

# FireFamilyPlus Databases – Fire History

## I. Downloading Historical Fire Data for Import into FireFamily

Downloading historical fire data from the National Fire and Aviation Management Web Applications (FAMWEB) site allows users to access historical fire data for all federal agencies. This paper will present one example on how to download USFS-specific historical fire data via FAMWEB as well as one example on how to download DOI-specific data from WFMI. Both examples will illustrate how to import this data into FireFamilyPlus (FFP).

### A. Federal Agency Fire History

Historical fire data for federal agencies is available for download through the FAMWEB website: <https://fam.nwcg.gov/fam-web/>. Previous year's historical fire data is generally available for download by mid-April in the following calendar year.

USFS users can access USFS-specific data using FIRESTAT which can be accessed through the FAMWEB site: <https://fam.nwcg.gov/fam-web-was/Firestat/index.html> Note: Login and password are required. After downloading historical fire data from the FIRESTAT site, the process for importing USFS-specific fire data into FFP follows the same steps as described in this lesson.

DOI users can access DOI-specific historical fire data through the Wildland Fire Management Information (WFMI) website: <https://wfmi.nifc.gov/cgi/WfmiHome.cgi> Note: Login and password are required.

### B. FAMWEB Fire Occurrence Data

Historical fire data for federal agencies can be found on the National Fire and Aviation Management (FAMWEB) website: <https://fam.nwcg.gov/fam-web/>

- From the menu items on the left side of the web page select '**Wildland Fire Related Links**'
- Select '**Fire and Weather Data**' and a new page will be displayed:

The screenshot shows the FAMWEB website interface. The left sidebar contains a menu with the following items: FAMWEB, AMIS, AWSR, FIRESTAT, SIT-209, FAMWEB Data Warehouse, KCFAST, WIMS, FEPMIS, LESO FEPMIS, Electronic Forms, Wildland Fire Related Links (highlighted with a red box), FAMTEST, FAMWEB Logon Request (AMIS, AWSR, FIRESTAT, SIT/209, FEPMIS, FDW), and CONTACT FAMWEB HELP. The main content area is titled 'FIRE & WEATHER DATA' and features a 'Home State Data' section. This section lists updates for various agencies: Feb 13, 2019 (Weather station and observations data), June 23, 2018 (FWS Fire occurrence data), March 12, 2018 (BIA, BLM, BOR, NPS, and PS Fire occurrence data), and April 21, 2015 (California Fire occurrence data). A note states 'FireFamily Plus 4 is officially released' and provides information on where to find more details. At the bottom, it mentions that FPL files are no longer available for DOI agencies and provides contact information for the Fire Applications Helpdesk.

- Click on **'State Data'**
- Select the State of interest from the dropdown list and a new page will be displayed:

The screenshot shows a web browser window with the URL [https://fam.nwcg.gov/fam-web/weatherfirecd/state\\_data.htm](https://fam.nwcg.gov/fam-web/weatherfirecd/state_data.htm). The page title is "Fire & Weather Data: Arizona". On the left, there are navigation links: Home, State Data, Formats, KMZ, and Zip Files. In the center, there is a "Select state:" dropdown menu currently set to "Arizona". To the right of the dropdown, a red box highlights a table with two columns: "Jump to data rows" and "Last Updated". The table lists links for "Weather Files" (13-Feb-2019), "Fires - BIA" (12-Mar-2018), "Fires - BLM" (12-Mar-2018), "Fires - FS" (12-Mar-2018), "Fires - FWS" (23-Jun-2018), and "Fires - NPS" (12-Mar-2018). Below this, the "Weather Files" section contains a table with the following data:

Station Number	Name	Station Type	Catalog	Weather FW9	Weather FW13	Years
021004		2	<a href="#">wlistinv1!021004.txt</a>	<a href="#">wx021004.fw9</a>	<a href="#">wx021004.fw13</a>	19/4-19// 19/9-1992
021005	COLUMBINE	4	<a href="#">wlistinv1!021005.txt</a>	<a href="#">wx021005.fw9</a>	<a href="#">wx021005.fw13</a>	1976-1984 1989-2018
021006		7	<a href="#">wlistinv1!021006.txt</a>	<a href="#">wx021006.fw9</a>	<a href="#">wx021006.fw13</a>	1979-1986
021007	MULE SHOE	4	<a href="#">wlistinv1!021007.txt</a>	<a href="#">wx021007.fw9</a>	<a href="#">wx021007.fw13</a>	1987-1995 1997-2018
021008	BLACK HILLS	4	<a href="#">wlistinv1!021008.txt</a>	<a href="#">wx021008.fw9</a>	<a href="#">wx021008.fw13</a>	1988-2018
021009	DRY LAKE	4	<a href="#">wlistinv1!021009.txt</a>	<a href="#">wx021009.fw9</a>	<a href="#">wx021009.fw13</a>	1950-1950 1997-2018
021010	NOON CREEK	4	<a href="#">wlistinv1!021010.txt</a>	<a href="#">wx021010.fw9</a>	<a href="#">wx021010.fw13</a>	1993-2018
021099	CORONADO PORTABLE 2	3	<a href="#">wlistinv1!021099.txt</a>	<a href="#">wx021099.fw9</a>	<a href="#">wx021099.fw13</a>	
021101		7	<a href="#">wlistinv1!021101.txt</a>	<a href="#">wx021101.fw9</a>	<a href="#">wx021101.fw13</a>	1967-1969
021102		7	<a href="#">wlistinv1!021102.txt</a>	<a href="#">wx021102.fw9</a>	<a href="#">wx021102.fw13</a>	1971-1974
021103		7	<a href="#">wlistinv1!021103.txt</a>	<a href="#">wx021103.fw9</a>	<a href="#">wx021103.fw13</a>	1979-1981
021104	GUTHRIE	4	<a href="#">wlistinv1!021104.txt</a>	<a href="#">wx021104.fw9</a>	<a href="#">wx021104.fw13</a>	1985-2018
021105	TRAIL CABIN	4	<a href="#">wlistinv1!021105.txt</a>	<a href="#">wx021105.fw9</a>	<a href="#">wx021105.fw13</a>	1992-2018
021106	STRAYHORSE	4	<a href="#">wlistinv1!021106.txt</a>	<a href="#">wx021106.fw9</a>	<a href="#">wx021106.fw13</a>	2002-2018

- The user can either select the agency of interest from the box at the top of the page or scroll down the page to the **'Fire Occurrence Files'** window.
- In this example, the user will download historical fire occurrence data for the USFS, Coronado National Forest in Arizona.
- Note that the data range is from 1950 through 2017.
- To download the data right-click on the filename displayed in the blue text and select **'Save target as...'** option. Download and save the file to a location on the computer where it can be found later. Next, the user will upload the historical fire occurrence data into FFP after all of the fire history data has been collected for the planning area.
- Note the different file formats for the USFS and DOI fire occurrence files.

## Fire Occurrence Files

Agency	Unit Identifier	Unit Name	Fire Data
BLM	AZSAD	Safford Field Office	<a href="#">BLM-AZSAD_1972-2017_PchaFfp.txt</a>
BLM	AZYUD	Yuma Field Office	<a href="#">BLM-AZYUD_1972-2017_PchaFfp.txt</a>
BOR	AZPAL	Phoenix Area Office	<a href="#">BOR-AZPAL_1972-2017_PchaFfp.txt</a>
BOR	AZYAL	Yuma Area Office	<a href="#">BOR-AZYAL_1972-2017_PchaFfp.txt</a>
FS	AZASF	Apache-Sitgreaves National Forest	<a href="#">fInfmas2!0301!1950!2017.raw</a>
FS	AZCOF	Coconino National Forest	<a href="#">fInfmas2!0304!1950!2017.raw</a>
FS	AZCNF	Coronado National Forest	<a href="#">fInfmas2!0305!1950!2017.raw</a>
FS	AZKNF	Kaibab National Forest	<a href="#">fInfmas2!0307!1950!2017.raw</a>
FS	AZPNF	Prescott National Forest	<a href="#">fInfmas2!0309!1950!2017.raw</a>
FS	AZTNF	Tonto National Forest	<a href="#">fInfmas2!0312!1950!2017.raw</a>
FWS	AZBAR	Buenos Aires National Wildlife Refuge	<a href="#">FWS-AZBAR_1972-2017_PchaFfp.txt</a>
FWS	AZBWR	Bill Williams National Wildlife Refuge	<a href="#">FWS-AZBWR_1972-2017_PchaFfp.txt</a>
FWS	AZCBR	Cibola National Wildlife Refuge	<a href="#">FWS-AZCBR_1972-2017_PchaFfp.txt</a>
FWS	AZCPR	Cabeza National Wildlife Refuge	<a href="#">FWS-AZCPR_1972-2017_PchaFfp.txt</a>

### C. WFMI Fire Occurrence Data (DOI-specific fire information)

Historical fire data for Department of Interior (DOI) agencies can also be found on the Wildland Fire Management Information (WFMI) website:

<https://wfmi.nifc.gov/cgi/WfmiHome.cgi> Note: A login and password are required for users to access this website. New users can select the 'Access Request' link on the homepage to request login approval.

- Once the user has successfully logged on, click on the '**Fire Reporting**' link and a new page will appear.
- Select '**Export**' and a new page will be displayed:

Fire Reporting - Export

Create Data-set The following is a list of the export data-set(s) available to create:

Export	Description	Selection Criteria
EXCEL	<p>The target audience for this export is users of Excel (and other spreadsheet applications) who want to create a single flat file that combines data from multiple tables in WFMI's relational database. When imported into a spreadsheet, columns correspond to data fields, and each row will contain the data values for a single fire report record. All <a href="#">active data fields</a>*, excluding the long general remarks (narrative) fields, are included. This export also includes several system-generated data fields, such as unique fire identifier, size class, and completion code.</p> <p>As this export file is generated, WFMI adds new fields to express the point of origin location coordinates in a standardized format: Latitude/Longitude, Decimal Degrees, NAD83 datum. However, there are rare instances where original (i.e. user-entered) coordinate values cannot be converted. A detailed explanation of the coordinate and datum conversion process can be found in the document <a href="#">WFMI Fire Reporting Module Location Data</a>.</p> <p>Because the <a href="#">active data fields</a>* change over time, developers of custom-written applications should use caution when using this export; the fields available in this export and their order and format may change without notice.</p> <p>* Active data fields are those which are displayed on the fire report forms currently in use by one or more of the four Bureaus (BIA, BOR, BLM, and/or NPS).</p> <p><a href="#">Detailed Documentation</a></p>	<ul style="list-style-type: none"> <li>• None</li> </ul>
GIS	<p>The target audience for this export is the GIS community and users of GIS software. Developers of custom-written applications should use caution when using this export; the fields available in this export and their order and format may change without notice.</p> <p><a href="#">Detailed Documentation</a></p>	<ul style="list-style-type: none"> <li>• None</li> </ul>
Google Earth	<p>The target audience for this export is users of Google Earth and other software that can import kmz files. Developers of custom-written applications should use caution when using this export; the fields available in this export and their order and format may change without notice.</p> <p><a href="#">Detailed Documentation</a></p>	<ul style="list-style-type: none"> <li>• None</li> </ul>
PCHA/FireFamily Plus	<p>This export provides a single file of fire occurrence data that can be imported into PCHA (PC - Historical Analysis) version 1.2.31-Patch 1E (released on 11/17/2005) or later. PCHA is a stand-alone program that performs analysis of historical weather and fire occurrence data to generate summary datasets and representative hypothetical scenarios that are used for a suite of fire planning applications including FPA, NFMAS, RAMS, etc. This export can also be imported into Fire Family Plus, a program that uses historic weather and fire occurrence data to analyze fire climatology and calculate fire danger indices.</p> <p>As this export file is generated, WFMI adds new fields to express the point of origin location coordinates in a standardized format: Latitude/Longitude, Decimal Degrees, NAD83 datum. However, there are rare instances where original (i.e. user-entered) coordinate values cannot be converted. A detailed explanation of the</p>	<ul style="list-style-type: none"> <li>• None</li> </ul>

- The user can download the data in a variety of formats. For this example, the user will select the 'PCHA/FireFamilyPlus' format. After clicking on the 'PCHA/FireFamilyPlus' button a new window will appear:

Fire Reporting - Export: Selection Criteria

Continue Cancel

Export	PCHA/FireFamily Plus
Description	<p>This export provides a single file of fire occurrence data that can be imported into PCHA (PC - Historical Analysis) version 1.2.31-Patch 1E (released on 11/17/2005) or later. PCHA is a stand-alone program that performs analysis of historical weather and fire occurrence data to generate summary datasets and representative hypothetical scenarios that are used for a suite of fire planning applications including FPA, NFMAS, RAMS, etc. This export can also be imported into Fire Family Plus, a program that uses historic weather and fire occurrence data to analyze fire climatology and calculate fire danger indices.</p> <p>As this export file is generated, WFMI adds new fields to express the point of origin location coordinates in a standardized format: Latitude/Longitude, Decimal Degrees, NAD83 datum. However, there are rare instances where original (i.e. user-entered) coordinate values cannot be converted. A detailed explanation of the coordinate and datum conversion process can be found in the document <a href="#">WFMI Fire Reporting Module Location Data</a>.</p> <p>PCHA users please note: PCHA will not import data from fire reports that have failed any of WFMI's validation rules and are thereby flagged as "Incomplete" in the CompletionCode field - even if the incomplete data pertains to fields that are not used by PCHA and therefore are not included in the export file. If your export file includes data from both Complete and Incomplete fire reports, PCHA will reject the records associated with the Incomplete fire reports and generate a report entitled "Import Errors" that lists the rejected records. To ensure these records are used by PCHA, you will have to edit them in WFMI to resolve all validation errors, then create a new export file to import into PCHA.</p> <p>Fire Family Plus users please note: This export format is compatible with Fire Family Plus version 4 beta, which was released in April 2007, or later versions.</p> <p><a href="#">Detailed Documentation</a></p>
Selection Criteria Pre-defined	<ul style="list-style-type: none"> <li>• None</li> </ul>
Required sections indicated by *	
Bureau:*	All
Region/State:*	All
Reporting Unit:*	All
Fire Cause:*	<input checked="" type="checkbox"/> Natural

- The **'Fire Reporting - Export: Selection Criteria'** window provides the user with a number of options to refine their search by Bureau, Region/State, Reporting Unit, Fire Cause, Fire Report Status, Date Range, and Fire Type/Protection Type. DOI users should all be familiar with these selection options.
- For this example, the user will select the following options:
  - Bureau: Bureau of Land Management (BLM)
  - Region/State: Arizona
  - Reporting Unit: Safford-Tucson Zone
  - Fire Cause: Select all three options
  - Fire Report Status: Select 'All fire reports (complete and incomplete)'
  - Date Range: Enter 01/01/2000 through 12/31/2014
  - Fire Type/Protection Type: The user will select 'Fire Type 1' (Response Fires), Protection Types 1 and 5 (click on the box next to each of these protection types).

The screenshot shows a web browser window with the URL <https://wfmi.nifc.gov/cgi/FireReportingExport.cgi/Page/PchaFfp>. The page displays a table with two columns: 'Fire Type' and 'Protection Type'. The 'Fire Type' column lists various fire categories, and the 'Protection Type' column lists specific protection types with checkboxes for selection. The following table represents the content shown in the screenshot:

Fire Type	Protection Type
<input checked="" type="checkbox"/> 1) BIA - Suppressed Fires BLM - Response Fire BOR - Suppressed Fire NPS - Suppressed Fires Select All Deselect All	<input checked="" type="checkbox"/> 1) BIA - Trust Lands, BIA Protection BLM - BLM land (point of origin) where BLM has protection responsibility NPS - NPS land under NPS protection
	<input type="checkbox"/> 2) BIA - Trust Lands, Other Federal Agency Protection BLM - BLM land (point of origin) protected by another Federal agency BOR - BOR land protected by another Federal agency under interagency agreement/contract NPS - NPS lands protected by another federal agency
	<input type="checkbox"/> 3) BIA - Trust Lands, Non-Federal Agency Protection BLM - BLM land (point of origin) protected by a non-Federal agency under a contract or agreement BOR - BOR land protected by a non-Federal agency under a co-op agreement contract NPS - NPS lands protected by another non-federal agency
	<input type="checkbox"/> 4) BIA - Trust Lands, Limited Action NPS - For fires suppressed under a confine or contain strategy
	<input checked="" type="checkbox"/> 5) BIA - Other Lands, BIA Protection, No Agreement/MOU/Contract (Threat to Trust Lands) BLM - Other land (non-BLM point of origin), action taken by the BLM to prevent spread to BLM Land NPS - Other lands not under an agreement, where NPS action taken to prevent spread to NPS land
	<input type="checkbox"/> 6) BIA - Other Lands, BIA Protection per Agreement/MOU/Contract BLM - Other land (non-BLM point of origin), BLM response requested NPS - Other lands protected by NPS under a memorandum of understanding, interagency agreement, or contract
	<input type="checkbox"/> 9) BLM - Response based on approved FMP & end result beneficial on >50% of burned acres

- Scroll to the bottom of the page and click on **'Continue'** and a new page will appear **'Fire Reporting - Export: Confirmation'**:

Fire Reporting - Export: Confirmation	
<b>Export</b>	PCHA/FireFamily Plus
<b>Description</b>	<p>This export provides a single file of fire occurrence data that can be imported into PCHA (PC - Historical Analysis) version 1.2.31-Patch 1E (released on 11/17/2005) or later. PCHA is a stand-alone program that performs analysis of historical weather and fire occurrence data to generate summary datasets and representative hypothetical scenarios that are used for a suite of fire planning applications including FPA, NFMAS, RAMS, etc. This export can also be imported into Fire Family Plus, a program that uses historic weather and fire occurrence data to analyze fire climatology and calculate fire danger indices.</p> <p>As this export file is generated, WFMI adds new fields to express the point of origin location coordinates in a standardized format: Latitude/Longitude, Decimal Degrees, NAD83 datum. However, there are rare instances where original (i.e. user-entered) coordinate values cannot be converted. A detailed explanation of the coordinate and datum conversion process can be found in the document <a href="#">WFMI Fire Reporting Module Location Data</a>.</p> <p>PCHA users please note: PCHA will not import data from fire reports that have failed any of WFMI's validation rules and are thereby flagged as "Incomplete" in the CompletionCode field - even if the incomplete data pertains to fields that are not used by PCHA and therefore are not included in the export file. If your export file includes data from both Complete and Incomplete fire reports, PCHA will reject the records associated with the Incomplete fire reports and generate a report entitled "Import Errors" that lists the rejected records. To ensure these records are used by PCHA, you will have to edit them in WFMI to resolve all validation errors, then create a new export file to import into PCHA.</p> <p>Fire Family Plus users please note: This export format is compatible with Fire Family Plus version 4 beta, which was released in April 2007, or later versions.</p>
<b>Selection Criteria Pre-defined</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Selection Criteria User-defined</b>	<ul style="list-style-type: none"> <li>• BLM - Arizona (AZ) - Safford-Tucson Zone (AZ-SAD) (ends 12/31/2014)</li> <li>• Fire Cause: Natural, Human and not specified</li> <li>• All fire reports (complete and incomplete)</li> <li>• 01/01/2000 through 12/31/2014</li> <li>• BLM - Response Fire (1) <ul style="list-style-type: none"> <li>◦ BLM land (point of origin) where BLM has protection responsibility (11)</li> <li>◦ Other land (non-BLM point of origin), action taken by the BLM to prevent spread to BLM Land (15)</li> </ul> </li> </ul>
<b>Record Count</b>	462

Create    Revise Selection Criteria    Cancel

- Select **'Create'** at the bottom of the web page and a new page, **'Fire Reporting – Export'**, will appear. If the requested data download file is large it may take a minute for the data to be assembled and made ready for download. This page will display the status of the download request.

Fire Reporting - Export			
<b>Download Data-set</b> The following is a list of the export data-set(s) that you have created:			
Export	Status	Description	Selection Criteria
PCHA/FireFamily Plus	<b>Finished</b> 03/06/2019 15:28 PST <input type="button" value="Download"/> <input type="button" value="Delete"/>	<p>This export provides a single file of fire occurrence data that can be imported into PCHA (PC - Historical Analysis) version 1.2.31-Patch 1E (released on 11/17/2005) or later. PCHA is a stand-alone program that performs analysis of historical weather and fire occurrence data to generate summary datasets and representative hypothetical scenarios that are used for a suite of fire planning applications including FPA, NFMAS, RAMS, etc. This export can also be imported into Fire Family Plus, a program that uses historic weather and fire occurrence data to analyze fire climatology and calculate fire danger indices.</p> <p>As this export file is generated, WFMI adds new fields to express the point of origin location coordinates in a standardized format: Latitude/Longitude, Decimal Degrees, NAD83 datum. However, there are rare instances where original (i.e. user-entered) coordinate values cannot be converted. A detailed explanation of the coordinate and datum conversion process can be found in the document <a href="#">WFMI Fire Reporting Module Location Data</a>.</p> <p>PCHA users please note: PCHA will not import data from fire reports that have failed any of WFMI's validation rules and are thereby flagged as "Incomplete" in the CompletionCode field - even if the incomplete data pertains to fields that are not used by PCHA and therefore are not included in the export file. If your export file includes data from both Complete and Incomplete fire reports, PCHA will reject the records associated with the Incomplete fire reports and generate a report entitled "Import Errors" that lists the rejected records. To ensure these records are used by PCHA, you will have to edit them in WFMI to resolve all validation errors, then create a new export file to import into PCHA.</p> <p>Fire Family Plus users please note: This export format is compatible with Fire Family Plus version 4 beta, which was released in April 2007, or later versions.</p> <p><a href="#">Detailed Documentation</a></p>	<b>Pre-defined:</b> <ul style="list-style-type: none"> <li>• None</li> </ul> <b>User-defined:</b> <ul style="list-style-type: none"> <li>• BLM - Arizona (AZ) - Safford-Tucson Zone (AZ-SAD) (ends 12/31/2014)</li> <li>• Fire Cause: Natural, Human and not specified</li> <li>• All fire reports (complete and incomplete)</li> <li>• 01/01/2000 through 12/31/2014</li> <li>• BLM - Response Fire (1) <ul style="list-style-type: none"> <li>◦ BLM land (point of origin) where BLM has protection responsibility (11)</li> </ul> </li> </ul>

- When the data file is ready the user can click on the **'Download'** button. A new window will appear, **'Fire Reporting - Export: Download'**:

### Fire Reporting - Export: Download

<b>Export</b>	PCHA\Firefamily Plus
<b>Description</b>	<p>This export provides a single file of fire occurrence data that can be imported into PCHA (PC - Historical Analysis) version 1.2.3.1-Patch 1E (released on 11/17/2005) or later. PCHA is a stand-alone program that performs analysis of historical weather and fire occurrence data to generate summary datasets and representative hypothetical scenarios that are used for a suite of fire planning applications including FPA, NFMAS, RAMS, etc. This export can also be imported into Fire Family Plus, a program that uses historic weather and fire occurrence data to analyze fire climatology and calculate fire danger indices.</p> <p>As this export file is generated, WFMI adds new fields to express the point of origin location coordinates in a standardized format: Latitude/Longitude, Decimal Degrees, NAD83 datum. However, there are rare instances where original (i.e. user-entered) coordinate values cannot be converted. A detailed explanation of the coordinate and datum conversion process can be found in the document <a href="#">WFMI Fire Reporting Module Location Data</a>.</p> <p>PCHA users please note: PCHA will not import data from fire reports that have failed any of WFMI's validation rules and are thereby flagged as "Incomplete" in the CompletionCode field - even if the incomplete data pertains to fields that are not used by PCHA and therefore are not included in the export file. If your export file includes data from both Complete and Incomplete fire reports, PCHA will reject the records associated with the Incomplete fire reports and generate a report entitled "Import Errors" that lists the rejected records. To ensure these records are used by PCHA, you will have to edit them in WFMI to resolve all validation errors, then create a new export file to import into PCHA.</p> <p>Fire Family Plus users please note: This export format is compatible with Fire Family Plus version 4 beta, which was released in April 2007, or later versions.</p> <p><a href="#">Detailed Documentation</a></p>
<b>Selection Criteria Pre-defined</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Selection Criteria User-defined</b>	<ul style="list-style-type: none"> <li>BLM - Arizona (AZ) - Safford-Tucson Zone (AZ-SAD) (ends 12/31/2014)</li> <li>Fire Cause: Natural, Human and not specified</li> <li>All fire reports (complete and incomplete)</li> <li>01/01/2000 through 12/31/2014</li> <li>BLM - Response Fire (1) <ul style="list-style-type: none"> <li>BLM land (point of origin) where BLM has protection responsibility (11)</li> <li>Other land (non-BLM point of origin), action taken by the BLM to prevent spread to BLM Land (15)</li> </ul> </li> </ul>
<b>Record Count</b>	462

- Scroll to the bottom of the page and follow the download instructions: *'To download and save each of the files on the computer, right-click on the Filename and then select Save link as....'*
- Right click on **'PchaFfp'** to download and save the file to a location on the computer where it can be found later. The user will upload the historical fire occurrence data into FFP after the fire history data for all the units/agencies has been collected for the planning area.

Select Export

To download and save each of the files on your computer, right-click on the Filename and then select *Save Target As....*

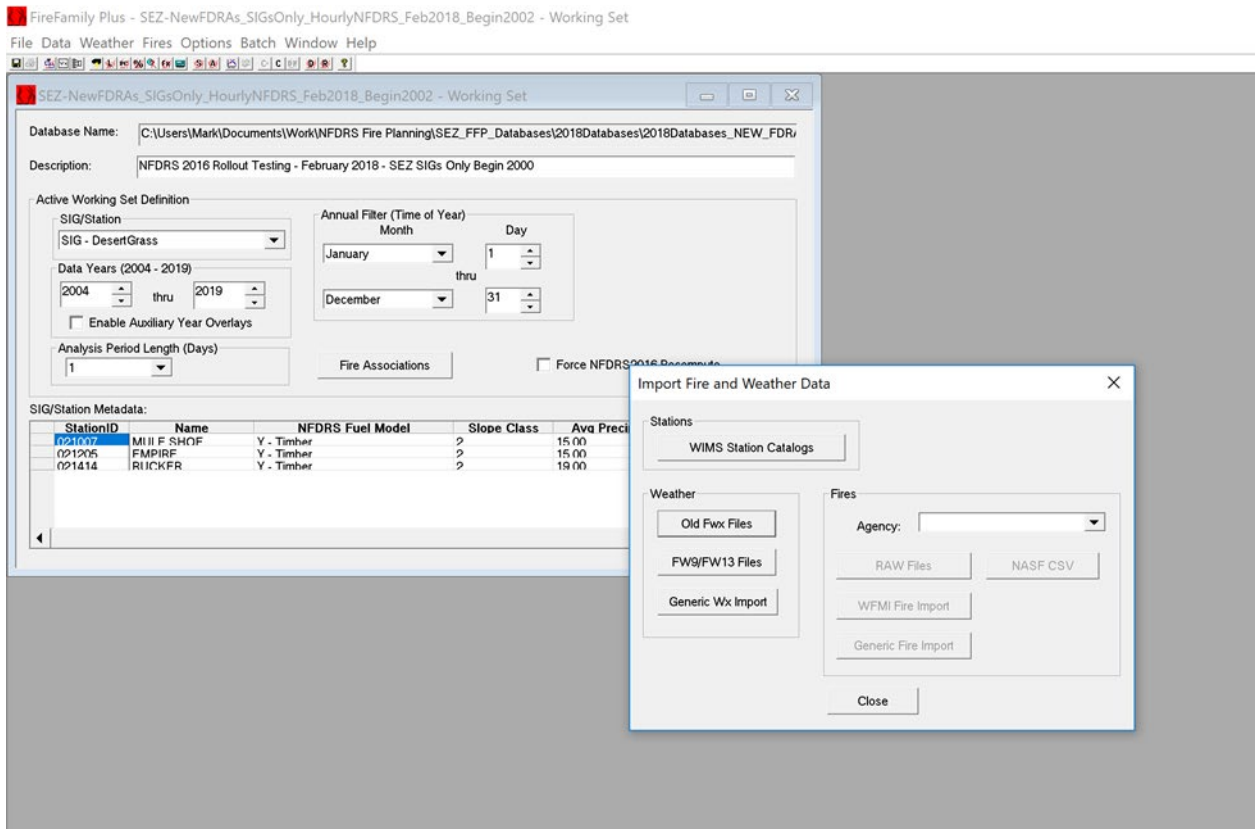
Filename	Description	Size
<a href="#">PchaFfp</a>	Fire Report Data	20 KB
<a href="#">Zip</a>	Compressed	7 KB

## II. Importing Historical Fire Occurrence Data into FireFamilyPlus

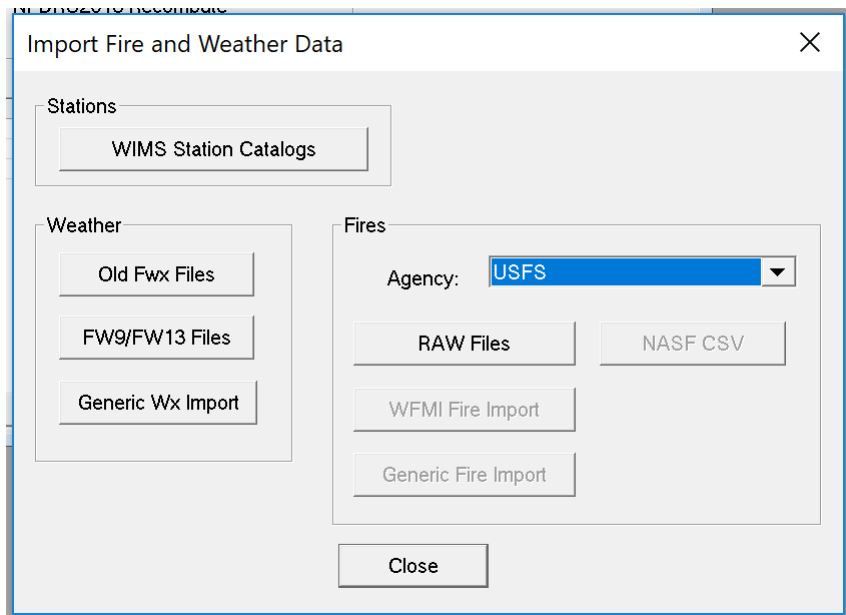
Now that the data has been downloaded and stored, the historical fire occurrence data can now be imported into FireFamilyPlus. First, the USFS fire occurrence data followed by the BLM fire occurrence data will be imported into FFP.

### A. USFS Fire Occurrence Data Import into FFP

- Open the previously created FFP database and select **'Data'** from the menu items at the top of the page. Next, select **'Import...'** and the **'Import Fire and Weather Data'** window will appear on the screen:

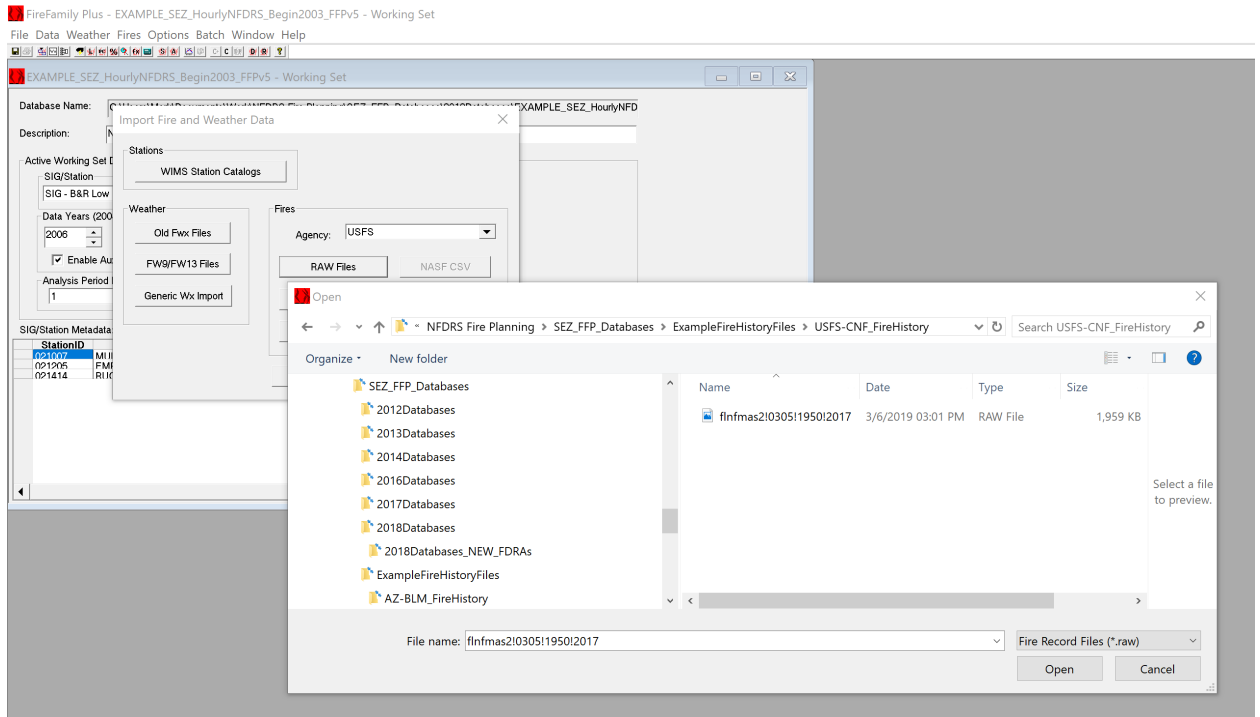


- Select the proper agency from the '**Agency**' drop-down list. For this example, select 'USFS'.

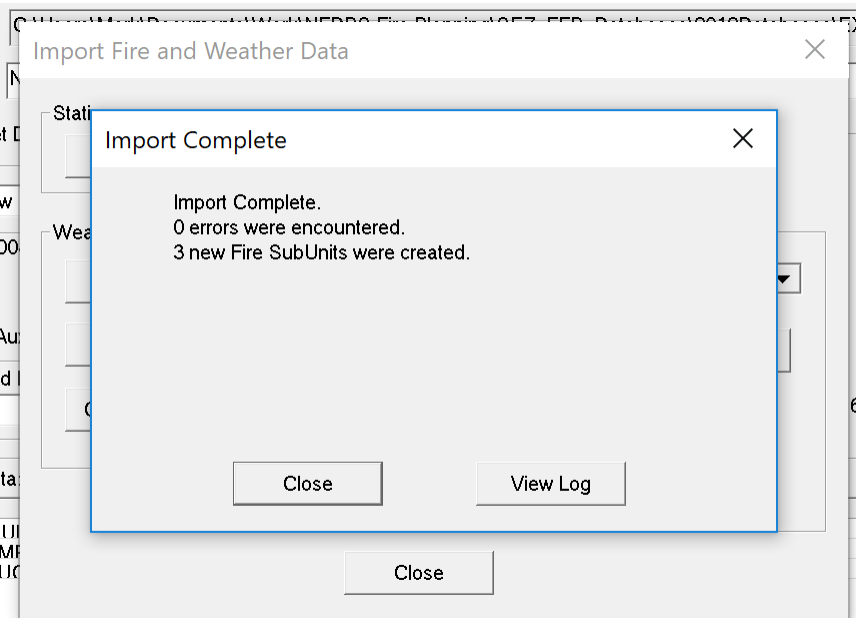


- Next, click on the '**RAW Files**' button and a new File Explorer window will open. Navigate to the location where the USFS fire occurrence download file (.raw) was stored on the computer.



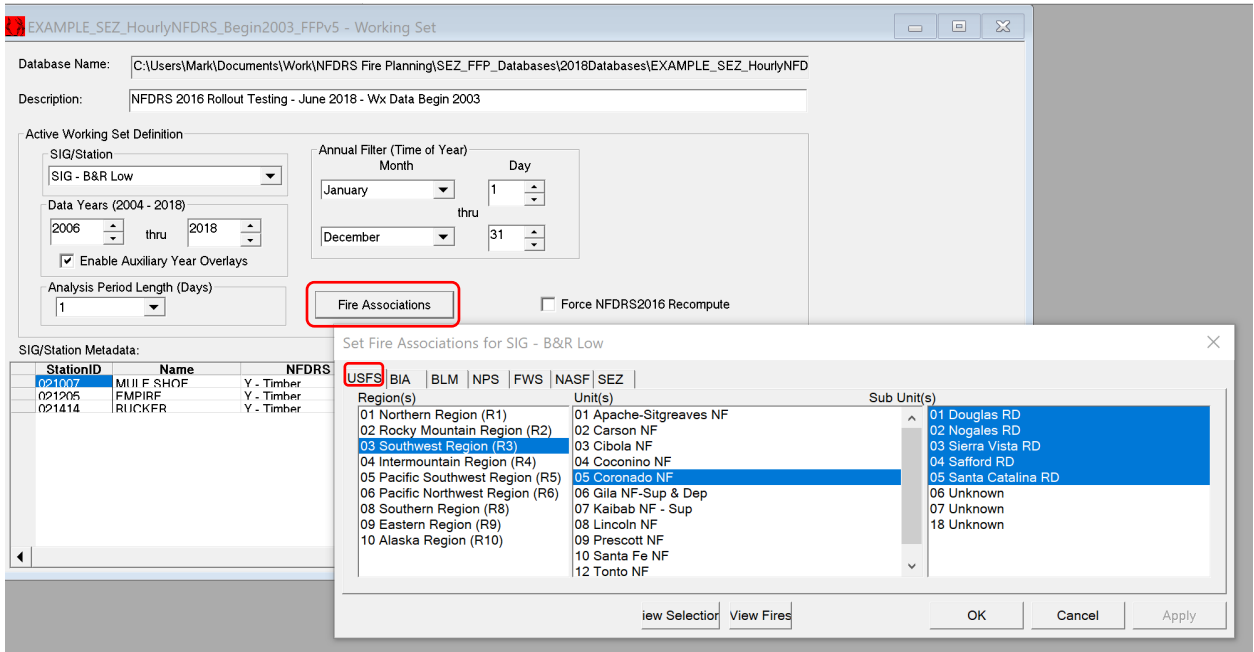


- The user can either double-click on the file or highlight the filename and select **'Open'**. The file will then automatically import into the FFP database. After the import is complete a new window will appear. If no errors were encountered, click on the **'Close'** button to close the window.

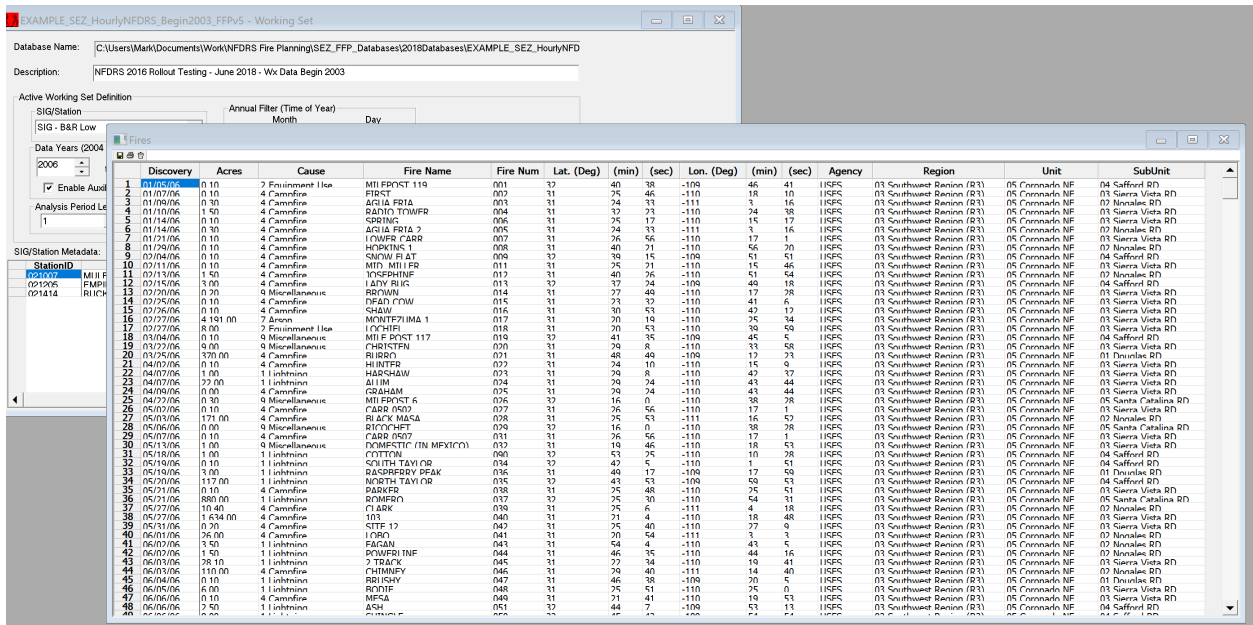


- Next, click the **'Close'** button at the bottom of the **'Import Fire and Weather Data'** window.
- To view the fire occurrence data, you can click on the **'Fire Associations'** button and a new window will appear. Select the applicable agency tab (e.g. USFS); select the applicable

Region (e.g. 03 Southwest (R3)); select the applicable Unit (e.g. 05 Coronado NF); select the applicable Unit(s) (e.g. 01 Douglas RD, 02 Nogales RD, 02 Nogales RD, etc.).



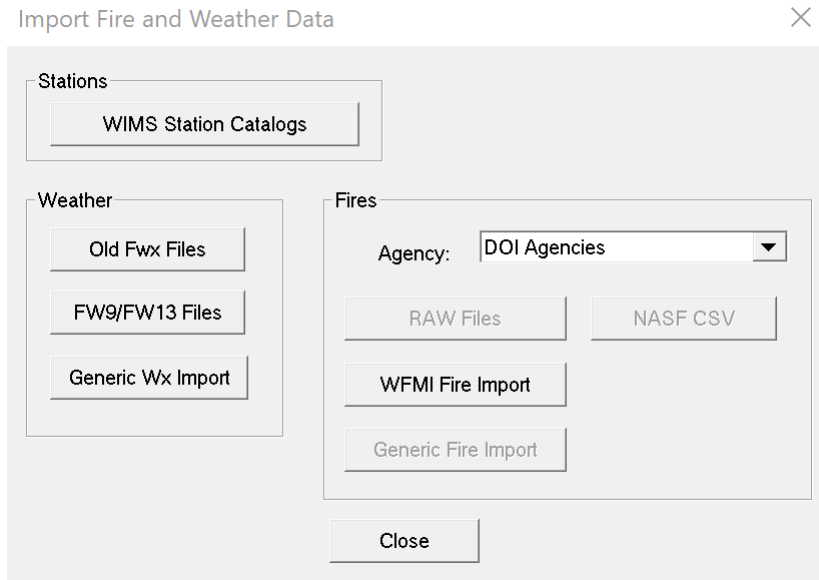
- The user can click the 'View Fires' button to review the downloaded fire occurrence data, a new window will appear:



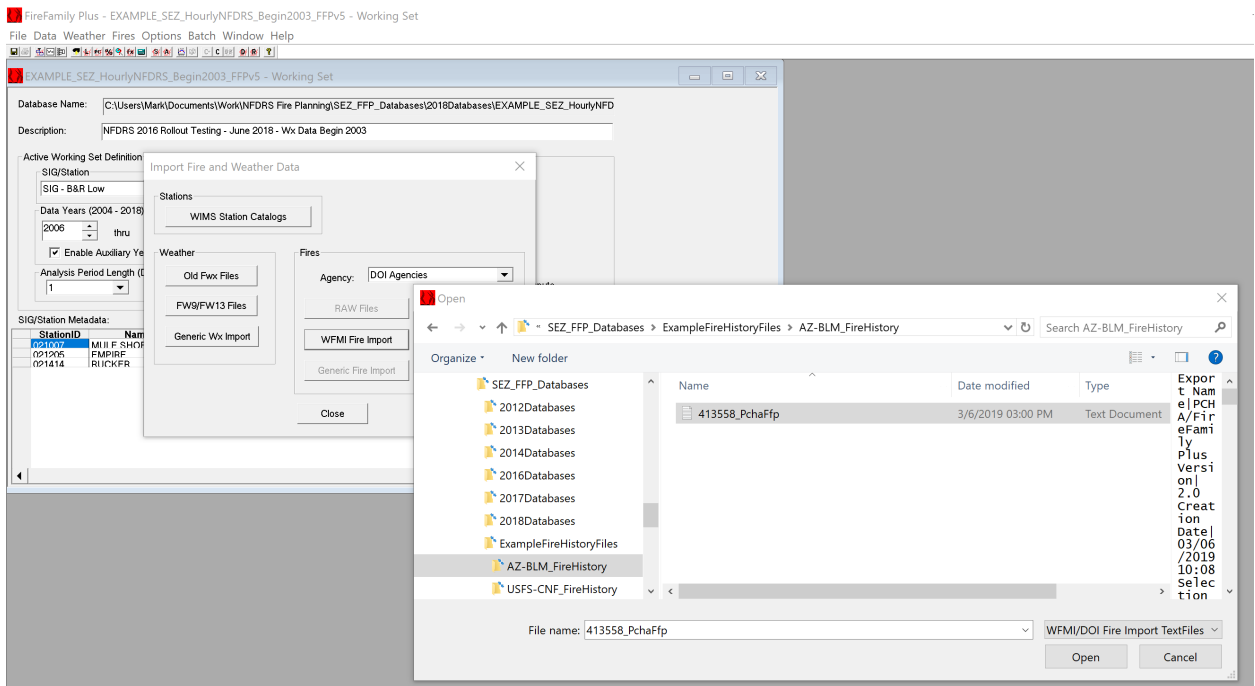
## B. DOI Fire Occurrence Data Import into FFP

- The same process is used to import DOI fire occurrence data into FFP. Select 'Data' from the menu items at the top of the page. Next, select 'Import...' and the 'Import Fire and Weather Data' window will appear on the screen.

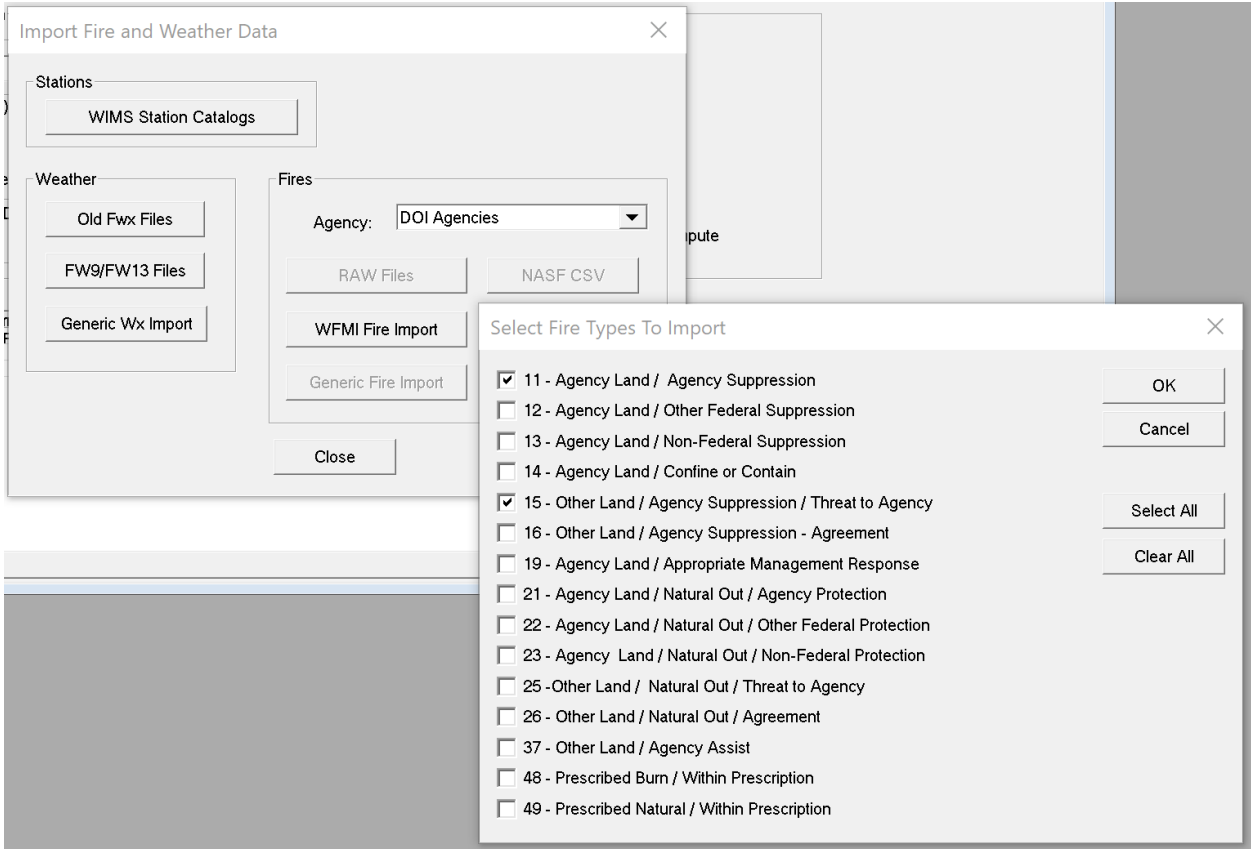
- Select the proper agency from the **'Agency'** drop-down list. For this part of the exercise the user will select **'DOI Agencies'**.



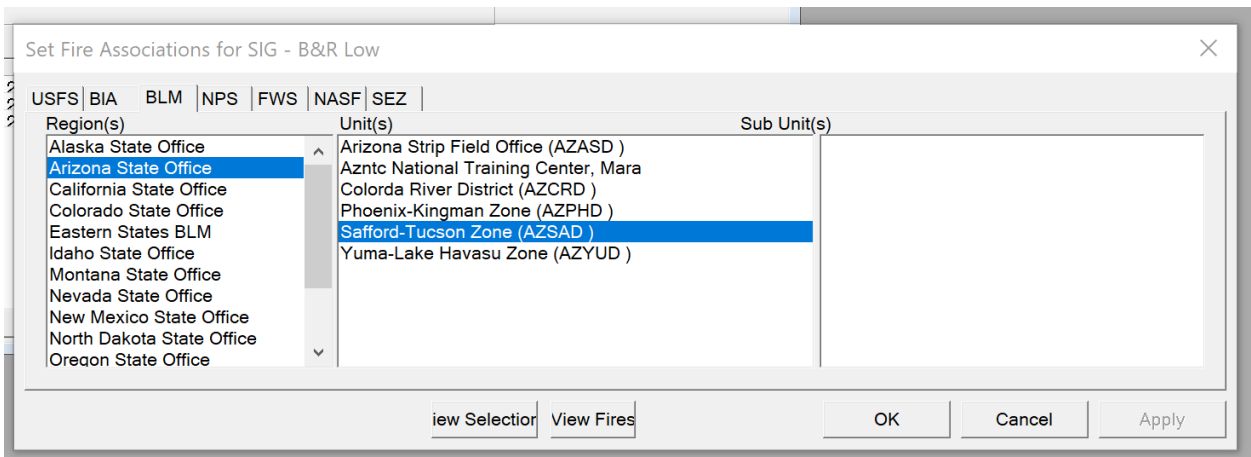
- Next, click on the **'WFMI Fire Import'** button and a new File Explorer window will open. Navigate to the location where the BLM fire occurrence download file (.txt) was stored on the computer. Either double-click on the file name or click the **'Open'** button.



- A new window will appear. Select the **'Fire Types to Import'**, remember earlier when the BLM fire occurrence data was downloaded, we selected 1-1 and 1-5 fire types. Click the boxes next to the applicable fire types. Next, click **'OK'**.



- After the data has been imported a new window will appear stating the import is complete. Click 'Close'. Be sure to check if errors were encountered. These can be viewed by clicking on 'View Log'. Next, close the 'Import Fire and Weather Data' window.
- As presented before, to view the fire occurrence data the user can click on the 'Fire Associations' button (or click on 'Fires' => 'Associations' from the menu bar) and a new window will appear. Select the applicable agency tab (e.g. BLM); select the applicable Region (e.g. Arizona State Office); select the applicable Unit (e.g. Safford-Tucson Zone (AZSAD)). If any other 'Regions' have been previously selected under the other tabs (i.e. BIA, NPS, FWS) and associated with any fires, the user will need to uncheck those selections if they only wish to view BLM fires.



- Click on the 'View Fires' button and a new window will appear that displays the fire occurrence data for the unit(s) selected.

Discovery	Acres	Cause	Fire Name	Fire Num	Lat. (Deg)	(min)	(sec)	Lon. (Deg)	(min)	(sec)	Agency	Region	Unit	SubUnit
1 01/03/06	0 10	0 Miscellaneous	BCKC	515102	31	37	34	-110	10	27	RI M	Arizona State Office	Safford-Tucson Zone	
2 04/14/06	0 10	4 Camelfire	Frankham	518373	31	40	47	-110	35	27	RI M	Arizona State Office	Safford-Tucson Zone	
3 04/16/06	0 10	2 Environment Ilea	Motor Home	538096	32	36	56	-109	30	41	RI M	Arizona State Office	Safford-Tucson Zone	
4 05/10/06	0 10	0 Miscellaneous	Carroll	519644	32	18	23	-111	21	13	RI M	Arizona State Office	Safford-Tucson Zone	
5 05/20/06	80 00	1 1 Injtmn	Sunset	520301	33	8	42	-109	14	24	RI M	Arizona State Office	Safford-Tucson Zone	
6 05/22/06	2 00	2 Environment Ilea	Marona	520305	32	52	53	-110	23	36	RI M	Arizona State Office	Safford-Tucson Zone	
7 06/06/06	1 00	0 Camelfire	Palomares	520681	31	27	0	-110	0	2	RI M	Arizona State Office	Safford-Tucson Zone	
8 06/02/06	2 00	1 1 Injtmn	Turtle	520747	33	0	27	-109	22	30	RI M	Arizona State Office	Safford-Tucson Zone	
9 06/05/06	137 00	1 1 Injtmn	Murkinht	520978	33	1	27	-109	32	29	RI M	Arizona State Office	Safford-Tucson Zone	
10 06/05/06	100 00	1 1 Injtmn	Smith	521116	33	3	5	-109	28	31	RI M	Arizona State Office	Safford-Tucson Zone	
11 06/06/06	0 10	1 1 Injtmn	Brown	520988	31	28	6	-109	56	32	RI M	Arizona State Office	Safford-Tucson Zone	
12 06/06/06	1 00	0 Miscellaneous	Red Mountain	520686	31	25	51	-109	53	22	RI M	Arizona State Office	Safford-Tucson Zone	
13 06/06/06	0 30	1 1 Injtmn	O'Hillan	520977	32	8	40	-109	27	26	RI M	Arizona State Office	Safford-Tucson Zone	
14 06/06/06	0 30	1 1 Injtmn	Yaloustron	520971	32	51	33	-109	22	13	RI M	Arizona State Office	Safford-Tucson Zone	
15 06/06/06	0 10	0 Miscellaneous	Hibhuav	520968	32	17	26	-109	14	15	RI M	Arizona State Office	Safford-Tucson Zone	
16 06/06/06	120 00	1 1 Injtmn	Klenfuka S&D	521524	32	49	35	-110	30	62	RI M	Arizona State Office	Safford-Tucson Zone	
17 06/13/06	0 50	0 Miscellaneous	Riviera	521463	31	26	19	-110	6	30	RI M	Arizona State Office	Safford-Tucson Zone	
18 06/15/06	10 00	0 Miscellaneous	Colra	521464	32	52	11	-110	22	4	RI M	Arizona State Office	Safford-Tucson Zone	
19 06/16/06	0 10	0 Miscellaneous	Riviera	521463	31	26	19	-110	6	30	RI M	Arizona State Office	Safford-Tucson Zone	
20 06/16/06	2 00	0 Miscellaneous	San Paeon S&D	521460	31	32	32	-110	0	36	RI M	Arizona State Office	Safford-Tucson Zone	
21 06/20/06	2 00	2 Environment Ilea	Shoat	521684	32	45	27	-109	19	34	RI M	Arizona State Office	Safford-Tucson Zone	
22 06/23/06	28 80	0 Miscellaneous	Lease	522023	33	6	1	-110	52	43	RI M	Arizona State Office	Safford-Tucson Zone	
23 06/29/06	0 10	1 1 Injtmn	Guthria Peak	522694	32	53	14	-109	18	47	RI M	Arizona State Office	Safford-Tucson Zone	
24 07/15/06	11 00	1 1 Injtmn	Diamond	524654	31	10	24	-110	0	0	RI M	Arizona State Office	Safford-Tucson Zone	
25 07/22/06	0 10	4 Camelfire	007 Fire	525311	31	49	53	-110	35	19	RI M	Arizona State Office	Safford-Tucson Zone	
26 07/23/06	0 10	1 1 Injtmn	Last Night	525335	31	37	33	-110	10	27	RI M	Arizona State Office	Safford-Tucson Zone	
27 08/24/06	0 10	1 1 Injtmn	Parson Box	528844	33	32	43	-110	10	27	RI M	Arizona State Office	Safford-Tucson Zone	
28 10/21/06	0 30	1 1 Injtmn	Sonotta	535827	31	41	42	-110	35	47	RI M	Arizona State Office	Safford-Tucson Zone	
29 11/20/06	0 10	0 Miscellaneous	61	527436	31	43	25	-110	11	44	RI M	Arizona State Office	Safford-Tucson Zone	
30 12/16/06	1 565 00	3 Smoke	Curly Horse	537963	31	40	0	-110	37	2	RI M	Arizona State Office	Safford-Tucson Zone	
31 02/20/07	0 10	0 Miscellaneous	Riverside	538833	31	46	30	-110	36	34	RI M	Arizona State Office	Safford-Tucson Zone	
32 03/06/07	0 10	0 Miscellaneous	Tia	539066	31	21	45	-110	10	40	RI M	Arizona State Office	Safford-Tucson Zone	
33 03/07/07	0 10	0 Miscellaneous	Dwet	539067	31	37	33	-110	10	25	RI M	Arizona State Office	Safford-Tucson Zone	
34 03/07/07	0 10	0 Miscellaneous	RG	539069	31	33	12	-110	8	9	RI M	Arizona State Office	Safford-Tucson Zone	
35 03/08/07	0 10	0 Miscellaneous	MP357	539051	32	45	58	-109	27	2	RI M	Arizona State Office	Safford-Tucson Zone	
36 04/03/07	0 10	0 Miscellaneous	Badm	539076	31	33	10	-110	8	9	RI M	Arizona State Office	Safford-Tucson Zone	
37 04/22/07	0 10	0 Miscellaneous	Wall	539077	32	31	18	-109	26	0	RI M	Arizona State Office	Safford-Tucson Zone	
38 04/28/07	0 20	1 1 Injtmn	Finnine Mtn	540080	31	51	55	-110	38	26	RI M	Arizona State Office	Safford-Tucson Zone	
39 05/13/07	0 20	1 1 Injtmn	Circle Tank	540466	32	48	53	-109	15	30	RI M	Arizona State Office	Safford-Tucson Zone	
40 06/03/07	25 00	1 1 Injtmn	Black Knob	541187	31	23	35	-109	48	56	RI M	Arizona State Office	Safford-Tucson Zone	
41 06/27/07	268 00	1 1 Injtmn	Curly Horse	542409	31	43	44	-110	38	2	RI M	Arizona State Office	Safford-Tucson Zone	
42 07/05/07	0 10	1 1 Injtmn	Croner	543031	33	3	35	-110	43	15	RI M	Arizona State Office	Safford-Tucson Zone	
43 07/06/07	5 00	1 1 Injtmn	Tarset	543201	31	39	3	-110	10	38	RI M	Arizona State Office	Safford-Tucson Zone	
44 07/07/07	5 000 00	1 1 Injtmn	Alamofire	543240	31	54	30	-111	35	28	RI M	Arizona State Office	Safford-Tucson Zone	
45 07/11/07	3 00	1 1 Injtmn	Huautla	543877	31	52	7	-110	46	33	RI M	Arizona State Office	Safford-Tucson Zone	
46 07/13/07	0 10	1 1 Injtmn	Chico Trasm	543975	31	46	11	-109	48	58	RI M	Arizona State Office	Safford-Tucson Zone	
47 07/16/07	1 00	1 1 Injtmn	Lonesome	544661	31	28	27	-109	55	24	RI M	Arizona State Office	Safford-Tucson Zone	
48 08/10/07	0 10	1 1 Injtmn	Squit	548562	31	21	27	-110	7	36	RI M	Arizona State Office	Safford-Tucson Zone	
49 10/07/07	0 40	1 1 Injtmn	Escanale	525333	31	35	18	-110	10	15	RI M	Arizona State Office	Safford-Tucson Zone	

### III. Defining the Active Working Set

If this is the first time the fire occurrence data was imported into the database, the fires need to be associated with each RAWS or SIG listed in the FFP database. This association allows the user to analyze/evaluate the historical fire weather and fire occurrence data together.

Think of the “working set” as a filter of the active database. The user may not be interested in all of the weather or fire data in a database. By filtering the database, the user can choose the data that pertains only to the specific fire danger analysis needs. For example, the user may choose to analyze the potential for the fall fire season or be interested in determining the window for the spring prescribed fire season. For these examples and in most analyses in FireFamilyPlus, the user needs to carefully consider how to define the Active Working Set.

Setting fire associations will allow the user to define which fires are associated with the weather station or stations (SIG) in the working set. The user can also perform an analysis on multiple agencies by blending fires from each agency.

All FireFamilyPlus outputs directly relate to the configuration of the working set. Therefore, each of the required elements in the working set need to accurately reflect the data requirements. Problems with output are usually caused by an incorrect working set.

#### A. Define the Active Working Set

- In the 'SIG/Station' box, the user will select the Station ID or Special Interest Group (SIG) of their choice. In the following example, SIG – B&R Low, representing a Fire Danger Rating Area (FDRA) is selected, as seen in the SIG/Station menu window.

EXAMPLE\_SEZ\_HourlyNFDRS\_Begin2003\_FFPv5 - Working Set

Database Name: C:\Users\Mark\Documents\Work\NFDRS Fire Planning\SEZ\_FFP\_Databases\2018Databases\EXAMPLE\_SEZ\_HourlyNFD

Description: NFDRS 2016 Rollout Testing - June 2018 - Wx Data Begin 2003

Active Working Set Definition

SIG/Station: SIG - B&R Low

Data Years (2004 - 2018): 2006 thru 2018

Enable Auxiliary Year Overlays

Analysis Period Length (Days): 1

Annual Filter (Time of Year)

Month: January thru December

Day: 1 thru 31

Force NFDRS2016 Recompute

Fire Associations

SIG/Station Metadata:

StationID	Name	NFDRS Fuel Model	Slope Class	Avg Precip	Herb Annual	Latitude	Max SC	Humi
021007	MUI F SHOF	Y - Timber	2	15.00	<input type="checkbox"/>	32.40	5	<input type="checkbox"/>
021205	FMPIRF	Y - Timber	2	15.00	<input type="checkbox"/>	31.78	5	<input type="checkbox"/>
021414	RUCKER	Y - Timber	2	19.00	<input type="checkbox"/>	31.76	5	<input type="checkbox"/>

- The user can change the remaining Active Working Set Definition fields as needed. Using the scroll buttons on the 'Data Years' selection allows the user to select the years of interest available with a particular SIG or station. The 'Annual Filter' allows the user to select the time of year (month and days) to include in the analysis. The 'Analysis Period Length (Days)' controls the number of days used to define the data grouping.
- Finally, the 'Fire Associations' button (or click on 'Fires' => 'Associations' from the menu bar) allows the user to select the fires that will be associated with the SIG or weather station's data.
- In the example shown above, the following inputs have been selected:
  - Special Interest Group (SIG) – B&R Low.
  - Data years 2006 through 2018.
  - Annual Filter (time of year to analyze) January 1 through December 31.
  - Analysis Period Length (number of days averaged into analysis) 1.
  - SIG/Station Metadata (edit site data or change fuel model). The example shows the three stations that are included in the SIG.

This concludes how to download historical fire data using the FAMWEB and/or WFMI web sites and how to import this data into a FireFamilyPlus database for analysis.