# Lake States Fire Science Consortium

A JFSP KNOWLEDGE EXCHANGE CONSORTIUM

# Comparing Your RAWS Data with Gridded Weather Data Using Great Lakes Fire & Fuels

National Digital Forecast Database Real Time Mesoscale Analysis

# Access the CFFDRS Database Table from either the Welcome or Map Screen

# Welcome Screen

# http://glffc.utah.edu

### Map Screen



### Great Lakes Fire / Fuels



MesoWest

ROMAN

Help Great Lakes Forest Fire Compact

U of Utah Dept. of Atmospheric Sciences

NWS Fire Weather



Create a User

Login

AGENCY LINKS

Michigan DNR Contact MI DNR

Minnesota DNR Contact MN DNR

Wisconsin DNR Contact WI DNR

#### **Great Lakes Surface Weather and Fire Indices**

Click Map For Current Fire Weather



If logged in, your default profile will be used

Technical Guide 11-1: Working With the Great Lakes Fire and Fuels Information System Tools in Lake States Fire Management

Click here to read what's new in Version 1

#### **Tabular Fire Weather Products**

CFFDRS Database Table CFFDRS Station Status NFDRS Observed Database Table NFDRS Forecast Database Table CFFDRS Initial Values and Data Updates (Restricted Access) Download CFFDRS by State

University of Utah Department of Atmospheric Sciences

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If you navigate to the the Welcome Screen link above:

- Click on "CFFDRS Database Table"
  - It is not necessary to login to access the comparison graphing feature

# In the CFFDRS Database Table, select the <u>**RAWS**</u> Station you want to use by clicking on its live link in the "ID" Column

**Great Lakes Home** 

## **MesoWest CFFDRS 2012 - Stations in Great Lakes Region**

All possible stations are listed in current year. Only stations with offers are listed in previous years.

Change year 2012 ‡ submit

Click on a station ID to obtain the CFFDRS record. Click on a column name to order by that column.

	Station Name	Mesonet	<u>Latitude</u>	Longitude	Elevation (ft.)	State	<u>County</u>	Status
<u>KDBQ</u>	Dubuque Regional Airport	NWS/FAA	42.39778	-90.70361	1076	IA	Dubuque	ACTIVE
<u>KDEH</u>	Decorah	NWS/FAA	43.28333	-91.73333	1158	IA	Winneshiek	ACTIVE
KACB	Bellaire, Antrim County Airport	NWS/FAA	44.98833	-85.19833	623	MI	Antrim	NO_PRECIP
<u>KADG</u>	Adrian, Lenawee County Airport	NWS/FAA	41.86778	-84.07944	801	MI	Lenawee	ACTIVE
KAMN	Alma, Gratiot Community Airport	NWS/FAA	43.32194	-84.68778	751	MI	Gratiot	NO_PRECIP
<u>KANJ</u>	Sault Ste. Marie	NWS/FAA	46.47944	-84.35722	689	MI	Chippewa	ACTIVE
<u>KAPN</u>	Alpena County Regional Airport	NWS/FAA	45.07167	-83.56444	689	MI	Alpena	ACTIVE
<u>KARB</u>	Ann Arbor Municipal Airport	NWS/FAA	42.22389	-83.74000	837	MI	Washtenaw	ACTIVE
<u>KAZO</u>	Kalamazoo / Battle Creek International Airport	NWS/FAA	42.22917	-85.54639	873	MI	Kalamazoo	ACTIVE
KBAX	Bad Axe, Huron County Memorial Airport	NWS/FAA	43.78083	-82.98556	764	MI	Huron	NO_PRECIP
<u>KBEH</u>	Benton Harbor, Southwest Michigan Regional Airport	NWS/FAA	42.12861	-86.42833	643	MI	Berrien	ACTIVE
<u>KBIV</u>	Holland, Tulip City Airport	NWS/FAA	42.74611	-86.09667	686	MI	Allegan	ACTIVE
<u>KBTL</u>	Battle Creek, Kellogg Airport	NWS/FAA	42.31250	-85.24083	951	MI	Calhoun	ACTIVE
KCAD	Cadillac / Wexford County	NWS/FAA	44.28333	-85.41667	1306	MI	Wexford	NO_PRECIP
KCFS	Caro, Tuscola Area Airport	NWS/FAA	43.45861	-83.44528	702	MI	Tuscola	NO_PRECIP
<u>KCIU</u>	Sault Ste Marie, Chippewa County International Airport	NWS/FAA	46.25	-84.46667	801	MI	Chippewa	ACTIVE
<u>KCMX</u>	Hancock, Houghton County Memorial Airport	NWS/FAA	47.16833	-88.48889	1096	MI	Houghton	ACTIVE
KCVX	Charlevoix Municipal Airport	NWS/FAA	45.30472	-85.27472	669	MI	Charlevoix	NO_PRECIP
<u>KD95</u>	Lapeer Dupont-lapeer	NWS/FAA	43.06650	-83.27150	834	MI	Lapeer	ACTIVE
KDET	Detroit City Airport	NWS/FAA	42.40917	-83.01000	627	MI	Wayne	ACTIVE
KDRM	Drummond Island Airport	NWS/FAA	46.00720	-83.74270	669	MI	Chippewa	ACTIVE

If you navigate to the "Map Screen", click on black dot representing the station you are interested in, bringing up the station dialog box. Then click on the "Year to Date CFFDRS" link at the bottom of the screen to bring up the CFFDRS Database Table



Ouestions? Contact MesoWest

## http://glffc.utah.edu/cgi-bin/gl.cgi

# Once in the table for the station you are interested in, In the left column, select "Cffdrs Comparison"

Great Lakes Fire/Fuels Region	MINNE	SOTA			÷	roduct 💽	Surface Weather	r Maps	÷	Go					
STATION INFORMATION	CFFDRS for DMLM5 in 2012														
ID: DMLM5															
LATITUDE: 46.8489	Hourly	y CFFD	RS are avai	lable by c	cking	on dates.									
LONGITUDE: -95.8464	Observations in italics have either been manually inserted or are averages of observations adjacent in time.														
MNET: RAWS															
N. I	Using	the ND	FD forecasi	a qalable	on 12	/9 at 21:0	0 CST and 1	2 hrs ol	bserved	precipita	tion.				
	January 1, 2012 - 12:00 brough December 11, 2012 - 12:00 CST														
- ~ ~	Januar Date	Y 1, 201 Time(CST)	Z - 12:00 df	rougn De e Relative	Cembe Wind	r 11, 2012 Wind	2 - 12:00 CS Precipitation	1 FFMC	DMC	DC	ISI	BUI	FWI	DSR	Cumulative
		,		Humidity	Speed	Direction	24hr								DSR
	12/11	12.00	° F	% 68 0	mph	•	in 0.00	70.4	10.1	367.8	1.0	18.0	27	0.2	1507.3
<u>Surface Weather Map</u> Contour/Terrain Map	12/11	12:00	7.8	66.0	8.1		0.00	79.0	10.1	367.8	2.0	18.9	2.9	0.2	1507.5
<u></u>	12/9	12:00	15.0	74.0	15.0	Ν	0.00	78.8	10.1	367.8	3.4	18.9	5.4	0.5	1506.9
USEFUL LINKS Help	12/8	12:00	27.0	85.0	9.0	SSE	0.00	78.8	10.1	367.8	2.1	18.9	3.1	0.2	1506.4
Change to Metric Units	12/7	12:00	19.0	72.0	1.0	ENE	0.00	79.1	10.1	367.8	1.1	18.9	1.0	0.0	1506.2
Change to <u>GMT</u>	12/6	12:00	26.0	80.0	16.0	NW	0.00	78.9	10.1	367.8	3.7	18.9	5.9	0.6	1506.2
Change year 2012 \$	12/5	12:00	28.0	53.0	18.0	SE	0.00	78.9	10.1	367.8	4.4	18.9	6.8	0.8	1505.5
Download CFFDRS Data	12/4	12:00	20.0	64.0	15.0	NNW	0.00	73.8	10.1	367.8	2.4	18.9	3.7	0.3	1504.7
<u>Change to Graphical Display</u> Data Ouality	<u>12/3</u>	12:00	42.0	91.0	14.0	W	0.04	68.6	10.1	367.8	1.9	18.8	2.7	0.2	1504.4
Station Information	12/2	12:00	36.0	97.0	11.0	SSE	0.00	75.4	10.0	367.1	1.9	18.7	2.8	0.2	1504.3
Station Status Nearby Stations	11/30	12:00	40.0	70.0	13.0	5 W G	0.00	78.0	0.0	366.5	1.0	18./	2.2	0.1	1504.1
Latency Stats	11/29	12:00	27.0	84.0	7.0	ENE	0.00	78.8	9.8	366.5	1.8	18.4	2.5	0.5	1503.7
Cffdrs Comparison Restrictions	11/28	12:00	29.0	77.0	12.0	SSW	0.00	79.2	9.8	366.5	2.8	18.4	4.2	0.3	1503.6
RSS	11/27	12:00	25.0	78.0	7.0	NW	0.00	79.1	9.8	366.5	1.8	18.4	2.6	0.1	1503.2
DATA CONDERSIVOE	11/26	12:00	11.0	70.0	5.0	W	0.00	79.1	9.8	366.5	1.6	18.4	2.0	0.1	1503.1
Bureau of Land Management	11/25	12:00	25.0	84.0	11.0	W	0.00	79.0	9.8	366.5	2.5	18.4	3.8	0.3	1503.0
and	<u>11/24</u>	12:00	18.0	80.0	13.0	SE	0.00	79.4	9.8	366.5	3.1	18.4	4.7	0.4	1502.7
Dept of Interior Fish & Wildlife Service	11/23	12:00	15.0	76.0	17.0	NNW	0.00	79.6	9.8	366.5	4.4	18.4	6.7	0.8	1502.3
	<u>11/22</u>	12:00	25.0	92.0	21.0	NW	0.00	79.6	9.8	366.5	6.0	18.4	8.8	1.3	1501.5



# Using the Comparative Time Series Plot

# Example comparison of winds (SKNT) for April and May at Detroit Lakes



Station ID DMLM5

Variables SKNT + Year 2012 + Start Mon 4 + End Mon 5 + Compare to 24 + FCST Change Graph