**Regional** – This is the next level up from the User privileges and is targeted for Regional or Area level users. These privileges allow the following:

1. All of the privileges a User level person
2. Can edit, replicate, or delete any record in their Region/Area

**National** – This is the highest level and is targeted for Agency leads. These privileges allow the following:

1. All of the privileges of a User and Regional level person
2. Can edit, replicate, or delete any record in their Agency

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## Entering Data

### Getting Started – Selecting your geographic area

The geographic area is the area where you want to enter data for a fuel treatment that was burned by a wildfire or where you want to go to edit existing records (Editing of existing records is limited by user privileges).

The following screen is then displayed:

Welcome to the FTEM System

**About FTEM**  
The effectiveness of our fuel treatment activities is a direct measure of our success in protecting firefighters and the public from wildfires, in reducing the loss of structures and investments, and in documenting the need to continue with our integrated vegetation management program.

The objective of this data collection tool is to provide documentation of the effectiveness of fuel treatments on wildfire behavior or effects. Fill out the form for each wildfire that intersects with a Hazardous Fuels Reduction treatment or was used to help control the wildfire) based on department/bureau policy:

**USDA Forest Service (Interim Directive 5140-2012-1):**

- Complete a fuel treatment effectiveness assessment on all wildfires which start in or burn into a fuel treatment area that has been completed within the last 10 years (within last 3 years in the Southern Region and other areas designated by regional foresters).
- All fuel treatment effectiveness assessment reports must be submitted within 90 days of control of the fire.

**DOI:**

- Complete a fuel treatment effectiveness assessment on all wildfires which start in or burn into a fuel treatment area that has been completed and reported accomplishment area in RFPORS from fiscal year (FY) 2003 to present. It is important that, when filling out this form online, that all corresponding Project and Treatment data is consistent with RFPORS.
- All fuel treatment effectiveness assessment reports must be submitted within 90 days of the wildfire burning into the treatment area.

This form is intended to supplement FACTS/RFPORS data, so please ensure that all corresponding Project and Treatment data is consistent with FACTS or RFPORS.  
Forest Service additional requirement - If the wildfire impacts more than one treatment unit, all treatment units that were affected must be entered into the FTEM system.

Please select

Agency: FS \*

Region/Area: R3 \*

Unit: Gila \*

Subunit: Black Range \* - FS & BLM Oregon only

NEXT

1<sup>st</sup> select the Agency that is reporting the FTE information.

Please select

Agency: FS \*

Region/Area: R3 \*

Unit: Gila \*

Subunit: Black Range \* - FS & BLM Oregon only

NEXT

Next select the Area/Region:

Please select

Agency: FS \*

Region/Area: R3 \*

Unit: Gila \*

Subunit: Black Range \* - FS & BLM Oregon only

NEXT

Next select the Unit:

FS select your Forest;

DOI select Unit as represented in NFPORN

BIA – Agency

BLM – District, Unit, or Zone

FWS – Refuge or WME

NPS – Park, Monument, Recreation Area, River, Seashore, or Historic Site

Please select

Agency: FS \*

Region/Area: R3 \*

Unit: Gila \*

Subunit: Black Range \* - FS & BLM Oregon only

NEXT

And finally select the sub-unit:

FS select your District;

Please select

Agency: FS \*

Region/Area: R3 \*

Unit: Gila \*

Subunit: Black Range \* - FS & BLM Oregon only

NEXT

DOI this entry is not required, so leave blank:

Please select

Agency: NPS \*  
 Region/Area: Intermountain Regional Office \*  
 Unit: Grand Canyon National Park \*  
 Subunit: \* - FS & BLM Oregon only

NEXT

Except for BLM – Oregon/Washington:

Please select

Agency: BLM \*  
 Region/Area: Oregon \*  
 Unit: Burns \*  
 Subunit: Andrews \* - FS & BLM Oregon only

NEXT

Once the Location information has been added hit NEXT and the system will take you to the LIST Tab (see below)

The screenshot shows the FTEM system interface. At the top, there is a navigation bar with 'HOME', 'LIST', 'REPORTS', and 'QUIT'. Below this, the page title is 'FTEM: List'. There is a link for 'ADD NEW RECORD'. The main content area is titled 'Search results' and contains a table with the following columns: Agency, Area, Unit, Subunit, Treatment unit, Wildfire, Burn date, and Options. The table lists several test records for the BLM Oregon Burns Andrews subunit, including treatments like 'TEST\_MLs', 'TEST\_Min', 'TEST', 'TEST -- Demo\_1', and 'TEST -- Demo\_2'.

Agency	Area	Unit	Subunit	Treatment unit	Wildfire	Burn date	Options
BLM	Oregon	Burns	Andrews		TEST_ML	08/07/2012	Replicate
BLM	Oregon	Burns	Andrews	TEST_MLs	TEST_Min	08/07/2012	Replicate
BLM	Oregon	Burns	Andrews		TEST	08/01/2012	Replicate
BLM	Oregon	Burns	Andrews	Test	TEST	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	Test Min - No Wildfire Number	Test	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	No Wildfire number	Test	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	NO Treatment Type	TEST	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	Test No Treatment Data	TEST	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	Test_2	Test -- Demo_1	08/01/2012	Replicate
BLM	Oregon	Burns	Andrews	Test Wildfires	Test -- Demo_1	08/01/2012	Replicate

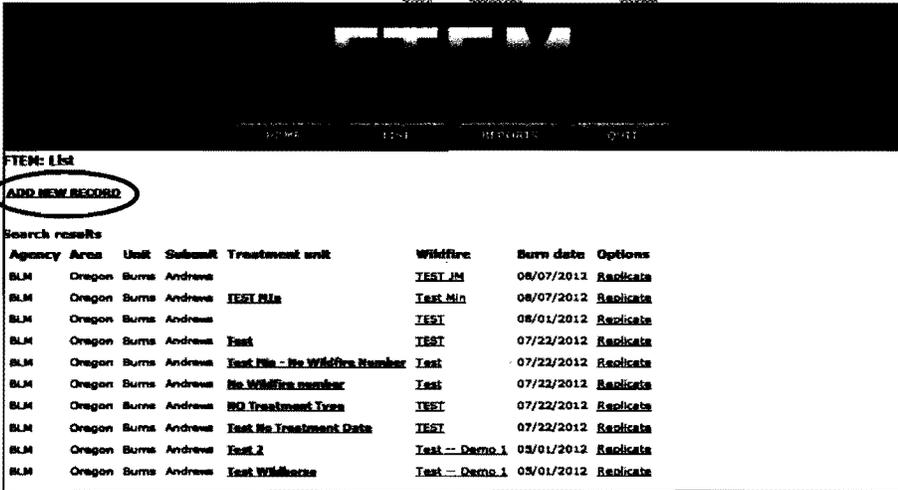
The LIST tab is used to:

- **ADD a NEW RECORD**
- **Replicate** an Existing – Used when a wildfire burns into more than one treatment unit/area
- Review a Record that has been entered
  - Select the highlighted/hyperlink **Treatment Unit** or **Wildfire** name.
- Edit an Existing Record
  - Records can be only edited by the person who entered it or by users with Regional /National privileges
  - To edit a record just select the highlighted/hyperlink **Treatment Unit** or **Wildfire** name. Make the changes in the form and hit **Save**.

The LIST tab only list records you have entered. To get a complete list of records for your Agency, Area, Unit and Subunit go to the REPORTS tab.

**Add an New Record & Data Definitions**

Select ADD NEW RECORD from the LIST tab.



The FTE data screen will then be available for you to enter information:

Users should enter information in the online form based on their agency direction. The fields noted with an asterisk (\*) are required fields. The non-required fields help support the hazardous fuels program by helping leadership evaluate the effectiveness of the program and to document and share Lessons Learned.

Forest Service:

- User are required to enter the required fields designated by an asterisk (\*)
- Users are encouraged to enter some or all of the non-required fields. List below is an order of importance that is also based on the time to acquire the information:
  - Treatment Name and Time Wildfire Entered the Treatment
  - The rest of the Treatment Effects questions (strategically located and contributed to control).

- o Dominant Fire Spread Inside and Outside the Treatment
- o Attachments – Any additional info
- o Fuel model and Flame lengths Inside and Outside the Treatments
- o FACTS ID
- o Fuel Moistures & Weather Conditions

**DOI:**

- Users are required to enter the required fields designated by an asterisk (\*)
- Should enter all available information

The data entered on this screen will not be saved unless you enter the required fields and select the “Save” button. If you click the back arrow, or any of the tabs at the top of the screen, your data will not be saved. If required fields are missing or data entered improperly, an error message will appear.

Warning – This system times out in 15 minutes for security reasons. If you have not clicked on the “Saved” button within 15 minutes of entering data, your data entry will be lost. If you have not finished entering data within these 15 minutes, use the “Update” tab to continue entering information.

**Contact Information**

**Phone Number:** Please enter your phone number. This is used if there are any follow-up questions about the data entered.

Your **Name** is transferred from your log in access information when requesting access to the FTEM system.

**Location Information**

This information is entered when selecting the area where the wildfire intersected with the fuel treatment.

If you want to enter data for another area, select the “Home” tab at the top of the screen, and start over.

**Wildfire Information**

Please enter the following **Wildfire Information** fields with information that is consistent with your agency wildfire reporting system as listed below.

Forest Service: Individual Fire Report Form FS-5100-29  
 (<https://fam.nwcg.gov/fam-web/>)

BLM: WFMI (<https://www.nifc.blm.gov/cgi/WfmiHome.cgi>)

BIA: WFMI (<https://www.nifc.blm.gov/cgi/WfmiHome.cgi>)

NPS: WFMI (<https://www.nifc.blm.gov/cgi/WfmiHome.cgi>)

FWS: FMIS (<https://intranet.fws.gov/fmis>)

Enter the **Wildfire Name**

Enter the **Wildfire Number**

Enter the **Wildfire Size** – This is the final size in acres.

DOI Agencies enter the **Wildfire Lat/Long** of the wildfire by using either the starting point (as record in your agency wildfire system) or approximate center location of the wildfire/fuel treatment intersection. Lat/Longs should be entered in **Decimal Degrees**, in NAD 83, and Longitude should be negative.

Decimal Degree = Degrees.(Sum of Minutes/60 + Seconds/3600)

For example: -115 ° 45' 35" would be -115.75972 = -115.(45/60 + 35/3600 )

Enter the **Date the Wildfire entered the treatment**. Use the drop down box. This should be the date that the wildfire intersected the fuels treatment for which you are recording information.

Enter the **Approximate Time the Wildfire entered the treatment**. Please enter in military time. This should be the approximate time the wildfire intersected the fuels treatment for which you are recording information.

### **Fuels Treatment Information**

Obtain detailed information about the fuel treatment for which you are recording information by going to NFPORS for the DOI Agencies or FACTS for the Forest Service.

#### **Forest Service - FACTS tab**

Forest Service employees have the ability to automatically enter all their Fuel Treatment Information from FACTS by using the FACTS tab.

If you know your FACTS SUID then use the process outlined in this section. If you don't know your FACTS SUID then proceed to the next section: **NFPORS/FACTS Information**.

Select the **FACTS** tab.

**FTEM: Add**  
 \* = required field

Contact Information: James Menzies, Phone: \_\_\_\_\_

Treatment and wildfire intersection details: \_\_\_\_\_

To use the FACTS link, enter the FACTS SUID in the FACTS tab and hit GO.

**FTEM: FACTS**

The FACTS tab is for Forest Service employees to help populate the fuel treatment information in the FTEM data form directly from the Forest Service Activity Tracking System (FACTS). A secure link between the two systems has been established to pass information for a specific treatment. The intent with this first link is to save user time in entering data already stored in FACTS.

To use the FACTS link...

- Select the area where the fuel treatment effectiveness interaction took place by going to the HOME tab and selecting the Agency, Area/Region, Unit and Subunit and hit SAVE.
- Next select this FACTS tab and enter the FACTS SUID. For the link to work, it has to be the complete SUID.  
 If the FACTS link works the FTEM system will bring you to a FTEM: ADD new record page and the following fields will be populated:  
 FACTS ID  
 Treatment Name  
 Treatment Type (last one entered into FACTS)  
 Treatment Date (last one recorded into FACTS)  
 Wildfire/Fuel Treatment Lat/Long
- Check this information and if something is incorrect or missing you must correct this in the FACTS system. Data entered or changed in FTEM will not be passed back to the FACTS system.
- Complete the remaining information for the FTEM record and click on the Save button.

Please enter the FACTS ID (SUID)

The Lat/Long, FACTS ID (filled in with the SUID), Treatment name, Treatment type, and Treatment date will be pulled in from FACTS.

Wildfire/Fuel treatment lat/lon:

Date wildfire entered treatment: \_\_\_\_\_

Military time (approximate) wildfire entered treatment: \_\_\_\_\_

Fuel Treatment Information

NFPORS or FACTS ID:

Treatment name:

Treatment type:

Treatment date:

Treatment acres burned by wildfire: \_\_\_\_\_

Check information. If correct, then move on to entering **Treatment acres burned by wildfire** below. If incorrect, then correction should be made to the FACT systems. Data entered into the FTEM system does not feed back to FACTS.

**NFPORS/FACTS Information**

Enter the NFPORS or FACTS ID:

Forest Service enters the Facts ID (FACT\_ID) and Sub Unit (SUB\_UNIT) fields from FACTS, when appropriate (see below).

In this example, enter: RMLTST0612000

DOI Agencies enter the seven digit number Treatment ID (ACT\_TRT\_ID) in NFPORS. This field is required for DOI Agencies. If there is no NFPORS ID, enter XXXXXX.

If the wildfire burned into more than one NFPORS or FACTS ID treatment, please enter each unit as a new record into the FTEM database by using the Replicate button in the LIST tab after you have finished enter this record. See Replicate, Edit, and Delete Records below.

Enter the **Treatment Name**:

Forest Service enter the activity unit name (UNIT\_NAME) found in FACTS (see below).

Region	Forest	District	FACTS ID	Name
02	03	03	ROBBIN ST0012	ROBBINS TEST UNIT

Subunit	Name
<input type="radio"/> TST	ROBBINS SECOND SUB UNIT
<input checked="" type="radio"/> 000	ROBBINS TEST UNIT

Ownership: FS    \*Feature Type:  
\*State: SD    \*Proc Forest: 0203  
Prod Class:    Land Use Class:  
Slope (%):    Elevation in feet:

DOI Agencies enter the treatment name (ACT\_TRT\_NM) found in NIPORS.

Treatment Details

ACT\_TRT\_NM: ROBBINS TEST UNIT

Treatment Type: [Dropdown Menu]

Select the **Treatment Type** from the dropdown menu (see list below).

Forest Service:

- Select the closest activity description (ACTIVITYSHORTDESCRIPTION) found in FACTS. If there are no descriptions that come close, select Others and list the treatment in the **Comments** sections.
- If the area had more than one treatment, select only the **LAST** treatment that occurred.

- If additional treatment history is needed, add additional treatments type, date treated, and treatment size in the **Comments** section.

DOI Agencies:

- Select the type identical to the recorded treatment type found in NFPORS (TREATMENT TYPE). If the area had more than one treatment, select the treatment that contributed the most to fire behavior modification.
- If area had more than one treatment type, DOI recommends you record additional treatments information (treatment type and treatment year) in the **Comments** section.

<b>Select the Appropriate Treatment Type used by Your Agency</b>		
<b>Treatment Types</b>	<b>FS</b>	<b>DOI</b>
Biological	X	X
Biomass Removal	X	X
Broadcast Burn	X	X
Chemical	X	X
Chipping	X	X
Crushing	X	X
Grazing	X	X
Hand Pile	X	X
Hand Pile Burn	X	X
Jackpot Burn	X	X
Lop and Scatter	X	X
Machine Pile	X	X
Machine Pile Burn	X	X
Mastication	X	X
Mowing	X	X
Other	X	X
Past Wildfire (WFU or Resource Obj.)*	X	X
Seeding		X
Thin and Burn	X	
Thinning	X	X

\*WFU = Wildfire Use; Resource Obj. = Wildfire managed with Resource Objectives

Enter the **Treatment Date** (month and year) completed that corresponds to the Treatment Type above, by using the dropdown menu. If needed, use the **Comments** section to provide additional details.

- Forest Service - This should be identical to the Date Complete (DATE\_COMPLETED) field in FACTS
- DOI Agencies - This should be identical to the recorded actual completion date (ACT\_CMP\_DT) field in NFPORS.

Enter the **Acres of treatment burned by wildfire**. If the treatment was used for suppression actions, please enter a zero and explain in the **Comments** section.

### Attachments

Upload any documents, maps, photos, GIS shape files, etc. you might want to include in the FTEM database. If upload information is identical for a previously entered record for the same wildfire, then please include a note in the **Comments** section describing the record that has the upload files.

### Fuel Moisture Conditions

For all fuel moisture percentages and weather observations **at the time the wildfire intersected the treatment area** (or observation nearest to the time the fire intersected the treatment area). Information should be either from the nearest weather station or from weather observations taken on site. If a weather station is used; indicate the name and RAWS station number used in the **Comments** section.

Select the estimated **1 hour** fuel moisture percent from the dropdown menu (see below).

- 1-5
- 6-10
- 11-15
- 16-20
- 20+

Select the estimated **10 hour** fuel moisture percent from the dropdown menu (see below). Leave this field blank if no 10 hours fuels existed in the treatment area.

- 1-5
- 6-10
- 11-15
- 16-20
- 20+

Select the estimated **100 hour** fuel moisture percent from the dropdown menu (see below). Leave this field blank if no 100 hours fuels existed in the treatment area.

- 1-5
- 6-10
- 11-15
- 16-20
- 20+

Select the estimated **1000 hour** fuel moisture percent from the dropdown menu (see below). Leave this field blank if no 1000 hours fuels exist in the treatment area.

- 1-5
- 6-10
- 11-15
- 16-20
- 20+

Enter the **Live fuel moisture** percent (single value or range) if measurements/estimates are available from on-site or the local area that would be representative of woody/herbaceous fuels in the treatment/wildfire.

Select the live fuel moisture **Sample type** used to determine **live fuel moistures** from the dropdown menu (see below).

- Woody
- Herbaceous

Select the **Measured/Estimated** used to determine the **Live fuel moisture** from the dropdown menu (see below):

- M – *for Measured*
- E – *for Estimated*

### **Weather Conditions when Fire Entered Treatment**

For all fuel moisture and weather observations **at the time the wildfire intersected the treatment area** (or observation nearest to the time the fire intersected the treatment area). Information should be either from the nearest weather station or from weather observations taken on site. If a weather station is used, indicate the name and RAWS station number used in the **Comments** section.

Select the weather **Observation source** from the dropdown menu (see below):

- Local – *Offsite observation when measured away from wildfire*
- On Site – *Site observation when measured on wildfire*
- Station Observation – *RAWS or other official weather station*

Select the weather **Observation date** (month, day, year) from the dropdown menu. Ideally this will be the same date as when the fire entered the treatment.

Select the **ERC percentile** from the dropdown menu (see below):

- Less than 90%
- 90 - 97%

- Greater than 97%

Enter the **Wind speed** (single value or range) in miles per hour. Use the mid-flame wind-speed (MFWS). (If you need to convert 20 feet wind speeds to MFWS, please use the following link (need link). <http://www.nwcg.gov/pms/pubs/410-2/appendixB.pdf>)

Select the **Wind direction** from the dropdown menu (see below):

- N
- NE
- NW
- S
- SE
- SW
- E
- W

Select the air **Temperature** in degrees from the dropdown menu (see below):

- < 60
- 60 - 69
- 70 - 79
- 80 - 89
- 90 - 99
- 100+

Enter the estimated relative humidity **RH** in percent.

### **Treatment and Wildfire intersection**

Enter the **Treatment and Wildfire intersection details** from the dropdown menu (see list below). If other or multiple please pick the dominant action and explain the rest in the **Comments** section.

- Wildfire started in the treatment
- Wildfire spotted into treatment
- Wildfire burned through all acres treated
- Wildfire burned through some acres treated
- Treatment was used primarily for suppression actions
- Other

### **Treatment Effects**

**Did the fire behavior change as a result of the treatment (as planned in the treatment objectives)? \***

- “Yes” or “No.”

This question focuses on the expected changes in fire behavior (intensity, flame length, or rate of spread) when the fuel treatment is tested by a wildfire, **that was described in the treatment objectives** when the fuel treatment was planned, conducted, and/or completed. (For example: In forest fuel types the fire behavior went from a crown fire to a surface fire. Or, in shrub fuel types the fire behavior decreased in flame length or intensity or rate of spread.)

If changes in fire behavior met treatment objective, then check “Yes.” If changes in fire behavior did not meet the treatment objectives, then check “No,” and explain in the **Comments** section.

**Did the treatment contribute to control of the fire? \***

- “Yes” or “No.”

For example: If treatment unit was used as a barrier in a burnout operation, or used to support field crews by providing an effective retardant dropped, or used to dig hand line, or used to catch the wildfire during initial attack (before it got big) then the answer would be “Yes”. Treatment might also allow for the management of a multiple objective fire, allowing fire to burn through treatment with lower severity or decision maker to decide to manage an unplanned ignition for resource benefits. Answer “No” if the treatment did not contribute to control or management of the fire, for example the wildfire went through the unit because of extreme fire behavior or fire fighters would have been at risk to control the fire.

**Was the treatment strategically located in order to facilitate control of the fire?**

- “Yes” or “No.”

Answer “Yes” or “No” based on your knowledge of the purpose of the project and layout of this treatment and other treatments designed as a part of this project.

**Fuel Model(s) and Percent Cover Inside the Treated Area:** Choose the dominant top three Fire Behavior Fuel Model (FBFM) 13 or FBFM 40 **Fuel Model(s) Inside the Treated Area** and the approximate **Percent** of the fuel treatment area they cover (does not need to add to 100 percent). See Rocky Mountain Research Station-GTR-153 for fuel model descriptions ([http://www.fs.fed.us/rm/pubs/rmrs\\_gtr153.html](http://www.fs.fed.us/rm/pubs/rmrs_gtr153.html)). Upload photos of representative fuel models in the attachment section if available.

**Fuel Model(s) and Percent Cover Outside the Treated Area:** Choose the dominant top three Fire Behavior Fuel Model (FBFM) 13 or FBFM 40 **Fuel Model(s) Outside the Treated Area** and the approximate **Percent** of the fuel treatment area they cover (does not need to add to 100 percent). Outside the treatment is defined as fuels adjacent to treatment area (including burned by wildfire and unburned). See Rocky Mountain Research Station-GTR-153 for fuel model descriptions ([http://www.fs.fed.us/rm/pubs/rmrs\\_gtr153.html](http://www.fs.fed.us/rm/pubs/rmrs_gtr153.html)). Upload photos of representative fuel models in the attachment section if available.

Select the estimated **Flame Length Inside the Treatment** (in feet) observed when the wildfire intersected the treatment area from the dropdown menu (see below):

- 0 - 2
- 2.1 - 4
- 4.1 - 6
- 6.1 - 8
- 8.1 - 12
- 12 and over

Select the estimated **Flame Length Outside the Treatment** (in feet) observed when the wildfire intersected the treatment area from the dropdown menu (see below):

- 0 - 2
- 2.1 - 4
- 4.1 - 6
- 6.1 - 8
- 8.1 - 12
- 12 and over

**How did the treatment contribute to the control of the fire?** Check all that apply:

- Able to do direct attack
- Used treatment for burn-out operations
- Fire spread was arrested (stopped) in the treatment unit
- Fire spread was slowed as it moved through treatment (decreased R.O.S.)
- Other *(if selected, fill in a description)*

Other might include: “allowed for point protection,” “able to do indirect attack,” “able to use retardant for attack,” “was the treatment useable as a safety zone” and needs to be specified.

Check the **Dominant Type of Fire Spread Outside the Treatment** from the list below:

- Active Crown Fire

- Passive Crown Fire (Group or single tree torching)
- Surface Fire
- Other (*If selected, fill in a description*)

Check the **Dominant Type of Fire Spread Inside the Treatment** from the list below:

- Active Crown Fire
- Passive Crown Fire (Group or single tree torching)
- Surface Fire
- Other (*If selected, fill in a description*)

### **Comments**

Please provide any other additional information that help explains the fuel treatment effectiveness or helps clarifies answers to the questions answered on this form.

### **Save Your Entry**

To Save your record, hit the Save button at the bottom of the form.

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## Replicate, Edit, and Delete Records

The ability to replicate, edit, and delete records that have been entered is controlled by the User Privileges (see Section above).

Users – Have the ability Replicate and Edit records they have entered

Regional – Have the ability to Replicate, Edit, and Delete all records for their regions/area.

National – Have the ability to Replicate, Edit, and Delete all records for their Agency.

To replicate, edit, or delete (regional and national users) use the LIST tab.

FTEN: List

ADD NEW RECORD

Search results

Agency	Area	Unit	Subunit	Treatment unit	Wildfire	Burn date	Options
BLM	Oregon	Burns	Andrews		TEST JM	08/07/2012	Replicate
BLM	Oregon	Burns	Andrews	TEST MIA	Test Min	04/07/2012	Replicate
BLM	Oregon	Burns	Andrews		TEST	08/01/2012	Replicate
BLM	Oregon	Burns	Andrews	Test	TEST	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	Test Min - No Wildfire Number	Test	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	No Wildfire number	Test	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	NO Treatment Type	TEST	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	Test No Treatment Data	TEST	07/22/2012	Replicate
BLM	Oregon	Burns	Andrews	Test 2	Test -- Demo 1	05/01/2012	Replicate
BLM	Oregon	Burns	Andrews	Test Wildhorse	Test -- Demo 1	05/01/2012	Replicate

Users only see the records they have entered.

Regional and National users can use the Regional/National drop down button or the Search wildfire name search engine to find records they want to replicate, edit, or delete.

FTEN: List

Search wildfire name:   **ADD NEW RECORD**

---

**Regional**

Agency:  \*  
 Area:  \*  
 Unit:  \*  
 Subunit:  \*

Agency	Area	Unit	Subunit
FS	R6	Columbia River Gorge RSA	CGNSA
FS	R6	Columbia River Gorge RSA	CGNSA
FS	R6	Fremont - Winema	Bly RD
FS	R6	Deschutes	Crescent RD
FS	R6	Mt. Hood	Hood River RD
FS	R6	Mt. Hood	Clackamas River

## Replicate

Replicate is used when a large wildfire burns into more than one treatment unit/area that might require multiple entries to capture all the treatments units/area affected by that wildfire. Replicate copies all information entered on the record being replicated except for the mandatory fuel treatment effectiveness questions. To replicate select the highlighted/hyperlinked **Replicate** button for the record you want to replicate.

BLM	Oregon Burns Andrews	<u>Test Wildhorse</u>	Test -- Demo 1	08/01/2012	<a href="#">Replicate</a>
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## Edit

Edit is used to edit or update an existing record. To edit select the highlighted/hyperlink **Treatment Unit** or **Wildfire** name.

HOME LIST REPORTS QUIT							
FTEM: List							
ADD NEW RECORD							
Search results							
Agency	Area	Unit	Subunit	Treatment unit	Wildfire	Burn date	Options
BLM	Oregon Burns Andrews				TEST JM	08/07/2012	<a href="#">Replicate</a>
BLM	Oregon Burns Andrews			<u>TEST Min</u>	<u>Test Min</u>	08/07/2012	<a href="#">Replicate</a>
BLM	Oregon Burns Andrews				TEST	08/01/2012	<a href="#">Replicate</a>
BLM	Oregon Burns Andrews			Test	TEST	07/22/2012	<a href="#">Replicate</a>

## Delete

Only Regional and National users can delete a record. To delete a record, just hit **Delete**, and then answer the next questions.

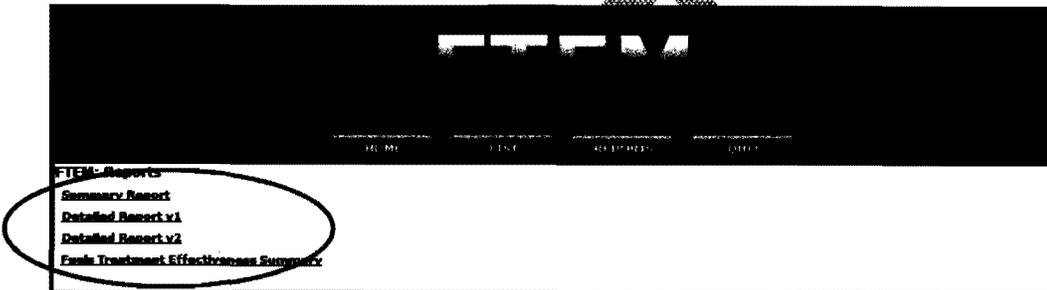
Agency	Area	Unit	Subunit	Treatment unit	Wildfire	Burn date	Options
PS	R6	Columbia River Gorge NSA	COGSA		Test 06.R6	08/07/2012	<a href="#">Replicate</a>   <a href="#">Delete</a>
PS	R6	Columbia River Gorge NSA	COGSA		Test 06.R6	08/07/2012	<a href="#">Replicate</a>   <a href="#">Delete</a>
PS	R6	Fremont - Winema	By RD	By Ridge WU1	By Ridge	01/13/2012	<a href="#">Replicate</a>   <a href="#">Delete</a>
PS	R6	Deschutes	Crescent RD	Castle	225	09/12/2011	<a href="#">Replicate</a>   <a href="#">Delete</a>
PS	R6	Mt. Hood	Hood River RD	Small Ridge Fire	Dollar Lake Fire	08/29/2011	<a href="#">Replicate</a>   <a href="#">Delete</a>
PS	R6	Mt. Hood	Clackamas River	Wall of the Woods Fire 2010	Mother Lode Fire	08/26/2011	<a href="#">Replicate</a>   <a href="#">Delete</a>

# Reports

Reports of the data entered into the FTEM system can be viewed from the **REPORTS** tab.



On the **REPORTS** tab there are four different type reports:



All reports can be generated by any users and are not limited by agency.

## Summary Report

The **Summary Report** provides a complete list of all the records and focuses mostly on the required fuel treatment effectiveness questions. All users have the option to reduce this list by Agency, Area, Region, Unit, and Year (burned by wildfire). The output is generated to your web browser. This report can take a couple of minutes to generate.

Please select agency, area, unit, and subunit

Agency:  Area:   
 Unit:  Subunit:   
 Year:

Burn Report								
Agency	Area	Unit	Sub-Unit	Wildland Fire Name	Date Burned Treatment Area	Treatment Unit	Did Treatment Change Fire Behavior?	Did Treatment Help Control Fire?
PS	RS	Chattahoochee/Oconee	Chattahoochee River	Stone Grave Ridge	02/11/2011	Check-in station	Y	Y
PS	RS	Daniel Boone	Stearns	Indiana	02/16/2011	000 Duck Run Rd Burn Unit	N	Y
PS	RS	Daniel Boone	Stearns	Whaloozer	04/03/2011	000 Duck Run Rd Burn Unit	Y	N
PS	RS	Daniel Boone	Stearns	Pond	05/27/2011	000 Pond Ridge	N	Y
PS	RS	Kisatchie	Calcasieu	Castor Bluffs	02/06/2011	PS C-36	Y	Y
PS	RS	Kisatchie	Calcasieu	Little 588	03/10/2011	PS C-27	Y	Y
PS	RS	Kisatchie	Calcasieu	Lata	04/08/2011	FLATWOODS 108 RW	Y	Y
PS	RS	Kisatchie	Calcasieu	000	08/03/2011	08 C-46-368	Y	Y



Agency:  \*

Region/Area:  \*

Unit:  \*

Subunit:  \* - FS & BLM Oregon only

**Acres of Treatments Burned Over By Wildfire**

Year	Did Treatment Change Fire Behavior?		Did Treatment Help Control Wildfire?		Total			
	No	Yes	No	Yes				
Acres	% Acres	% Acres	% Acres	% Acres	%			
2006: 0	0%	5101	100%	0	0%	5101	100%	5101
2007: 84	0%	37083	100%	84	0%	37083	100%	37167
2008: 28	0%	38806	100%	27	0%	38807	100%	38834
2009: 6356	20%	25932	80%	481	1%	32007	99%	32488
2010: 5770	12%	41175	88%	3721	8%	43224	92%	46945
2011: 9047	8%	103728	92%	10835	9%	103990	91%	114785
2012: 12471	77%	3675	23%	12346	76%	3800	24%	16146

**Summary of Fuel Treatments Effectiveness On Wildfires**

Year	Did Treatment Change Fire Behavior?		Did Treatment Help Control Wildfire?		Total			
	No	Yes	No	Yes				
Number	% Number	% Number	% Number	% Number	%			
2006: 0	0%	10	100%	0	0%	10	100%	10
2007: 5	3%	183	97%	1	1%	189	99%	190
2008: 3	2%	131	98%	1	1%	133	99%	134
2009: 15	16%	86	84%	10	10%	92	90%	102
2010: 19	15%	112	85%	7	5%	124	93%	131
2011: 48	19%	263	85%	33	17%	258	83%	311
2012: 4	14%	23	86%	2	7%	27	93%	29

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Comment [D01]: Review - Sign.

## Contact/Questions

Agency Contact (direction/policy questions or content questions on the FTEM system or manual):

FS:	Jim Menakis	<a href="mailto:jmenakis@fs.fed.us">jmenakis@fs.fed.us</a>	406-329-4958
BLM:	Brad Washa	<a href="mailto:bwasha@blm.gov">bwasha@blm.gov</a>	801-539-4246
	Krista Gollnick	<a href="mailto:kgollnick@blm.gov">kgollnick@blm.gov</a>	208-387-5165
BIA:	Kim Kelly	<a href="mailto:Kim.Kelly@bia.gov">Kim.Kelly@bia.gov</a>	503-231-2115
FWS:	Lou Ballard	<a href="mailto:Lou_Ballard@fws.gov">Lou_Ballard@fws.gov</a>	208-387-5584
NPS:	Andy Bundshuh	<a href="mailto:Andy_Bundshuh@nps.gov">Andy_Bundshuh@nps.gov</a>	303-969-2124

Technical/System Contact (technical issues related to the system or e-Authentication process):

	Dale Guenther	<a href="mailto:dguenther@fs.fed.us">dguenther@fs.fed.us</a>	503-808-2188
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# Appendix A:

## Creating an eAuthentication ID & Accessing the NWPortal

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### **Access/Security:**

Users: All federal and tribal employees.

Access to the FTE system is through the following portal:

[www.NWPortal.fs.usda.gov](http://www.NWPortal.fs.usda.gov)

This portal provides access to a number of web based systems. For security the system uses the USDA eAuthentication ID and Password system. Even though it is managed by the USDA, US Forest Service, Department of Interior, and private individuals may acquire an eAuthentication ID. For instruction in creating an eAuthentication ID see the below instructions. Access to FTE will only be allowed to federal employees, tribal employees with a tribal identified email address, and other exceptions evaluated on a case by case basis.

### **Creating a new eAuthentication Account**

#### **Step 1: Establishing Personnel Access**

##### **FIRST TIME USER**

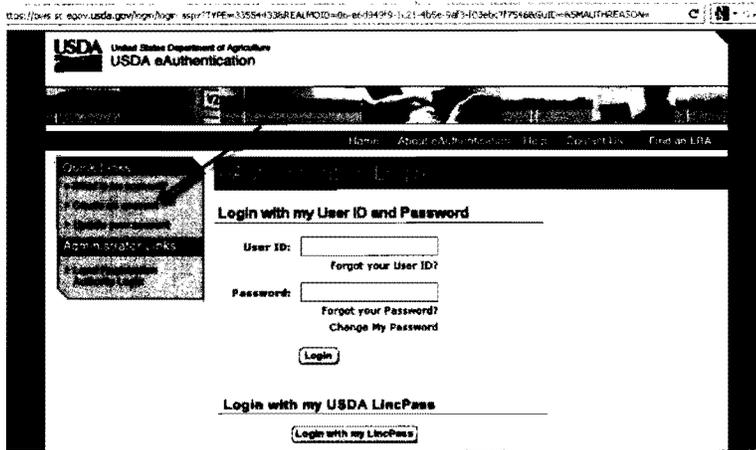
All users must obtain a Level 1 security clearance through the US Department of Agriculture (USDA) eAuthentication process. USDA eAuthentication is the system required by USDA agencies to enable customers to get accounts that will allow them to access USDA Web applications and services via the Internet through a User Identification (User ID) and Password system. This process ensures the identity of those who access the system and appropriate access.

To obtain a login for NWPortal, go to this website:

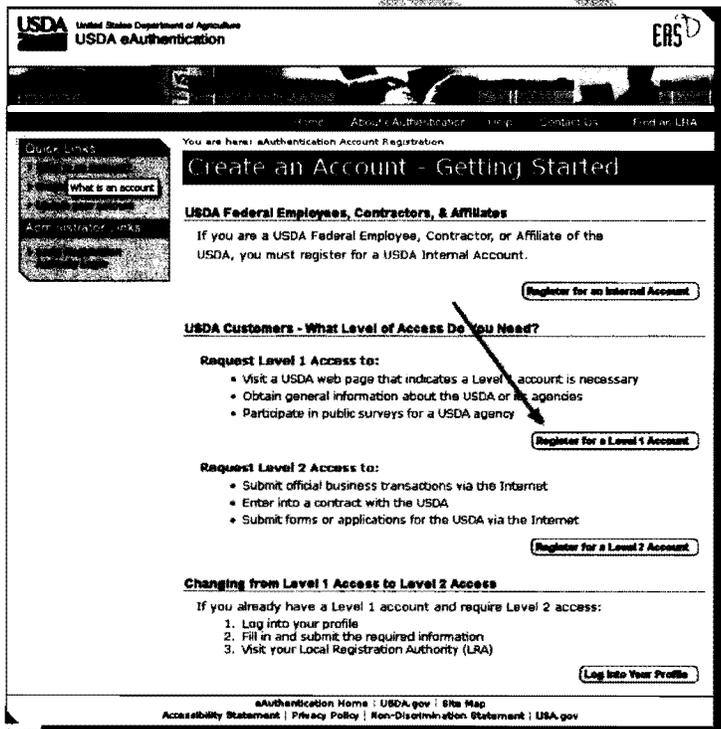
<http://www.fireportal.usda.gov>

Move your cursor to “” in the  box.





Follow the instructions for obtaining **LEVEL 1** security. Although the screen indicates your choice could be Level 1 or Level 2, your program is in **LEVEL 1**. Create a **LEVEL 1** account.



Complete the requested fields and submit.

Home | About | Contact Us | Help | Privacy Policy | Feedback

You are here: eAuthentication Account Registration > Account Request Form

## Register for Your Account - Level 1

Form Approved OMB No. 0503-0014

### Step 1 of 4 - Level 1 Access Account Registration

USDA customers should complete the information below to create a USDA eAuthentication account. Please read the eAuthentication Privacy Act Statement and Public Burden Statement for more information on how your personal information will be protected.

All required fields are red and marked by an asterisk (\*). Enter your first and last name exactly as it appears on your Government issued photo ID (e.g. state driver's license).

**User Information** ?

Required Field\*

First Name\*  
 Middle Initial  
 Last Name\*

**Contact Information** ?

Email\*  
 Confirm Email\*

**Login Information** ?

User ID\*  
 Password\*  
 Confirm Password\*

**Security Questions** ?

Please select and answer four distinct questions from the selections below. This information will be used to validate your identity if you forget your password. Each question may only be used once. For additional assistance, click the [? above](#).

You will be asked to enter all required fields marked by an \* (User ID, password, first name, last name, country and e-mail address). Click on "Continue."

**USDA** United States Department of Agriculture  
 USDA eAuthentication

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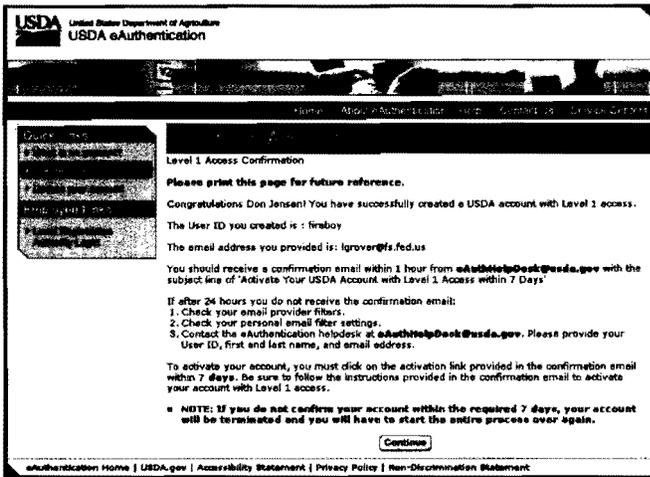
**Level 1 Access**  
 Step 2 of 2

Verify your Level 1 access information.  
 Click the Back button to make changes or click the Submit button to create your account with Level 1 access.

User ID:	fireboy
Password:	** Not Shown **
First Name:	Dan
Middle Initial:	
Last Name:	Barrett
Home Postal/Zip Code:	
Country Name:	United States
Email:	c_green@hotmail.com

eAuthentication Home | USDA.gov | Accessibility Statement | Privacy Policy | Non-Discrimination Statement

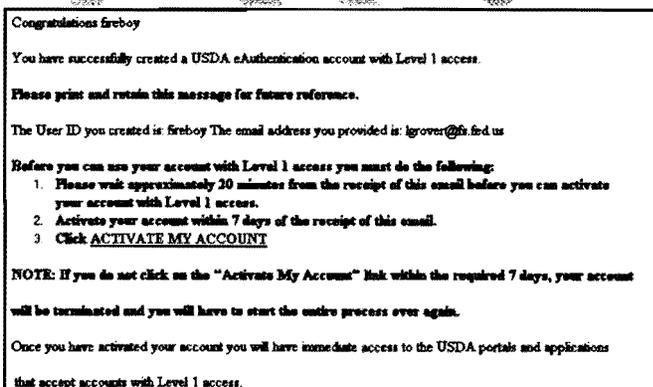
If all of the information is correct, you need to enter “Submit” in order to complete the registration process.



At this point you can log out of the system.

Once you have submitted this information you will be notified via e-mail of your registration. Notification may take an hour or more. You need to respond to this e-mail to confirm your account and complete the registration. This will ensure the system can identify you.

**Step 2: Confirm your Account** – You will get an electronic message to your e-mail address confirming your application to the eAuthentication process similar to the following:



You can view or update your account information by clicking [UPDATE YOUR ACCOUNT](#). You can also access your account information from the USDA eAuthentication web site at <http://www.eauth.usda.gov>.

If you need further assistance, please email the USDA eAuthentication Help Desk at [eAuthHelpDesk@usda.gov](mailto:eAuthHelpDesk@usda.gov).

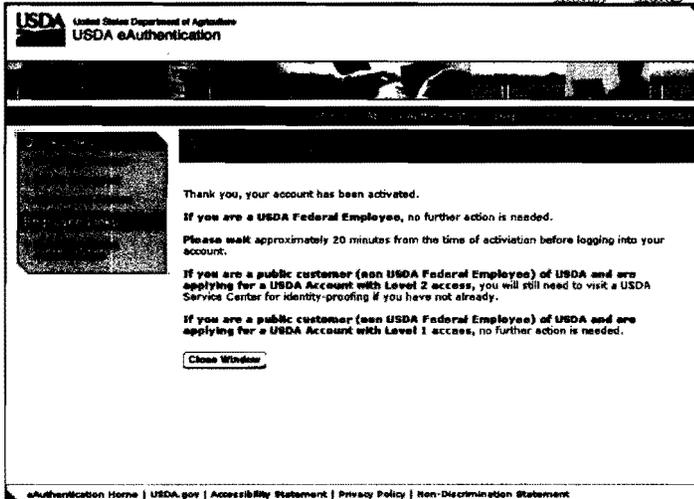
Please include the following information in your email:

- Your first and last name
- Your eAuthentication User ID
- Indicate whether you are a public customer, federal employee, state, or district employee
- If you are a federal employee, provide the name of your employing agency
- The URL (Web Address) of the Web site or application you were attempting to access
- The text of any error messages and a detailed description of the problem

If you have trouble accessing your activation link above, please copy and paste the following link into your browser address bar:

<http://eauth.usda.gov/Auth/activate?User.do?username=first&last=1518271411243-121162724311427-11528-1151413-13028>

Click on “3. **Click ACTIVATE MY ACCOUNT**” The following screen will appear.



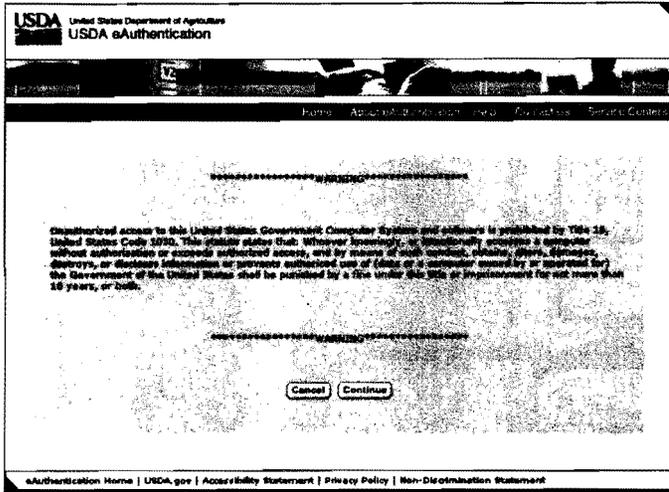
You are applying for a Level 1 account. No further action is needed. Close this screen. Your account has been activated.

If you forget your User ID you have to create a new user profile in Level 1. If you have forgotten your password or PIN, select the 'Reset my Forgotten Password' in the log in screen.

### Step 3: Accessing the NWPortal System

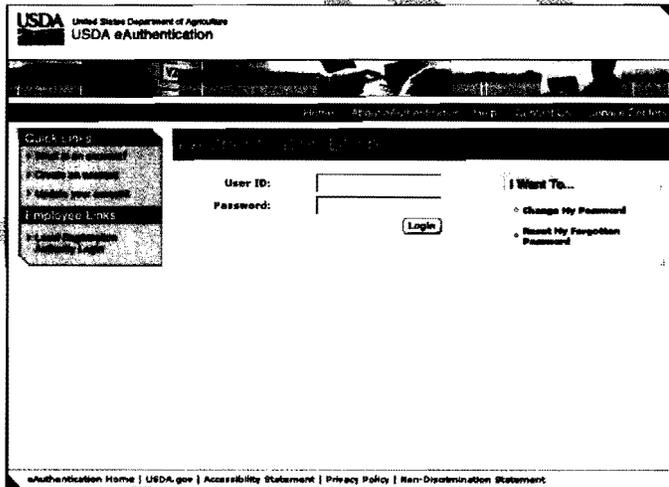
After an individual has completed the e-Authentication process (including responding to the e-mail message sent to him/her by e-Authentication) they may begin using the NWPortal system.

The web address is Fire Portal is: [www.fireportal.usda.gov](http://www.fireportal.usda.gov). You will use this web address for all further access to the NWPortal system.



Click on

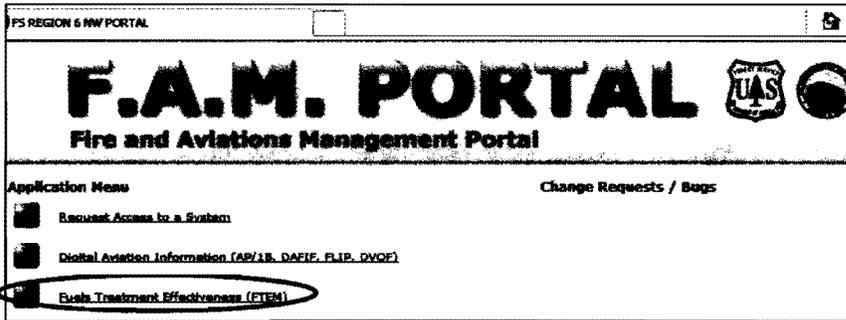
**Continue**



Log in using the 'user ID' and 'password' you established.

**Step 4: Selecting NWPortal systems.**

The first time you access NWPortal you will be provided a list of applications that you may access. Select:



The system manager will review your request and grant access. You will be notified via email.

Once access has been granted, the next time you access the NWPortal you may select the Fuel Treatment Effectiveness (FTEM) to get into the system:

