Great Lakes Fire and Fuels

http://glffc.utah.edu

Web Portal. Version 1.0

March 1, 2011

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	CFFDRS Initial Values and Data Updates (Restricted Access)

Login | Create a User!

Background

With the support and direction of <u>Michigan DNRE</u>, <u>Minnesota DNR</u>, and <u>Wisconsin DNR</u> and under the auspices of the <u>Great Lakes Forest Fire Compact</u>, the Great Lakes Fire and Fuels web portal is now available. The purpose of the web portal is to provide retrospective, current, and future information regarding weather and fuel conditions in the Great Lakes region. This product has been under development and available for testing during the past year. It has been extensively revised for the upcoming fire season. Although many of these changes are "under the hood", users will have simpler access to existing and new features beginning from a new entry page: <u>http://glffc.utah.edu/</u>. Please bookmark this page.

MESO WEST

Selecting Data

The options to control the map displays have been greatly simplified. The options are:

- 1. Network: type of stations displayed
- 2. Radius: region in which station values are displayed
- 3. <u>Map Mode:</u> MesoWest, CFFDRS, and NFDRS. Options vary depending on the map mode.
 - a. MesoWest mode emphasizes current weather conditions (see http://mesowest.utah.edu for more information)
 - b. CFFDRS mode emphasizes current and predicted weather and fuel state for determining wildfire potential
 - c. NFDRS mode provides information on wildfire potential for RAWS stations only (<u>Explanation of the NFDRS variables</u>)

CFFDRS Mode Options

- <u>Station Value</u>: Variable to be displayed. <u>Explanation of the core CFFDRS variables</u>. In addition, Temp (temperature °F), RH (relative humidity, %), Wind (speed in mph), and Precip (precipitation in either past day or hour in inches) are available.
- 2. <u>Grid Layers:</u> None, Image, Image + capability to see gridded values. Grids are computed from NWS analysis and forecast products.
- 3. The "Show Legend" checkbox defines the colors associated with the station and gridded values.





Time and Table Options

Great Lakes Fire / Fuels



CFFDRS values are computed for conditions daily at 18 UTC (1 PM CDT/2 PM EDT) with some products available for the most recent hour as well. There are 4 times available for all products:

- Most recent 18 UTC that has already occurred (1 PM CDT/2 PM EDT)
- 2. Most recent hour (local time is shown)
- 3. Forecast for next 18 UTC (for example, in the morning, this would be later that day)
- Forecast for the subsequent 18 UTC (for example, late Friday afternoon this would be Sunday at 1 Pm CDT/2 PM EDT)

By default, the "Auto Current Time" check box is enabled, which corresponds to the present day. Deselecting this check box allows users to select a different year, month, day, or hour. Not all resources (e.g., grids) are available for prior years. You can also select the previous day, or, if the date is set to a prior time, then it is possible to step through a series of days.

Users can toggle between map and tabular summary displays. Selecting a header allows the user to sort the data in ascending or descending order. Values in black refer to the most recent 1800 UTC conditions while blue values indicate forecast values. In the afternoon, the most current values will be for that day with forecasts for the next two days. In the morning, the most current values are from the previous day and the forecasts are for later today and tomorrow.

Selecting the station link will lead to a popup display for that station with access to additional information through the links at the bottom of the popups.

Other Map Features Map Overlays Terrain Hybrid Map

- Map Overlays. In addition to the typical Google Maps Layers, users can select NWS Watches/Warnings, NWS radar, county boundaries, and selected other graphical displays of current fire and smoke conditions.
- 2. Search Option. Enter a street address, latitude/longitude pair, or city, ST to center the map on a specific location
- 3. Active Fires Option. If an active fire is in the Great Lakes region, select that to center the map on the location of the fire. Options to display smoke, large hotspots, and large fire boundaries are also available.

	Date	Temp	RH	Wspd	Рср	FFMC ↑	DMC	DC	ISI	BUI	FWI	DSR	FDR(Pine)	FDR(
CASSIANE	2011/3/04	22	54 60	10	0.02	82 81.4	3	11	3.8	3	2	0	None	N
CON LONG	2011/3/02	4	38	4	ŏ	81.1	3	11	3.8	2	i	ŏ	None	N _
	2011/3/04	31	53	7	0.11	61	2	12	2.7	1	0	0	Moderate	Mo
DARUNES	2011/3/02	11	35	5	ŏ	84.8	4	12	4	3	2	ŏ	High	F
	2011/3/04	35	79	5	0.3	36	4	8	3.8	0	0	0	Moderate	Mo
Mead	2011/3/03	14	88 39	6	0	81.9	8	18	7.8	2	2	0	High	F
	2011/3/04	25	52	10	0.02	87.5	6	15	6	7	6	1	None	N
HIBBING	2011/3/03	4	0	6	0	90.3	6	15	6	23	8 16	4	None	N
	2011/3/04	17	65	10	0.02	82.6	6	15	6	4	3	0	None	N
BAUDETTE	2011/3/03	8	37	3	0.01	83	6	15	6	2	1	0	None None	N
	2011/3/04	26	72	11	0.01	78.9	5	15	5.5	3	2	0	None	N
LITTLE FALLS	2011/3/03 2011/3/02	21 5	77 52	9 4	0	78.1 77.9	5	15 15	5.5 5.5	2	1	0	None None	N N
	2011/3/04	23	55	9	0.05	72.6	6	15	6	1	1	0	None	N
SEAGULL	2011/3/03 2011/3/02	15 3	67 39	11 9	0.02	80.9 83.2	6	15	6	3	2	0	None None	N N
	2011/3/04	29	75	14	0.05	70.3	6	15	6.2	2	1	0	None	N
MN VALLEY	2011/3/03 2011/3/02	26 10	81 46	9 3	0	78.6 78.6	6	15	6.2 6.2	2	1	0	None None	N N
	2011/3/04	40	76	15	0.08	63.2	0	0	0.2	2	0	0	Low	N
HOLLY	2011/3/03 2011/3/02	26 26	60 48	9 10	0.02	73.9 67.7	0	0	0	2	0	0	Low Low	N N
	2011/3/04	30	61	8	0.09	62.9	2	18	3.7	1	0	0	Moderate	Mo
LIND	2011/3/03	22	68	10	0	81.5	4	18	5.1	3	2	0	High	I -

Meso West

Profiles

🔚 Save Profile | 絡 Update Profile | 🗅 Load Profile

- In order to use profiles, you must first have a valid "My MesoWest" user account, which can be created at <u>http://glffc.utah.edu</u>.
- 2. To create a default map profile that will be used when logging in, select all the options you prefer, and then select "Save Profile". Give this profile a name and select the "Save as default profile" checkbox.
- 3. Selecting the "Share this profile with others" checkbox allows you to email others the profile simply.
- 4. You may create as many profiles you like from map, graphical, and tabular displays and manage them from the "Saved Profiles" popup.
- Use <u>this link</u> as an example of a saved profile. If you don't have an account, you may still display the profile using the "View Profile without Logging In" option.

Map Roll-overs and Popups

- 1. In CFFDRS mode, rolling the mouse over a station will provide more information for the most recent 18 UTC conditions, i.e., the values of the rollover will not match forecast conditions.
- 2. Clicking on a station will lead to a popup display that contains thumbnail graphs of daily conditions over the past ten days (solid lines) with the forecasts for the next two daily values shown by dashed lines.
- 3. The roll-overs and popups in MesoWest and NFDRS modes provide additional information specific to those suites of products.

Station Tabular Displays

- In CFFDRS mode, selecting "Year to Date CFFDRS" on the bottom of the popup will provide access to tabular displays for a station.
- 2. Past daily conditions are in black, future in light blue.
- Selecting the current or past day will provide access to hourly values.
- Many other options are available in the left menu bar.
- 5. In NFDRS mode, selecting

	STATION INFORMATION	CFF	DRS fo	r WUFW.	3 in 20	11													
ID: NA LA	WUFW3 ME: WOODRUFF TITUDE: 45 8875	Hourly CFFDRS are available by clicking on dates.																	
LO EL	NGITUDE: -89.6508 EVATION: 1619 ft	Obser	Observations in italics have either been manually inserted or are averages of observations adjacent in time.																
M	ET: RAWS	Using the NDFD forecast available on 2/23 at 3:00 CST and 18 hrs observed precipitation.																	
	This	Janua	ary 1, 20	11 - 12:00) throug	h February	y 24, 201	1 - 12:0	00 CST										
	- V76	Date	Time(CST)	Temperature	Relative Humidity	Wind Speed	Precipitation 24hr	FFMC	DMC	DC	19	SI .	BUI	FWI	DSR	Cumu DSI	lative R	Fire Dang: (Pine	crRating Fi :)
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	Contour/Terrain Map	2/23	12:00	29.9	63.0	11.4	0.00	83.9	3.6	13.0	4.	3 4	4.6	3.1	0.2	1.	3	Hig	h
	DEFETT LINKS	2/22	12:00	29.0	46.0	5.0	0.00	84.5	3.6	13.0	4.	3	2.9	1.6	0.1	1.	1	High	h
	Help	2/21	12:00	21.0	29.0	6.0	0.01	84.3	3.6	13.0	4.	3 3	5.1	1.8	0.1	1.0	0	High	h
	Change to Metric Units	2/20	12:00	27.0	63.0	6.0	0.00	81.9	3.6	13.0	4.		2.3	0.9	0.0	0.	2	Higi	h
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	STATION INFORMATI ID: CUTMS NAME: CUTFOOT LATITUDE: 47.5364 LONGITUDE: 94.0544 ELEVATION: 1300 ft MNET: RAWS Surface Weather May Contour/Terrain Mar USEFUL LINKS Help Change to Metric Un Change to Metric Un	10N 2 2 11ts	NH Tat Date 3/11 2/2 2/11 2/14 2/75 2/3 2/2 2/11 1/3 1/2 1/2	TDRS for pular List Time(CST) 13:00 5 13:00 7 13:00 6 13:00 7 13:00 1 13:00 1 13:00 1 13:00 1 13:00 7 13:00	r CU ing: Ja: MDL 7N 7N 7N 7N 7N 7N 7N 7N 7N 7N 7N 7N 7N	TM5 in nuary 3, 2 Temperature 18.0 4.0 39.0 63.0 5.0 25.0 12.0 13.0 4.0 26.0 17.0	2011 - 13 Relative Humidity %6 42.0 34.0 85.0 24.0 47.0 63.0 38.0 42.0 67.0 82.0 74.0	(00 that Wind E Speed mph 6.9 4.6 6.9 4.6 5.8 5.8 5.8 3.5 4.6 2.3 6.0	recipitation 24kr in 0.02 0.09 0.00 0.00 0.01 0.00 0.01 0.00 0.00	Iarch 1c 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1, 20 sc 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13:00 BI 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	CST TEN 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0	HUN 28.0 29.0 30.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 2	THOU 34.0 31.0 33.0 37.0 34.0 30.0 29.0 32.0 35.0 31.0 23.0	<pre>KBDI 3.0 5.0 5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</pre>	1 1 1 1 1 1 1 1 N/A 1 1 N/A	ADJ L L L L L L L L L L L
	STATION INFORMATI ID: CUTMS NAME: CUTFOOT LATITUDE: 47.5364 LONCITUDE: 94.0544 ELEVATION: 1300 ft MNET: RAWS Surface Weather May Contour/Terrain May USEFUL LINKS Help Change to Metric Un Change to Metric Un Change to Metric Un	ION 2 2 iits	NH Tate Date 3/1 2/2 2/1 2/1 2/1 2/7 2/3 2/2 2/1 1/3 1/2 1/2	TDRS for pular List • Time(CST) 1 13:00 5 13:00 7 13:00 6 13:00 1 13:00 1 13:00 1 13:00 1 13:00 7 13:00 5 13:00 1 13:00 7 13:00 1 13	r CU ing: Ja: MDL 7N 7N 7N 7N 7N 7N 7N 7N 7N 7N 7N 7N 7N	TM5 in muary 3, 2 Temperature 18.0 4.0 39.0 63.0 5.0 25.0 12.0 13.0 4.0 26.0 17.0 17.0	2011 - 13 Relative Humidity % 42.0 34.0 85.0 24.0 47.0 63.0 38.0 42.0 67.0 82.0 74.0 74.0	:00 tha Wind F Speed 6.9 4.6 6.9 4.6 5.8 5.8 3.5 4.6 2.3 6.9 4.6 5.8 3.5 4.6 2.3 6.9	recipitation 24kr in 0.02 0.09 0.00 0.00 0.00 0.01 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	Iarch IC 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1, 20 sc 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13:00 BI 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	CST TEN 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0	HUN 28.0 29.0 30.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 2	THOU 34.0 31.0 33.0 37.0 34.0 30.0 29.0 32.0 35.0 31.0 33.0	3.0 5.0 5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1 1 1 1 1 1 1 1 N/A 1 1 N/A	ADJ L L L L L L L L L L L

Profile Options Save a new profile Profile Name FFMC Example Description CFFDRS FFMC station and gridded Share this profile with 🛛 (yes) others? Save as default profile? (ves) Save Profile Cancel WOODRUFF Observation Closest to 02/22/11 @ 12:00 CST 18:00 UTC OF Weather Conditions 29 °F Wind: 5 M 46 % 24 hr Precipitation: 0 in Temperature: Humidity: 5 MPH CFFDRS: Temp Wind Precip FFMC/FWI/ISI BUI DMC DC CDSR WOODRUFF (CST) FFMC FWI 100 90 80 - 45 - 40 -35 -30 <u>छ</u> 70-60 FFMC -25 M 50 15 30 10 10 02/13/2011 02/15/2011 02/17/2011 02/19/2011 02/21/2011 02/23/2011 2011/2/22 2011/2/23 2011/2/24 FFMC: 84.5 83.9 83.3 DMC: 4 13 13 13 DC-BUI: 3 5 4 4.3 ISI: 4.3 4.3 FWI 2 3 3 DSR 0 ge to UTC Tin More Weather info: WUFW3 Year to Date CFFDRS Download Data

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Year to Date NFDRS, on the popup leads to a tabular displat as shown on the right.

- 6. In MesoWest mode, the "Additional Tabular and Graphical Displays" provides detailed information using all available parameters measured.
- 7. Users should be cautioned that it is possible to select options that exit the GLFFC web portal to the MesoWest web site.

Station Graphical Displays

- 1. In CFFDRS mode, it is possible to toggle between Tabular and Graphical Displays.
- 2. Two separate graphics of selected variables can be compared simultaneously.
- 3. In some cases, present conditions are contrasted to the average and maximum values available from prior years. The number of years available for that station can be seen by toggling the "Change year" option in the left menu.

Station Metadata

Selecting the Station Information option in the left menu bar of the Graphical or Tabular Displays provides access to station siting information.

This information is provided from the MesoWest web site.



AFWW3 station information

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	VW3 Current Data	3
Category	Percent of area	
 Developed, Open Space	10%	국 :)
 Developed, Low Intensity	5%	
 Deciduous Forest	24%	
 Mixed Forest	0%	
Grassland/Herbaceous	196	
Pasture/Hay	16%	
Cultivated Crops	35%	
Woody Wetlands	10%	

SITE INFORMATION

AFWW3

44.6981

RAWS OVERVIEW MAPS

Wisconsin Bureau of Forest Protection

MORE SITE INFO

US

Centra NWS REGION: CENTRAL

MPX

MPX028

EACC Eastern

SE MN Central WI Eastern Area

Eau Claire URBAN/RURAL: METROPOLITAN

WISCONSIN

WI028 Eau Claire

See other maps • <u>Terrain/topo Map</u> • <u>Satellite Map</u>

Road Map From Google Maps

AUGUSTA

ID:

NAME

MNET.

COUNTY:

STATE:

CWA:

COUNTRY

TIMEZONE

NWS ZONE:

NWS FIRE

SUBGACC

ZONE: GACC

LATITUDE:

LONGITUDE:-91.1342 ELEVATION: 970 ft / 296 m

DATA COURTESY OF Bureau of Land Management

6 mi	SE	D4731	APRSWXNET/CWOP	
15 mi	WNW	ECRW3	WIDOT	Г
20 mi	NNE	STNW3	WIDOT	1
21 mi	NW	KEAU	NWS/FAA	
25 mi	ESE	D0938	APRSWXNET/CWOP	
27 mi	SSE	BRVW3	WIDOT	
31 mi	SSE	BFWW3	RAWS	
31 mi	SSE	BRFW3	HADS	
36 mi	NE	DMLW3	RAWS	
37 mi	WNW	UP460	UPR	
37 mi	SSW	ACDW3	WIDOT	
38 mi	WNW	KLUM	NWS/FAA	
41 mi	W	DURW3	HADS	
44 mi	S	GALW3	HADS	1

Weather Conditions for KY51

MESO WEST

How the CFFDRS Station and Gridded Values Are Calculated

Fuels are initialized at stations at the beginning of the fire season and can be updated as needed throughout the year. Observed station values of temperature, wind, moisture, and precipitation are then used following the guidelines of the <u>Canadian Forest Fire Danger Rating System</u> to calculate the various indices at daily and hourly intervals.

Meso West

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Hourly analyses of temperature, wind, relative humidity, and precipitation are obtained from the <u>NCEP Real</u> <u>Time Mesoscale Analysis</u> on a 5 km grid nationally. CFFDRS indices for each gridpoint within the Great Lakes region are calculated daily at 18 UTC and hourly.

Forecast weather values for 6-hour periods out to 2 days are obtained four times per day from the <u>National</u> <u>Weather Service National Digital Forecast Database</u> on the same 5 km grid available for the RTMA. The gridded values are displayed as graphical images with the capability to rollover and see specific values at each gridpoint. The nearest gridded values to specific stations are used to compute the station forecast values.

- At 18:30 UTC, forecast values for the next two days are updated using the NDFD gridded values
- At 00:30 UTC, analyzed weather values from the RTMA grids or station values are used to update what has already taken place. NWS forecasts for the remaining 18 hours of the forecast period for the next day at 18 UTC are then used. Day 2 forecasts use the most current information from the NWS.
- At 06:30 UTC, analyzed values from the RTMA grids or station values over the past 12 hours are used. NWS forecasts for the remaining 12 hours of the forecast period for the present day at 18 UTC are then used. Day 2 forecasts use the most current information from the NWS.
- At 12:30 UTC, precipitation values from the RTMA grids or station precipitation over the past 18 hours are used. NWS forecasts for the remaining 6 hours of the forecast period for the present day at 18 UTC are then used. Day 2 forecasts use the most current information from the NWS.