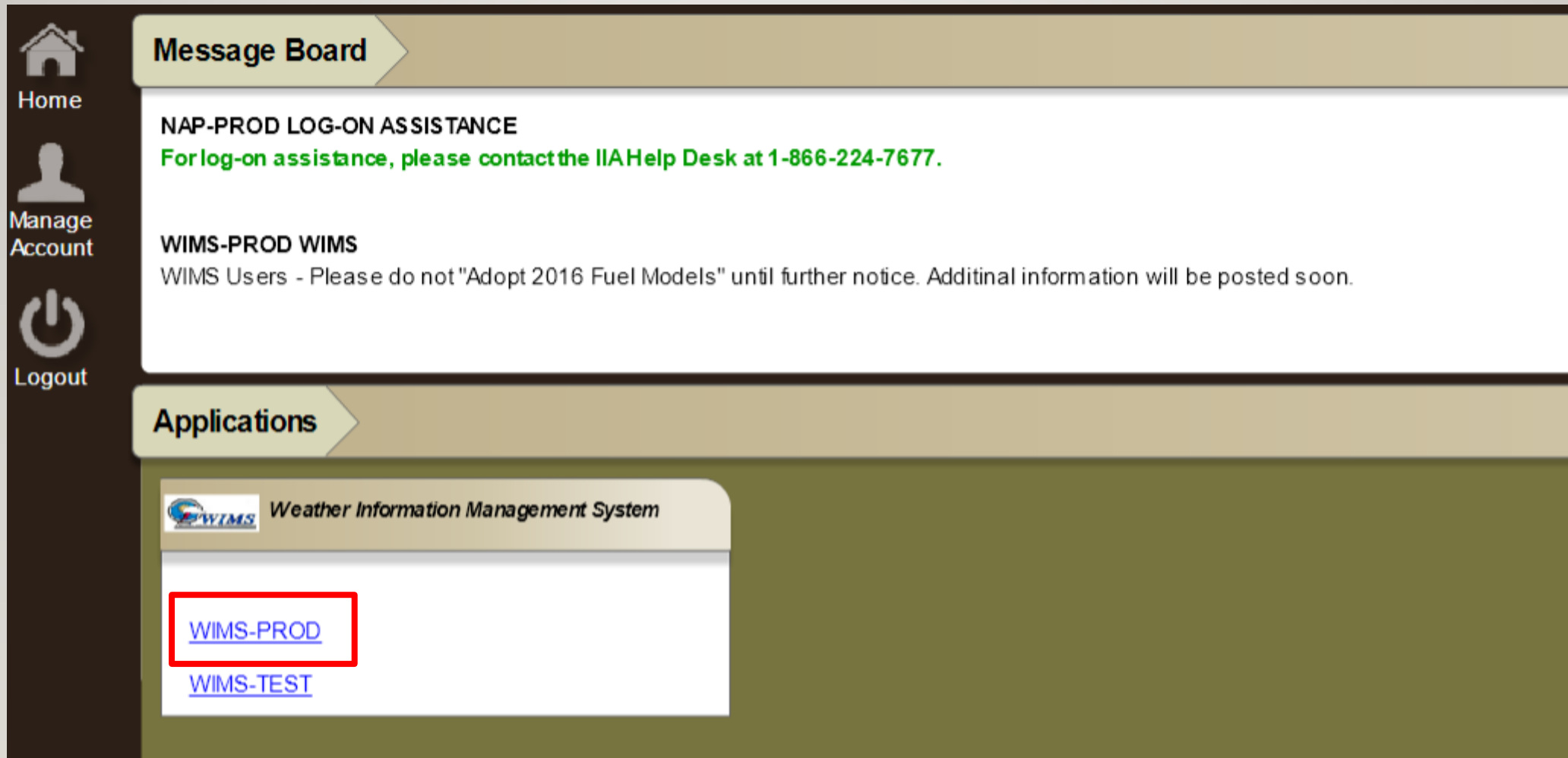


ADDING NFDRS2016 FUEL MODEL BREAKPOINTS IN WIMS



SIGN INTO WIMS USING NAP ACCOUNT




Message Board

NAP-PROD LOG-ON ASSISTANCE
For log-on assistance, please contact the IIA Help Desk at 1-866-224-7677.

WIMS-PROD WIMS
WIMS Users - Please do not "Adopt 2016 Fuel Models" until further notice. Additional information will be posted soon.

Applications

 *Weather Information Management System*

[WIMS-PROD](#)

[WIMS-TEST](#)

ENTER “ENFDR” INTO THE WIMS FASTPATH
CLICK “GO”

FastPath **Weather Information Management System**

ENTER WIMS ID INTO THE STATION ID BOX AND CLICK “FIND”

Display/Edit Default NFDRS Parameters

[Back to Menu](#)

Station ID: 211803

Effective Date: 13-Feb-20

Find

Reset

Save

View Change Archive

NFDR Parameters

GSI Herb FM Options

GSI Woody FM Options

Nelson Dead Fuel Moisture Options

Load Fuel Model Percentiles

78 & 88 NFDRS	100-hr	28		SOW Thresholds (No Precip last 24 Hrs)	Pct Psbl	SOW & Wet Flag Thresholds (Precip last 24 Hrs)	CC3* Default?
	1000-hr	28					
88 NFDRS	1hr=10hr	<input type="checkbox"/>		PCNT_Clear	85	1HR_Drizzle (inches)	0.05
	KBDI	0		PCNT_Scattered	75	1HR_Rain (inches)	0.1
				PCNT_Broken	50	1HR_Showers (inches)	0.25
						3HR_DUR_WetFlag (hours)	3
						3HR_AMT_WetFlag (inches)	0.5
						24HR_DUR_WetFlag (hours)	12
						24HR_AMT_WetFlag (inches)	1.0

* Climate Class of the first priority Fuel Model (7L)

D e l	Active Fuel Models	P r i	ID	** 78 NFDRS Only **			88 s b	S l p	G r s	C l i	MXD	SCM	Herb FM	Woody FM	X- 1000	Staffing Idx Breakpoints					
				H S	Herb Date	Greenup Date										SI	DC	Low		High	
																		SI%	Val	SI%	Val
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	7L ▾	F ▾	27-Nov-19	17-May-19	<input type="checkbox"/>	1=0-25% ▾	P ▾	3 ▾	L ▾	178	35	70	28	BI ▾	5	90	47	97	55
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	7G ▾	F ▾	27-Nov-19	17-May-19	<input type="checkbox"/>	1=0-25% ▾	P ▾	3 ▾	L ▾	30	35	70	28	EC ▾	5	90		97	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	7Q ▾	F ▾	27-Nov-19	17-May-19	<input type="checkbox"/>	1=0-25% ▾	P ▾	3 ▾	L ▾	59	35	70	28	EC ▾	5	90	31	97	37
<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	7E ▾	F ▾	27-Nov-19	17-May-19	<input type="checkbox"/>	1=0-25% ▾	P ▾	3 ▾	L ▾	25	35	70	28	BI ▾	5	90	43	97	50
<input type="checkbox"/>	<input type="checkbox"/>	5	16V ▾	<input type="checkbox"/>			<input type="checkbox"/>	1=0-25% ▾	P ▾	<input type="checkbox"/>	L ▾	108				<input type="checkbox"/>		90		97	
<input type="checkbox"/>	<input type="checkbox"/>	6	16W ▾	<input type="checkbox"/>			<input type="checkbox"/>	1=0-25% ▾	P ▾	<input type="checkbox"/>	L ▾	62				<input type="checkbox"/>		90		97	
<input type="checkbox"/>	<input type="checkbox"/>	7	16X ▾	<input type="checkbox"/>			<input type="checkbox"/>	1=0-25% ▾	P ▾	<input type="checkbox"/>	L ▾	104				<input type="checkbox"/>		90		97	

SELECT THE NFDRS2016 FUEL MODEL IN THE DROPDOWN UNDER THE “ID” COLUMN”

			8Q		** 78 NFDRS Only **			
D e l	Active Fuel Models	P r i	8R		H S	Herb Date	Greenup Date	88 s b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	8S		F ▼	27-Nov-19	17-May-19	▼
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	8T		F ▼	27-Nov-19	17-May-19	▼
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	8U		F ▼	27-Nov-19	17-May-19	▼
<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	16V		F ▼	27-Nov-19	17-May-19	▼
<input type="checkbox"/>	<input type="checkbox"/>	5	16W		▼			▼
<input type="checkbox"/>	<input type="checkbox"/>	6	16X		▼			▼
<input type="checkbox"/>	<input type="checkbox"/>	7	16Y		▼			▼
<input type="checkbox"/>	<input checked="" type="checkbox"/>	8	16Z		▼			▼
<input type="checkbox"/>	<input type="checkbox"/>	9			▼			▼

SELECT THE FIRE DANGER INDEX YOU WISH TO USE WITH THE SELECTED NFDERS2016 FUEL MODEL UNDER SC (STAFFING CLASS)

BI	Staffing Idx Breakpoints				
EC		Low		High	
FL	DC	SI%	Val	SI%	Val
IC	5	90	47	97	55
KB	5	90		97	
LO	5	90	31	97	37
LR	5	90	43	97	50
MO		90		97	
SC		90		97	
▼		90		97	
▼		90		97	
▼		90		97	
EC ▼		90	26	97	30
▼		90		97	

ENTER THE 90TH AND 97TH PERCENTILE CLIMATOLOGICAL BREAKPOINTS COMPUTED USING FIRE FAMILY PLUS 5.0

Staffing Idx Breakpoints					
SI	DC	Low		High	
		SI%	Val	SI%	Val
BI ▼	5	90	47	97	55
EC ▼	5	90		97	
EC ▼	5	90	31	97	37
BI ▼	5	90	43	97	50
EC ▼		90	26	97	32
▼		90		97	
▼		90		97	
EC ▼		90	26	97	30
▼		90		97	

REPEAT ENTRIES FOR ANY ADDITIONAL FUEL MODELS AND FIRE DANGER INDICES IN ADDITIONAL ROWS

Ensure the Slope Class and Grass Types (Annual or Perennial) are correct

D e l	Active Fuel Models	P r i	ID	** 78 NFDRS Only **			88 s b	S l p	G r s	C l i	MXD	SCM	Herb FM	Woody FM	X- 1000	SI	DC	Low		High	
				H S	Herb Date	Greenup Date												SI%	Val	SI%	Val
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	7L ▾	F ▾	27-Nov-19	17-May-19	▾	1=0-25% ▾	P ▾	3 ▾	L ▾	178	35	70	28	BI ▾	5	90	47	97	55
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	7G ▾	F ▾	27-Nov-19	17-May-19	▾	1=0-25% ▾	P ▾	3 ▾	L ▾	30	35	70	28	EC ▾	5	90		97	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	7Q ▾	F ▾	27-Nov-19	17-May-19	▾	1=0-25% ▾	P ▾	3 ▾	L ▾	59	35	70	28	EC ▾	5	90	31	97	37
<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	7E ▾	F ▾	27-Nov-19	17-May-19	▾	1=0-25% ▾	P ▾	3 ▾	L ▾	25	35	70	28	BI ▾	5	90	43	97	50
<input type="checkbox"/>	<input type="checkbox"/>	5	16V ▾	▾			▾	1=0-25% ▾	P ▾	▾	L ▾	108				EC ▾		90	26	97	32
<input type="checkbox"/>	<input type="checkbox"/>	6	16W ▾	▾			▾	1=0-25% ▾	P ▾	▾	L ▾	62				▾		90		97	
<input type="checkbox"/>	<input type="checkbox"/>	7	16X ▾	▾			▾	1=0-25% ▾	P ▾	▾	L ▾	104				▾		90		97	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	8	16Y ▾	▾			▾	1=0-25% ▾	P ▾	▾	L ▾	5				EC ▾		90	26	97	30
<input type="checkbox"/>	<input type="checkbox"/>	9	16Y ▾	▾			▾	1=0-25% ▾	P ▾	▾	L ▾	5				▾		90		97	

Select NFDRS2016 Fuel Models and Indices which have been determined to correspond statistically to fire business thresholds through Fire Family Plus 5.0 analysis.

Note: One of the new NFDRS2016 fuel models should be 16Y to compare to the previous national standard 7G.

If fire business analysis has not been completed select NFDRS2016 fuel models and indices which are similar to the 1978/88 fuel models listed which are currently used. **E.G. ERC-7G is similar to ERC-16Y.**

NFDRS 2016 Fuel Type	NFDRS 2016 Fuel Model	Equivalent NFDRS 1978 Fuel Model
Grass	V	A,L,T
Grass / Shrub	W	R,S,C,D
Brush	X	B, F
Timber	Y	G,H,N,P,O,Q,U,E
Slash	Z	I,J,K

CLICK THE “ACTIVE FUEL MODELS” CHECK BOXES FOR NFDRS2016 FUEL MODELS

D e l	Active Fuel Models	P r i	ID	** 78 NFDRS Only **			88 s b	S l p
				H S	Herb Date	Greenup Date		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	7L ▼	F ▼	27-Nov-19	17-May-19	▼	1=0-25%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	7G ▼	F ▼	27-Nov-19	17-May-19	▼	1=0-25%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	7Q ▼	F ▼	27-Nov-19	17-May-19	▼	1=0-25%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	7E ▼	F ▼	27-Nov-19	17-May-19	▼	1=0-25%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	5	16V ▼	▼			▼	1=0-25%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	6	16W ▼	▼			▼	1=0-25%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	7	16X ▼	▼			▼	1=0-25%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	8	16Y ▼	▼			▼	1=0-25%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9	16Y ▼	▼			▼	1=0-25%

ENTER EFFECTIVE DATE AND THEN “SAVE” BUTTON AT TOP TO SAVE YOUR ADDITIONS

FastPath **Weather Information Management System** [Show Navigation T](#)

[Display/Edit Default NFDRS Parameters](#) [Back to Menu](#)

Station ID: Effective Date:

SOW Thresholds (No Precip last 24 Hrs)	Pct Psbl	SOW & Wet Flag Thresholds (Precip last 24 Hrs)	CC3* Default?
PCNT_Clear	85	1HR_Drizzle (inches)	0.05
PCNT_Scattered	75	1HR_Rain (inches)	0.1
PCNT_Broken	50	1HR_Showers (inches)	0.25
		3HR_DUR_WetFlag (hours)	3
		3HR_AMT_WetFlag (inches)	0.5
		24HR_DUR_WetFlag (hours)	12
		24HR_AMT_WetFlag	1.0

1. Once you have entered all of the info for each row for the NFDRS2016 fuel models you have added, select the **Effective Date** you wish to have the NFDRS2016 outputs available from. The earliest date you may enter is **09-June-18** which is the date back to which the hourly data has been populated. If you enter a later date, such as 01-Mar-19, the Recalc procedures may be done more quickly.

2. Click “Save” to save your ENFDR NFDRS2016 Fuel Model/Index Additions

A RECALCULATION OF THE OBSERVATIONS MUST BE PERFORMED AFTER THE NFDRS2016 FUEL MODELS/INDICES/BREAKPOINTS HAVE BEEN ENTERED TO POPULATE THE STAFFING LEVELS AND ADJECTIVE RATING FIELDS FOR NFDRS2016

FastPath **Weather Information Management System** [Show Navigation T](#)

Recalculate NFDRS ENRR [Back to Menu](#)

Enter NFDRS Recalculation Parameters

1. Enter **ENRR** Recalc FastPath and click "Go"

2. Enter WIMS/Station ID

Station ID:

Type:

3. Select "N" for Nelson Values First

4. Select Date Range **Recalc** to be performed. "From" Date should be the one you entered as **Effective Date** on the ENFDR screen. "To" date should be the previous day of current date when Nelson fuel moisture parameters were completed.

Date(s): 2016 Indices Only

From:

To:

5. Click "Find"

6. Click on "Recalc" once obs are found on next screen.

A RECALCULATION OF THE OBSERVATIONS MUST BE PERFORMED AFTER THE NFDRS2016 FUEL MODELS/INDICES/BREAKPOINTS HAVE BEEN ENTERED TO POPULATE THE STAFFING LEVELS AND ADJECTIVE RATING FIELDS FOR NFDRS2016

FastPath

Weather Information Management System

Recalculate NFDRS ENRR

Enter NFDRS Recalculation Parameters

2. Enter WIMS/Station ID Station ID:

3. Select "2016 Indices Only" Second Type:

4. Select Date Range Recalc to be performed. "From" Date should be the one you entered as Effective Date on the ENFDR screen. "To" date should be the previous day of current date when Nelson fuel moisture parameters were completed.

Observation Date(s):

From:

To:

5. Click "Find"

6. Click on "Recalc" once obs are found on next screen.

TIPS FOR ADDING NFDRS2016 FUEL MODEL/INDICES TO WIMS

- Obtain all of the fuel model/data information you'll need before going into WIMS. If fire business analysis has been done in Fire Family Plus 5.0 to establish the “best fit” fuel models/indices, use these to run the climatological breakpoints which are to be entered into the ENFDR page for the 90th/97th percentile breakpoints for each added fuel model.
- For each fuel model entry row on the bottom of the **ENFDR** page (fuel model/index combination), **slope class and grass type, the rating index (SI), and SI% and Val fields must be entered.**
- The **Effective Date** entered at the top of the ENFDR screen is the date from which you would like the NFDRS2016 outputs to be available. (**earliest date you can use is 09-Jun-18 which is date that the hourly observation data has been populated back to in WIMS**). Historical comparisons between the can then be made back to this date.
- Strive to use the ENFDR screen only once to populate the station catalog with all the NFDRS2016 parameters. This ensures that the Effective Date is consistent for everything being added, and all data are available concurrently. Doing one row at a time (with multiple ENFDR entries and inadvertently entering different Effective Dates) leads to inconsistencies and more recalcs!
- Do not allow for ANY partially filled in rows. If a fuel model is being activated, every available field that needs to be populated needs to be there....otherwise they should be blank. Prepare for bizarre outcomes if this rule isn't followed!

COMPARING NFDRS 1978/88 AND NFDRS2016 FUEL MODELS/FIRE DANGER INDICES



ENTER “DIDX” INTO THE WIMS FASTPATH
TEXTBOX AND CLICK “GO”

FastPath **Weather Information Management System**

My Stations' Latest NFDR Info

<input checked="" type="radio"/> Sta	<input type="radio"/> Pri	FM	Type	Staffing Index	SL	R
--------------------------------------	---------------------------	----	------	----------------	----	---

ENTER WIMS ID OR SIG INTO THE STATION ID BOX, ENTER DATE RANGE, AND CLICK “FIND”

Ver. 5.1.3 FastPath Weather Information Management System [Show Navigation Tree](#)

 Display Index Format DIDX  [Back to Menu](#)

Station ID: or Type: Start Date: End Date: Time:

CLICK THE FUEL MODELS YOU WISH TO COMPARE CLICK “FIND” AGAIN

 **Display Index Format DIDX** 

Station ID: or Type: Start Date: End Date: Time: Find ☐

[Back to Menu](#)

Select which fuel models to display

☒ P1: 7G1P3 ☐ P2: 7N1P3 ☐ P3: 7C1P3 ☐ P4: 7Q1P3 ☐ P5: 16V1P ☐ P6: 16W1P ☐ P7: 16X1P ☒ P8: 16Y1P ☐ P9: 16Z1P

Station ID	Obs Date	Obs Tm	Obs Type	MSGC	Wind SP	WDY FM	HRB FM	1H FM	10 FM	HU FM	TH FM	XH	IC	SC	ERC	BI	SL	R	KBDI	FL	LR	LO	HC Rsk	HO
211604	26-Feb-20	13	N	16Y1P	2	60.0	30.0	32.64	25.24	23.29	23.21	-99.99	0.0	0.0	0.6	0.0	1	L	2	0	0	0	0	0
211604	26-Feb-20	13	R	7G1P3	2	70.0	35.0	35.00	35.00	27.65	27.84	27.84	0.0	0.0	0.0	0.0	1	L	2	0	0	0	0	0
211604	25-Feb-20	13	N	16Y1P	4	60.0	30.0	32.64	25.24	23.30	23.21	-99.99	0.0	0.0	0.6	0.0	1	L	2	0	0	0	0	0
211604	25-Feb-20	13	R	7G1P3	4	70.0	35.0	35.00	35.00	27.57	27.85	27.85	0.0	0.0	0.0	0.0	1	L	2	0	0	0	0	0
211604	24-Feb-20	13	N	16Y1P	3	60.0	30.0	32.64	25.24	23.32	23.22	-99.99	0.0	0.0	0.6	0.0	1	L	2	0	0	0	0	0
211604	24-Feb-20	13	R	7G1P3	3	70.0	35.0	35.00	35.00	27.59	27.87	27.87	0.0	0.0	0.0	0.0	1	L	2	0	0	0	0	0

Total number of rows retrieved: 6 Completeness percentage: 11.11%

COMPARE THE 1978/88 (7 OR 8 PREFIX) WITH THE NFDRS2016 (16 PREFIX) FUEL MODEL INDICES, STAFFING LEVELS (SL), AND ADJECTIVE RATING (R) BELOW

Display Index Format DIDX

[Back to Menu](#)

Station ID: or Type: Start Date: End Date: Time:

Select which fuel models to display

☒ P1: 7G1P3 ☐ P2: 7N1P3 ☐ P3: 7C1P3 ☐ P4: 7Q1P3 ☐ P5: 16V1P ☐ P6: 16W1P ☐ P7: 16X1P ☒ P8: 16Y1P ☐ P9: 16Z1P

Station ID	Obs Date	Obs Tm	Obs Type	MSGC	Wind SP	WDY FM	HRB FM	1H FM	10 FM	HU FM	TH FM	XH	IC	SC	ERC	BI	SL	R	KBDI	FL	LR	LO	HC Rsk	HO
211604	26-Feb-20	13	N	16Y1P	2	60.0	30.0	32.64	25.24	23.29	23.21	-99.99	0.0	0.0	0.6	0.0	1	L	2	0	0	0	0	0
211604	26-Feb-20	13	R	7G1P3	2	70.0	35.0	35.00	35.00	27.65	27.84	27.84	0.0	0.0	0.0	0.0	1	L	2	0	0	0	0	0
211604	25-Feb-20	13	N	16Y1P	4	60.0	30.0	32.64	25.24	23.30	23.21	-99.99	0.0	0.0	0.6	0.0	1	L	2	0	0	0	0	0
211604	25-Feb-20	13	R	7G1P3	2	70.0	35.0	35.00	35.00	27.57	27.85	27.85	0.0	0.0	0.0	0.0	1	L	2	0	0	0	0	0
211604	25-Feb-20	13	N	16Y1P	4	60.0	30.0	32.64	25.24	23.32	23.22	-99.99	0.0	0.0	0.6	0.0	1	L	2	0	0	0	0	0
211604	25-Feb-20	13	R	7G1P3	2	70.0	35.0	35.00	35.00	27.59	27.87	27.87	0.0	0.0	0.0	0.0	1	L	2	0	0	0	0	0

Number of rows retrieved: 6 Completeness percentage: 11.11%

Select which fuel models to display
☒ P1: 7G1P3

NFDR observation type ("O"=Published, "R"=Unpublished, "N"=Nelson, "F"=Forecast, "S"=Special)

Station ID	Obs Date	Obs Tm	Obs Type	MSGC	Wind SP
211604	26-Feb-20	13	N	16Y1P	2
211604	26-Feb-20	13	R	7G1P3	2
211604	26-Feb-20	13	R	7N1P3	2

Hover cursor over WIMS column headers for explanation of contents.

ALTERNATE METHOD TO COMPARING FUEL MODEL OUTPUTS-COMP WIMS FASTPATH

Ver. 5.1.3 FastPath

Weather Information Management System

COMPARE FUEL MODELS

Station

Start Date

End Date

FUEL MODELS					
Date	Time	ERC	BI	* ERC	* BI

1. Enter "COMP" into the FastPath box and then click "Go"

2. Enter the RAWVS WIMS ID, Select Start and End dates.

3. Click on "Fetch Station Info"

SELECT FUEL MODELS AND INDICES TO COMPARE ABSOLUTE VALUES OF 1978/88 AND NFDRS2016 INDICES/FUEL MOISTURES

Ver. 5.1.3 FastPath COMP Go

Weather Information Management System

Show [Navigation Tree](#)

COMPARE FUEL MODELS

16 FUEL MODELS RETURNED 21-APR-19 TO 30-APR-19 STATION 210709

Station

210709

Start Date

End Date

1. Select Fuel Models to compare.

Fuel Model

P1: 7G1P3

Fuel Model

P8: 16Y1P

Obs Type

O/R

Obs Type

N

2. Choose Grid, Graph, or Both

Grid

Graph

Both

Export

RESULTS FOR 10 DAYS P1: 7G1P3-O/R VS. P8: 16Y1P-N

3. Select Indices or Fuel Moisture

- ☐ FM1
- ☐ FM10
- ☐ FM100
- ☐ FM1000
- ☐ FMHERB
- ☐ FMWOOD
- ☒ ERC
- ☐ SC
- ☐ BI
- ☐ IC
- ☒ ABSOLUTE
- ☐ PERCENTILE

P1: 7G1P3-O/R-erc P8: 16Y1P-N-erc

Graph fuel model line colors.

Note values and overall trends and how they relate to observed fire danger



EXPORT AND SAVE FUEL MODEL INDICES/FUEL MOISTURE OUTPUTS

Ver. 5.1.3 FastPath COMP Go

Weather Information Management System

Show [Navigation Tree](#)

COMPARE FUEL MODELS

Station 210709

Start Date

End Date

Fetch Station

1. Select Fuel Model to Export Indice and Fuel Moisture Outputs in the first fuel model selection dropdown.

16 FUEL MODELS RETURNED 21-APR-19 TO 30-APR-19 STATION 210709

Fuel Model P1: 7G1P3

Obs Type O/R

2. Click on "Export"

Fuel Model P8: 16Y1P

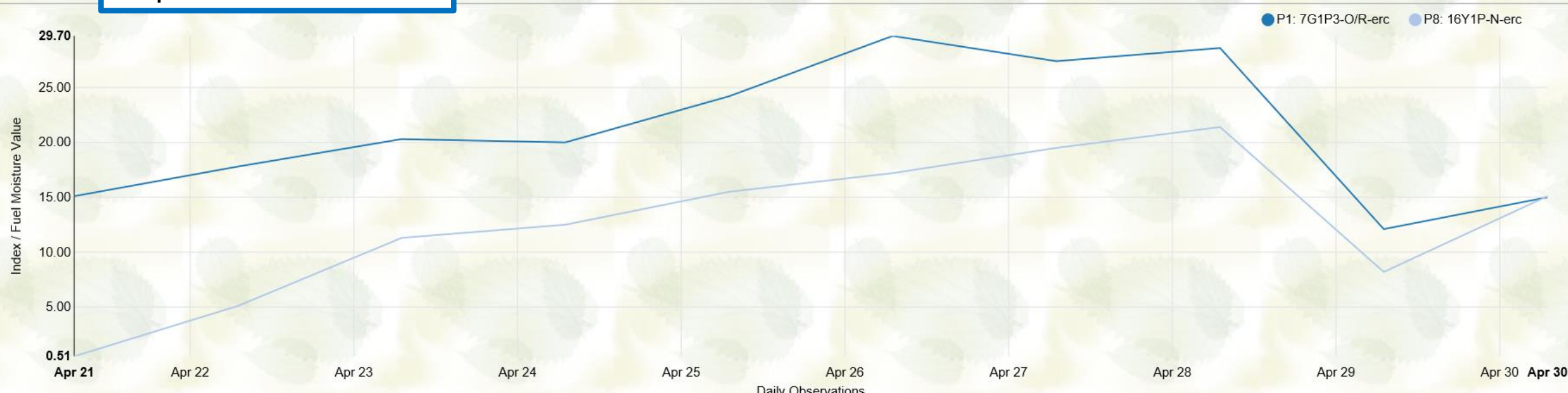
Obs Type N

Grid Graph Both

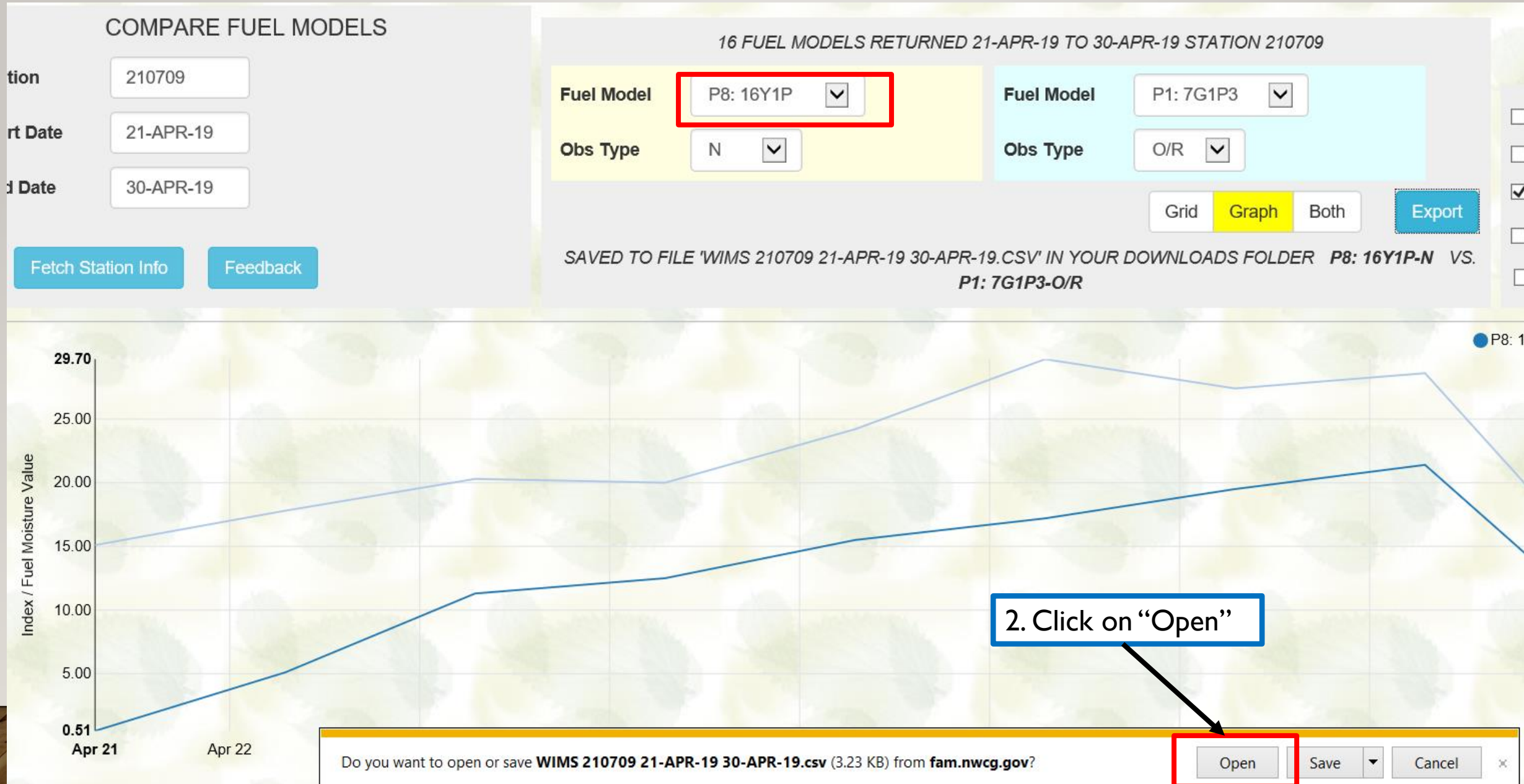
Export

☐ FM1 ☐ FM10 ☐ FM100
☐ FM1000 ☐ FMHERB ☐ FMWOOD
☒ ERC ☐ SC ☐ BI
☐ IC ☒ ABSOLUTE
☐ PERCENTILE

RESULTS FOR 10 DAYS P1: 7G1P3-O/R VS. P8: 16Y1P-N



OPEN THE .CSV FILE FOR SELECTED FUEL MODEL



SAVE THE FILE AS AN EXCEL FILE TO ARCHIVE/SHARE

AutoSave Off WIMS 210709 21-APR-19 30-APR-19 (1).csv - Read-Only - Excel

File Home Insert Data Review View Help Tell me what you want to do

Click on "File", then "Save As" an Excel file. Name file and save in desired Folder

Paste Cut Copy Format Paint Clipboard

Alignment Number Styles Cells

Conditional Formatting Format as Table Cell Styles Insert Delete Format

POSSIBLE DATA LOSS save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format. Don't show again Save As...

A1 X ✓ fx STATION_ID

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	STATION_	NFDR_DATE	NFD	NFDR	FUEL_MODE	fm1	fm10	fm100	fm1000	fmherb	fmwood	erc	sc	bi	ic	fm1%	fm10%	fm100%
2	210709	2019-04-21	13	N	P8: 16Y1P-N	32.64	25.74	24.53	24.4	30	60	0	0	0	0	-999	-999	-999
3	210709	2019-04-22	13	N	P8: 16Y1P-N	15.56	22.04	24.18	24.4	30	60	5.1	1.7	8.1	3	-999	-999	-999
4	210709	2019-04-23	13	N	P8: 16Y1P-N	8.04	14.28	22.09	24.28	30	60	11.3	1.7	11.9	17.5	-999	-999	-999
5	210709	2019-04-24	13	N	P8: 16Y1P-N	12.74	11.66	19.94	23.65	30	60	12.5	2.9	15.7	8.3	-999	-999	-999
6	210709	2019-04-25	13	N	P8: 16Y1P-N	7.78	15.53	18.21	22.68	30	60	15.5	2.3	15.7	21.9	-999	-999	-999
7	210709	2019-04-26	13	N	P8: 16Y1P-N	10.54	13.08	17.13	21.88	30	60	17.2	2.7	17.5	12.3	-999	-999	-999
8	210709	2019-04-27	13	N	P8: 16Y1P-N	9.2	11.91	16.34	21.34	30	60	19.5	2.6	18.4	16.5	-999	-999	-999
9	210709	2019-04-28	13	N	P8: 16Y1P-N	8.47	11.59	15.51	20.77	30	60	21.4	1.9	16.5	16	-999	-999	-999
10	210709	2019-04-29	13	N	P8: 16Y1P-N	34.9	21.05	15.39	20.8	30	60	8.2	0	0	0	-999	-999	-999
11	210709	2019-04-30	13	N	P8: 16Y1P-N	15.98	20.27	16.63	20.52	30	60	15.1	1.5	12.6	2.1	-999	-999	-999

ADDITIONAL REFERENCE DOCUMENTS

(CLICK ON LINK TO OPEN DOCUMENT)

NFDRS 2016 Evaluation (doc) <https://drive.google.com/open?id=IhCtTuRC27OADgPq9tdFJoISlwX3TFnKK>

NFDRS 2016 Evaluation (ppt) https://drive.google.com/open?id=I3cL9TO8Q8tDJbiSBZqn_VrxNKamTCz9p

Lesson-6-Setting up NFDRS 2016 in WIMS https://drive.google.com/open?id=IdoL_W9Bqneut7Q4kSZAopxl_B-KCHYaA

All FDRAs BI-FM-Y graph means https://drive.google.com/open?id=IT7IUSeEz_FBvXQZrJRkiVAV2_oC6r7Eb

ERC-BI comparison charts <https://drive.google.com/open?id=IJLHB6vHpuBI6L4EE2x7XaVsep2hhln4B>

Rays Valley Comparison <https://drive.google.com/open?id=IryL3WHD5K7sU6UyNqfR0x0RtQxvOmOhV>

SEZ 2-week hourly analysis https://drive.google.com/open?id=IgdIZw49lk_JRjXIRCRvKBQEOdLCrN88V

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