FireFamilyPlus Database Weather Data Import

I. Create the Database File in FireFamilyPlus

- Open FireFamilyPlus version 5
- Create a new database file in FireFamilyPlus (FFP): FFP → File → New
- Name the new database file.
- Save the new database file in a location where it can easily be found later. This step creates an empty database file for use in FFP.
- The user will now learn to populate the database with historical, hourly weather data for their planning area.

II. Weather Data

A. Station Catalog Information

Before hourly weather data can be imported into the FFP database, the user must first identify all of the Remote Automated Weather Stations (RAWS) that will be used for analysis in the planning area. Once the weather stations that are to be used in the analysis process have been identified, the user must then download the weather station catalog information for each RAWS from the internet and then import this information into FFP.

There are two ways the user can access and download station catalog files.

- 1. Station catalog files can be found on the National Fire and Aviation Management (FAMWEB) website: <u>https://fam.nwcg.gov/fam-web/</u>
- Station catalog files can also be found on the Kansas City Fire Access SofTware (KCFAST) website: <u>https://fam.nwcg.gov/fam-web/kcfast/mnmenu.htm</u>

1. Downloading Station Catalog Information from FAMWEB:

- Open the FAMWEB website (<u>https://fam.nwcg.gov/fam-web/</u>)
- From the menu items on the left side of the home page select '*Wildland Fire Related Links*'
- Select 'Fire and Weather Data' and a new page will be displayed:



- Click on 'State Data'
- Select the State and a new page will be displayed:

льн» <mark>П</mark> 900	kmarks 🤐 A									
e & We	ather	Data: Arizo	ona							
			Jump to	data rows	Last Upd	ated				
e Data			Weather	r Files	13-Feb-20	19				
	Selec	t state:	Fires - B	AIA	12-Mar-20	018				
<u>IS</u>	Arizona	-	Fires - B	<u>ILM</u>	12-Mar-20	018				
	Anzona		Fires - F	<u>'S</u>	12-Mar-20	018				
			Fires - F	ws	23-Jun-20	18				
			Fires - N	IPS	12-Mar-20	018				
	Weat	her Files								
	Station Number	Name	Station Type	Catalog		Weather FV	V9	Weather FW13	Years	
	Station Number 021004	Name	Station Type 2	Catalog wistinv1!02100	4.txt	Weather FV	V9 <u>tw9</u>	Weather FW13 wx021004.tw13	Years	
	Station Number 021004 021005	Name	Station Type 2 4	Catalog wistinv1!02100 wistinv1!02100	4.txt 5.txt	Weather FV wx021004. wx021005.	V9 <u>tw9</u> <u>fw9</u>	Weather FW13 <u>wx021004.tw13</u> <u>wx021005.fw13</u>	Years 19/4-19// 19/9-1992 1976-1984 1989-2018	_ ^
	Station Number 021004 021005 021006		Station Type 2 4 7	Catalog wistinv1!02100 wistinv1!02100 wistinv1!02100	4.txt 5.txt 6.txt	Weather FV wx021004. wx021005. wx021006.	V9 <u>fw9</u> <u>fw9</u> fw0	Weather FW13 wx021004.tw13 wx021005.fw13 wx021006.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986	
	Station Number 021004 021005 021006 021007	Name COLUMBINE MULE SHOE	Station Type 2 4 7 4	Catalog wistinv1!02100 wistinv1!02100 wistinv1!02100 wistinv1!02100	4.txt 5.txt 6.txt 7.txt	Weather FV wx021004. wx021005. wx021006. wx021007.	V9 fw9 fw9 fw9 fw9	Weather FW13 wx021004.fw13 wx021005.fw13 wx021006.fw13 wx021007.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986 1987-1995 1997-2018	
	Station Number 021004 021005 021006 021007 021008	Name COLUMBINE MULE SHOE BLACK HILLS	Station Type 2 4 7 4 4 4	Catalog wistinv1!02100 wistinv1!02100 wistinv1!02100 wistinv1!02100 wistinv1!02100	4.txt 5.txt 6.txt 7.txt 8.txt	Weather FV wx021004. wx021005. wx021006. wx021007. wx021007. wx021008.	V9 fw9 fw9 fw9 fw9 fw9 fw9	Weather FW13 wx021004.fw13 wx021005.fw13 wx021006.fw13 wx021007.fw13 wx021008.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986 1987-1995 1997-2018 1988-2018 1968-2018	
	Station Number 021004 021005 021006 021007 021008 021009	Name COLUMBINE MULE SHOE BLACK HILLS DRY LAKE NAON REFER	Station 7 4 7 4 4 4 4 4 4	Catalog wistinv1102100 wistinv1102100 wistinv1102100 wistinv1102100 wistinv1102100 wistinv1102100	4.txt 5.txt 6.txt 7.txt 8.txt 9.txt	Weather FV wx021004. wx021005. wx021006. wx021007. wx021007. wx021008. wx021009.	V9 fw9 fw9 fw9 fw9 fw9 fw9 fw9	Weather FW13 wx021004.fw13 wx021005.fw13 wx021006.fw13 wx021007.fw13 wx021008.fw13 wx021009.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986 1987-1995 1997-2018 1988-2018 1980-2018 1980-2019	
	Station Number 021004 021005 021006 021007 021008 021009 021009 021010 021099	Name COLUMBINE MULE SHOE BLACK HILLS DRY LAKE NOON CREEK CORONADO PORTABLE 2	Station 2 4 7 4 4 4 3	Catalog Wistinv1/02100 wistinv1/02100 wistinv1/02100 wistinv1/02100 wistinv1/02100 wistinv1/02101 wistinv1/02101	4.txt 5.txt 6.txt 7.txt 8.txt 9.txt 9.txt 9.txt	Weather FV wx021004. wx021005. wx021006. wx021007. wx021008. wx021009. wx021010. wx021010. wx021010.	V9 fw9 fw9 fw9 fw9 fw9 fw9 fw9 fw9 fw9	Weather FW13 wx021004.fw13 wx021005.fw13 wx021006.fw13 wx021007.fw13 wx021009.fw13 wx021010.fw13 wx02101.fw13 wx02101.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986 1987-1995 1997-2018 1988-2018 1950-1950 1997-2018 1993-2018	
	Station Number 021004 021005 021006 021007 021008 021009 021009 021099 021099 021001	Name COLUMBINE MULE SHOE BLACK HILLS DRY LAKE NOON CREEK CORONADO PORTABLE 2	Station 2 4 7 4 4 4 3 7	Catalog Wistinv1/02100 wistinv1/02100 wistinv1/02100 wistinv1/02100 wistinv1/02100 wistinv1/02101 wistinv1/02109 wistinv1/02100	4.txt 5.txt 6.txt 6.txt 7.txt 8.txt 9.txt 9.txt 9.txt 1.txt	Weather FV wx021004. wx021005. wx021007. wx021007. wx021008. wx021009. wx021010. wx021010. wx021010. wx021010. wx021010.	V9 Tw9 fw9 fw9 fw9 fw9 fw9 fw9 fw9 f	Weather FW13 wx021004.fw13 wx021005.fw13 wx021006.fw13 wx021007.fw13 wx021009.fw13 wx021009.fw13 wx02101.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986 1979-1995 1997-2018 1988-2018 1950-1950 1997-2018 1993-2018 1993-2018 1967-1969	
	Station Number 021004 021005 021007 021008 021009 021009 021009 021009 021010 021099 021101 021102	Name COLUMBINE COLUMBINE MULE SHOE BLACK HILLS DRY LAKE NOON CREEK CORONADO PORTABLE 2	Station 2 4 7 4 4 4 3 7 7	Catalog Vistinv1/02100 vistinv1/02100 vistinv1/02100 vistinv1/02100 vistinv1/02100 vistinv1/02101 vistinv1/02109 vistinv1/02110	4.txt 5.txt 6.txt 7.txt 8.txt 9.txt 9.txt 9.txt 9.txt 1.txt 2.txt	Weather FV wx021004. wx021005. wx021007. wx021007. wx021008. wx021009. wx021010. wx021010. wx021010. wx021010. wx021010. wx021010. wx021101. wx021101.	V9 Tw9 fw9 fw9 fw9 fw9 fw9 fw9 fw9 f	Weather FW13 wx021004.fw13 wx021005.fw13 wx021006.fw13 wx021007.fw13 wx021009.fw13 wx021009.fw13 wx02101.fw13 wx02101.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986 1987-1995 1997-2018 1988-2018 1950-1950 1997-2018 1993-2018 1993-2018 1967-1969 1971-1974	
	Station Number 021004 021005 021007 021008 021009 021009 021009 021009 021010 021010 021010 021010 021101 021102 021103	Name COLUMBINE COLUMBINE MULE SHOE BLACK HILLS DRY LAKE NOON CREEK CORONADO PORTABLE 2	Station 2 4 7 4 4 3 7 7 7 7 7 7 7 7 7 7	Catalog Wistinv1102100 wistinv1102100 wistinv1102100 wistinv1102100 wistinv1102100 wistinv1102101 wistinv1102101 wistinv1102110 wistinv1102110	4.txt 5.txt 6.txt 7.txt 8.txt 9.txt 9.txt 9.txt 9.txt 1.txt 2.txt 3.txt	Weather FV wx021004. wx021005. wx021007. wx021008. wx021009. wx021010.	V9 tw9 tw9 fw9 fw9 fw9 fw9 fw9 fw	Weather FW13 wx021004.fw13 wx021005.fw13 wx021006.fw13 wx021007.fw13 wx021009.fw13 wx021009.fw13 wx02101.fw13 wx02101.fw13 wx02101.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986 1987-1995 1997-2018 1988-2018 1950-1950 1997-2018 1993-2018 1993-2018 1997-1969 1971-1974 1979-1981	
	Station Number 021004 021005 021007 021008 021009 021009 021009 021010 021009 021010 021010 021101 021102 021104	Name COLUMBINE COLUMBINE MULE SHOE BLACK HILLS DRY LAKE NOON CREEK CORONADO PORTABLE 2 GUTHRIE	Station 2 4 7 4 4 4 3 7 7 7 7 4	Catalog w/stinv1/02100 w/stinv1/02100 w/stinv1/02100 w/stinv1/02100 w/stinv1/02100 w/stinv1/02101 w/stinv1/02100 w/stinv1/02110 w/stinv1/02110	4.txt 5.txt 6.txt 7.txt 8.txt 9.txt 9.txt 9.txt 9.txt 9.txt 1.txt 2.txt 3.txt 4.txt	Weather FV wx021004. wx021005. wx021007. wx021008. wx021009. wx021010. wx021101. wx021101. wx021101. wx021101. wx021101.	V9 tw9 fw9 fw9 fw9 fw9 fw9 fw9 fw9 f	Weather FW13 wx021004.fw13 wx021005.fw13 wx021006.fw13 wx021007.fw13 wx021009.fw13 wx021009.fw13 wx021009.fw13 wx02101.fw13 wx02101.fw13 wx02101.fw13 wx02101.fw13 wx02101.fw13 wx021101.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986 1987-1995 1997-2018 1988-2018 1950-1950 1997-2018 1993-2018 1993-2018 1997-1969 1971-1974 1979-1981 1975-2018	
	Station Number 021004 021005 021007 021008 021009 021010 021009 021010 021101 021102 021103 021104 021104 021104 021105	Name COLUMBINE COLUMBINE MULE SHOE BLACK HILLS DRY LAKE NOON CREEK CORONADO PORTABLE 2 CORONADO PORTABLE 2 GUTHRIE TRAIL CABIN	Station 2 4 7 4 4 4 3 7 7 7 7 4	Catalog w/stinv1/02100 w/stinv1/02100 w/stinv1/02100 w/stinv1/02100 w/stinv1/02100 w/stinv1/02101 w/stinv1/02110 w/stinv1/02110 w/stinv1/02110 w/stinv1/02110	4.txt 5.txt 6.txt 7.txt 8.txt 9.txt 9.txt 9.txt 9.txt 9.txt 1.txt 2.txt 3.txt 4.txt 5.txt	Weather FV wx021004. wx021005. wx021006. wx021008. wx021009. wx021010. wx021010. wx021010. wx021010. wx021010. wx021010. wx021101. wx021101. wx021101. wx021101. wx021101. wx021101. wx021101. wx021101.	V9 V9 fw9 fw9 fw9 fw9 fw9 fw9 fw9 fw	Weather FW13 wx021004.fw13 wx021005.fw13 wx021006.fw13 wx021007.fw13 wx021009.fw13 wx021009.fw13 wx02101.fw13 wx02101.fw13 wx021101.fw13 wx021101.fw13 wx021101.fw13 wx021101.fw13 wx021102.fw13 wx021103.fw13	Years 19/4-19// 19/9-1992 1976-1984 1989-2018 1979-1986 1987-1995 1997-2018 1988-2018 1950-1950 1997-2018 1993-2018 1993-2018 1997-1969 1971-1974 1979-1981 1995-2018 1997-1904	

• The station catalog files can be selected for each RAWS in the 'Catalog' column.

• Station catalog files can only be downloaded individually. Right-click on the station catalog file of interest and select the 'Save link as...' option. Download and save the file to a location on the computer where it can be located later. The user will need to upload the station catalog information into FFP for all of the RAWS the user is working with in their planning area.

2. Downloading Station Catalog Information from KCFAST

 Open the KCFAST website (<u>https://fam.nwcg.gov/fam-web/kcfast/mnmenu.htm</u>). Note: The KCFAST website can also be accessed through the FAMWEB website. The link is located with the menu items on the left side of the FAMWEB home page. The KCFAST home page will load.



• Select 'Weather' from the menu items on the left side of the home page.

• Select 'Station Catalog' from the menu items on the left side of the page. A new window will open.



• Select 'Station Information' from the menu items on the left side of the page and a new window will open.

🗅 Fire & Aviation Management Ho: 🗙 🗋 WIN - FAST Wx	tation Catalog N × +		- 0 ×
\leftarrow \rightarrow C $($ https://fam.nwcg.gov/fam-web/kcfas	t/html/stnmenu.htm		२ 🖈 🖻 🧭 💆 🕼 :
🗰 Apps 📙 Bookmarks 🧕 Amazon Prime ★ Bookman	ks 💪 Google 🎦 MesoWest AZ RAWS 🎹 SWCC 🎦 WFD	SS Home 🗋 Index of Public/Inci 🕒 Fire Data in Google 🤱 ROSS Log	jin 🗋 McAfee - Dashboard
KCFAST Main Menu	KCFAST	- Kansas City Fire Access SofTware	
Weather			
Data Extract		Fire Weather Station Catalog Information	
Station Catalog	The weather information, 'Station Catalog' submenu provides opti	ons to define data extraction criteria for retrieval of current catalog informatio	n in a standard format and queried by
Station Information	state and county, or define an ad-noc data download with more ro	ust query options.	
Other Sources			
Fire			
Products			
KCFAST BATCHOUT site			
About KCFAST			

- This window allows the user to select station information either 'BY STATE' or 'BY SINGLE STATION'. This exercise recommends selecting 'BY SINGLE STATION'.
- Select 'BY SINGLE STATION' and enter the Station ID number. This example is requesting station information for station 021007.
- Select 'Send file to FTP site'.
- When sending the station catalog file to FTP site, the user can indicate if they wish to receive an email notification when the report is available.
- Select 'Submit'. A new window will appear with a message confirming the information request.

🗅 Fire & Aviation Management Hor 🗙 🌓 KCFAST State I	Menu x + - Ø X
← → C 🌲 https://fam.nwcg.gov/fam-web/kcfa	fast/html/stnstmenu.htm Q 🕁 😇 🧭 💆 👹 🗄
🏥 Apps 📙 Bookmarks 🧕 Amazon Prime 🌟 Bookm	narks 🔓 Google 🕒 MesoWest AZ RAWS 🁖 SWCC 🖒 WFDSS Home 🌓 Index of Public/Inci 🖒 Fire Data in Google 🧕 ROSS Login 🏠 McAfee - Dashboard
KCFAST Main Menu	Weather Station Information
Weather	
Data Extract	Please select station information either "BY STATE" or "BY SINGLE STATION"; then enter the appropriate query criteria. Note that if your selection is "BY STATE", you must also choose the desired output format. If your selection is "BY SINGLE STATION" and do not need to select a date.
Station Catalog Station	STATION INFORMATION
Information	
Other Sources	Desired Output: Station ID:
Fire	• Formatted Report for State
Products	(Use "Formatted" option for FTP requests.) Station ID: 021007
KCFAST BATCHOUT site	Fuel Models
About ECEAST	Datafile Definition
ADDUCKLEASE	State:
	OR - HISTORICAL: AMIS
	Output Destination:
	Send file to browser Send file to FTP site
	If sending file to FTP site, please indicate if you wish to receive an email notification when the report is available.
	Send email • Do not send email •
	Submit Reset

• To access the station information from the FTP site, select 'KCFAST BATCHOUT site' from the menu items on the left side of the screen or click on the 'Batchout' link in the confirmation message.

• The KCFAST batchout window lists results from all RAWS- and fire data-related information requests made through KCFAST. The requested station information is provided in a .txt file format and uses a specific naming convention. The user will need to scroll down through this extensive list to find their requested information.

Ľ	Fin	e & Aviation Managemen	nt Hor 🗙 📔 KCFAST S	itate Menu		× 🗋 Index of /I	cfast/bat	tchout	× +						-	٥	×
\leftarrow	\rightarrow	C 🔒 https://f	fam.nwcg.gov/fam-web	/kcfast/b	atchout/							Q	☆	۵	0 🛛	()	:
-	Арр	os 📙 Bookmarks 🧕	🕽 Amazon Prime 🔺 Bi	ookmarks	G Google	MesoWest AZ	RAWS	T swcc	WFDSS Home	Index of Public/Inci	🎦 Fire Data in Google	a ROSS Login	0	McAfee	- Dashboard	I	
In	de	ex of /kcfas	t/batchout														^
		Name	Last modified	<u>Size</u> [Description												
2[D]	[R]	Parent Directory	18-Nov-2015 23:15	-													
[D]	[R]	NICC/	14-Apr-2019 19:32														
		afiedt.but	26-Apr-2011 23:19	1k													
- Con		ca-monthly-obs.twg	05-Apr-2019 03:17	1051													
Str.	(T1	currest.txt	10-Apr-2019 00:56	273k													
Sitt.	cT1	didy2018100815 +v+	98-0ct-2019 12:54	214													
CT 1	πī	didx2018100816.txt	08-Oct-2018 19:12	21k													
CT 2	стi	didx2018100817.txt	08-Oct-2018 20:12	21k													
- Sito	σį	didx2018100818.txt	08-Oct-2018 21:12	21k													
- Ditto	ктj	didx2018100819.txt	08-Oct-2018 22:12	24k													
(1)	(T)	didx2018100820.txt	08-Oct-2018 23:12	24k													
- D	(T]	didx2018100821.txt	09-Oct-2018 00:12	24k													
D]\$	(T)	<u>didx2018100822.txt</u>	09-Oct-2018 01:12	24k													
	(T]	didx2018100823.txt	09-Oct-2018 02:12	28k													
	(T)	didx2018100900.txt	09-Oct-2018 03:12	1k													
	(T)	didx2018100901.txt	09-Oct-2018 04:12	1k													
	(T)	didx2018100902.txt	09-Oct-2018 05:12	1k													
	(T)	didx2018100903.txt	09-UCT-2018 05:12	16													
- Contraction		didx2018100904.txt	09-UCT-2018 07:12	114													
1 Sitt	cT1	didx2018100905.txt	09-0ct-2018 08:12 09-0ct-2018 09:12	14													
Sin.	πī	didx2018100907.txt	09-Oct-2018 10:12	4k													
CT ST	πī	didx2018100908.txt	09-Oct-2018 11:12	4k													
CT 2	стi	didx2018100909.txt	09-Oct-2018 12:12	8k													
T Sito	σi	didx2018100910.txt	09-Oct-2018 13:12	8k													
T)	ктj	didx2018100911.txt	09-Oct-2018 14:12	8k													
[T]	(T]	didx2018100912.txt	09-Oct-2018 15:12	12k													
- D	(T]	didx2018100913.txt	09-Oct-2018 16:12	13k													
[T]	(T)	didx2018100914.txt	09-Oct-2018 17:12	18k													
	(T]	didx2018100915.txt	09-Oct-2018 18:12	19k													
	ci j	d1dx2018100916.txt	09-0ct-2018 19:12	22K													
C C		didx2018100917.txt	09-UCT-2018 20:12	23K													
SIT.		didx2018100918.txt	09-0ct-2018 21:12 09-0ct-2018 22:12	236													
Sit.	άT1	didy20101000010.txt	09-0ct-2018 22:12 09-0ct-2018 23:12	256													
C into	πi	didx2018100921.txt	10-Oct-2018 00:12	27k													
S IT2	σī	didx2018100922.txt	10-Oct-2018 01:12	27k													
Ti	πi	didx2018100923.txt	10-Oct-2018 02:12	30k													
- <u>Б</u> р	сŢ	didx2018101000.txt	10-Oct-2018 03:12	1k													
ED 🕄	сŢ	<u>didx2018101001.txt</u>	10-Oct-2018 04:12	1k													
- 📄 [T)	(T]	<u>didx2018101002.txt</u>	10-Oct-2018 05:12	1k													
- D	(T)	didx2018101003.txt	10-Oct-2018 06:12	1k													
 [T)	(Т]	didx2018101004.txt	10-Oct-2018 07:12	1k													
	(T)	didx2018101005.txt	10-Oct-2018 08:12	1k													
	(T)	didx2018101006.txt	10-Oct-2018 09:12	4k													
	(1)	didx2018101007.txt	10-Oct-2018 10:12	4k													
	ci J.	<u>a1ax2018101008.txt</u>	10-UCT-2018 11:12	4k													-

- This example requested station catalog information for RAWS 021007. The .txt file is labelled: wlstinv1!021007.txt
- The date, time, and file size are listed to the right of the filename.

D F	re & Aviation Managemer	nt Hor 🗙 🗋 KG	CFAST Sta	ate Menu		×	Index of /kcfast/	batchout	×	+							-	٥	×
← -	C https://	fam.nwcg.gov/far	m-web/	kcfast/ba	atchout/									2 1	2	J 📀	M	٩	:
📰 Ap	ps 📙 Bookmarks 💈	Amazon Prime	🛨 Boo	okmarks	G Google	D	MesoWest AZ RAWS	T swcc	Βv	VFDSS Home	Index of Public/Inci	Fire Data in Google	a ROSS Log	in [) McA	fee - Da	shboard		
	plst20190408.txt	09-Apr-2019 (02:08	26k															•
TXT	plst20190410.txt	11-Apr-2019	02:08	23k															
Тхт	plst20190411.txt	12-Apr-2019	02:08	23k															
Σ[ΤΧΤ]	<u>plst20190412.txt</u>	13-Apr-2019 (02:08	23k															
TXT]	plst20190413.txt	14-Apr-2019 (02:08	22k															
SITYT:	pist20190414.txt	15-Apr-2019 (02:08	26K															
TXT	staffing.txt	13-Apr-2019	09:56	199k															
Тхт	station.txt	13-Apr-2019	09:54	200k															
Σ[ΤΧΤ]	<pre>wims_current_fcst.cs</pre>	v 15-Apr-2019 (06:52	223k															
TXT]	wims_current_obs.csv	14-Apr-2019	22:50	336k															
	wims_staffing_info.c	sv 13-Apr-2019 (09:52	150k															
SITXT	wims wfas mol ostime	V 13-Apr-2019 V 03-Aug-2018 1	13-26	230K															
TXT	wlstact1!CALIFORNIA.	txt 14-Mar-2019 :	12:04	122k															
Тхт	wlstact1!MICHIGAN.tx	t 06-Jan-2019 (09:04	13k															
E [TXT]	wlstact1!WASHINGTON.	txt 15-Jan-2019 :	16:04	43k															
Z[TXT]	wlstinv1!020291.txt	10-Apr-2019	17:44	4k															
	wistinv1:020401.txt	23-Oct-2018	17:24	4k															
SITYT S	wistinv1/020001.txt	05-Apr-2019 .	17:14 09:54	4K 4k															
TXT	w1stinv1!020609.txt	05-Mar-2019	10:14	5k															
TXT	wlstinv1!020903.txt	09-Jan-2019	17:14	4k															
Det tat	wlstinv1!020906.txt	03-Apr-2019	10:34	4k	-														
Z[TXT]	wlstinv1!021005.txt	09-Jan-2019	17:14	5k	- ⁻	ГХТ	l wlstir	w1102	100	17 + x +	12-Δn	r-2019 14.0	14	Δk					
	wistinv1/021007.txt	12-Apr-2019	14:04	4k		· · · ·	MISCH	101.02	100	//. C/C	12 AP	2019 14.0	-	-					
S TXT	wistinv1:021008.txt	09-Jan-2019 . 03-Apr-2019 .	10:34	4K 4k															
ТХТ	wlstinv1!021010.txt	09-Jan-2019	17:14	4k															
Т хт]	wlstinv1/021104.txt	09-Jan-2019 :	17:14	4k															
[TXT]	wlstinv1!021202.txt	11-Apr-2019	23:04	4k															
ETXT]	wlstinv1!021205.txt	11-Apr-2019	23:04	4k															
SITXT:	wistinv1:021206.txt	11-Apr-2019 .	23:04	5K															
SITXT S	wlstinv1!021207.tXt	11-Apr-2019	23:04	5k															
б[тхт	wlstinv1!021209.txt	11-Apr-2019	23:04	4k															
[ТХТ]	wlstinv1!021302.txt	11-Apr-2019	23:04	4k															
Z [TXT]	wlstinv1!021303.txt	09-Jan-2019	17:14	4k															
ETXT]	wistinv1!021409.txt	09-Jan-2019	17:24	4k															
SITYT:	wistinv1/021411.txt	09-Jan-2019 1	23-04	4K 4L															
SITXT	wlstinv1!040203.txt	11-Dec-2018	12:24	4k															
Тхт	wlstinv1!040217.txt	03-Dec-2018	10:44	4k															
[ТХТ]	wlstinv1!040221.txt	05-Mar-2019	14:44	5k															
[ТХТ]	wlstinv1!040222.txt	11-Dec-2018	12:34	4k															
	wlstinv1:040228.txt	03-Dec-2018	10:44	5k															
	wistinv1:040231.txt	03-Dec-2018	10:44	5K SL															
TXT	wlstinv1!040243.txt	03-Dec-2018	10:44	4k															
Тхт	wlstinv1!040244.txt	03-Dec-2018	10:44	4k															
[тхт]	wlstinv1!040245.txt	03-Dec-2018	10:44	4k															
ETXT]	wlstinv1!040247.txt	03-Dec-2018	10:44	3k															
	wistinv1:040306.txt	03-Dec-2018 :	10:44	6k															
	W15C10V1:040402.TXT	03-Dec-2018 .	10.44	+16															-

- After the user has located the desired file in the list on the batchout site, right-click on the filename and select 'Save link as...'. Save the file to a location where it can be accessed later for import into FFP.
- Follow this process for downloading station catalog information for each RAWS station of interest.

B. Historical Weather Information

NFDRS2016 uses *hourly* weather data versus the legacy NFDRS model which utilizes daily weather data.

Weather data sources:

3. Climate, Ecosystem and Fire Applications (CEFA): https://cefa.dri.edu/

Historical weather data that can be retrieved through the CEFA website is *available for downloading through 2017*. Historical weather data *after* 2017 can be obtained from the KCFAST website. The process for using KCFAST will be presented shortly.

CEFA allows the user to download hourly weather data in two ways:

a) Download FW13 weather data files directly from the CEFA site: <u>https://cefa.dri.edu/</u>→ Products → CEFA Data → NFDRS2016 RAWS (<u>https://cefa.dri.edu/raws/</u>)

→ C 🏻 â http	s://cefa.dri.edu/raw	s/index.php								☆
pps 📙 Bookmarks	a Amazon Prime	🗙 Bookmarks	G Google	MesoWest AZ RAWS	🛞 swcc	WFDSS Home	Index of Public/Inci	Fire Data in Google	M ROSS Login	Ľ
		l I	Progra	m for Clima	te, Ec	osystem a	nd Fire Appl	ications		
				Products	CANSAC	About CEFA	Links			
					RA	WS FW13				
IMPORTANT	NOTE REGARD	ING THESE FI	LES – PLE	ASE READ						
During the co which FF+ wi not about unt current estima	urse of preparing I struggle with. Th I more detailed a ate of completion.	these FW13 fil nere are approx nalyses are per	les, data en ximately 30 rformed). W	rors were discovered 0 stations where kno /e are continuing to a	l in a numl wn errors attempt res	per of stations. In currently exist (th solving the errors,	some cases, the data ere may still be other but it is a manual pro	a error disrupts the dat r errors in the full datas occess, and will take tin	ta formatting, set that we do ne with no	
When a static errors, a FW1 files in both c case before a (tim.brown@g	n ID is entered a 3 file will still be a ases in an attemp nalysis. It is at the Iri.edu).	nd the discover available, but n of to not hold up e analyst's disc	red errors n ote that it c NFDRS16 cretion to de	esolved, the output fi ontains one or more regional analyses w termine how best to	ile will bec known err vaiting for resolve th	ome readily availa ors. A message w hese files. It is str e error. Please fe	able for download. If t /ill be displayed remin rongly advised that th el free to let us know	the station is one in the nding of this. We are p le data files be examin of any discovered dat	e list of known providing the ned in either a errors	
The Excel file continue to up	contains two she odate the files as	ets – one listin best we can. T	g stations v hank you fo	vith known errors res or your patience.	solved, the	other a list of sta	tions currently knowr	i to have a data issue.	We will	
RAWS List										-
Please ente	r NWSID: 02100	07 locate	FW13 file)						
download	'021007.fw13" i	n FW13 form	at							-

- b) Enter the National Weather Service ID (NWSID) RAWS ID number and click on 'locate FW13 file'
- c) Click on 'download "xxxxx.fw13" in FW13 format...'
 - 1. Store the download file in a location where it can be located later. The user will upload this data into FFP after having collected the hourly data for all of the RAWS associated with the planning area.
- 4. CEFA-WFAS FW13 Fire Weather Data File Interface (interactive map website): https://www.wfas.net/nfdrs2016/maps/
 - a) The interactive map allows the user to zoom into their state/planning area, select each RAWS, and download the hourly data.



b) Select a RAWS and follow the on-screen instructions to download the hourly fw13 data file. Save the file to a location where it can be found later. The user will upload this data into FFP after having collected the hourly data for all of the RAWS that are associated with the planning area.

5. KCFAST (Kansas City Fire Access SofTware)

Historical hourly weather data beginning on January 1, 2018 to present can be downloaded through the KCFAST website: <u>https://fam.nwcg.gov/fam-web/kcfast/mnmenu.htm</u>

The KCFAST website can be accessed through FAMWEB (https://fam.nwcg.gov/fam-web/).

 From the menu items on the left side of the FAMWEB home page select 'KCFAST', a new page will be displayed:



• Select 'Weather' and a new page will be displayed:



• Select 'Data Extract', a new page will be displayed:

← → C 🔒 https://fam.nwcg.gov/fam-web/kcf	ast/html/wxdmenu.htm 🔄 🗹 🗸 🖳 🖉 😫 🗄
🏥 Apps 📙 Bookmarks 🤱 Amazon Prime ★ Bookm	narks 💪 Google 🎦 MesoWest AZ RAWS 🔕 SWCC 🔕 WFDSS Home 🎦 Index of Public/Inci 🎦 Fire Data in Google MR ROSS Login 🗋 McAfee - Dashboard
KCFAST Main Menu	<u>KCFAST</u> - <u>K</u> ansas <u>C</u> ity <u>F</u> ire <u>A</u> ccess <u>SofT</u> ware
Weather	Fire Weather Information Extraction
Data Extract	The weather information, Data Extract' submenu provides options to define data extraction criteria for retrieval of current, daily information from WIMS, historical fire weather information from NIFMID in 'standard' formats, or define an ad-hoc data download;
Historical Extract Downloads Utilities Station Catalog Other Sources	
<u>Fire</u>	
Products	
Anonymous FTP site	
About KCFAST	

• Select 'Historical' and a new page will be displayed:

← → C ⁱ	m-web/kcfast/html/wxhmenu.htm 📩 😈 🖉 💋 👹 : 🖈 Bookmarks 💪 Google 🗋 MesoWest AZ RAWS 🚯 SWCC 🚯 WFDSS Home 🎦 Index of Public/Inci 🎦 Fire Data in Google M ROSS Login 🇋 McAfee - Dashboard
KCFAST Main Menu	FW13 Extract User Guide Fire Weather Information Extraction
Weather	Historical Observations - FW13 Format
Data Extract	Required Information
Historical	Station ID: 1
Extract Downloads	Start Date: End Date:
Utilities Station Catalon	Observation Type 2
Other Sources	Schedule Option ® Run it now
Fire	Run Extract
Products	
	Anna Anna Anna Anna Anna Anna
Anonymous FTP site	
About KCFAST	

- Enter the applicable Station ID
- Enter the applicable Start and End Dates
- DO NOT FORGET to check the 'Hourly' radio button. The default is 'Daily'...
- Click on 'Run Extract'
- Save the download file to a location where it can be easily located. The user will upload this data into FFP after having collected the hourly data for all of the RAWS associated with the planning area.

C. Importing Historical Weather Information into FireFamilyPlus

The user should have now downloaded the station catalog, and historical hourly weather data files (.fw13 format) for each RAWS to be used in the analysis process. The next step is to import this weather information into the FFP database.

- 1. Importing Station Catalog Information into FFP
- Open FFP, make sure to open the new FFP database that was created earlier, 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:

• Click on the 'WIMS Station Catalogs' button. Navigate to the location on the computer where the downloaded station catalog files have been stored. Each file will need to be imported individually. Double-click on a selected station catalog file (e.g. wlstinv1!021007.txt) to import it into the FFP database. A new window will appear letting the user know that the file has finished importing:

rce NFDRS4	2016 Recompute Import Fire and Weather Data	
Ava Preci 00 00 00	Stati Import Complete X Import Complete. 0 errors were encountered. Be sure to check for and enter missing values for imported stations. Especially Greenup and Freeze dates! (The Grippster, 1999) 1999) Close View Log	
	Close	

2. Importing Historical Hourly Weather Data into FFP

- After importing all of the station catalog files, the FFP database is now ready to accept the hourly weather data for each RAWS.
- Navigate back to the 'Import Fire and Weather Data' window ('Data' → 'Import') and click on the 'FW9/FW13 Files' button.
- Navigate to the location on the computer where the downloaded hourly weather data files (e.g. .fw13 file format) have been stored. Each file for each RAWS will need to be imported individually. Double-click on a selected weather file to import it into the FFP database.
- A new window will appear that states: "FireFamily Plus can overwrite existing records or disregard import data for existing records. Note: Existing data fields that are NULL will always be updated if import data is not NULL. Should existing records be overwritten?" Click on the 'Yes' button. A new window will appear after the import is complete:

DRSor	nie Per Impor	t Fire and Weather Data	×
reci	Stati	Import Complete	×
	Wea	Import Complete. 0 errors were encountered. Records imported: 3945 Check log file for Hourly Precip calculation notes. Close	•
		Close	

• Select 'Close' if no errors were encountered. If errors were noted, the user can select 'View Log' and the program will display any errors found.

Complete the process of importing station catalog and historical hourly weather files for each RAWS that will be considered for analysis in the planning area. Note: RAWS being considered for use in future analysis do not have to be physically located in the study area.