Defining Custom Agencies and Importing Custom Fire Occurrence Data into FireFamilyPlus

Defining Custom Agencies

In FireFamilyPlus, agency definitions are used for associating fires with a RAWS or SIG, and for importing fire data from custom data files. When creating these definitions, the user needs to know two main things: the names of the units and the codes of the units as found in the import files. If the import files do not contain codes for regions (for this example, an FDRA will represent a region), units, or subunits, then a "dummy code" needs to be assigned by the user. This will enable the user to select the desired region (FDRA), unit, and/or subunit as a default for the entire file when importing custom historical fire data.

To better understand how FireFamilyPlus organizes this information, agencies, regions, units, and subunits have a tree-like structure, i.e. an agency is made up of regions, a region consists of units, and a unit is divided into subunits (Diagram 1). When defining agencies, the **region level is mandatory** for the agency to be usable for importing fire data. The user needs to define units and subunits only if necessary, for their agency. When importing custom fire data that is FDRA-specific, the user does not need to define units or subunits.

After creating the Fire Danger Rating Areas (FDRA) for the planning area, the user will need to identify the planning area as well as each FDRA in FireFamilyPlus. In FireFamilyPlus, the 'Agency' will define the planning area and the 'Region' will be used to define each FDRA. This will allow the user to import FDRA-specific fire occurrence data as well as conduct FDRA-specific fire occurrence and weather analyses.



Diagram 1. FireFamilyPlus custom agency structure.

To begin the process of setting up a custom agency in FireFamilyPlus:

1. In FireFamilyPlus select the **Data -> Agencies** menu option.

Import Stations SIGS Arencies User Variables > Compact 5 > 1	N 広回 ここの 単象 了 sonly_HourlyNFDRS_Feb2018_Begi sers\Mark\Documents\Work\NFDRS Fire P RS 2016 Rollout Testing - February 2018 - 5	n2002 - Working Set lanning\SEZ_FFP_Databases SEZ SIGs Only Begin 2000	\2018Databases\2	018Databases_NE	EW_FDR/
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SIG/Station Metadata: StationID 021007 MUI F 021205 021214 RUICK	Name NFDRS Fuel Mo SHOF Y - Timber FF Y - Timber FR Y - Timber	del Slope Class 2 2 2	Avg Precip 15 00 15 00 19 00	Herb Annual	Lat 32 40 31 78 31 76

2. Selecting the **Agencies** menu option will bring up the following dialog box:

Agenci	ies			×
Ne	ew	Edit	Delete	Regions
		Custom A	gencies:	
		0	к	

This dialog box lists all of the custom created agencies. The Fire Danger Operating Plan (FDOP) planning area will be represented the 'Agency'. For this example, the user will use the acronym "SEZ" (i.e. Southeast Zone) to identify the planning area. That's all there is to creating an 'Agency' other than an internal code that FireFamilyPlus uses to identify that agency.

 Select 'New' to create a new 'Agency'. When selected, a dialog box appears prompting the user to enter the name of the agency. Enter the name 'SEZ' and Select 'OK' (Example 1). FireFamilyPlus then creates a record and internal ID for the new agency.

Enter Agency Name	×	Agencies	×
		New Edit	Delete Regions
Agency Name (1 - 12 chars): SEZ	-	Custom Age	encies:
		522	
Note: Use abbreviations for agency names as			
the agency name will be used on tabs			
OK Cancel		ок	

Example 1. Create a new 'Agency' name that represents the FDOP planning area.

- Note that the 'Agency' Name is limited to a total of 12 characters.
- 'Edit': Select 'Edit' if the user needs to edit the name of the selected agency in the list.
- **'Delete'**: Select **'Delete'** if the user needs to delete a selected agency in the list. (This option will also delete all regions, units, and subunits for that agency).
- **'Regions'**: **'Regions'** will be used to define the FDRAs in FireFamilyPlus. For this example, select **'Regions'** to create the FDRA identifier in FireFamilyPlus for the selected agency (**'SEZ'**) in the list. The 'Sonoran FDRA' is used as the example 'Region' for this exercise (Example 2). This dialog box displays the regions for the agency. Regions have two main parts:
- 1. *The code for the FDRA (Region)*. Assign a unique numerical code for each FDRA. This example uses "1". Keep it simple. Region codes should be unique for an agency, and all region codes should contain the same number of characters.
- 2. *The name of the region*. This example uses "Sonoran FDRA" as the assigned name. Try to keep the FDRA names relatively short.

Create/Edit/I	Delete Regi	ons for SEZ	×
New	Edit	Delete	Units
	Regi	ons:	
1 Sonoran FD	RA		
1			
	C	к	

Example 2. Create new a 'Region' name that identifies an FDOP Fire Danger Rating Area; i.e. 'Sonoran FDRA'.

• In this example the user will create a total of three FDRAs: Sonoran FDRA, Desert Grasslands FDRA, and Forest/Woodlands FDRA (Example 3):

Create/Edit/I	Delete Regio	ons for SEZ	×
New	Edit	Delete	Units
	Regio	ons:	
1 Sonoran FD 2 Desert Gras 3 Forest/Woo	RA slands FDRA dland FDRA		
	0	К	

Example 3. Create three FDRA identifiers in FireFamilyPlus: 1 Sonoran FDRA, 2 Desert Grasslands FDRA, 3 Forest/Woodland FDRA.

• To view the new 'Agency' and associated FDRAs in FireFamilyPlus, the user can navigate to 'Fires' => 'Summary' => 'General'

SEZ-NewFDRAs	Association Summary Fire Analysi Fire Busine	s s s Candidates	General Working Set Planning\SEZ_FFP_Databa	ses\2018Databases\2	018Databases_NE	EW_FDR/
Description: Active Working Set SIG/Station SIG - DesertGr Data Years (20	NFDRS 2016 Rollout Definition ass 04 - 2019)	Testing - February 2018 Annual Filt	- SEZ SIGs Only Begin 2000 er (Time of Year) Month Day	3		
2004 + Enable Au Analysis Period	thru 2019 uxiliary Year Overlay Length (Days)	December s Fire As:	sociations	Force NFDRS201	6 Recompute	
ordjoration metadatt		NFDRS Fuel	Model Slope Clas	s Avg Precip	Herb Annual	Lat
StationID		r - rimber	2	15.00		31 78

A new dialog box will appear, and the user should see the new 'Agency' tab that was created, "SEZ", located in the top row of tabs. When the user selects the 'SEZ' tab the new FDRAs that are associated with 'SEZ' in the 'Region(s)' section are listed on the left side of the dialog box: 1 Sonoran FDRA, 2 Desert Grasslands FDRA, and 3 Forest/Woodland FDRA.

Select Fires and Years for General	Summary		×
USFS BIA BLM NPS FWS NA Region(s) 1 Sonoran FDRA 2 Desert Grasslands FDRA 3 Forest/Woodland FDRA	ASF SEZ Years Unit(s)	Sub Unit(s)	
	iew Selectior View Fires	OK Can	Apply

• Note: Since 'Units' and 'Sub Units' are not needed these sections will remain blank.

This concludes the exercise on how to create custom agencies and regions that identifies the planning area and FDRAs in FireFamilyPlus.

Importing User-Defined Fire Occurrence Data

Now that the planning area and FDRAs have been created in FireFamilyPlus this exercise will illustrate a process on how to export historical fire data from ArcMap and save this data as a .csv (comma separated values) file. The user can import this .csv file into MS Excel. The goal is to import this custom historical fire data into an MS Excel spreadsheet and format it so it can then be imported into FireFamilyPlus.

This example will assume the user has the planning area polygon (that includes all of the FDRAs) as well as a historical fires layer loaded in ArcMap. If needed, get some help from a GIS Specialist. This example will use the "SEZ_All-FDRAs_040319" polygon to represent the planning area and the "SEZ_FireHistory_040419" layer to represent the initial fire history layer.

Exporting Data from ArcMap - Example

1. Open the planning area map in ArcMap and right-click on the "Historical Fires" layer in the menu tree. Select **'Joins and Relates'**, then select **'Join'**. The following dialog box will appear:

Join Data	\times
Join lets you append additional data to this layer's attribute table so you can, for example, symbolize the layer's features using this data.	
What do you want to join to this layer?	
Join data from another layer based on spatial location	\sim
1. Choose the layer to join to this layer, or load spatial data from disk:	
♦ SEZ_AII-FDRAs_040319	
2. You are joining: Polygons to Points	
Select a join feature dass above. You will be given different options based on geometry types of the source feature dass and the join feature dass.	
Each point will be given all the attributes of the polygon that:	
() it falls inside.	
If a point falls inside more than one polygon (for example, because the layer being joined contains overlapping polygons) the attributes of the first polygon found will be joined.	
) is closest to it.	
A distance field is added showing how close the polygon is (in the units of the target layer). A polygon that the point falls inside is treated as being closest to the point (i.e. a distance of 0).	
 The result of the join will be saved into a new layer. Specify output shapefile or feature class for this new layer: 	
E:\NFDRS\NFDRS_FireHistory\SE2_Fires_FDRA.shp	
About joining data OK Cancel	

- 2. In this dialog box:
 - 1) select 'Join data from another layer based on spatial location'.
 - 2) The layer to join is the "SEZ_All-FDRAs_040319" polygon.
 - 3) Select the radio button next to 'it falls inside'.
 - 4) Specify the name of the output shapefile and the location where it will be saved to. The new fire history layer for this example is named "SEZ_Fires_FDRA".
- 3. This new layer will be added to the project in ArcMap. The new "join" layer will have all the fire information and a column that designates the appropriate FDRA to each fire. The user can view this information when the attribute table for the layer is opened. This new layer allows the user to export this data for eventual import into FireFamilyPlus and perform Fires Analysis by associating the fires to their respective FDRAs. To open the attribute table for the "SEZ_Fires_FDRA" layer, right-click on the layer name in the menu tree and select **'Open Attribute Table'**.



4. The attribute table will be displayed, the user can see all of the information associated with the selected historical fire layer. The attribute table in this example contains numerous columns, many of which can be deleted after the file is exported and opened in MS Excel.

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-1	10.634722	5	USFS	AZ	19	019	Pima	1	0	0	8109867	6202863.97198	32835307787.29	2 Desert Grasslands FDRA	-
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5. To export this data, click on the **'Table Options'** icon in the upper left corner of the attribute table. Select the **'Export'** option.

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6. The "Export Data" dialog box will appear. Select 'All records' and specify the file name and where the export file is to be saved. This example shows the file being saved to "Downloads" and the export file name is "SEZFireHistoryTable.csv". *It is important to save this file with the .csv extension.*

Export Da	ata	×
Export:	All records	\sim
Use the s	ame coordinate system as:	
🔵 this la	yer's source data	
🔘 the da	ata frame	
⊖ the fe (only a	ature dataset you export the data into applies if you export to a feature dataset in a geodatabase)	
Output ta	able:	
C:\User	s\Mark\Downloads\SEZFireHistoryTable.csv	2
	OK Cancel	

- 7. When the user clicks on the "Browse" button next to the "Output Table" box, a new window will appear that allows the user to specify the location for storing the export file and the file name.
 - 1) Select where to store the export file.
 - 2) Create a file name and remember to include the .csv extension with the file name.

- 3) In the "Save as type" box, select 'Text File'.
- 4) Click 'Save'.

Saving Data	×
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8. A new dialog box will open asking if the user wants to save the table to the current map. Select **'No'**.

ArcMap		\times
	Do you want to add the new table to the current map?	
	Yes No	

9. Close the attribute table and save and close the ArcMap application at this time.

Importing an ArcMap Data File into MS Excel - Example

This example illustrates how to import data into MS Excel 2016. Earlier versions of MS Excel utilize a slightly different process. Open a new sheet/file in MS Excel and select **'Data'** from the menu bar at the top of the screen. Before importing any data into the Excel spreadsheet, click on the cell in the upper left-hand corner of the spreadsheet (cell A1). The reason for this will explained shortly.

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Next, select the 'Get Data' icon in the upper left corner of the screen.

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⑦ Tell me more					
4					

Next, select 'Legacy Wizards' and then select 'From Text (Legacy)'

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Note: Using earlier versions of MS Excel (i.e. 2007, 2010), open Excel and select **'Data'** from the menu bar at the top of the window. Click on the **'From Text'** icon. Next, select the file and click on **'Import'**. The following steps describe the same process for importing the data into the Excel program.

A dialog box will appear, navigate to the location where the previously downloaded .csv file is stored. Double-click on the .csv file and the following dialog box (**'Text Import Wizard'**) will appear.

Text Import Wizard - Step 1 of 3	?	×
The Text Wizard has determined that your data is Delimited.		
If this is correct, choose Next, or choose the data type that best describes your data.		
Original data type		
Choose the file type that best describes your data:		
• Characters such as commas or tabs separate each field.		
Fixed width - Fields are aligned in columns with spaces between each field.		
Start import at row: 1 File origin: 437 : OEM United States		~
Wy data has headers.		
Preview of file C:\Users\Mark\Downloads\SEZ_FireHistoryTable.csv.		
1 FID. FID. 1, FOD. ID, FPA. ID, SOURCE_SYS, SOURCE_S_1, NWCG_REPOR, NWCG_REP_1, NCG_0, 1, 88, FS-1419070, FED, FS-FIRESTAT, FS, USAZCNF, Coronado National Forest	WCG_REF ,0305,0	2 ^
31,3,333,FS-1419577,FED,FS-FIRESTAT,FS,USAZCNF,Coronado National Fores 42,4,335,FS-1419588,FED,FS-FIRESTAT,FS,USAZCNF,Coronado National Fores	st,0305, st,0305,	. d . d
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Cancel < Back <u>N</u> ext >	<u>F</u> inis	sh

Step 1: First, make sure to select the **'Delimited'** radio button under the "Original data type" section. Note the box that states: **'Start import at row:'**, use the scroll bar to the right of the preview window to scroll down to where the column headers begin. This example shows the column headers beginning in row 1. Change the number in the box to **'1'**. Next check the box next to **'My data has headers'**. Click on **'Next'** and the next step in the dialog box will appear.

Text Import Wizard - Step 2 of 3	?	×
This screen lets you set the delimiters your data contains. You can see how your text is affected in the	preview	below.
Delimiters Lab Semicolon Treat consecutive delimiters as one Comma Space Qther:		
FID FID_1 FOD_ID FPA_ID SOURCE_SYS SOURCE_S_1 NWCG_REPOR NWCG_REPOR 0 1 88 FS-1419070 FED FS-FIRESTAT FS USAZCNF 1 3 33 FS-1419577 FED FS-FIRESTAT FS USAZCNF 2 4 335 FS-1419578 FED FS-FIRESTAT FS USAZCNF 3 6 341 FS-1419615 FED FS-FIRESTAT FS USAZCNF 4 8 345 FS-1419611 FED FS-FIRESTAT FS USAZCNF 5 15 4435 FS-1427622 FED FS-FIRESTAT FS USAZCNF 6 17 4448 FS-1427641 FED FS-FIRESTAT FS USAZCNF	1 NWCG Coro Coro Coro Coro Coro Coro	
Cancel < <u>B</u> ack <u>N</u> ext >	<u>F</u> inis	h

Step 2: Check the box next to **'Comma'**. The **'Tab'** box is the default setting and the user can uncheck this box. Note that the data preview window shows the data beginning with the row that contains the column header names. Click on **'Next'** and the third step in the dialog box will appear.

Text Import Wizard - Step	3 of 3				?	×
This screen lets you select each	h column and	d set the Data	Format.			
Column data format						
<u>General</u>	'Gene	eral' converts n	umeric values to	numbers, date	values to dates,	, and all
() <u>I</u> ext	rema	ining values to	text.			
O Date: MDY	~		<u>A</u>	dvanced		
O Do not import column (sl	kip)					
Data <u>p</u> review						
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Data preview GeneraGeneralGer	neral	General	General	General	General	Gener
Data preview GenerGeneralGeneralGen TID FID 1 FOD ID FPJ	neral A ID	General SOURCE_SYS	General SOURCE S_1 FS_FIDESTAT	General NWCG_REPOR	General NWCG_REP_1	Gener NWCG
Data preview GenerGeneralGen FID FID_1 FOD_ID FPJ 0 1 88 FS- 1 3 333 FS-	neral A_ID -1419070 -1419577	General SOURCE_SYS FEDST	General SOURCE S_1 FS-FIRESTAT FS-FIRESTAT	General NWCG_REPOR FS	General NWCG_REP_1 USAZCNF USAZCNF	Gener NWCG Coror Coror
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Step 3: The default setting for the "Column data format" is pre-selected for **'General'**, this should suffice for the data import. Note that the left column is highlighted in black. If the user has data columns that are not to be imported, the "Data preview" window in this step allows the user to select columns that are not needed for import into FFP. For this example, non-essential columns will be deleted after the data is imported into the spreadsheet. Click on **'Finish'** and the following **'Import Data'** dialog box will appear.

Import Data		?	×		
Select how you want to view this data in your workbook.					
🔲 💿 Table					
Divot	able Report				
Pivot	Chart				
Only Only	Create Connection	n			
Where do you want to put the data?					
• <u>E</u> xisting wo	rksheet:				
=\$A\$1		1			
O <u>N</u> ew works	heet				
Add this data to the Data Model					
		_			
P <u>r</u> operties	ОК	Car	ncel		

Make sure that the button next to **'Existing worksheet'** is checked (this is the default setting) and the first cell to be populated is shown as **'=\$A\$1'**. This is the first cell in the upper left corner of the new worksheet (cell A1). If the user selects 'New worksheet' the data will be imported into a new worksheet. Click on **'OK'** and the data from the .csv file will be imported into the Excel spreadsheet (Example 4).

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5 3	6	341 FS-1419605	FED FS-FIRESTAT	FS USAZI	.NF Coronado Nation	nal Forest	305 Coro	nado National Forest	/:
7 5	15	4435 FS-1427622	FED FS-FIRESTAT	FS USA20	INF Coronado Nation	nal Forest	305 Coro	nado National Forest	10
8 6	17	4448 FS-1427641	FED FS-FIRESTAT	FS USAZI	INF Coronado Nation	nal Forest	305 Coro	nado National Forest	1
9 7	18	4452 FS-1427645	FED FS-FIRESTAT	FS USAZI	INF Coronado Nation	nal Forest	305 Coro	nado National Forest	14
10 8	22	4664 FS-1427993	FED FS-FIRESTAT	FS USAZ	INF Coronado Nation	nal Forest	305 Coro	nado National Forest	24
11 9	23	4668 FS-1428003	FED FS-FIRESTAT	FS USAZI	CNF Coronado Nation	nal Forest	305 Coro	nado National Forest	87
12 10	27	4685 FS-1428031	FED FS-FIRESTAT	FS USAZI	CNF Coronado Nation	nal Forest	305 Coro	nado National Forest	4:
13 11	31	4727 F5-1428106	FED FS-FIRESTAT	FS USAZI	:NF Coronado Nation	nal Forest	305 Coro	nado National Forest	51
14 12	33	4732 F5-1428112	FED FS-FIRESTAT	FS USAZ	INF Coronado Nation	nal Forest	305 Coro	nado National Forest	59
15 13	38	4746 FS-1428130	FED FS-FIRESTAT	FS USAZI	INF Coronado Nation	hal Forest	305 Coro 205 Coro	nado National Forest	8.
17 16	40	4747 F3-1420131	CED ES EIRESTAT	FS USAZI	INF Coronado Nation	al Forest	305 Coro	nado National Forest	
18 16	40	5139 FS-1428826	FED ES-EIRESTAT	FS USAZI	INF Coronado Nation	nal Forest	305 Coro	nado National Forest	11
19 17	54	6056 FS-1430326	FED FS-FIRESTAT	FS USAZI	NF Coronado Nation	nal Forest	305 Coro	nado National Forest	19
20 18	56	6071 FS-1430354	FED FS-FIRESTAT	FS USAZI	INF Coronado Nation	nal Forest	305 Coro	nado National Forest	2:
21 19	58	6276 FS-1430665	FED FS-FIRESTAT	FS USAZI	:NF Coronado Nation	nal Forest	305 Coro	nado National Forest	26
22 20	59	6277 FS-1430666	FED FS-FIRESTAT	FS USAZ	CNF Coronado Nation	nal Forest	305 Coro	nado National Forest	35
23 21	60	6279 FS-1430668	FED FS-FIRESTAT	FS USAZI	CNF Coronado Nation	nal Forest	305 Coro	nado National Forest	34
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25 23	68	6292 FS-1430694	FED FS-FIRESTAT	FS USAZ	NF Coronado Nation	nal Forest	305 Coro	nado National Forest	68
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29 27	78	6311 F5-1430716	FED FS-FIRESTAT	FS USAZI	INF Coronado Nation	nal Forest	305 Coro	nado National Forest	100
30 28	81	6317 FS-1430724	FED FS-FIRESTAT	FS USAZ	CNF Coronado Nation	nal Forest	305 Coro	nado National Forest	10
31 29	82	6354 FS-1430771	FED FS-FIRESTAT	FS USAZI	NF Coronado Nation	nal Forest	305 Coro	nado National Forest	74
32 30	86	6772 FS-1431713	FED FS-FIRESTAT	FS USAZI	INF Coronado Nation	nal Forest	305 Coro	nado National Forest	
\rightarrow	Sheet1	(+)				1.4			E State
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Example 4. Data file exported from ArcMap into an MS Excel spreadsheet and saved as a .csv file.

Save this as a .csv file in MS Excel. Next, the user can check and reorganize the columns to meet the format and organization required to prepare the file for import into FireFamilyPlus.

Generic Fire Import into FireFamilyPlus

Before the user can import custom fire data into FireFamilyPlus, the user needs to know which columns will be used in FFP. The *required fields* in FFP are: 'Fire Number', 'Total Acres', 'Statistical Cause', 'Discovery Date'', and 'Region ID'. The 'Fire Number' must be unique; for this example, use the 'FID' column as the fire number because with multiple agencies' data there may be more than one fire with the same number. If the user selects the 'Fire Number' field and there are duplicates when importing, FFP takes the first number and drops the second. The 'Discovery Date' must be in the mm/dd/yyyy format to import into FFP. The 'Region ID' is the FDRA. Remember to import the 'Fire Name' and the 'Latitude' and 'Longitude'. Delete all other columns in the spreadsheet.

Open the .csv file in MS Excel. This example will delete a number of columns that are not needed for import into FFP. The columns to retain are:

- Discovery Date
- Total Acres
- Statistical Cause
- Fire Name
- Fire Number (This example will use the FID number assigned in ArcMap in order to avoid any duplicate numbers).
- Latitude
- Longitude
- Region ID (FDRAs)

The example below illustrates a reformatted .csv file in MS Excel that contains the requisite information for import into FFP (Example 5). The column headers have been renamed and all non-essential columns have been removed, the .csv file was also saved with a different file name.

A1	▼ : [× ✓	fx Discovery Da	ate							
	А	В	С	D	E	F	G	Н		J	
1	Discovery Date	Total Acres	Statistical Cause	Fire Name	Fire Number	Latitude	Longitude	FDRA			
2	6/26/2005	0.5	1	CUNNINGHAM	0	32.68555556	-109.8691667	3 Forest/Woodland FDRA			
3	7/18/2005	3	1	CEDAR	1	32.75194444	-110.0872222	3 Forest/Woodland FDRA			
4	7/18/2005	18	1	STOWE	2	32.77305556	-109.9422222	3 Forest/Woodland FDRA			
5	7/18/2005	0.1	1	WEST PEAK	3	32.73972222	-110.0402778	3 Forest/Woodland FDRA			
6	7/25/2005	0.1	1	GRANT	4	32.6525	-109.8691667	3 Forest/Woodland FDRA			
7	3/24/2005	38	3	LYLE	5	31.47333333	-110.4263889	3 Forest/Woodland FDRA			
8	3/28/2005	0.1	4	LOG	6	31.41611111	-110.2633333	3 Forest/Woodland FDRA			
9	3/27/2005	1	4	BOND	7	31.37666667	-110.2916667	3 Forest/Woodland FDRA			
10	4/23/2005	0.1	4	RAMADA	8	32.40277778	-110.695	3 Forest/Woodland FDRA			
11	9/1/2005	0.25	1	HITCHCOCK	9	32.37833333	-110.6830556	3 Forest/Woodland FDRA			
12	6/11/2005	0.1	4	SCOPE	10	32.41694444	-110.7269444	3 Forest/Woodland FDRA			
13	6/22/2005	0.1	9	SPENCER	11	32.41611111	-110.7475	3 Forest/Woodland FDRA			
14	7/3/2005	0.1	4	ZION	12	32.41722222	-110.7291667	3 Forest/Woodland FDRA			
15	7/23/2005	0.1	1	DOBBINS	13	32.42111111	-110.7255556	3 Forest/Woodland FDRA			
16	8/9/2005	0.25	1	UPPER SOLDIERS SNAG	14	32.42666667	-110.7386111	3 Forest/Woodland FDRA			
17	8/9/2005	0.1	1	MARSHAL SNAG	15	32.48055556	-110.7541667	3 Forest/Woodland FDRA			
18	4/7/2005	120	4	103 FIRE	16	31.435	-110.3486111	3 Forest/Woodland FDRA			
19	4/17/2005	0.1	4	FALLS	17	31.43361111	-110.2836111	3 Forest/Woodland FDRA			
20	4/21/2005	18	9	LAKEVIEW	18	31.44333333	-110.3988889	3 Forest/Woodland FDRA			
21	5/8/2005	0.1	4	REEF	19	31.42972222	-110.2816667	3 Forest/Woodland FDRA			
22	5/25/2005	10	1	WEST GATE	20	31.53805556	-110.4388889	3 Forest/Woodland FDRA			
23	5/25/2005	0.5	1	RED	21	31.50166667	-110.7286111	3 Forest/Woodland FDRA			
24	6/11/2005	0.1	4	REEF II	22	31.42972222	-110.2822222	3 Forest/Woodland FDRA			
25	7/16/2005	0.1	1	WHETSTONE	23	31.48305556	-110.3638889	3 Forest/Woodland FDRA			
26	7/20/2005	0.5	1	SAWMILL	24	31.44111111	-110.3413889	3 Forest/Woodland FDRA			
27	10/30/2005	0.5	4	3-BYE	25	31.46833333	-110.4733333	3 Forest/Woodland FDRA			
28	11/12/2005	0.1	4	FORTY-EIGHT	26	31.41805556	-110.43	3 Forest/Woodland FDRA			
29	11/30/2005	0.2	4	PAULINE	27	31.48388889	-110.5341667	3 Forest/Woodland FDRA			
30	12/10/2005	0.1	4	TOWNSITE	28	31.43083333	-110.2805556	3 Forest/Woodland FDRA			
31	7/18/2005	0.5	1	BATHTUB	29	31.40694444	-110.3055556	3 Forest/Woodland FDRA			
32	1/7/2006	0.1	4	FIRST	30	31.42944444	-110.3027778	3 Forest/Woodland FDRA			
-	SEZ_FireF	listoryTable	EditedForF (+)				÷ •			
•									4	Display Sett	tings

Example 5. Reformatted MS Excel spreadsheet containing the information required for import into FFP in the proper sequential order as described in step #5 below.

1. To begin the import process in FireFamilyPlus, click on **'Data'** and select **'Import'** and the following **'Import Fire and Weather Data'** dialog box will open.

Import Fire and Weather D	Data	×
Stations WIMS Station Catalog	s	
Weather	Fires	
Old Fwx Files	Agency:	_
FW9/FW13 Files	RAW Files	NASF CSV
Generic Wx Import	WFMI Fire Import	
	Generic Fire Import	
	Close	

2. In the 'Agency' window select the custom "Agency" from the drop-down list. In this example select "SEZ".

Import Fire and Weather	Data X
Stations WIMS Station Catalo	gs
Weather	Fires
Old Fwx Files	Agency: SEZ
FW9/FW13 Files	RAW Files NASF CSV
Generic Wx Import	WFMI Fire Import
	Generic Fire Import
	Close

3. Next, select 'Generic Fire Import' and a dialog box will appear, navigate to where the generic fire import file (.csv) is stored.

🚰 Open				Х
← → 👻 🛧 💺 > This PC > Downloads		v Ö	Search Downloads	م
Organize • New folder				□ ?
> EX_WidfireHazardPotential	^	Name	Date m	
Tonto NFDRS		SEZ_FireHistoryTable	4/4/201	
> INFDRS_2016_RolloutPlanning		SEZ_FireHistoryTable_EditedForFF	P 4/4/201	
📑 Travel				
> 📑 WFDSS		Type: Microsof	t Excel Comma Separated	Values File
📑 Zoom		Date modified:	4/4/2019 12:10 PM	to preview.
> 🚺 Downloads				
> 🜗 Music				
> 📜 Pictures				
> 🐌 ScanSnap Folder	~	<	>	
File name:		~	Generic Fire Import Text Open C	Files (*. 丫 ancel

- 4. Select the generic fire import file and either click on **'Open'** or double-click the file name. The 'Import Generic Fire Data window will appear next.
- 5. Select the Fields in the left box and move them to the right box. What the user sees in the available fields will not have the same name as the headers in the spreadsheet, for example, "FID" will be the "Fire Number". The user will need to make sure that the columns in the spreadsheet match the sequential column order created in FFP. Fields with asterisks must be selected and <u>the order must be the same as the columns in the spreadsheet</u>. Make sure that 'Comma' is selected in the 'Field Delimiter' section and the Date Format is 'MM/DD/YYYY'. Also, make sure that the date format in the spreadsheet matches the 'MM/DD/YYYY' format. The user can verify the regions by clicking in the Region box if desired.

Import Generic Fire Data		×
Select the Fields you wish to input. Column order will be same as order in the Se Fields denoted with an asterisk (*) are manda Region is required unless an optional default	elected Fields list from top to bottom. atory. value is used.	
Available Fields	Selected Fields Discovery Date * Total Acres *	Field Delimiter
State County Township >> Range	<pre>Statistical Cause * Fire Name Fire Number * Latitude Latitude</pre>	 Comma Semicolon (;)
Section Subsection Fire Type Slope Elevation Aspect Fuel Model	Region ID *	Date Format MM/DD/YYYY MMDDYYYY C YYYYMMDD
Discovery Time First Attack Date		Time Format
	Remove All	
Optional Default Values Region: Unit: Subunit:	Duplicate Handling Duplicate checking wil year for each Region. checking will be by Fir each Unit.	I be by Fire Number for each If Units are imported, duplicate reNumber for each year for tes
Cancel	C Reject Duplicates	
Import Fires fro	om:\SEZ_FireHistoryTable_EditedForFF	P.csv

- 6. Note the sequential order of the 'Selected Fields' in the FFP dialog box match the order of the columns in the Excel spreadsheet. Also note that header column E in the spreadsheet (Example 5) is re-labeled "Fire Number" (it was the FID # in the original .csv file); this column will populate the "Fire Number" field in FFP. Remember, as stated above, the column header names in the spreadsheet do not have to match the names of the 'Selected Fields' in FFP.
- 7. Make sure the **'Overwrite Duplicates'** button is selected in the 'Duplicate Handling' section of the dialog box. This will prevent duplicate fires from being added to your FFP database.
- 8. After the steps described above have been completed and the generic fire data is ready for import, click the **'Import Fires from:...'** button located at the bottom of the dialog box.
- 9. Following the data import into FFP, a dialog box will appear.

Import Complete	>	×
Import Complete. 2 errors were encountered.		
Close	View Log	

6. If there are errors, click on the 'View Log' button to open a new window that displays any errors in the import data.

Import Error Log				×
FireFamily Plus Generic Fire Im Started: 04/04/2019 at 12:31:2	port Log 8			
*****	*****			
Import File Name: C:\Users\Ma Record Number 1, E Record Number 991	rk\Downloads\SEZ_F liscovery date is not v 6, no FireID or FireNu	ïreHistoryTable_Edite∉ alid. mber	dForFFP.csv	
Processed 9916 fire records : Appended 1829 rec Updated 8085 existi Rejected 2 records 1	ords. ng records. or bad data.			
import Completed: 04/04/2019 2 errors were encountered.	at 12:32:23			

- 7. Errors such as "no Fire ID or Fire Number", or "Discovery date is not valid" will have to be corrected. Following any corrections, reload the data following the steps as described above.
- 8. Common errors include:
 - a. The sequential order of the columns in the spreadsheet do not match the sequential order of the 'Selected Fields' in FFP.
 - b. The 'Region' (FDRA) names in the spreadsheet do not match the names assigned each FDRA in FFP.
 - c. The 'Region' (FDRA) names in the spreadsheet do not include the numerical code assigned to each FDRA when they were created in FFP (i.e. 1 Sonoran FDRA).
 - d. Missing data in the spreadsheet (i.e. Fire Name, Fire Number, Statistical Cause, etc.).

Remember to associate the imported fire data with the appropriate RAWS or SIGs that are associated with each FDRA. On the Working Set Window click on the '**Fire Associations**' button.

FireFamily Plus - SEZ-SIGsOnly_EXAMPLE_Hourly_Begin2002 - Work	ng Set	- 🗆 X
File Data Weather Fires Options Batch Window Help		
SEZ-SIGSOnly_EXAMPLE_Hourly_Begin2002 - Working Set		
Database Name: C:\Users\Mark\Documents\Work\NFDRS Fire Planning\SEZ_F	P_Databases\2018Databases\2018Databases_NEW_FDR/	
Description: NFDRS 2016 Rollout Testing - February 2018 - SEZ SIGs Only	legin 2000	
Active Working Set Definition SIG/Station Data Years (2002 - 2019) 2004 - thru Enable Audiary Year Overlays	Day 1 * 31 *	
Analysis Period Length (Days)		
	et Fire Associations for SIG - ForestWoodland	×
SIGSIation Metadata: Station II Name NFDRS Fuel Model Option SIGUIT CAMP V. Timber 201302 HOPKINS V. Timber 201302 HOPKINS V. Timber 2	JSFS BLM INPS IFWS INASF SEZ Region(s) Unit(s) Sub Unit(s) ISonoran FDRA 2 Desert Grassiands FDRA 3 Forest/Woodland FDRA Sub Unit(s) Sub Unit(s)	
	iew Selection View Fires OK	Cancel Apply
Current variable sort order: ID (ffpClimateOptions table)		

This example shows the 'Active Working Set Definition' to include the 'ForestWoodland' SIG. After clicking on the 'Fire Associations' button, the 'Set Fire Associations for SIG – ForestWoodland' window appears. First select the appropriate 'Agency', for this example select "SEZ". Next, select the corresponding FDRA for this SIG which is '3 Forest/Woodland FDRA'. Click on 'OK' to save the association.

Set Fire Associations for SIG - Fo	prestWoodland		×
USFS BIA BLM NPS FWS I Region(s) 1 Sonoran FDRA 2 Desert Grasslands FDRA 3 Forest/Woodland FDRA	NASF SEZ 1 Unit(s) 2	Sub Unit(s)	
	iew Selection View Fires	OK Cancel A	pply

Repeat the fire association process for each FDRA in the planning area. For the selected planning area, the user will need to **select the correct association for each RAWS**, depending in which FDRA it resides/represents.