

WIMS TechNote

Fire and Aviation Management Staff

WIMS*TechNote-2006-03

Date: **07-April-2006**

System: **WIMS Web**

Subject: **Editing live fuel moisture parameters for 1988 fuel models**

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A recent update to **WIMS (Ver. 1.1.5)** improves management of parameters required for the 1988 fuel models. Specifically, management of the live fuel model parameters Season Code (SC), Grass Greenness Factor (GGF) and Shrub Greenness Factor (SGF) has moved from Edit NFDR (ENFDR) to Edit Observations (EOBS).

Daily Operation Details

Users without an 88 fuel model in a station catalog should see no changes and the EOBS form will look as it has before:

Ver. 1.1.5 FastPath EOBS Go Weather Information Management System Show Navigation Tree

Edit Observations EOBS Back to Menu

Station ID: 241513 List or SIG Type: Date: 07-APR-06 Time: 13 Find Reset Save

Station ID	Ob Tm	O T	W	Dry Tmp	RH%	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk	W F
								Dir	SP		Max	Min	Max	Min					
241513	13	R		53	62	0	0	321	4		53	35	100	62	7	0.09	0	0	N

Users with an 88 fuel model in a station catalog (this includes mixed 78 and 88 fuel models) will see an EOBS form with columns added for SC, GGF, and SGF:

Edit Observations EOBS Back

Station ID: 241513 List or SIG Type: O Date: 04-APR-06 Time: Find Reset Save

Station ID	Ob Tm	O T	W	Dry Tmp	RH%	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk	W F	SC	GGF	SGF
								Dir	SP		Max	Min	Max	Min								
241513	13	O	5	47	93		0	196	3		60	41	100	41	10	0.3		0	Y	1	2	3

These fields **should** be initially filled with the current values of SC/GGF/SGF from the station information catalog, where they can be changed or not. Once saved the SC/GGF/SGF values become part of the weather observation and can be viewed in DOBS:

Display Observations DOBS

Station ID: or SIG Type: Date: Time:

Station ID	Obs Date	Ob Tm	O T	W	Dry Tmp	RH	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk	SC	GGF	SGF
									Dir	SP		Max	Min	Max	Min							
241513	06-Apr-06	13	O	6	41	100		0	74	2		55	38	100	64	16	1.72		0	2	5	5

SIG Users: If you use a SIG to access a list of stations and 1 or more stations in the SIG has an 88 fuel model, you will get the added columns but you only need to be concerned with the station(s) that have values in them. A blank, or grayed box indicates there is not an 88 model associated with that station. In the following example, only station 242907 would require 88 parameters.

Ver. 1.1.4 FastPath **Weather Information Management System**

Display Observations DOBS

Station ID: or SIG Type: Date: Time:

Station ID	Obs Date	Ob Tm	O T	W	Dry Tmp	RH	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk	SC	GGF	SGF
									Dir	SP		Max	Min	Max	Min							
100711	09-Apr-06	13	R		55	40	0	0	276	1		55	33	100	40	5	0.14	0	0			
100799	09-Apr-06	13	R		58	25	0	0	253	0		60	38	96	25	1	0.02	0	0			
101013	09-Apr-06	13	R		62	39	0	0	272	4		69	42	100	27	7	0.16	0	0			
101019	09-Apr-06	13	R		37	62	0	0	206	9		39	22	100	47	1	0.01	0	0			
101037	09-Apr-06	13	R		64	27	0	0	198	4		64	37	99	27	6	0.17	0	0			
101045	09-Apr-06	13	R		52	30	0	0	131	1		54	32	95	30	1	0.01	0	0			
101311	09-Apr-06	13	R		51	24	0	0	293	4		53	33	44	24	0	0	0	0			
242907	09-Apr-06	13	R		53	27	0	0	185	5		55	33	100	27	1	0.02	0	0	3	5	5

Tip: Use DIDM and select All Models to get a complete list of all models of the stations in a SIG to determine station(s) with an 88 fuel model. Use a date where you have confidence all stations would be reporting

Subsequent observations (via EOBS or NOBS) will pre-fill SC/GGF/SGF from the most recent (hopefully previous day) "O" type. Thus a change in SC/GGF/SGF in EOBS becomes the default until it is changed again.

Edit Observations EOBS [Back](#)

Station ID: 241513 or SIG Type: Date: 07-APR-06 Time: 13

Station ID	Ob Tm	O T	W	Dry Temp	RH%	M L	HC Rsk	Wind		10 Hr	Temp		RH%		Dur	Amt	Y L	FHC Rsk	W F	SC	GGF	SGF
								Dir	SP		Max	Min	Max	Min								
241513	13	O	3	53	62		0	321	4		53	35	100	62	7	0.09		0	N	2	5	5

In DIDM, again users without 88 models will see no difference. If you have an 88 model, the SC/GGF/SGF will be shown for the 88 models. They now reflect the actual values used that day.

Display NFDR Moisture (Index) DIDM [Back to Menu](#)

Station ID: 241513 or SIG Type: 0 Date: >04-APR-06 1st All Fuel Model(s)

Station ID	Obs Date	O T	MSGC	WDY FM	Meas W FM	HRB FM	1H FM	10 FM	HU FM	TH FM	XT FM	SN CD	Grn GR	Grn SH	KBDI	W F
241513	040706	0	7G3P2	60		12	12	14	26	26	26				1	N
241513	040706	0	8G3P2	97		73	14	14	26	26	26	2	5	5	1	N
241513	040606	0	7G3P2	60		35	35	35	26	26	26				1	Y
241513	040606	0	8G3P2	96		87	35	35	26	26	25	2	5	5	1	Y
241513	040506	0	7G3P2	60		17	17	18	21	23	23				0	N
241513	040506	0	8G3P2	90		68	18	18	21	23	23	2	5	5	0	N
241513	040406	0	7G3P2	60		35	35	35	20	23	23				1	Y
241513	040406	0	8G3P2	60		35	35	35	20	23	23	1	2	3	1	Y

With the SC/GGF/SGF now stored in the observations table, they will be exported as part of the historical weather file from KCFast, and finally, the 88 live fuel model in FireFamily Plus can be used as designed. (The .FWX/.FW9 data formats have columns for SC/GGF/SGF but have never been populated out of WIMS/KCFast.)

Recalculation Details

In recalc (ENRR), after the observations are found, you now have an opportunity to review the live fuel moisture settings for all the fuel models in the station catalog, and change, in bulk, the SC/GGF/SGF that will apply to the 88 model, by clicking on the View/Edit Live Fuel Parameters button.

The left screenshot shows the 'Recalculate NFDERS ENRR' form. It includes fields for Station ID (241513), Observation Date(s) (From: 04-APR-06, To: 07-APR-06), and Type (0). A red arrow points to the 'View/Edit Live Fuel Parameters' button. Below the form, it states: 'There are 4 observations to recalc. It will take about 0.11 Seconds. Continue with recalc?' and a 'Recalc' button.

The right screenshot shows the 'View/Edit Live Fuel Parameter Details for Station 241513' screen. It features a table with columns: View 78 Models, Model Priority, Fuel Model, Stage Date, and Stage Desc. Below this is the 'Edit 88 Models' section, which is highlighted with a red box. It includes buttons for 'Select All', 'Select None', 'Reset', and 'Save'. A row for 'Season Code' shows '3' with a 'Set' button. Below this is a table with columns: Obs Date, Season Code, and Greenness Factor (Grass, Shrub). The table contains four rows of data:

	Obs Date	Season Code	Greenness Factor	
			Grass	Shrub
<input checked="" type="checkbox"/>	07-Apr-06	3	5	9
<input checked="" type="checkbox"/>	06-Apr-06	3	5	9
<input type="checkbox"/>	05-Apr-06	2	5	5
<input type="checkbox"/>	04-Apr-06	1	0	0

Once the View/Edit detail screen is up you can change the SC/GGF/SGF for any day in the date range. Or you can set a block of dates to the same value by using the check boxes or Select All/None buttons. Once the block of dates are selected (box is checked) you can enter the SC/GGF/SGF in the set row and hit the Set button for each parameter.

Remember to SAVE the changes.

Tip. This is an easy way to backfill a blocks of data for later export via KCFAST for FireFamily Plus. You can do the block editing here and **save**, then cancel out of recalc and the SC/GGF/SGF changes will be saved to the observations table but no recalculations done for existing records.