Setting Up NFDRS2016 Fuel Model/Index Combinations for Evaluation in WIMS

- 1. Find NFDRS2016 Critical Percentile Values
 - Find NFDRS2016 critical percentile values using FFP (90th, 97th & 80th, 95th)
- 2. Activate Desired NFDRS2016 Fuel Model/Index Combinations & Supply Percentile Thresholds
 - Navigate to the Default NFDRS Parameters Screen FastPath (ENFDR) GO Enter 'Station ID', set 'Effective Date' to 09-Jun-18 and hit 'FIND'
 - Activate the new NFDRS16 Fuel Model(s) that will be used for the test. The new fuel models will automatically appear on the ID list but they need to be activated... (if done correctly the changes made to the fuel model should be highlighted in green)
 - Complete the Staffing Index (SI) and Decision Class (DC) fields and enter the Staffing Index percentile basis (90th, 97th or 80th, 95th) and associated values (from step 1).

	Adopt 20	16 Models	0																		
D	Active	Р			** 78 NFDRS O	nly **	88	S	G	С							St	affing Idx I	Breakpoint	s	
e	Fuel	r		Н	3	Greenup	s	L L	r	1	MXD	SCM	Herb	Woody	χ.			L	w	H	igh
I	Models	i	ID	S	Herb Date	Date	b	Р	s	i			FM	FM	1000	SI	DC	SI%	Val	SI%	Val
		1	7G 🔻	F۲	16-Sep-18	24-May-18	7	2=26-40% •	P۲	3 🗸	L 7	30	23.4	70	29	BI 🔻	5	90	79	97	89
		2	16V V	Y			٧	2=26-40% •	P۲	Y	L۲	108				T					
		3	16W •	T			٣	2=26-40% •	P۲	Ŧ	L۲	62				•					
		4	16X 🔻	Y			٧	2=26-40% •	P۲	۲	L۲	104				•					
	V	5	16Y 🔻	Ţ			٣	2=26-40% •	P۲	T	L 7	5				BI 🔻	5	90	38	97	42
		6	16Z 🔻	•			٣	2=26-40% 🔻	P۲	7	L۲	19									

- Scroll up to top of ENFDR screen and hit save.
- NFDRS2016 values will now be available via DIDX and DIDM screens.



- 4. Compare Legacy vs. NFDRS2016 Index Values, Staffing Levels & Adjective Ratings Using DIDX
 - FastPath > (DIDX) > GO
 - Enter Station ID, Set Type to O/R+N, Select a few day time frame starting on 09-JUN-18, > Find

			Display Index Form	at DIDX 🐓
Station ID: 040917	or SIG	Type: O/R+N	✓ Start Date: 09-JUN-18	End Date: 13-JUN-18

 Select which fuel models to display

 ✓ P1: 7G2P3
 P2: 16V2P
 P3: 16W2P
 P4: 16X2P
 P5: 16Y2P
 P6: 16Z2P

DIDX should return legacy and NFDRS2016 values for any active fuel models selected

Station	Obs	Obs	Obs		Wind	WDY	HRB	1H	10	HU	TH												HC	
ID	Date	Tm	Туре	MSGC	SP	FM	FM	FM	FM	FM	FM	XH	IC	SC	ERC	BI	SL	R	KBDI	FL	LR	LO	Rsk	HO
40917	13-Jun-18	12	N	16Y2P	11	60.0	30.0	6.22	11.43	14.77	20.25	0.00	42.0	4.4	23.7	25.4	3	Μ	69	18	0	0	0	0
40917	13-Jun-18	12	0	7G2P3	11	114.2	134.7	3.65	5.17	11.29	15.61	17.98	41.7	9.7	42.4	48.0	3	Μ	69	34	0	0	0	0
40917	12-Jun-18	12	N	16Y2P	6	60.0	30.0	6.20	10.26	15.86	21.68	0.00	35.6	3.1	21.0	20.4	3	Μ	62	14	0	0	0	0
40917	12-Jun-18	12	0	7G2P3	6	112.9	129.7	3.36	4.89	11.05	15.72	18.09	33.3	5.6	42.7	37.5	3	Μ	62	27	0	0	0	0
40917	11-Jun-18	12	N	16Y2P	5	60.0	30.0	6.80	11.29	18.31	23.20	0.00	29.4	2.7	16.4	17.3	2	Μ	56	12	0	0	0	0
40917	11-Jun-18	12	0	7G2P3	5	111.4	124.4	3.45	5.00	11.20	15.83	18.20	30.2	5.0	42.2	35.2	3	Μ	56	25	0	0	0	0
40917	10-Jun-18	12	N	16Y2P	6	60.0	30.0	7.49	12.56	21.00	24.33	0.00	25.0	2.8	12.5	15.4	2	Μ	52	11	0	0	0	0
40917	10-Jun-18	12	0	7G2P3	6	110.3	119.9	4.30	5.64	10.99	15.99	18.36	26.5	5.5	41.2	36.4	3	Μ	52	26	0	0	0	0
40917	09-Jun-18	12	N	16Y2P	15	164.0	192.8	9.22	15.54	23.69	24.94	0.00	22.1	4.7	8.7	16.6	2	Μ	50	12	0	0	0	0
40917	09-Jun-18	12	0	7G2P3	15	108.5	114.4	7.34	7.97	10.47	16.07	18.41	22.2	12.6	39.1	52.1	3	Μ	50	37	0	0	0	0
40917 40917 40917 40917 40917 40917	11-Jun-18 10-Jun-18 10-Jun-18 09-Jun-18 09-Jun-18	12 12 12 12 12 12		7G2P3 16Y2P 7G2P3 16Y2P 7G2P3	5 6 15 15	111.4 60.0 110.3 164.0 108.5	124.4 30.0 119.9 192.8 114.4	3.45 7.49 4.30 9.22 7.34	5.00 12.56 5.64 15.54 7.97	11.20 21.00 10.99 23.69 10.47	15.83 24.33 15.99 24.94 16.07	18.20 0.00 18.36 0.00 18.41	30.2 25.0 26.5 22.1 22.2	5.0 2.8 5.5 4.7 12.6	42.2 12.5 41.2 8.7 39.1	35.2 15.4 36.4 16.6 52.1	3 2 3 2 3	M M M M	56 52 52 50 50	25 11 26 12 37	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0	

Total number of rows retrieved: 10 Completeness percentage: 33.33%

- You should note differences between legacy and NFDRS2016 values in *most* of the fields.
- 5. Compare NFDRS Fuel Model Outputs Using New Comparative Analysis Tool (COMP)
 - Fast Path (COMP) GO, Choose Start and End Dates, Select 'fetch station data'

	C	OMPARE FUEL MODELS
Station	420916	
Start Date	27-Jun-18	
End Date	11-Jul-18	

• Configure the Fuel Model, Obs Type and Fuel Moisture/Index selections per your station using the screen shot below as an example...and ensure 'Both' is selected. Values/graphs should update dynamically when changes are made.

	COMPAR	EFUELI	NODELO											
Station	040917					8 FUEL	IODELS RETURN	ED 08-JUN-18 TO 5	5-FEB-19 STATI	ON 040917				
Start Date	08-JUN-18				Fuel Model	P6: 16Z2P	T	Fuel Model	P1: 7G2P3	•		E FM1	EM10	EMW000
End Date	5-Feb-19				Obs Type	N *		Obs Type	O/R •			erc	SC SC	BI
_			_						Grid	Graph Both	Export	IC	ABSOLU	TE
Fetch S	Station Info	Feedbac	¢.				RESULTS FOR 24	0.04V0 46700 M				PERCEN	JTH E	
an 134.30 an 134.30 100.00			529	A	[mm	where we want		A A A A A A A A A A A A A A A A A A A	VS. 7G2P3-C	• 16Z2P-N-4	rc • 7G2P3-O/	R-erc 1622	P-N-bi • 7G2F	P3-O/R-bi
anien 134.30 100.00 I 100.00 I 100.00 I 100.00 J 0.00 J	10 10 10 10 10 10 10 10 10 10	Jul 1		Aug 1	(mm	Sep 1	Oct 1 Daily Oc	servations	VS. 7G2P3-C	16Z2P-N-	rc • 762P3-0/1	R-erc 1622	P-N-bi • 7G26	РЗ-О/Я-Ы
134.34 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00		Jul 1	72P-N	Aug 1	3-0/R	Sep 1	Oct 1 Daily Oc	servations	VS. 762P3-C	e 1622P-N-	rc • 762P3-0/1	R-erc 1622	P-N-bi • 762F	P3-O/R-bi
134.34 ango 2 100.00 ango 2 50.00 50.00 0.00 J FUEL N Nate	MODELS Time	Jul 1 16 ERC	Z2P-N BI	Aug 1 7G2F * ERC	23-O/R * BI	Sep 1	Oct 1 Daily Ot	servations	Nov 1	0 16Z2P-N-	rc • 762P3-0/1	R-erc 1622	P-N-bi •762F	23-0/R-bi
9 134.30 9 134.30 9 100.00 9 100.000 9 1000000000000000000000000000000000	MODELS Time 12	Jul 1 16 ERC 31.1	Z2P-N BI 57.6	Aug 1 7G2F • ERC 39.1	23-O/R * BI 52.1	Sep 1	Oct 1 Daily Ob	servations	Nov 1	16Z2P-N-	rc • 762P3-0/1	2019	P-N-bi • 7G2F	P3-OIR-bi

• Take note of the differences and trends. Check COMP periodically and make notes on how the different fuel models perform with respect to the actual fire danger/fire activity of the week.

- 6. Evaluate and Ask Questions/Provide Feedback
 - Use DIDX to evaluate differences between calculated Staffing Levels and Adjective Fire Danger Ratings
 - Use COMP to evaluate differences in model output values and trends
 - The process to evaluate and submit questions & feedback regarding the NFDRS2016 and WIMS:
 - NFDRS2016 => Slack.com
 - WIMS => COMP Feedback Button

	COMPARE FUEL MODELS
Station	040917
Start Date	08-JUN-18
End Date	5-Feb-19
Fetch S	Station Info Feedback