

MIDSOUTH FIRE WEATHER ANNUAL OPERATING PLAN

2016

I. INTRODUCTION

The National Weather Service (NWS) in Memphis, Tennessee will provide fire weather services for state and federal forestry agencies and other public land management institutions in the Midsouth. The services will consist of fire weather products and support as outlined in the Interagency Agreement for Meteorological Services, which was signed by the Departments of Commerce, Agriculture, and Interior. Information in this document is a procedural outline of services to be provided.

The NWS will compose standard products including fire weather planning forecasts, fire weather watches, red flag warnings, National Forest Danger Rating System (NFDRS) forecasts, fire weather notification messages, spot fire weather forecasts, and fire weather point forecast matrices. The NWS will communicate forecasts and other information to appropriate officials. Weather training and other assistance will be provided to cooperating agencies by the NWS when meteorologists are available.

Agencies served are encouraged to provide the NWS weather observations for forecasting and verification purposes. Land management agencies will provide fuel and fire behavior training necessary for forecasters to understand critical needs of foresters and others that extinguish forest fires.

II. COOPERATING FORESTRY AGENCIES

The National Weather Service will cooperate with the following agencies to provide Midsouth fire weather services:

- A. Arkansas Forestry Commission (AFC)
- B. Mississippi Forestry Commission (MFC)
- C. Missouri Department of Conservation (MDC)
- D. National Park Service (NPS) - Natchez Trace Parkway
- E. Tennessee Division of Forestry (TDF)
- F. US Forest Service - Holly Springs National Forest, St. Francis National Forest, and Tombigbee National Forest

Contact information for these agencies is in Appendix A and B.

III. SERVICE AREA

The Midsouth fire service area is around Memphis, Tennessee. This area includes parts of Northeast and East-Central Arkansas, the Missouri Bootheel, North Mississippi, and West Tennessee. A list of counties included in the service area is listed in Table 1.

Table 1. Counties Included in the Midsouth Fire Weather Service Area

Arkansas Counties

Clay	Craighead	Crittenden	Cross	Greene	Lawrence
Lee	Mississippi	Phillips	Poinsett	Randolph	St. Francis

Mississippi Counties

Alcorn	Benton	Calhoun	Chickasaw	Coahoma	DeSoto
Itawamba	Lafayette	Lee	Marshall	Monroe	Panola
Pontotoc	Prentiss	Quitman	Tallahatchie	Tate	Tippah
Tishomingo	Tunica	Union	Yalobusha		

Missouri Counties

Dunklin	Pemiscot
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Tennessee Counties

Benton	Carroll	Chester	Crockett	Decatur	Dyer
Fayette	Gibson	Hardeman	Haywood	Henderson	Henry
Lake	Lauderdale	Madison	McNairy	Obion	Shelby
Tipton	Weakley				

IV. OPERATIONAL WEATHER SERVICES TO BE PROVIDED BY THE NATIONAL WEATHER SERVICE

A. BASIC SERVICES

1. ROUTINE FIRE WEATHER PLANNING FORECASTS

Routine fire weather planning forecasts will be issued each morning and afternoon.

a. General Features - The NWS product identifier is MEMFWFMEG for both the morning and afternoon forecast. The forecasts should be segmented into 6 fixed zones. The zones and zone names to be used are:

1. Missouri Bootheel and Northeast Arkansas
2. East-Central Arkansas and St. Francis National Forest

3. West Tennessee District North
4. West Tennessee District South
5. Northwest Mississippi and Yalobusha Unit of the Holly Springs National Forest
6. Northeast Mississippi...Northern Unit Holly Springs National Forest
...Northern Unit Tombigbee National Forest...Northern Mississippi
Portion Natchez Trace Parkway

b. Release Time - Fire weather planning forecasts will be issued twice a day. Morning forecasts should be issued by 6 am Central Time. Afternoon forecasts should be issued by 4 pm Central Time. Many times, the afternoon forecast should be ready by 330 pm Central Time. Fire weather forecasts are issued throughout the year. Unscheduled updates will be made when determined necessary by the NWS or foresters.

c. Content Examples (See Figure 1 and 2) -

1. Header containing product title, originating office, and time/date.

2. Headline (after the Header and before the Discussion) – (An overview headline is required when Red Flag Warnings and/or Fire Weather Watches are in effect. A headline should be used when low humidity is forecast in accordance with local policy. The headline will include the warning type, location, reason for issuance (e.g., high winds and low humidity), and effective time period (i.e., the same format and information as in the Red Flag Warning and/or Fire Weather Watch). Describe the location in terms of geographic or other easily identified markers such as forests, parks, cities, towns, rivers, or highways. Also, include a headline for a warning and/or watch in each appropriate zone grouping. Forecasters are encouraged to use the same headline format (type, location, reasoning, and time period) in the appropriate individual segments as in the top headline. Significant trends of locally-defined critical weather elements should be headlined. To avoid confusion and possible inconsistencies among products, headlines for other watch or warning events from the public program (i.e., those headlined in the Zone Forecast Product) should not be included in the fire weather planning forecast.)

Low humidity conditions should be headlined when the minimum humidity is less than or equal to 30% and fire weather watch or red flag warning conditions are not met. Fire Weather Watches and Red Flag Warnings and are defined in Section IV.A.5. Separate products are issued for watches and warnings.

3. Discussion - Narrative of Midsouth weather with emphasis on the most important fire weather features of the forecast period.

4. Fire Zone Forecast (1 through 6). (Each parameter represents the whole zone.)

Average cloud cover
Chance of precipitation (%)
Precipitation type
Average precipitation amounts (inches)

Precipitation duration (hr)
Beginning of precipitation (hr)
Ending of precipitation (hr)
Average max/min air temperature and 24 hour trends (°F)
Average max/min relative humidity and 24 hour trends (%)
Average wind direction and range of wind speed at 20 ft (mph)
Mixing height (m and ft) (AGL and MSL)
Transport wind direction and speed (m/s and mph)
Ventilation index (m²/s)
Category day
500 meter mixing height temperature (°F)
500 meter transport wind direction and speed (m/s and mph)
Dispersion index
Lightning Activity Level (LAL)
Lower Atmospheric Stability Index (LASI)
Arkansas stability index
Mississippi stagnation index

Remarks (if necessary)

**Extended forecast containing chance and type of precipitation,
cloud cover, maximum and minimum air temperature, minimum
relative humidity, and average wind direction and speed**

d. Dissemination - Fire weather planning forecasts shall be disseminated via the internet, NWS circuits, and the NOAA Weather Wire Service. Forecasts should be posted on the internet within 15 minutes after release. The fire weather planning forecast can be obtained from <http://www.srh.noaa.gov/meg>.

e. Updates – The NWS will update the MEMFWFMEG when needed as determined by weather conditions and user requests.

f. Examples - An example of a morning forecast is in Figure 1, and an example of an afternoon forecast is in Figure 2.

Figure 1. Example of Morning Fire Weather Planning Forecast

FNUS54 KMEG 131004
FWFMEG

FIRE WEATHER PLANNING FORECAST FOR THE MIDSOUTH
NATIONAL WEATHER SERVICE MEMPHIS TN
404 AM CST MON JAN 13 2014

.DISCUSSION...

A COLD FRONT APPROACHING FROM THE WEST WILL MOVE TO NEAR THE MISSISSIPPI RIVER AROUND NOON TODAY...THEN WILL BE LOCATED ALONG OR JUST EAST OF THE TENNESSEE RIVER VALLEY BY SUNSET. SHOWERS AND A FEW

THUNDERSTORMS WILL OCCUR MAINLY ALONG AND EAST OF THE MISSISSIPPI RIVER IN ADVANCE OF THE FRONT. MODERATE SOUTHERLY WINDS...OCCASIONALLY STRONG AND GUSTY EARLY THIS MORNING...WILL TURN TO THE WEST AND NORTHWEST WITH PASSAGE OF THE COLD FRONT.

SHOWERS WILL MOVE EASTWARD OUT OF THE MIDSOUTH EARLY THIS EVENING. SKIES WILL BECOME MOSTLY CLEAR AND TEMPERATURES WILL BE COLDER.

A COLD FRONT WILL MOVE THROUGH THE MIDSOUTH FROM THE NORTH TUESDAY AFTERNOON AND EVENING. THERE IS JUST A SLIGHT CHANCE OF RAIN WITH THE FRONT. MODERATE SOUTHWEST AND WEST WILL OCCUR AHEAD OF THE FRONT. WINDS WILL TURN TO THE NORTHWEST AND BECOME STRONG AND GUSTY BEHIND THE FRONT TUESDAY AFTERNOON ACROSS PORTIONS OF NORTHEAST ARKANSAS...THE MISSOURI BOOTHEEL...AND PORTIONS OF NORTHWEST TENNESSEE.

ARZ008-009-017-018-026>028-MOZ113-115-132315-
 CLAY-CRAIGHEAD-DUNKLIN-GREENE-LAWRENCE-MISSISSIPPI-PEMISCOT-
 POINSETT-RANDOLPH-
 INCLUDING...MISSOURI BOOTHEEL...NORTHEAST ARKANSAS
 404 AM CST MON JAN 13 2014

	TODAY	TONIGHT	TUE
CLOUD COVER	MCLDY	MCLEAR	PCLDY
PRECIP CHANCE (%)	40	0	20
PRECIP TYPE	SHOWERS	NONE	RAIN
PRECIP AMOUNT (IN)	0.04	0.00	0.00
PRECIP DUR (HRS)	4		
PRECIP BEGINS	6 AM		
PRECIP ENDS	6 PM		
TEMP (24H TREND)	56 (-1)	34 (-11)	53
RH % (24H TREND)	56 (+8)	89 (+5)	40
AM 20 FT WIND (MPH)	SW 10-14 G22		SW 8-12 G18
PM 20 FT WIND (MPH)	W 7-11	W 4-8	W 12-16 G24
MIXING HGT (M-AGL)	1479		2107
MIXING HGT (FT-AGL)	4851		6913
MIXING HGT (M-MSL)	1565		2193
MIXING HGT (FT-MSL)	5135		7195
TRANSPORT WND (M/S)	NW 10		NW 15
TRANSPORT WND (MPH)	NW 22		NW 33
VENT INDEX (M2/S)	15650		32895
CATEGORY DAY	4		5
500M MIX HGT TEMP (F)	55		52
500M TSPT WIND (M/S)	W 11		W 12
500M TSPT WIND (MPH)	W 24		W 27
DISPERSION INDEX	62	19	113
LAL	2	1	1
LASI	2	4	4
STABILITY	D	F	D
STAGNATION INDEX	0	0	0

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.TUESDAY NIGHT...PARTLY CLOUDY. LOWS IN THE MID 20S. NORTHWEST WINDS 10 TO 15 MPH.

.WEDNESDAY...SUNNY. HIGHS IN THE UPPER 30S. MINIMUM RH 36 PERCENT. NORTHWEST WINDS 10 TO 15 MPH.

.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 20S. SOUTHWEST

WINDS 5 TO 10 MPH.
 .THURSDAY...PARTLY SUNNY. HIGHS IN THE UPPER 40S. MINIMUM RH 37 PERCENT. WEST WINDS AROUND 10 MPH.
 .THURSDAY NIGHT...MOSTLY CLOUDY. LOWS IN THE MID 20S. NORTHWEST WINDS 10 TO 15 MPH.
 .FRIDAY...PARTLY SUNNY. HIGHS IN THE UPPER 30S. MINIMUM RH 34 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.
 .FRIDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 20S. SOUTHWEST WINDS 5 TO 10 MPH.
 .SATURDAY...MOSTLY SUNNY. HIGHS IN THE LOWER 40S. MINIMUM RH 42 PERCENT. WEST WINDS 5 TO 10 MPH.
 .SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. NORTH WINDS 5 TO 10 MPH.
 .SUNDAY...SUNNY. HIGHS IN THE UPPER 40S. MINIMUM RH 35 PERCENT. NORTHEAST WINDS 5 TO 10 MPH.

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ARZ035-036-048-049-058-132315-
 CRITTENDEN-CROSS-LEE AR-PHILLIPS-ST. FRANCIS-
 INCLUDING...EAST-CENTRAL ARKANSAS...ST. FRANCIS NATIONAL FOREST
 404 AM CST MON JAN 13 2014

	TODAY	TONIGHT	TUE
CLOUD COVER	MCLDY	MCLEAR	PCLDY
PRECIP CHANCE (%)	60	0	20
PRECIP TYPE	TSTMS	NONE	RAIN
PRECIP AMOUNT (IN)	0.12	0.00	0.00
PRECIP DUR (HRS)	6		
PRECIP BEGINS	6 AM		
PRECIP ENDS	6 PM		
TEMP (24H TREND)	57 (-3)	34 (-12)	58
RH % (24H TREND)	60 (+15)	92 (+4)	38
AM 20 FT WIND (MPH)	S 8-12 G18		SW 6-10
PM 20 FT WIND (MPH)	W 6-10	NW 4-8	W 11-15 G20
MIXING HGT (M-AGL)	1248		1657
MIXING HGT (FT-AGL)	4096		5437
MIXING HGT (M-MSL)	1311		1719
MIXING HGT (FT-MSL)	4300		5640
TRANSPORT WND (M/S)	NW 9		NW 13
TRANSPORT WND (MPH)	NW 21		NW 29
VENT INDEX (M2/S)	11799		22347
CATEGORY DAY	4		5
500M MIX HGT TEMP (F)	57		55
500M TSPT WIND (M/S)	W 11		W 11
500M TSPT WIND (MPH)	W 25		W 25
DISPERSION INDEX	61	7	82
LAL	2	1	1
LASI	2	4	4
STABILITY	D	F	C
STAGNATION INDEX	0	1	0

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.TUESDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. NORTHWEST WINDS 10 TO 15 MPH.
 .WEDNESDAY...SUNNY. HIGHS IN THE UPPER 30S. MINIMUM RH 37 PERCENT. NORTHWEST WINDS 10 TO 15 MPH.

.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE UPPER 20S. SOUTHWEST WINDS 5 TO 10 MPH.
 .THURSDAY...PARTLY SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 37 PERCENT. SOUTHWEST WINDS AROUND 10 MPH.
 .THURSDAY NIGHT...MOSTLY CLOUDY. LOWS IN THE UPPER 20S. NORTHWEST WINDS AROUND 10 MPH.
 .FRIDAY...MOSTLY SUNNY. HIGHS AROUND 40. MINIMUM RH 34 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.
 .FRIDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 20S. SOUTHWEST WINDS 5 TO 10 MPH.
 .SATURDAY...MOSTLY SUNNY. HIGHS IN THE MID 40S. MINIMUM RH 39 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.
 .SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE LOWER 30S. NORTHWEST WINDS AROUND 5 MPH BECOMING NORTH AFTER MIDNIGHT.
 .SUNDAY...SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 36 PERCENT. NORTHEAST WINDS 5 TO 10 MPH.

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TNZ001>004-019>022-132315-
 BENTON TN-CARROLL-DYER-GIBSON-HENRY-LAKE-OBION-WEAKLEY-
 INCLUDING...WEST TENNESSEE DISTRICT NORTH
 404 AM CST MON JAN 13 2014

	TODAY	TONIGHT	TUE
CLOUD COVER	MCLDY	PCLDY	PCLDY
PRECIP CHANCE (%)	70	20	20
PRECIP TYPE	TSTMS	SHOWERS	RAIN
PRECIP AMOUNT (IN)	0.24	0.00	0.02
PRECIP DUR (HRS)	9		1
PRECIP BEGINS	6 AM		6 AM
PRECIP ENDS	6 PM		CONTINUING
TEMP (24H TREND)	53 (-3)	31 (-15)	53
RH % (24H TREND)	63 (+21)	97 (+17)	40
AM 20 FT WIND (MPH)	S 9-13 G21		SW 7-11
PM 20 FT WIND (MPH)	SW 6-10	W 4-8	W 11-15
MIXING HGT (M-AGL)	846		1419
MIXING HGT (FT-AGL)	2774		4657
MIXING HGT (M-MSL)	967		1540
MIXING HGT (FT-MSL)	3171		5054
TRANSPORT WND (M/S)	W 8		W 12
TRANSPORT WND (MPH)	W 17		W 28
VENT INDEX (M2/S)	7736		18480
CATEGORY DAY	3		5
500M MIX HGT TEMP (F)	53		50
500M TSPT WIND (M/S)	SW 13		W 11
500M TSPT WIND (MPH)	SW 29		W 25
DISPERSION INDEX	48	8	82
LAL	2	1	1
LASI	2	4	3
STABILITY	D	F	C
STAGNATION INDEX	0	2	0

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.TUESDAY NIGHT...A CHANCE OF FLURRIES. MOSTLY CLOUDY. LOWS IN THE MID 20S. NORTHWEST WINDS 10 TO 15 MPH.
 .WEDNESDAY...SCATTERED FLURRIES. SUNNY. HIGHS IN THE MID 30S.

MINIMUM RH 42 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.
 .WEDNESDAY NIGHT...PARTLY CLOUDY. LOWS IN THE MID 20S. SOUTHWEST WINDS 5 TO 10 MPH.
 .THURSDAY...PARTLY SUNNY. HIGHS IN THE UPPER 40S. MINIMUM RH 35 PERCENT. SOUTHWEST WINDS 10 TO 15 MPH.
 .THURSDAY NIGHT...MOSTLY CLOUDY. LOWS IN THE UPPER 20S. WEST WINDS AROUND 10 MPH.
 .FRIDAY...PARTLY SUNNY. HIGHS IN THE MID 30S. MINIMUM RH 37 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.
 .FRIDAY NIGHT...MOSTLY CLEAR. LOWS 15 TO 20. SOUTHWEST WINDS 5 TO 10 MPH.
 .SATURDAY...MOSTLY SUNNY. HIGHS IN THE UPPER 30S. MINIMUM RH 40 PERCENT. SOUTHWEST WINDS 10 TO 15 MPH.
 .SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. NORTH WINDS 5 TO 10 MPH.
 .SUNDAY...SUNNY. HIGHS IN THE MID 40S. MINIMUM RH 37 PERCENT. NORTH WINDS 5 TO 10 MPH.

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TNZ048>055-088>091-132315-
 CHESTER-CROCKETT-DECATUR-FAYETTE-HARDEMAN-HAYWOOD-HENDERSON-
 LAUDERDALE-MADISON-MCNAIRY-SHELBY-TIPTON-
 INCLUDING...WEST TENNESSEE DISTRICT SOUTH
 404 AM CST MON JAN 13 2014

	TODAY	TONIGHT	TUE
CLOUD COVER	MCLDY	PCLDY	PCLDY
PRECIP CHANCE (%)	90	20	20
PRECIP TYPE	TSTMS	SHOWERS	RAIN
PRECIP AMOUNT (IN)	0.29	0.00	0.01
PRECIP DUR (HRS)	9		1
PRECIP BEGINS	6 AM		6 AM
PRECIP ENDS	6 PM		6 PM
TEMP (24H TREND)	55 (-4)	32 (-14)	57
RH % (24H TREND)	61 (+27)	96 (+15)	37
AM 20 FT WIND (MPH)	S 10-14 G22		SW 7-11
PM 20 FT WIND (MPH)	SW 6-10	NW 4-8	W 10-14
MIXING HGT (M-AGL)	745		1310
MIXING HGT (FT-AGL)	2444		4298
MIXING HGT (M-MSL)	866		1431
MIXING HGT (FT-MSL)	2841		4695
TRANSPORT WND (M/S)	W 7		W 12
TRANSPORT WND (MPH)	W 16		W 28
VENT INDEX (M2/S)	6062		17172
CATEGORY DAY	3		5
500M MIX HGT TEMP (F)	55		51
500M TSPT WIND (M/S)	SW 13		W 11
500M TSPT WIND (MPH)	SW 29		W 24
DISPERSION INDEX	46	10	78
LAL	2	1	1
LASI	2	4	4
STABILITY	D	F	C
STAGNATION INDEX	0	2	0

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.TUESDAY NIGHT...A SLIGHT CHANCE OF SNOW. PARTLY CLOUDY. LOWS IN

THE UPPER 20S. NORTHWEST WINDS 10 TO 15 MPH.
 .WEDNESDAY...SCATTERED FLURRIES. SUNNY. HIGHS IN THE MID 30S.
 MINIMUM RH 40 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.
 .WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 20S. SOUTHWEST
 WINDS 5 TO 10 MPH.
 .THURSDAY...PARTLY SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH
 33 PERCENT. SOUTHWEST WINDS 10 TO 15 MPH.
 .THURSDAY NIGHT...MOSTLY CLOUDY. LOWS IN THE UPPER 20S. WEST
 WINDS AROUND 10 MPH.
 .FRIDAY...PARTLY SUNNY. HIGHS IN THE MID 30S. MINIMUM RH
 35 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.
 .FRIDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 20S. SOUTHWEST
 WINDS 5 TO 10 MPH.
 .SATURDAY...MOSTLY SUNNY. HIGHS IN THE LOWER 40S. MINIMUM RH
 38 PERCENT. SOUTHWEST WINDS 10 TO 15 MPH.
 .SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. NORTHWEST
 WINDS 5 TO 10 MPH BECOMING NORTH AFTER MIDNIGHT.
 .SUNDAY...SUNNY. HIGHS IN THE UPPER 40S. MINIMUM RH 34 PERCENT.
 NORTH WINDS 5 TO 10 MPH.

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MSZ001-007-008-010>012-020-021-132315-
 COAHOMA-DESOTO-PANOLA-QUITMAN-TALLAHATCHIE-TATE-TUNICA-YALOBUSHA-
 INCLUDING...NORTHWEST MISSISSIPPI...
 SOUTH UNIT HOLLY SPRINGS NATIONAL FOREST
 404 AM CST MON JAN 13 2014

	TODAY	TONIGHT	TUE
CLOUD COVER	MCLDY	PCLDY	PCLDY
PRECIP CHANCE (%)	90	0	20
PRECIP TYPE	TSTMS	NONE	RAIN
PRECIP AMOUNT (IN)	0.33	0.00	0.00
PRECIP DUR (HRS)	8		
PRECIP BEGINS	6 AM		
PRECIP ENDS	6 PM		
TEMP (24H TREND)	55 (-6)	33 (-13)	59
RH % (24H TREND)	66 (+30)	97 (+4)	37
AM 20 FT WIND (MPH)	S 9-13		SW 6-10
PM 20 FT WIND (MPH)	W 6-10	NW 4-8	W 10-14
MIXING HGT (M-AGL)	797		1203
MIXING HGT (FT-AGL)	2614		3948
MIXING HGT (M-MSL)	869		1275
MIXING HGT (FT-MSL)	2850		4183
TRANSPORT WND (M/S)	NW 7		W 11
TRANSPORT WND (MPH)	NW 15		W 25
VENT INDEX (M2/S)	6083		14025
CATEGORY DAY	3		4
500M MIX HGT TEMP (F)	59		55
500M TSPT WIND (M/S)	SW 11		W 9
500M TSPT WIND (MPH)	SW 25		W 21
DISPERSION INDEX	45	12	69
LAL	2	1	1
LASI	2	4	4
STABILITY	D	F	C
STAGNATION INDEX	0	2	0

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.TUESDAY NIGHT...A SLIGHT CHANCE OF RAIN. PARTLY CLOUDY. LOWS IN THE UPPER 20S. NORTHWEST WINDS 10 TO 15 MPH.
 .WEDNESDAY...SUNNY. HIGHS IN THE UPPER 30S. MINIMUM RH 41 PERCENT. NORTHWEST WINDS 10 TO 15 MPH.
 .WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE UPPER 20S. SOUTHWEST WINDS 5 TO 10 MPH.
 .THURSDAY...PARTLY SUNNY. HIGHS IN THE MID 50S. MINIMUM RH 37 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.
 .THURSDAY NIGHT...PARTLY CLOUDY. LOWS AROUND 30. WEST WINDS AROUND 10 MPH.
 .FRIDAY...MOSTLY SUNNY. HIGHS AROUND 40. MINIMUM RH 36 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.
 .FRIDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 20S. SOUTHWEST WINDS 5 TO 10 MPH.
 .SATURDAY...MOSTLY SUNNY. HIGHS IN THE MID 40S. MINIMUM RH 39 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.
 .SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE LOWER 30S. WEST WINDS AROUND 5 MPH BECOMING NORTH AFTER MIDNIGHT.
 .SUNDAY...SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 36 PERCENT. NORTHEAST WINDS 5 TO 10 MPH.

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MSZ002>006-009-013>017-022>024-132315-
 ALCORN-BENTON MS-CALHOUN-CHICKASAW-ITAWAMBA-LAFAYETTE-LEE MS-MARSHALL-MONROE-PONTOTOC-PRENTISS-TIPPAH-TISHOMINGO-UNION-INCLUDING...NORTH MISSISSIPPI PORTION NATCHEZ TRACE PARKWAY...NORTH UNIT HOLLY SPRINGS NATIONAL FOREST...NORTH UNIT TOMBIGBEE NATIONAL FOREST...NORTHEAST MISSISSIPPI 404 AM CST MON JAN 13 2014

	TODAY	TONIGHT	TUE
CLOUD COVER	CLOUDY	PCLDY	PCLDY
PRECIP CHANCE (%)	100	30	20
PRECIP TYPE	TSTMS	SHOWERS	RAIN
PRECIP AMOUNT (IN)	0.45	0.02	0.00
PRECIP DUR (HRS)	12	1	
PRECIP BEGINS	6 AM	CONTINUING	
PRECIP ENDS	CONTINUING	12 AM	
TEMP (24H TREND)	54 (-7)	33 (-12)	59
RH % (24H TREND)	59 (+27)	97 (+10)	38
AM 20 FT WIND (MPH)	S 8-12		W 4-8
PM 20 FT WIND (MPH)	SW 5-9	NW 3-7	W 8-12
MIXING HGT (M-AGL)	249		963
MIXING HGT (FT-AGL)	817		3158
MIXING HGT (M-MSL)	374		1086
MIXING HGT (FT-MSL)	1226		3564
TRANSPORT WND (M/S)	W 5		W 11
TRANSPORT WND (MPH)	W 10		W 25
VENT INDEX (M2/S)	1870		11946
CATEGORY DAY	1		4
500M MIX HGT TEMP (F)	57		52
500M TSPT WIND (M/S)	SW 12		W 8
500M TSPT WIND (MPH)	SW 27		W 18
DISPERSION INDEX	23	20	69
LAL	2	1	1
LASI	2	4	4
STABILITY	D	F	C
STAGNATION INDEX	0	2	1

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.TUESDAY NIGHT...A CHANCE OF FLURRIES AND A SLIGHT CHANCE OF RAIN. MOSTLY CLOUDY. LOWS IN THE UPPER 20S. NORTHWEST WINDS 5 TO 10 MPH.

.WEDNESDAY...SCATTERED FLURRIES. SUNNY. HIGHS IN THE UPPER 30S. MINIMUM RH 39 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.

.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 20S. SOUTHWEST WINDS 5 TO 10 MPH.

.THURSDAY...PARTLY SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 33 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

.THURSDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. NORTHWEST WINDS 5 TO 10 MPH.

.FRIDAY...PARTLY SUNNY. HIGHS IN THE UPPER 30S. MINIMUM RH 35 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.

.FRIDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 20S. WEST WINDS AROUND 5 MPH.

.SATURDAY...MOSTLY SUNNY. HIGHS IN THE MID 40S. MINIMUM RH 34 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

.SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. NORTHWEST WINDS AROUND 5 MPH.

.SUNDAY...SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 32 PERCENT. NORTH WINDS 5 TO 10 MPH.

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Figure 2. Example of Afternoon Fire Weather Planning Forecast.

FNUS54 KMEG 132042
FWFMEG

FIRE WEATHER PLANNING FORECAST FOR THE MIDSOUTH
NATIONAL WEATHER SERVICE MEMPHIS TN
242 PM CST MON JAN 13 2014

.DISCUSSION...

SHOWERS WILL CONTINUE TO TAPER OFF THROUGH EARLY EVENING ACROSS THE MIDSOUTH AS A COLD FRONT PUSHES THROUGH THE REGION. A REINFORCING FRONT WILL MOVE THROUGH TOMORROW NIGHT...BUT VERY LITTLE IF ANY PRECIPITATION IS EXPECTED. BEHIND THE FRONT COLD AIR WILL MOVE IN...WITH HIGHS ONLY EXPECTED TO BE IN THE 30S ACROSS THE MID-SOUTH BY WEDNESDAY. A BRIEF WARMUP WILL OCCUR ON THURSDAY AS WINDS SHIFT TO THE SOUTH.

YET ANOTHER COLD FRONT WILL MOVE INTO THE MID-SOUTH ON THURSDAY NIGHT...WITH NO RAIN IS EXPECTED...JUST ANOTHER SHOT OF COLD AIR. TEMPERATURES WILL REMAIN BELOW NORMAL THROUGH THE WEEKEND...WITH A REBOUND TO NEAR NORMAL TEMPERATURES BY EARLY NEXT WEEK.

ARZ008-009-017-018-026>028-MOZ113-115-141115-
CLAY-CRAIGHEAD-DUNKLIN-GREENE-LAWRENCE-MISSISSIPPI-PEMISCOT-
POINSETT-RANDOLPH-
INCLUDING...MISSOURI BOOTHEEL...NORTHEAST ARKANSAS

242 PM CST MON JAN 13 2014

	TONIGHT	TUE	TUE NIGHT	WED
CLOUD COVER	MCLEAR	PCLDY	PCLDY	PCLDY
PRECIP CHANCE (%)	0	20	0	0
PRECIP TYPE	NONE	RAIN	NONE	NONE
PRECIP AMOUNT (IN)	0.00	0.01	0.00	0.00
PRECIP DUR (HRS)		1		
PRECIP BEGINS		6 AM		
PRECIP ENDS		6 PM		
TEMP (24H TREND)	35 (-14)	53 (-7)	27	37
RH % (24H TREND)	84 (+8)	44 (-6)	61	30
AM 20 FT WIND (MPH)		SW 8-12 G20		NW 10-14
PM 20 FT WIND (MPH)	W 5-9	W 11-15 G22	NW 8-12	NW 7-11
MIXING HGT (M-AGL)		1992		1976
MIXING HGT (FT-AGL)		6536		6484
MIXING HGT (M-MSL)		2078		2062
MIXING HGT (FT-MSL)		6817		6766
TRANSPORT WND (M/S)		NW 14		NW 11
TRANSPORT WND (MPH)		NW 31		NW 25
VENT INDEX (M2/S)		29092		22682
CATEGORY DAY		5		5
500M MIX HGT TEMP (F)		55		33
500M TSPT WIND (M/S)		W 12		NW 9
500M TSPT WIND (MPH)		W 27		NW 19
DISPERSION INDEX	7	103	96	82
LAL	1	1	1	1
LASI	5	4	3	4
STABILITY	F	D	E	C
STAGNATION INDEX	0	0	0	2

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 20S. SOUTHWEST WINDS 5 TO 10 MPH.

.THURSDAY...PARTLY SUNNY. HIGHS IN THE UPPER 40S. MINIMUM RH 36 PERCENT. SOUTHWEST WINDS AROUND 10 MPH.

.THURSDAY NIGHT...MOSTLY CLOUDY. LOWS IN THE MID 20S. NORTHWEST WINDS AROUND 10 MPH.

.FRIDAY...PARTLY SUNNY. HIGHS IN THE MID 30S. MINIMUM RH 37 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.

.FRIDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 20S. WEST WINDS AROUND 5 MPH.

.SATURDAY...MOSTLY SUNNY. HIGHS IN THE LOWER 40S. MINIMUM RH 38 PERCENT. SOUTHWEST WINDS 10 TO 15 MPH.

.SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. NORTH WINDS 5 TO 10 MPH.

.SUNDAY...SUNNY. HIGHS IN THE MID 40S. MINIMUM RH 49 PERCENT. NORTHWEST WINDS AROUND 5 MPH BECOMING SOUTHWEST IN THE AFTERNOON.

.SUNDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 30S. SOUTHWEST WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF RAIN. PARTLY SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 48 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

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ARZ035-036-048-049-058-141115-
CRITTENDEN-CROSS-LEE AR-PHILLIPS-ST. FRANCIS-

INCLUDING...EAST-CENTRAL ARKANSAS...ST. FRANCIS NATIONAL FOREST
 242 PM CST MON JAN 13 2014

	TONIGHT	TUE	TUE NIGHT	WED
CLOUD COVER	MCLEAR	PCLDY	PCLDY	PCLDY
PRECIP CHANCE (%)	0	20	0	0
PRECIP TYPE	NONE	RAIN	NONE	NONE
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
TEMP (24H TREND)	36 (-14)	58 (0)	29	39
RH % (24H TREND)	86 (-9)	41 (-18)	66	29
AM 20 FT WIND (MPH)		SW 6-10		NW 10-14 G23
PM 20 FT WIND (MPH)	NW 4-8	W 9-13	NW 8-12	NW 9-13 G21
MIXING HGT (M-AGL)		1578		1961
MIXING HGT (FT-AGL)		5178		6435
MIXING HGT (M-MSL)		1640		2024
MIXING HGT (FT-MSL)		5382		6639
TRANSPORT WND (M/S)		W 12		NW 13
TRANSPORT WND (MPH)		W 26		NW 30
VENT INDEX (M2/S)		19680		26312
CATEGORY DAY		5		5
500M MIX HGT TEMP (F)		58		37
500M TSPT WIND (M/S)		W 12		NW 9
500M TSPT WIND (MPH)		W 27		NW 21
DISPERSION INDEX	8	75	47	94
LAL	1	1	1	1
LASI	4	4	4	3
STABILITY	F	C	E	D
STAGNATION INDEX	0	0	0	2

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE UPPER 20S. WEST WINDS AROUND 5 MPH BECOMING SOUTHWEST AFTER MIDNIGHT.

.THURSDAY...PARTLY SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 37 PERCENT. SOUTHWEST WINDS AROUND 10 MPH.

.THURSDAY NIGHT...MOSTLY CLOUDY. LOWS IN THE UPPER 20S. NORTHWEST WINDS AROUND 10 MPH.

.FRIDAY...MOSTLY SUNNY. HIGHS AROUND 40. MINIMUM RH 36 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.

.FRIDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 20S. WEST WINDS AROUND 5 MPH.

.SATURDAY...MOSTLY SUNNY. HIGHS IN THE MID 40S. MINIMUM RH 36 PERCENT. SOUTHWEST WINDS 10 TO 15 MPH.

.SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. WEST WINDS 5 TO 10 MPH BECOMING NORTH AFTER MIDNIGHT.

.SUNDAY...SUNNY. HIGHS IN THE UPPER 40S. MINIMUM RH 46 PERCENT. NORTHEAST WINDS AROUND 5 MPH BECOMING SOUTH IN THE AFTERNOON.

.SUNDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 30S. SOUTHWEST WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF RAIN. PARTLY SUNNY. HIGHS IN THE MID 50S. MINIMUM RH 44 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

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TNZ001>004-019>022-141115-

BENTON TN-CARROLL-DYER-GIBSON-HENRY-LAKE-OBION-WEAKLEY-
 INCLUDING...WEST TENNESSEE DISTRICT NORTH
 242 PM CST MON JAN 13 2014

	TONIGHT	TUE	TUE NIGHT	WED
CLOUD COVER	PCLDY	PCLDY	PCLDY	PCLDY
PRECIP CHANCE (%)	20	20	20	20
PRECIP TYPE	SHOWERS	RAIN	SNOW	SNOW
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
TEMP (24H TREND)	33 (-13)	53 (0)	26	34
RH % (24H TREND)	91 (+4)	44 (-19)	67	35
AM 20 FT WIND (MPH)		SW 7-11		NW 8-12
PM 20 FT WIND (MPH)	NW 4-8	W 9-13	NW 7-11	NW 8-12
MIXING HGT (M-AGL)		1517		2068
MIXING HGT (FT-AGL)		4976		6785
MIXING HGT (M-MSL)		1638		2189
MIXING HGT (FT-MSL)		5373		7182
TRANSPORT WND (M/S)		W 13		NW 11
TRANSPORT WND (MPH)		W 29		NW 24
VENT INDEX (M2/S)		21294		24079
CATEGORY DAY		5		5
500M MIX HGT TEMP (F)		53		30
500M TSPT WIND (M/S)		W 12		NW 7
500M TSPT WIND (MPH)		W 27		NW 16
DISPERSION INDEX	19	87	85	80
LAL	1	1	1	1
LASI	4	4	3	3
STABILITY	F	C	E	C
STAGNATION INDEX	0	0	0	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.WEDNESDAY NIGHT...PARTLY CLOUDY. LOWS IN THE MID 20S. SOUTHWEST WINDS 5 TO 10 MPH.

.THURSDAY...PARTLY SUNNY. HIGHS IN THE UPPER 40S. MINIMUM RH 35 PERCENT. SOUTHWEST WINDS AROUND 10 MPH.

.THURSDAY NIGHT...MOSTLY CLOUDY. LOWS IN THE MID 20S. WEST WINDS AROUND 10 MPH.

.FRIDAY...PARTLY SUNNY. HIGHS IN THE MID 30S. MINIMUM RH 38 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.

.FRIDAY NIGHT...MOSTLY CLEAR. LOWS 15 TO 20. WEST WINDS AROUND 5 MPH.

.SATURDAY...MOSTLY SUNNY. HIGHS IN THE UPPER 30S. MINIMUM RH 37 PERCENT. SOUTHWEST WINDS 10 TO 15 MPH.

.SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE MID 20S. NORTHWEST WINDS 5 TO 10 MPH.

.SUNDAY...SUNNY. HIGHS IN THE MID 40S. MINIMUM RH 45 PERCENT. NORTHWEST WINDS AROUND 5 MPH BECOMING SOUTHWEST IN THE AFTERNOON.

.SUNDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 30S. SOUTHWEST WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF RAIN. PARTLY SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 45 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

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TNZ048>055-088>091-141115-
 CHESTER-CROCKETT-DECATUR-FAYETTE-HARDEMAN-HAYWOOD-HENDERSON-
 LAUDERDALE-MADISON-MCNAIRY-SHELBY-TIPTON-
 INCLUDING...WEST TENNESSEE DISTRICT SOUTH
 242 PM CST MON JAN 13 2014

	TONIGHT	TUE	TUE NIGHT	WED
CLOUD COVER	PCLDY	PCLDY	PCLDY	PCLDY
PRECIP CHANCE (%)	20	20	20	10
PRECIP TYPE	SHOWERS	RAIN	SNOW	FLURRIES
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
TEMP (24H TREND)	34 (-14)	57 (+2)	28	36
RH % (24H TREND)	89 (-1)	39 (-22)	66	32
AM 20 FT WIND (MPH)		SW 7-11		NW 9-13
PM 20 FT WIND (MPH)	NW 4-8	W 9-13	NW 7-11	NW 8-12
MIXING HGT (M-AGL)		1443		2151
MIXING HGT (FT-AGL)		4734		7058
MIXING HGT (M-MSL)		1564		2273
MIXING HGT (FT-MSL)		5131		7456
TRANSPORT WND (M/S)		W 12		NW 12
TRANSPORT WND (MPH)		W 28		NW 26
VENT INDEX (M2/S)		18768		27276
CATEGORY DAY		5		5
500M MIX HGT TEMP (F)		55		32
500M TSPT WIND (M/S)		W 12		NW 8
500M TSPT WIND (MPH)		W 26		NW 18
DISPERSION INDEX	31	88	83	89
LAL	1	1	1	1
LASI	4	4	3	3
STABILITY	F	C	E	C
STAGNATION INDEX	0	0	0	2

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 20S. SOUTHWEST WINDS 5 TO 10 MPH.

.THURSDAY...PARTLY SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 32 PERCENT. SOUTHWEST WINDS AROUND 10 MPH.

.THURSDAY NIGHT...MOSTLY CLOUDY. LOWS IN THE UPPER 20S. WEST WINDS AROUND 10 MPH.

.FRIDAY...PARTLY SUNNY. HIGHS IN THE MID 30S. MINIMUM RH 36 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.

.FRIDAY NIGHT...MOSTLY CLEAR. LOWS AROUND 20. WEST WINDS AROUND 5 MPH.

.SATURDAY...MOSTLY SUNNY. HIGHS IN THE LOWER 40S. MINIMUM RH 34 PERCENT. SOUTHWEST WINDS 10 TO 15 MPH.

.SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. WEST WINDS 5 TO 10 MPH BECOMING NORTH AFTER MIDNIGHT.

.SUNDAY...SUNNY. HIGHS IN THE UPPER 40S. MINIMUM RH 41 PERCENT. NORTHWEST WINDS AROUND 5 MPH BECOMING SOUTHWEST IN THE AFTERNOON.

.SUNDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 30S. SOUTHWEST WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF RAIN. PARTLY SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 42 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

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MSZ001-007-008-010>012-020-021-141115-
 COAHOMA-DESOTO-PANOLA-QUITMAN-TALLAHATCHIE-TATE-TUNICA-YALOBUSHA-
 INCLUDING...NORTHWEST MISSISSIPPI...
 SOUTH UNIT HOLLY SPRINGS NATIONAL FOREST
 242 PM CST MON JAN 13 2014

	TONIGHT	TUE	TUE NIGHT	WED
CLOUD COVER	PCLDY	PCLDY	PCLDY	PCLDY
PRECIP CHANCE (%)	0	20	20	0
PRECIP TYPE	NONE	RAIN	RAIN	NONE
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
TEMP (24H TREND)	37 (-11)	59 (+3)	30	39
RH % (24H TREND)	89 (-9)	40 (-25)	69	32
AM 20 FT WIND (MPH)		SW 5-9		NW 10-14 G23
PM 20 FT WIND (MPH)	NW 4-8	W 7-11	NW 7-11	NW 9-13 G22
MIXING HGT (M-AGL)		1182		2030
MIXING HGT (FT-AGL)		3877		6661
MIXING HGT (M-MSL)		1254		2103
MIXING HGT (FT-MSL)		4113		6898
TRANSPORT WND (M/S)		W 12		NW 15
TRANSPORT WND (MPH)		W 26		NW 33
VENT INDEX (M2/S)		15048		31545
CATEGORY DAY		4		5
500M MIX HGT TEMP (F)		58		37
500M TSPT WIND (M/S)		W 10		NW 9
500M TSPT WIND (MPH)		W 23		NW 21
DISPERSION INDEX	17	72	51	101
LAL	1	1	1	1
LASI	4	4	4	3
STABILITY	F	C	E	D
STAGNATION INDEX	0	0	0	2

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE UPPER 20S. SOUTHWEST WINDS 5 TO 10 MPH.

.THURSDAY...PARTLY SUNNY. HIGHS IN THE MID 50S. MINIMUM RH 36 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

.THURSDAY NIGHT...PARTLY CLOUDY. LOWS AROUND 30. WEST WINDS AROUND 10 MPH.

.FRIDAY...MOSTLY SUNNY. HIGHS AROUND 40. MINIMUM RH 39 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.

.FRIDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 20S. WEST WINDS AROUND 5 MPH.

.SATURDAY...MOSTLY SUNNY. HIGHS IN THE MID 40S. MINIMUM RH 36 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

.SATURDAY NIGHT...PARTLY CLOUDY. LOWS AROUND 30. WEST WINDS 5 TO 10 MPH BECOMING NORTHWEST AFTER MIDNIGHT.

.SUNDAY...SUNNY. HIGHS AROUND 50. MINIMUM RH 44 PERCENT. NORTHWEST WINDS AROUND 5 MPH BECOMING SOUTHWEST IN THE AFTERNOON.

.SUNDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 30S. SOUTHWEST WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF RAIN. PARTLY SUNNY. HIGHS IN THE MID

50S. MINIMUM RH 45 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

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MSZ002>006-009-013>017-022>024-141115-
 ALCORN-BENTON MS-CALHOUN-CHICKASAW-ITAWAMBA-LAFAYETTE-LEE MS-
 MARSHALL-MONROE-PONTOTOC-PRENTISS-TIPPAH-TISHOMINGO-UNION-
 INCLUDING...NORTH MISSISSIPPI PORTION NATCHEZ TRACE PARKWAY...
 NORTH UNIT HOLLY SPRINGS NATIONAL FOREST...
 NORTH UNIT TOMBIGBEE NATIONAL FOREST...NORTHEAST MISSISSIPPI
 242 PM CST MON JAN 13 2014

	TONIGHT	TUE	TUE NIGHT	WED
CLOUD COVER	PCLDY	PCLDY	PCLDY	PCLDY
PRECIP CHANCE (%)	30	20	20	10
PRECIP TYPE	SHOWERS	RAIN	RAIN	FLURRIES
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
TEMP (24H TREND)	36 (-11)	59 (+5)	30	38
RH % (24H TREND)	94 (+1)	39 (-19)	71	31
AM 20 FT WIND (MPH)		W 4-8		NW 8-12
PM 20 FT WIND (MPH)	NW 3-7	W 6-10	NW 5-9	NW 8-12
MIXING HGT (M-AGL)		1104		2154
MIXING HGT (FT-AGL)		3621		7067
MIXING HGT (M-MSL)		1227		2278
MIXING HGT (FT-MSL)		4027		7474
TRANSPORT WND (M/S)		W 12		NW 13
TRANSPORT WND (MPH)		W 26		NW 29
VENT INDEX (M2/S)		14724		29614
CATEGORY DAY		4		5
500M MIX HGT TEMP (F)		55		34
500M TSPT WIND (M/S)		W 9		NW 8
500M TSPT WIND (MPH)		W 21		NW 19
DISPERSION INDEX	38	76	72	101
LAL	1	1	1	1
LASI	4	4	3	3
STABILITY	F	C	E	C
STAGNATION INDEX	1	0	0	2

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.WEDNESDAY NIGHT...MOSTLY CLEAR. LOWS IN THE MID 20S. WEST WINDS 5 TO 10 MPH.

.THURSDAY...PARTLY SUNNY. HIGHS IN THE LOWER 50S. MINIMUM RH 32 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

.THURSDAY NIGHT...PARTLY CLOUDY. LOWS AROUND 30. WEST WINDS 5 TO 10 MPH.

.FRIDAY...PARTLY SUNNY. HIGHS IN THE UPPER 30S. MINIMUM RH 35 PERCENT. NORTHWEST WINDS 5 TO 10 MPH.

.FRIDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 20S. WEST WINDS AROUND 5 MPH.

.SATURDAY...MOSTLY SUNNY. HIGHS IN THE MID 40S. MINIMUM RH 35 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

.SATURDAY NIGHT...PARTLY CLOUDY. LOWS IN THE UPPER 20S. NORTHWEST WINDS 5 TO 10 MPH.

.SUNDAY...SUNNY. HIGHS AROUND 50. MINIMUM RH 39 PERCENT.

NORTHWEST WINDS AROUND 5 MPH BECOMING SOUTHWEST IN THE AFTERNOON.
 .SUNDAY NIGHT...MOSTLY CLEAR. LOWS IN THE LOWER 30S. SOUTHWEST
 WINDS AROUND 5 MPH.
 .MONDAY...A SLIGHT CHANCE OF RAIN. PARTLY SUNNY. HIGHS IN THE MID
 50S. MINIMUM RH 40 PERCENT. SOUTHWEST WINDS 5 TO 10 MPH.

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2. NATIONAL FIRE DANGER RATING SYSTEM (NFDRS) FORECASTS

Fire danger forecasts will be composed under the MEMFWMMEG identifier and released when a quality NFDRS observation is transmitted to NWS Memphis via WIMS.

a. Stations - NFDRS forecasts will be issued for the stations in Table 2 when the weather equipment is in good repair and when a NFDRS observation is received:

Table 2. NFDRS Forecast Sites

<u>Station Name</u>	<u>Station Number</u>	<u>State</u>	<u>County</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Land Unit</u>
Poinsett	032801	AR	Poinsett	35.53	-90.69	City of Harrisburg, AR
Marianna	034503	AR	Lee	34.76	-90.72	St. Francis Natl. Forest
Winborn	220202	MS	Marshall	34.62	-89.31	Holly Springs Natl. Forest
Tishomingo	220601	MS	Tishomingo	34.79	-88.22	MFC Fire Substation
Yallobusha	222101	MS	Yallobusha	33.99	-89.80	Holly Springs Natl. Forest
Monroe	222401	MS	Monroe	33.87	-88.48	Monroe Co. Airport RAWS
Greenfield	401801	TN	Weakley	36.16	-88.80	Greenfield RAWS
Dyersburg	403801	TN	Dyer	35.99	-89.41	Dyersburg Regional Airport RAWS
Camden	404001	TN	Benton	36.07	-88.17	Camden Fire Tower RAWS
Chickasaw	408001	TN	Chester	35.37	-88.83	Chickasaw State Forest RAWS

b. Issuance - NFDRS forecasts are issued when a WIMS observation is received. For this to happen, a human observation must be taken at a NFDRS site around 1300 LST and the observation needs to be changed from an R (Routine) observation to an O (Observation) observation. Forecasts should be transmitted back to WIMS within an hour if there is no severe weather. During severe weather, the NFDRS forecast should be composed when possible. No issuance time limit will be imposed in this case.

c. Example - Figure 3 contains an example of the forecast and an explanation of the parameters included.

Figure 3. Example NFDRS Site Forecast

A. Example

ZCZC MEMFWMMEG ALL
TTAA00 KMEG DDHHMM

FCST,221502,011014,13,9,75,70,3,3,SSW,08,M,80,69,100,50,3,5,N

B. Parameter definition (Refer to example.)

FCST Identifies this line to be a forecast.
221502 Site number
011014 Valid date of forecast (YYMMDD). This is always tomorrow's date.
13 Valid hour. Always enter "13".
9 Weather code valid 1300 LST tomorrow as follows:
0 Clear
1 Scattered clouds (1/8 to 4/8)
2 Broken clouds (5/8 to 7/8)
3 Cloudy (> 7/8)
4 Fog
5 Drizzle
6 Rain (continuous)
7 Snow or sleet
8 Showers
9 Thunderstorms
75 Dry bulb temperature valid 1300 LST tomorrow.
70 Relative humidity valid 1300 LST tomorrow.
3 Lightning Activity Level (LAL1) 1300 today to 2400 LST tonight. LAL codes are:
1 to 5...with 1 indicating no thunderstorms and 5 indicating numerous thunderstorms.
3 Lightning Activity Level (LAL2) midnight to 1300 LST tomorrow.
SSW Wind direction valid 1300 LST tomorrow.
08 Wind speed (MPH@20 FT) valid 1300 tomorrow.
M Fuel moisture. Fuel moisture is not forecast, so "M" for missing always entered.
80 Maximum temperature 1300 LST today to 1300 LST tomorrow.
69 Minimum temperature 1300 LST today to 1300 LST tomorrow.
100 Maximum humidity 1300 LST today to 1300 LST tomorrow.
50 Minimum humidity 1300 LST today to 1300 LST tomorrow.
3 Precipitation duration (hours) 1300 LST today to 0500 LST tomorrow.
5 Precipitation duration (hours) 0500 LST tomorrow to 1300 LST tomorrow.
N Fuel wetness flag valid 1300 LST tomorrow. Flags are "N" for dry fuel and "Y" for wet fuel. (Has to be raining at 1300 LST tomorrow to be coded wet. A "Y" in combination with a weather code of 5, 6, or 7 will result in zero fire danger.)

d. Dissemination - NFDRS forecasts are to be disseminated via NWS circuits to WIMS. Latest NFDRS forecasts should also be disseminated over the internet at <http://www.srh.noaa.gov/meg> on the Fire Weather page which can be accessed on the left column of the main front page.

3. SPOT WEATHER FORECASTS FOR WILDFIRES AND PRESCRIBED BURNS

a. General Information - Spot forecasts for prescribed burns will be made for federal agencies and their contractors. The NWS should provide spot forecasts to local, state, and federal

agencies, as well as their contractors, when there is a danger to life and property or when there is a wildfire. The NWS product identifier is MEMFWSMEG.

b. Request Procedure - Agencies should request spot forecasts via the internet from <http://www.srh.noaa.gov/meg>. The procedure to follow will be:

1. Access the internet.
2. Select the NWS webpage (<http://www.srh.noaa.gov/meg>).
3. Select the Fire Weather page (left column of front page).
4. Select "SPOT Forecast Request."
5. Select "Submit a new Spot Request."
6. Fill out the spot forecast request form. Foresters should provide a weather observation taken near the site of the spot forecast.
7. Select "Submit Request."
8. Proofread request.
9. Select "Submit Request" again.

c. Contents - Contents of the spot weather forecast should consist of max/min temperature, min/max humidity, as well as forecasts every 1-3 hours of cloud cover, precipitation chance and type, weather coverage, temperature, dewpoint, relative humidity, 20 ft wind direction/speed/gust (mph), mixing height (m and ft) (AGL and MSL), transport wind speed (m/s and mph) and direction, and category day from fire ignition to anticipated extinguish hour of prescribed burns and wildfires. Figure 4 shows an example spot forecast for a prescribed burn.

Figure 4. Spot Forecast for a Prescribed Burn with 10 am Ignition

```

000
FNUS74 KMEG 251105
FWSMEG

SPOT FORECAST FOR CHICKASAW VILLAGE...NATCHEZ TRACE PARKWAY
NATIONAL WEATHER SERVICE MEMPHIS TN
605 AM CDT TUE MAR 25 2013

FORECAST IS BASED ON IGNITION TIME OF 1000 CDT ON MARCH 25.
IF CONDITIONS BECOME UNREPRESENTATIVE...CONTACT THE NATIONAL WEATHER
SERVICE.

.DISCUSSION...

DRY AND WARMER CONDITIONS CAN BE EXPECTED TODAY WITH GUSTY SOUTH
WINDS DEVELOPING. RELATIVE HUMIDITY VALUES WILL FALL THIS AFTERNOON.

.TODAY...

MAX TEMPERATURE.....AROUND 65.
MIN HUMIDITY.....26 PERCENT.

TIME (CDT)      10 AM  NOON   2 PM   4 PM
CLOUD COVER....MCLD   MCLD   PCLDY  PCLDY
PRECIP CHC (%)..0     0     0     0
PRECIP TYPE....NONE   NONE   NONE   NONE
    
```

WEATHER COV.....				
TEMPERATURE.....44	53	61	64	
DEWPOINT.....30	31	29	28	
RH (%).....56	40	34	31	
20FT WIND MPH...S 12	S 13	S 13	S 12	
20FT WIND GUST..16	18	18	16	
MIXHGT M AGL....498	1089	1497	1420	
MIXHGT FT AGL...1635	3575	4912	4662	
MIXHGT M MSL....591	1185	1590	1513	
MIXHGT FT MSL...1940	3888	5218	4967	
TRANS WND M/S...S 6	S 9	S 9	S 9	
TRANS WND MPH...S 13	S 20	S 20	S 20	
CATEGORY DAY....1	2	3	4	

d. Issuance Time - Spot forecasts should be prepared within 30 minutes of receipt of the request during non-severe weather. During severe weather, spot forecasts will be issued when possible.

e. Dissemination - The NWS will post the spot forecast on its webpage. Foresters will find the spot forecast by going to the page titled “Memphis Spot Forecasts” at the website <http://spot.nws.noaa.gov/cgi-bin/spot/spotmon?site=meg>. The forecast can be displayed by clicking on the appropriate fire link after it is listed as completed.

f. Verification - Client agencies are asked to provide weather observations at the fire site.

4. FIRE WEATHER NOTIFICATION MESSAGES

a. General Information – Fire weather notification messages are used to give the public information about burn bans, fire weather alerts, and other high fire danger situations. Foresters can request for a fire weather notification message. The NWS product identifier used is MEMFWNMEG.

b. Release Criteria – Fire weather notification messages should be issued when low humidity (relative humidity values of 30% or less) or high fire danger is expected. They can be requested by clients.

c. Contents – Requesting agencies can specify the information in the text of the fire weather notification message. An example of a fire weather notification message is in Figure 5.

Figure 5. Example of Midsouth Fire Weather Notification Message

```
ZCZC MEMFWNMEG ALL
TTAA00 KMEG DDHHMM
FWNMEG
TNZ001>004-019>021-048>055-088>091-270000-
```

```
FIRE WEATHER NOTIFICATION MESSAGE
NATIONAL WEATHER SERVICE MEMPHIS TN
600 AM CDT THU JUL 26 2013
```

...WEST TENNESSEE BURN BAN...

THE TENNESSEE DIVISION OF FORESTRY HAS ISSUED A BURN BAN FOR

ALL OF WEST TENNESSEE UNTIL FURTHER NOTICE.

DROUGHT CONDITIONS FOR THE PAST MONTH HAVE MADE FORESTS VERY DRY. DANGER OF FOREST FIRES IS HIGH.

ANOTHER FIRE WEATHER STATEMENT WILL BE ISSUED BY 600 AM FRIDAY.

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d. Issuances/Dissemination – NWS forecasters will release the fire weather notification message through regular NWS communication channels which include NOAA Weather Radio, NOAA Weather Wire Service, and the internet.

e. Cancellation - Fire weather notification messages can be cancelled or allowed to expire within 24 hours, whichever comes first. Daily coordination should be made by the requesting agency when a message is in effect. The NWS will issue cancellation messages if necessary.

5. FIRE WEATHER WATCHES AND RED FLAG WARNINGS

a. General Information - The NWS will prepare fire weather watches and red flag warnings when watch or warning criteria are met. Red flag warnings are typically for the first period of the morning forecast and the second period of the afternoon forecast. Fire weather watches are typically for the third period of the morning forecast and the fourth period of the afternoon forecast. The NWS product identifier is MEMRFWMEG.

b. Notification – The NWS should notify user agencies before red flag conditions are expected.

c. Fire Weather Watch/Red Flag Criteria - Criteria for fire weather watches and red flag warnings are determined by agencies in each state. Both watches and warnings use the same criteria. Broadly speaking, red flag warnings cover the first 24 hours and fire weather watches cover 24 to 72 hours. Watch and warning criteria are as follows:

Table 3. Midsouth Fire Weather Watch and Red Flag Warning Criteria

	Wind (20 ft)	Humidity	10 hr Fuel Moisture
Arkansas -	>= 14 mph	<= 25%	<= 10%
Mississippi-	>= 15 mph	<= 25%	<= 10%
Missouri -	>= 20 mph	<= 20%	<= 10%
Tennessee -	>= 18 mph	<= 25%	<= 10%

d. Content - Agencies requesting a watch or warning may tell the NWS forecaster what to include in the messages, counties to be covered, and posting times. Once the forecaster has composed the message, he or she should call the requesting person and read the watch or warning to the requestor. When the requesting agency is satisfied with the contents of the fire weather watch or red flag warning, the forecaster should release the watch or warning on NWS circuits and post it on the NWS Memphis webpage during the appropriate morning or afternoon. Figure 6 is an example fire weather watch, and Figure 7 is an example red flag warning.

Figure 6. Example Fire Weather Watch

WWUS84 KMEG 232015
RFWMEG

FIRE WEATHER WATCH
NATIONAL WEATHER SERVICE MEMPHIS TN
315 PM CDT SUN MAR 23 2013

...FIRE WEATHER WATCH FOR PARTS OF THE MIDSOUTH ON TUESDAY...

.A DEEPENING LOW PRESSURE SYSTEM OVER WEST OKLAHOMA WILL ALLOW FOR GUSTY WINDS AND LOW HUMIDITY ACROSS THE MIDSOUTH ON TUESDAY. THE GUSTY WINDS AND LOW HUMIDITY COMBINED WITH LOW 10 HOUR DEAD FUEL MOISTURE WILL LIKELY ALLOW FOR RED FLAG CONDITIONS.

ARZ035-036-048-049-058-MSZ001-007-008-010>012-020-021-TNZ001>004-019>022-048>055-088>091-241200-
/O.NEW.KMEG.FW.A.0001.080325T1500Z-080326T0000Z/
CROSS-CRITTENDEN-ST. FRANCIS-LEE AR-PHILLIPS-DESOTO-TUNICA-TATE-COAHOMA-QUITMAN-PANOLA-TALLAHATCHIE-YALOBUSHA-LAKE-OBION-WEAKLEY-HENRY-DYER-GIBSON-CARROLL-BENTON TN-LAUDERDALE-TIPTON-HAYWOOD-CROCKETT-MADISON-CHESTER-HENDERSON-DECATUR-SHELBY-FAYETTE-HARDEMAN-MCNAIRY-
315 PM CDT SUN MAR 23 2013

...FIRE WEATHER WATCH IN EFFECT ON TUESDAY...

A FIRE WEATHER WATCH IS IN EFFECT ON TUESDAY...BETWEEN 10 AM AND 7 PM CDT.

RED FLAG CONDITIONS ARE LIKELY ON TUESDAY. 20 FOOT WINDS BETWEEN 15 TO 25 MPH WITH GUSTS UP TO 30 MPH WILL OCCUR. IN ADDITION... RELATIVE HUMIDITIES WILL BE AT OR BELOW 25 PERCENT AND 10 HOUR FUEL MOISTURES WILL BE LESS THAN 10 PERCENT.

A FIRE WEATHER WATCH MEANS THAT CRITICAL FIRE WEATHER CONDITIONS ARE POSSIBLE IN THE NEXT 24 TO 72 HOURS. A COMBINATION OF STRONG WINDS...LOW RELATIVE HUMIDITY...AND WARM TEMPERATURES CAN CONTRIBUTE TO EXTREME FIRE BEHAVIOR.

\$\$

Figure 7. Example Red Flag Warning

WWUS84 KMEG 252015
RFWMEG

RED FLAG WARNING
NATIONAL WEATHER SERVICE MEMPHIS TN
315 PM CDT TUE MAR 25 2013

...RED FLAG WARNING FOR MUCH OF THE MIDSOUTH UNTIL 7 PM CDT...

.A DEEPENING LOW PRESSURE SYSTEM OVER WEST OKLAHOMA WILL CONTINUE TO CAUSE GUSTY WINDS...LOW HUMIDITY...AND RED FLAG CONDITIONS THROUGH 7 PM.

ARZ035-036-048-049-058-MSZ001-007-008-010>012-020-021-TNZ001>004-019>022-048>055-088>091-260000- /O.CON.KMEG.FW.W.0001.000000T0000Z-080326T0000Z/ CROSS-CRITTENDEN-ST. FRANCIS-LEE AR-PHILLIPS-DESOTO-TUNICA-TATE-COAHOMA-QUITMAN-PANOLA-TALLAHATCHIE-YALOBUSHA-LAKE-OBION-WEAKLEY-HENRY-DYER-GIBSON-CARROLL-BENTON TN-LAUDERDALE-TIPTON-HAYWOOD-CROCKETT-MADISON-CHESTER-HENDERSON-DECATUR-SHELBY-FAYETTE-HARDEMAN-MCNAIRY- 315 PM CDT TUE MAR 25 2013

...RED FLAG WARNING REMAINS IN EFFECT UNTIL 7 PM CDT THIS EVENING...

A RED FLAG WARNING REMAINS IN EFFECT UNTIL 7 PM CDT THIS EVENING.

20 FOOT WINDS WILL BE BETWEEN 15 TO 25 MPH WITH GUSTS TO 30 MPH. IN ADDITION...RELATIVE HUMIDITIES WILL REMAIN BETWEEN 20 AND 25 PERCENT AND 10 HOUR FUEL MOISTURES WILL REMAIN BETWEEN 5 AND 7 PERCENT THROUGH 7 PM.

RED FLAG CONDITIONS WILL END BY 7 PM AS WINDS DIMINISH AND HUMIDITY VALUES INCREASE.

A RED FLAG WARNING MEANS THAT CRITICAL FIRE WEATHER CONDITIONS ARE EITHER OCCURRING NOW...OR WILL SHORTLY. A COMBINATION OF STRONG WINDS...LOW RELATIVE HUMIDITY...AND WARM TEMPERATURES CAN CONTRIBUTE TO EXTREME FIRE BEHAVIOR.

\$\$

e. Dissemination - Fire weather watches and red flag warnings should be transmitted on NWS circuits and posted on the NWS Memphis webpage.

f. Cancellation - Fire weather watches and red flag warnings should be cancelled or allowed to expire within 24 hours of issuance, whichever comes first. The NWS should issue cancellation messages after consultation with users.

6. ROUTINE FIRE WEATHER POINT FORECAST MATRICES

Routine Fire Weather Point Forecast Matrices should be issued each morning and afternoon.

a. General features – The NWS product identifier is MEMPFWMEG for both the morning and afternoon forecast.

b. Stations – The fire weather point forecast matrices should be issued for the following sites.

Table 4. Fire Weather Point Forecast Matrices Sites

<u>Station Name</u>	<u>State</u>	<u>County</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Land Unit</u>
Poinsett	AR	Poinsett	35.53	-90.69	City of Harrisburg, AR
Marianna	AR	Lee	34.76	-90.72	St. Francis Natl. Forest
Winborn	MS	Marshall	34.62	-89.31	Holly Springs Natl. Forest
Tishomingo	MS	Tishomingo	34.79	-88.22	MFC Fire Substation

Yalobusha	MS	Yalobusha	33.99	-89.80	Holly Springs Natl. Forest
Monroe	MS	Monroe	33.87	-88.48	Monroe Co. Airport RAWS
Tupelo	MS	Lee	34.33	-88.71	Tupelo RAWS
Highway 41	MS	Pontotoc	34.09	-88.86	Highway 41 RAWS
Camden	TN	Benton	36.07	-88.17	Camden Fire Tower RAWS
Chickasaw	TN	Chester	35.37	-88.83	Chickasaw State Forest RAWS
Dyersburg	TN	Dyer	35.99	-89.41	Dyersburg Regional Airport RAWS
Greenfield	TN	Weakley	36.16	-88.80	Greenfield RAWS

c. Release Time – Fire weather point forecast matrices should be issued twice a day, similar to the fire weather planning forecasts. Morning forecasts are issued by 6 am. Afternoon forecasts are issued by 4 pm. Many times, the afternoon forecast should be ready by 330 pm. Fire weather point forecast matrices should be issued throughout the year. Unscheduled updates will be made when determined necessary by the NWS or foresters.

d. Content Examples (See Figure 8)

1. Header containing product title, originating office, and time/date.

2. Fire Weather Point Forecast Matrices for each of the eleven sites. (Each parameter represents the point forecast for the given site.)

Max/min air temperature (°F)
3-hour temperature (°F)
3-hour dewpoint (°F)
Min/max relative humidity (%)
3-hour relative humidity (%)
20 ft wind direction and speed (mph)
Wind chill (if below 30°F)/Heat index (if above 90°F)
Cloud cover
Chance of precipitation/POP (%)
Precipitation amounts/QPF (in)
Weather type
Any obstruction to visibility
Mixing height (m and ft) (AGL and MSL)
Transport wind direction and speed (m/s and mph)
Ventilation index (m²/s)
Category day
500 meter mixing height temperature (°F)
500 meter transport wind direction and speed (m/s and mph)
Dispersion index
Lightning activity level
Lower atmospheric stability index
Arkansas stability index

Mississippi stagnation index
Any watches, warnings, or advisories in effect at that given time

Parameters are generally given every 3 hours for days 1-3, then every 6 hours for days 4-7. For days 4-7, only max/min air temperature, 6-hourly air temperature, dewpoint, min/max relative humidity, 6-hourly relative humidity, 20 ft wind direction and speed, cloud cover, chance of precipitation, and weather type are given.

e. Dissemination – Fire weather point forecast matrices should be disseminated via the internet, NWS circuits, and the NOAA Weather Wire Service. Forecasts should be posted on the internet within 15 minutes after release. The fire weather point forecast matrices can be obtained at <http://www.srh.noaa.gov/meg> on the Fire Weather page which can be accessed on the left column of the main front page.

f. Updates – The NWS will update the MEMPFWMEG when needed as determined by weather conditions and user requests.

g. Examples - An example of a morning forecast is in Figure 8.

Figure 8. Example of Morning Fire Weather Point Forecast Matrices

```

000
FOUS54 KMEG 181011
PFWMEG

FIRE WEATHER POINT FORECAST MATRICES
NATIONAL WEATHER SERVICE MEMPHIS TN
510 AM CDT THU MAR 18 2013

MSZ002-182200-
WINBORN NFDRS SITE-MARSHALL MS
34.69N 89.30W ELEV. 500 FT
510 AM CDT THU MAR 18 2010

DATE           THU 03/18/10           FRI 03/19/10           SAT 03/20/10
UTC 3HRLY      09 12 15 18 21 00 03 06 09 12 15 18 21 00 03 06 09 12 15 18 21 00
CDT 3HRLY      04 07 10 13 16 19 22 01 04 07 10 13 16 19 22 01 04 07 10 13 16 19

MAX/MIN                68                41                73                50                73
TEMP                   45 54 66 68 61 53 50 43 41 53 69 73 67 60 58 52 50 59 70 72 63
DEWPT                   41 43 40 38 38 39 38 37 37 41 37 37 39 42 43 44 45 45 46 48 48
MIN/MAX RH              33                91                26                80                41
RH                      84 66 39 33 43 58 62 80 88 64 31 27 35 51 58 74 80 61 43 42 58
WIND DIR                N  N  N  NW  NW  W  W  SW  SE  S  SW  S  S  S  S  S  S  S  S  SE  SE
WIND SPD                3  5  5  6  2  0  0  1  0  3  5  6  3  3  3  3  2  8 12 12 10
CLOUDS                 B1 SC SC FW FW FW CL CL CL FW FW SC SC SC SC B1 B1 B1 B1 B2 OV
CLOUDS (%)             59 45 31 22 13  6  0  0  0 11 23 28 34 42 50 54 58 64 69 84100
POP 12HR                0                0                0                0                40
QPF 12HR                0                0                0                0                0.03
RAIN SHWRS              0                0                0                0                SC SC 0
TSTMS                  0                0                0                0                SC SC 0
MIXHGT M AGL           2293 2400 1079    0 1817 1964 1216    0 2369 2466
MIXHGT FT AGL          7522 7875 3540    0 5962 6442 3990    0 7773 8091
MIXHGT M MSL           2415 2523 1198    71 1939 2085 1340    82 2491 2588
MIXHGT FT MSL          7922 8276 3931   233 6362 6842 4396   270 8173 8491
TRANSWIND DIR          N  N  NW  W  SW  SW  SW  S  SW  W
TWIND SPD M/S          6  5  2  1  3  5  3  2  7  7
TWIND SPD MPH          13 12  4  2  6 12  8  5 17 17
VENT INDEX             15138             3500             8340             5640             18116
    
```

CATEGORY DAY		4		2		4		3		5
500M MIXHGT T	57	61	60	59	59	65	64	62	62	58
500M TWND DIR	N	NW	NW	NW	SW	SW	SW	SW	SW	W
500M TWND M/S	6	5	3	2	2	4	6	9	7	7
500M TWND MPH	14	11	8	4	4	10	13	20	17	17
DISPERSION	42	42	2	2	28	40	5	6	58	50
LAL	1	1	1	1	1	1	1	1	3	5
LASI	4	4	4	4	5	4	4	4	4	3
STABILITY	D	B	C	F	E	B	C	F	D	D
STAG INDEX		2		3		3		0		0

DATE	SUN 03/21/10				MON 03/22/10				TUE 03/23/10				WED 03/24/10			
UTC 6HRLY	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
CDT 6HRLY	01	07	13	19	01	07	13	19	01	07	13	19	01	07	13	19
MIN/MAX		37		46		34		57		38		73		49		73
TEMP	49	37	45	43	38	34	54	52	44	38	69	67	57	49	71	68
DEWPT	42	34	31	31	31	31	32	33	34	34	36	40	42	43	46	49
MAX/MIN RH		92		57		89		39		85		27		78		39
RH	77	89	59	64	76	89	43	48	66	85	30	37	56	77	41	51
WIND DIR		SW		SW		W		W		S		S		SE		S
WIND SPD		11		11		8		4		1		7		6		7
AVG CLOUDS	OV	OV	OV	B2	B2	B1	SC	FW	FW	FW	FW	FW	FW	SC	B1	B2
POP 12HR		80		40		20		0		0		0		0		30
FLURRIES						SC										
RAIN SHWRS	O	SC	SC	SC										SC	SC	
SNOWSHWRS				SC												
SPRINKLES					SC											
TSTMS	O													SC	SC	

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MSZ024-182200-
 MONROE NFDRS SITE-MONROE MS
 33.87N 88.48W ELEV. 225 FT
 510 AM CDT THU MAR 18 2010

DATE	THU 03/18/10						FRI 03/19/10						SAT 03/20/10									
UTC 3HRLY	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00
CDT 3HRLY	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19
MAX/MIN						66						39										72
TEMP	45	53	64	66	57	50	46	41	39	51	68	71	64	57	54	50	47	56	70	72	61	61
DEWPT	42	44	42	39	40	39	38	38	37	41	39	37	39	42	44	45	45	46	48	48	48	48
MIN/MAX RH						37						97										42
RH	90	72	44	37	52	68	74	87	95	69	34	29	39	58	69	83	91	68	46	43	62	62
WIND DIR	N	N	N	NW	NW	NW	NW	NW	N	SE	S	S	S	SE	S	S	S	S	S	S	SE	SE
WIND SPD	3	4	6	8	2	0	0	0	1	1	4	4	3	3	3	2	2	6	11	12	11	11
CLOUDS	B2	B1	B1	SC	SC	FW	CL	CL	CL	FW	FW	SC	SC	SC	SC	SC	SC	B1	B1	B1	B2	OV
CLOUDS (%)	80	68	55	43	31	15	0	0	0	10	21	27	34	40	47	49	52	60	68	84	100	100
POP 12HR						0																20
QPF 12HR						0																0
RAIN SHWRS																					IS	IS
TSTMS																					NM	NM
MIXHGT M AGL		2409		2660		12		0	1910		2021		1127		4	2369		2737				
MIXHGT FT AGL		7902		8728		40		0	6265		6629		3696		12	7771		8979				
MIXHGT M MSL		2474		2726		79		52	1975		2087		1192		67	2435		2803				
MIXHGT FT MSL		8118		8945		259		170	6481		6846		3912		221	7988		9196				
TRANSWIND DIR		N		N		NW		NW		SE		SW		S		S		SW		SW		SW
TWIND SPD M/S		5		5		2		1		1		4		3		2		6		7		7
TWIND SPD MPH		11		12		5		3		2		9		6		5		14		16		16
VENT INDEX				13630				644				4174				5151		16818				
CATEGORY DAY				4				1				3				3		5				5
500M MIXHGT T		58		62		63		61		61		65		66		64		62		66		66
500M TWND DIR		N		NW		NW		N		E		S		S		SW		SW		SW		SW
500M TWND M/S		5		6		5		4		1		3		5		6		5		6		6

500M TWND MPH	11	14	12	10	3	6	12	14	12	13
DISPERSION	47	50	2	2	15	29	4	4	55	57
LAL	1	1	1	1	1	1	1	1	1	4
LASI	3	4	4	4	4	4	4	4	4	4
STABILITY	E	C	C	F	E	B	C	F	E	D
STAG INDEX		2		3		3		2		0

DATE	SUN 03/21/10				MON 03/22/10				TUE 03/23/10				WED 03/24/10			
UTC 6HRLY	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
CDT 6HRLY	01	07	13	19	01	07	13	19	01	07	13	19	01	07	13	19
MIN/MAX		37		47		33		58		34		72		48		73
TEMP	47	37	46	42	37	33	56	51	41	34	68	65	55	48	71	66
DEWPT	47	37	32	31	31	32	34	33	34	34	38	39	43	43	45	48
MAX/MIN RH		100		55		93		39		97		29		83		38
RH	100	100	59	64	79	93	43	50	76	97	32	39	64	83	40	51
WIND DIR		SW		W		W		NW		E		SE		SE		SE
WIND SPD		11		10		7		4		1		7		6		6
AVG CLOUDS	OV	OV	OV	B2	B2	B1	SC	FW	FW	FW	FW	FW	FW	SC	B1	B2
POP 12HR		90		40		10		0		0		0		0		20
FLURRIES						SC										
RAIN SHWRS	O	NM	SC	SC										IS	IS	
SNOWSHWRS			SC													
SPRINKLES						SC										
TSTMS	O													IS	IS	

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MSZ006-182200-
 TISHOMINGO NFDRS SITE-TISHOMINGO MS
 34.79N 88.22W ELEV. 300 FT
 510 AM CDT THU MAR 18 2013

DATE	THU 03/18/10						FRI 03/19/10						SAT 03/20/10											
UTC 3HRLY	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00		
CDT 3HRLY	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19		
MAX/MIN					67						37					72					48		72	
TEMP	44	53	63	66	57	47	43	38	37	50	66	71	64	56	53	49	48	57	68	70	61	61		
DEWPT	42	42	40	37	38	38	37	37	37	40	37	36	37	41	42	44	43	45	46	45	44	44		
MIN/MAX RH					34				100						27				83			39		
RH	92	67	43	35	48	70	80	96	99	68	34	28	37	57	66	81	83	63	45	40	55	55		
WIND DIR	N	N	N	NW	NW	NW	N	N	S	SW	SW	S	S	S	S	S	S	S	S	S	SE	SE		
WIND SPD	3	4	5	6	2	0	0	0	1	1	4	5	3	3	3	2	3	6	12	11	10	10		
CLOUDS	B2	B1	SC	FW	FW	FW	CL	CL	CL	FW	FW	SC	SC	SC	SC	SC	B1	B1	B1	B1	B2	OV		
CLOUDS (%)	74	54	34	23	13	7	0	0	0	10	20	27	33	40	47	51	55	62	69	84	100	100		
POP 12HR					0					0					0							20		
QPF 12HR					0				0						0							0		
RAIN SHWRS																				IS	IS	NM		
TSTMS																						NM		
MIXHGT M AGL		2263		2332		1039		0	1704		1852		984		0	2369		2521						
MIXHGT FT AGL		7425		7649		3408		0	5589		6074		3227		0	7771		8272						
MIXHGT M MSL		2437		2506		1191		63	1876		2023		1166		106	2548		2692						
MIXHGT FT MSL		7994		8220		3907		207	6155		6638		3826		347	8359		8831						
TRANSWIND DIR		N		N		NW		NW		SW		SW		S		S		SW		SW				
TWIND SPD M/S		5		5		2		1		1		5		4		2		7		8				
TWIND SPD MPH		12		12		5		2		3		11		9		5		17		18				
VENT INDEX				12530				3490				6069			4830				21536					
CATEGORY DAY				4				2				3			3				5					
500M MIXHGT T		58		61		61		59		59		64		63		63		61		64				
500M TWND DIR		N		NW		N		N		SE		SW		S		SW		SW		SW				
500M TWND M/S		6		5		5		3		1		4		7		9		7		7				
500M TWND MPH		14		12		12		8		3		10		17		20		17		16				
DISPERSION		43		40		2		2		21		31		4		5		66		62				
LAL		1		1		1		1		1		1		1		1		1		4				
LASI		4		4		5		5		5		4		4		4		4		4				

STABILITY D B C F E B C F D D
 STAG INDEX 2 3 3 2 0

DATE	SUN 03/21/10	MON 03/22/10	TUE 03/23/10	WED 03/24/10
UTC 6HRLY	06 12 18 00	06 12 18 00	06 12 18 00	06 12 18 00
CDT 6HRLY	01 07 13 19	01 07 13 19	01 07 13 19	01 07 13 19
MIN/MAX	37 46	33 58	36 71	48 73
TEMP	44 37 44 42	36 33 54 51	41 36 65 64	53 48 69 66
DEWPT	44 36 33 32	32 33 34 34	35 34 36 39	42 43 45 47
MAX/MIN RH	100 59	97 40	92 29	81 37
RH	100 94 63 68	87 97 45 52	80 92 34 41	66 81 42 50
WIND DIR	S SW	W W	S S	S S
WIND SPD	10 10	7 5	1 7	6 7
AVG CLOUDS	OV OV OV B2	B2 B1 SC FW	FW FW FW FW	FW SC B1 B2
POP 12HR	90 40	20 0	0 0	0 20
FLURRIES		SC		
RAIN SHWRS	O NM SC SC			IS IS
SNOWSHWRS	SC			
SPRINKLES		SC		
TSTMS	O			IS IS

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MSZ021-182200-
 YALLABUSHA NFDRS SITE-YALOBUSHA MS
 33.99N 89.80W ELEV. 370 FT
 510 AM CDT THU MAR 18 2013

DATE	THU 03/18/10	FRI 03/19/10	SAT 03/20/10
UTC 3HRLY	09 12 15 18 21 00	03 06 09 12 15 18 21 00	03 06 09 12 15 18 21 00
CDT 3HRLY	04 07 10 13 16 19	22 01 04 07 10 13 16 19	22 01 04 07 10 13 16 19
MAX/MIN	67	40	72
TEMP	46 53 65 67 59 51	51 42 41 52 69 72 66	59 59 52 51 58 70 72 62
DEWPT	44 43 41 39 40 40	39 38 38 42 39 39 40	43 45 46 46 47 48 49 48
MIN/MAX RH	36	99	29
RH	93 69 40 36 48 65	63 87 91 70 33 29 38	55 60 80 84 67 46 44 60
WIND DIR	N N N NW NW NW	W SW SE S S S	S S S S S S S S
WIND SPD	2 4 5 6 2 0	0 0 1 3 5 6 3	3 3 3 3 3 8 12 12 10
CLOUDS	B2 B1 SC SC FW FW	CL CL CL FW FW	SC SC SC SC B1 B1 B1 B2 B2 OV
CLOUDS (%)	74 59 42 31 19 10	0 0 0 12 24 29 34	42 49 54 58 64 71 85 100
POP 12HR	0	0	0
QPF 12HR	0	0	0
RAIN SHWRS			SC SC O
TSTMS			SC SC O
MIXHGT M AGL	2339 2486	813 0	1874 1972 1044 0
MIXHGT FT AGL	7674 8155	2666 0	6147 6471 3425 0
MIXHGT M MSL	2461 2608	927 66	1996 2095 1158 83
MIXHGT FT MSL	8074 8555	3040 215	6547 6872 3799 272
TRANSWIND DIR	N NW	NW SW	S SW S S SW
TWIND SPD M/S	6 5	2 1	3 5 2 2 7 8
TWIND SPD MPH	13 12	5 2	6 12 5 5 17 19
VENT INDEX	15648	2818	8380 5019 20544
CATEGORY DAY	4	2	4 3 5
500M MIXHGT T	58 61	60 60	61 65 65 63 61 60
500M TWND DIR	N NW	NW W	S SW SW SW SW W
500M TWND M/S	6 5	4 2	3 5 6 9 7 9
500M TWND MPH	14 12	10 4	6 11 13 21 17 20
DISPERSION	38 41	2 2	28 40 3 6 59 59
LAL	1 1	1 1	1 1 1 3 5
LASI	3 4	4 4	4 4 4 4 5 3
STABILITY	D B	C F	E B C F D D
STAG INDEX	3	3	3 0 0

DATE	SUN 03/21/10				MON 03/22/10				TUE 03/23/10				WED 03/24/10			
UTC 6HRLY	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
CDT 6HRLY	01	07	13	19	01	07	13	19	01	07	13	19	01	07	13	19
MIN/MAX		37		46		34		56		38		72		51		73
TEMP	51	37	45	43	39	35	54	51	46	40	69	66	60	52	71	68
DEWPT	39	35	31	31	32	31	31	33	35	35	38	40	43	43	47	50
MAX/MIN RH		96		54		89		39		88		29		73		41
RH	63	93	57	62	75	86	41	49	67	85	32	38	53	70	42	54
WIND DIR		SW		W		W		W		S		S		SE		SE
WIND SPD		10		11		8		3		1		7		6		7
AVG CLOUDS	OV	OV	OV	B2	B2	B1	SC	FW	FW	FW	FW	FW	FW	SC	B1	B2
POP 12HR		80		30		10		0		0		0		5		30
RAIN SHWRS		O	SC	SC											SC	SC
SNOWSHWRS				SC												
TSTMS		O													SC	SC

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ARZ027-182200-
 POINSETT NFDRS SITE-POINSETT AR
 35.53N 90.69W ELEV. 335 FT
 510 AM CDT THU MAR 18 2013

DATE	THU 03/18/10				FRI 03/19/10				SAT 03/20/10													
UTC 3HRLY	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00
CDT 3HRLY	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19
MAX/MIN					66			44				72				47				66		
TEMP	45	54	64	66	61	55	51	46	44	56	69	72	66	60	55	50	47	55	64	66	59	
DEWPT	40	39	38	37	37	38	37	37	37	38	36	35	39	41	44	44	46	46	46	46	46	
MIN/MAX RH				34				78				25				95				49		
RH	85	57	39	34	42	52	60	71	78	51	30	25	36	50	65	81	95	71	51	49	63	
WIND DIR	NW	N	NW	W	W	W	SW	SW	S	S	S	S	S	S	S	S	S	S	S	S	S	
WIND SPD	3	4	4	5	2	0	0	2	3	5	9	10	5	5	6	4	5	10	13	12	10	
CLOUDS	FW	FW	FW	FW	CL	CL	CL	CL	CL	FW	FW	SC	SC	SC	SC	B1	B1	B2	B2	OV	OV	
CLOUDS (%)	21	18	15	10	5	2	0	0	0	12	23	29	35	41	46	54	62	71	81	90	100	
POP 12HR				0				0				0				5				70		
QPF 12HR				0				0				0				0				0.11		
RAIN SHWRS																SC	SC	NM	NM	O		
TSTMS																				NM	NM	
MIXHGT M AGL		1989		2144		795		0	1724		2027		0		0		724		661			
MIXHGT FT AGL		6525		7033		2607		0	5656		6648		0		0		2373		2168			
MIXHGT M MSL		2080		2236		881		52	1811		2112		57		58		816		755			
MIXHGT FT MSL		6824		7335		2891		172	5941		6927		188		190		2678		2477			
TRANSWIND DIR		N		NW		SW		SW		SW		SW		S		S		NW		N		
TWIND SPD M/S		4		3		2		2		6		7		4		4		5		10		
TWIND SPD MPH		9		8		5		5		13		17		9		9		11		24		
VENT INDEX				8944				2636				14784				528				6528		
CATEGORY DAY				4				2				4				1				3		
500M MIXHGT T		58		61		60		59		60		65		65		65		53		40		
500M TWND DIR		N		NW		W		SW		SW		S		S		SW		NW		N		
500M TWND M/S		5		4		3		5		6		8		10		13		7		13		
500M TWND MPH		11		9		8		11		13		18		23		31		17		29		
DISPERSION		22		26		3		5		46		55		8		9		41		47		
LAL		1		1		1		1		1		1		1		1		4		5		
LASI		4		4		5		5		5		4		4		4		2		2		
STABILITY		E		B		C		F		E		C		C		E		D		D		
STAG INDEX				3				3				0				0				0		

DATE	SUN 03/21/10				MON 03/22/10				TUE 03/23/10				WED 03/24/10			
UTC 6HRLY	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
CDT 6HRLY	01	07	13	19	01	07	13	19	01	07	13	19	01	07	13	19
MIN/MAX		35		45		33		57		40		71		49		73
TEMP	45	35	44	42	37	33	54	53	45	40	67	66	56	49	70	68

DEWPT	37	30	29	29	30	29	30	31	33	34	36	38	40	42	47	50
MAX/MIN RH		82		53		86		36		80		28		76		42
RH	72	82	56	60	75	86	40	43	62	80	31	36	53	76	44	54
WIND DIR		SW		W		NW		W		S		S		S		S
WIND SPD		10		11		8		4		2		8		6		8
AVG CLOUDS	OV	OV	OV	B2	B2	B1	SC	FW	FW	FW	FW	FW	FW	SC	B1	B2
POP 12HR		80		40		20		0		0		0		5		30
FLURRIES							SC									
RAIN SHWRS	0	SC	SC	SC											SC	SC
SNOWSHWRS		SC	SC													
SPRINKLES						SC										
TSTMS	0														SC	SC

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TNZ022-182200-
 CAMDEN TOWER NFRS SITE-BENTON TN
 36.07N 88.17W ELEV. 512 FT
 510 AM CDT THU MAR 18 2013

DATE	THU 03/18/10							FRI 03/19/10							SAT 03/20/10									
UTC 3HRLY	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00		
CDT 3HRLY	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19		
MAX/MIN						67							40			72						46		71
TEMP	42	47	61	65	57	49	46	42	40	47	65	71	62	56	52	49	47	52	66	70	59			
DEWPT	39	42	39	36	37	38	38	37	36	43	36	39	39	43	43	44	44	45	45	44	43			
MIN/MAX RH					33					97			29			93								37
RH	90	82	43	34	48	65	73	80	86	86	34	31	41	63	70	84	91	76	46	39	55			
WIND DIR	NW	N	N	NW	NW	NW	W	SW	W	S	SW	S	S	S	S	S	S	S	S	S	S	S	S	S
WIND SPD	2	4	5	5	1	0	0	1	1	4	5	6	4	2	3	4	4	9	12	11	10			
CLOUDS	SC	FW	FW	FW	CL	CL	CL	CL	CL	FW	FW	SC	SC	SC	SC	B1	B1	B1	B1	B2	OV			
CLOUDS (%)	28	23	21	9	4	2	0	0	0	11	21	28	34	41	48	52	55	62	69	84	100			
POP 12HR						0				0				0		5								30
QPF 12HR						0				0				0		0								0.01
RAIN SHWRS																						SC	SC	NM
TSTMS																						SC	SC	NM
MIXHGT M AGL			2111		2230		960		0	1534		1731		1031		0	2542				2240			
MIXHGT FT AGL			6927		7316		3151		0	5034		5680		3384		0	8339				7349			
MIXHGT M MSL			2265		2384		1092		59	1688		1888		1172		88	2701				2394			
MIXHGT FT MSL			7432		7821		3582		194	5539		6194		3846		290	8861				7854			
TRANSWIND DIR			N		N		NW		SW		SW		SW		S	S	SW				W			
TWIND SPD M/S			3		4		2		2		4		6		3	3	9				7			
TWIND SPD MPH			8		9		4		4		9		13		6	6	20				17			
VENT INDEX					9536				3196				9440		4998		21608							
CATEGORY DAY					4				2				4		3		5							
500M MIXHGT T			59		62		61		59		59		64		64		62				56			
500M TWND DIR			N		N		NW		W		SW		SW		SW		SW				W			
500M TWND M/S			5		4		4		3		3		5		8		11				8			
500M TWND MPH			12		10		9		8		8		12		18		25				18			
DISPERSION			32		34		2		4		31		38		5		7				56			
LAL			1		1		1		1		1		1		1		1				4			
LASI			6		5		5		5		5		4		4		4				3			
STABILITY			E		B		C		F		E		B		C		E				D			D
STAG INDEX					3				3				3		0		0							

DATE	SUN 03/21/10				MON 03/22/10				TUE 03/23/10				WED 03/24/10			
UTC 6HRLY	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
CDT 6HRLY	01	07	13	19	01	07	13	19	01	07	13	19	01	07	13	19
MIN/MAX		38		45		33		58		37		71		47		73
TEMP	46	38	44	41	36	33	53	50	42	37	64	63	53	48	68	64
DEWPT	46	32	32	32	32	33	35	35	35	35	39	39	40	41	45	46
MAX/MIN RH		100		60		100		42		96		31		81		38
RH	100	77	63	71	84	99	50	56	76	92	39	42	60	77	45	53
WIND DIR		S		SW		W		W		SW		S		S		S

WIND SPD		10	10		6	5		2		7		6		8	
AVG CLOUDS	OV	OV	OV	B2	B2	B1	SC	FW	FW	FW	FW	FW	SC	B1	B2
POP 12HR		90		40		20		0		0		0		20	
FLURRIES					SC										
RAIN SHWRS	O	NM	SC	SC										IS	IS
SNOWSHWRS			SC												
SPRINKLES					SC										
TSTMS	O													IS	IS

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TNZ053-182200-
 CHICKASAW STATE FOREST NFDRS SITE-CHESTER TN
 35.37N 88.83W ELEV. 496 FT
 510 AM CDT THU MAR 18 2013

DATE	THU 03/18/10							FRI 03/19/10							SAT 03/20/10							
UTC 3HRLY	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00
CDT 3HRLY	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19
MAX/MIN						67						38			72				47			72
TEMP	44	51	64	64	56	49	46	41	38	49	69	70	62	56	54	50	47	55	69	69	58	
DEWPT	39	40	38	36	37	38	38	37	37	41	37	35	37	41	42	44	44	45	46	46	46	
MIN/MAX RH					34				100				26			91					39	
RH	85	67	38	35	50	66	74	87	97	73	31	27	40	57	64	80	91	69	43	43	62	
WIND DIR	NW	N	N	NW	NW	W	W	SW	SW	S	SW	S	S	S	S	S	S	S	S	S	SE	
WIND SPD	3	5	5	6	2	0	0	1	0	3	5	6	3	3	3	3	4	8	12	11	9	
CLOUDS	SC	SC	FW	FW	FW	CL	CL	CL	CL	FW	FW	SC	SC	SC	SC	B1	B1	B1	B1	B2	OV	
CLOUDS (%)	39	27	16	11	7	4	0	0	0	11	22	28	34	42	50	54	58	64	69	84	100	
POP 12HR						0				0				0							40	
QPF 12HR						0				0				0							0.02	
RAIN SHWRS																			SC	SC	O	
TSTMS																			SC	SC	O	
MIXHGT M AGL		2199		2337		1018			0	1684		1909		1198		0	2511		2554			
MIXHGT FT AGL		7214		7668		3340			0	5525		6263		3930		0	8237		8380			
MIXHGT M MSL		2334		2472		1141			66	1825		2045		1333		95	2645		2704			
MIXHGT FT MSL		7656		8111		3743			218	5987		6708		4374		310	8677		8870			
TRANSWIND DIR		N		N		NW			W	SW		SW		S		S		SW		W		
TWIND SPD M/S		4		4		2			1	3		5		4		3		8		7		
TWIND SPD MPH		10		10		4			3	8		12		9		6		18		16		
VENT INDEX				12360					3340				8180			7472				18928		
CATEGORY DAY				4					2				4			3				5		
500M MIXHGT T		59		62		61			59		64		64		62		62		57			
500M TWND DIR		N		NW		NW			W	SW		SW		SW		SW		SW		W		
500M TWND M/S		6		5		4			3		3		5		7		11		9		7	
500M TWND MPH		13		11		9			6		6		11		17		25		21		17	
DISPERSION		36		38		2			2		31		36		6		7		68		54	
LAL		1		1		1			1		1		1		1		1		3		5	
LASI		5		4		5			5		5		4		4		5		4		3	
STABILITY		E		B		C			F		E		B		C		E		D		D	
STAG INDEX				3					3				3			2					0	

DATE	SUN 03/21/10				MON 03/22/10				TUE 03/23/10				WED 03/24/10			
UTC 6HRLY	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
CDT 6HRLY	01	07	13	19	01	07	13	19	01	07	13	19	01	07	13	19
MIN/MAX		37		45		34		56		35		72		48		73
TEMP	47	37	44	41	37	34	54	48	41	35	68	62	54	48	71	64
DEWPT	47	33	31	31	31	31	32	33	33	33	36	38	41	42	46	47
MAX/MIN RH		100		58		91		40		94		27		83		38
RH	100	85	60	69	80	91	44	56	75	94	30	41	59	82	41	55
WIND DIR		S		SW		W		W		S		S		S		S
WIND SPD		10		11		8		5		1		7		6		8
AVG CLOUDS	OV	OV	OV	B2	B2	B1	SC	FW	FW	FW	FW	FW	FW	SC	B1	B2
POP 12HR		90		40		20		0		0		0		0		20
FLURRIES						SC										

RAIN SHWRS O SC SC SC IS IS
 SNOWSHWRS SC
 SPRINKLES SC
 TSTMS O IS IS

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TNZ019-182200-
 DYERSBURG RAWS NFDRS SITE-DYER TN
 35.99N 89.41W ELEV. 208 FT
 510 AM CDT THU MAR 18 2013

DATE	THU 03/18/10								FRI 03/19/10								SAT 03/20/10									
UTC 3HRLY	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	
CDT 3HRLY	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	
MAX/MIN	66								43								72									
TEMP	43	50	61	66	58	52	48	46	43	52	66	72	64	57	54	52	49	55	66	70	59	55	66	70	59	
DEWPT	35	40	37	35	36	37	37	37	37	37	37	34	34	37	40	40	43	43	44	46	46	46	46	46	46	
MIN/MAX RH	31								78								25									
RH	75	67	41	31	43	56	66	70	77	57	30	25	36	52	60	72	81	67	49	43	62	81	67	49	43	62
WIND DIR	N	N	N	NW	NW	SW	SW	SW	S	S	SW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SE
WIND SPD	4	5	5	5	0	0	0	2	2	5	6	9	5	4	4	4	5	9	13	11	9	5	9	13	11	9
CLOUDS	FW	FW	FW	FW	CL	CL	CL	CL	CL	FW	FW	SC	SC	SC	SC	B1	B1	B1	B2	B2	OV	B1	B1	B2	B2	OV
CLOUDS (%)	21	16	11	7	4	2	0	0	0	11	22	28	34	40	47	52	58	65	72	86	100	58	65	72	86	100
POP 12HR	0								0								0									
QPF 12HR	0								0								0									
RAIN SHWRS																	SC NM O									
TSTMS																	SC NM O									
MIXHGT M AGL	2129	2258	958	0	1616	1930	0	0	981	886	6985	7409	3144	0	5302	6331	0	0	3219	2906	2219	2348	1049	53	1706	2020
MIXHGT FT AGL	6985	7409	3144	0	5302	6331	0	0	3219	2906	2219	2348	1049	53	1706	2020	54	53	1071	976	7280	7704	3440	174	5597	6626
MIXHGT M MSL	7280	7704	3440	174	5597	6626	177	174	3514	3201	2219	2348	1049	53	1706	2020	54	53	1071	976	7280	7704	3440	174	5597	6626
MIXHGT FT MSL	7280	7704	3440	174	5597	6626	177	174	3514	3201	2219	2348	1049	53	1706	2020	54	53	1071	976	7280	7704	3440	174	5597	6626
TRANSWIND DIR	N	NW	W	SW	SW	SW	S	S	SW	SW	N	NW	W	SW	SW	SW	S	S	SW	NW	N	NW	W	SW	SW	SW
TWIND SPD M/S	5	4	2	2	5	6	3	4	6	10	12	9	5	4	11	13	6	9	14	23	12	9	5	4	11	13
TWIND SPD MPH	12	9	5	4	11	13	6	9	14	23	12	9	5	4	11	13	6	9	14	23	12	9	5	4	11	13
VENT INDEX	11740								3078								12120									
CATEGORY DAY	4								2								4									
500M MIXHGT T	59	62	61	59	59	64	64	64	64	60	43	59	59	64	64	64	64	64	60	43	59	59	64	64	64	64
500M TWND DIR	N	NW	W	W	SW	SW	SW	SW	SW	SW	N	NW	W	W	SW	SW	SW	SW	SW	NW	N	NW	W	W	SW	SW
500M TWND M/S	6	4	3	4	5	6	8	11	7	11	14	9	8	9	11	13	19	25	17	25	6	4	3	4	4	4
500M TWND MPH	14	9	8	9	11	13	19	25	17	25	14	9	8	9	11	13	19	25	17	25	14	9	8	9	11	13
DISPERSION	36	36	2	4	40	48	5	9	37	44	36	36	2	4	40	48	5	9	37	44	36	36	2	4	40	48
LAL	1	1	1	1	1	1	1	1	3	5	1	1	1	1	1	1	1	1	3	5	1	1	1	1	1	1
LASI	5	5	5	5	5	5	4	4	3	2	5	5	5	5	5	4	4	4	3	2	5	5	5	5	5	4
STABILITY	E	B	C	F	E	C	C	E	D	D	E	B	C	F	E	C	C	E	D	D	E	B	C	F	E	C
STAG INDEX	3								3								3									

DATE	SUN 03/21/10				MON 03/22/10				TUE 03/23/10				WED 03/24/10			
UTC 6HRLY	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
CDT 6HRLY	01	07	13	19	01	07	13	19	01	07	13	19	01	07	13	19
MIN/MAX	37				45				33				57			
TEMP	44	37	43	41	36	33	52	51	42	38	65	64	54	49	68	65
DEWPT	44	32	31	30	30	30	31	31	31	32	36	37	40	42	48	48
MAX/MIN RH	98				56				88				37			
RH	98	83	61	65	80	88	44	46	63	77	33	36	58	77	48	54
WIND DIR	S				SW				NW				W			
WIND SPD	10				11				8				5			
AVG CLOUDS	OV	OV	OV	B2	B2	B1	SC	FW	FW	FW	FW	FW	FW	SC	B1	B2
POP 12HR	90				40				20				0			
FLURRIES									SC							
RAIN SHWRS	O	SC	SC	SC									SC SC			
SNOWSHWRS	SC															
SPRINKLES									SC							
TSTMS	O												SC SC			

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ARZ049-182200-
 MARIANNA NFDRS SITE-LEE AR
 34.76N 90.72W ELEV. 253 FT
 510 AM CDT THU MAR 18 2013

DATE	THU 03/18/10								FRI 03/19/10								SAT 03/20/10							
UTC 3HRLY	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00		
CDT 3HRLY	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19		
MAX/MIN	67								45								72							
TEMP	45	54	64	67	62	56	52	47	45	56	68	72	67	61	57	52	50	57	65	68	60			
DEWPT	40	41	39	38	39	38	38	38	39	40	39	38	40	43	44	46	46	46	46	47	47			
MIN/MAX RH	35								79								29							
RH	84	61	40	35	42	51	59	70	78	56	34	29	37	50	62	79	87	67	49	47	61			
WIND DIR	N	N	NW	NW	NW	W	SW	SW	S	S	SW	S	S	S	S	S	S	S	S	SW	SW			
WIND SPD	4	5	4	5	2	0	0	2	2	5	8	9	5	4	5	4	5	10	13	13	11			
CLOUDS	SC	SC	SC	FW	FW	CL	CL	CL	CL	FW	FW	SC	SC	SC	SC	B1	B1	B2	B2	OV	OV			
CLOUDS (%)	41	34	26	19	11	5	0	0	0	12	24	30	36	40	45	54	63	72	80	90	100			
POP 12HR	0								0								0							
QPF 12HR	0								0								0							
RAIN SHWRS																	IS IS NM NM O							
TSTMS																	NM NM O							
MIXHGT M AGL	2140	2305	786						0	1868	2108				0	0	1320	1069						
MIXHGT FT AGL	7021	7563	2579						0	6127	6917				0	0	4331	3508						
MIXHGT M MSL	2218	2383	865						59	1946	2186				48	66	1399	1147						
MIXHGT FT MSL	7277	7819	2838						193	6383	7173				159	218	4589	3764						
TRANSWIND DIR	N	NW	W						S	S	S				S	S	SW	NW						
TWIND SPD M/S	4	4	2						1	5	6				3	4	7	10						
TWIND SPD MPH	10	9	4						3	11	13				6	10	17	23						
VENT INDEX	9532								2626								13116							
CATEGORY DAY	4								2								4							
500M MIXHGT T	58	61	60						60	61	65				65	64	62	45						
500M TWND DIR	N	NW	W						SW	S	S				S	SW	SW	N						
500M TWND M/S	5	4	3						3	5	7				9	11	8	11						
500M TWND MPH	12	9	6						8	11	16				20	26	18	26						
DISPERSION	25	30	2						4	40	54				5	9	56	41						
LAL	1	1	1						1	1	1				1	1	4	5						
LASI	3	4	5						5	5	4				4	4	3	2						
STABILITY	E	B	C						F	E	C				C	E	D	D						
STAG INDEX	3								3								2							

DATE	SUN 03/21/10				MON 03/22/10				TUE 03/23/10				WED 03/24/10			
UTC 6HRLY	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
CDT 6HRLY	01	07	13	19	01	07	13	19	01	07	13	19	01	07	13	19
MIN/MAX	35				45				34				57			
TEMP	46	35	44	42	38	34	54	53	46	41	67	67	58	51	70	69
DEWPT	38	32	30	30	31	30	31	32	35	35	36	40	41	43	48	51
MAX/MIN RH	88				55				87				37			
RH	72	86	58	62	76	87	42	44	64	81	31	36	53	75	45	54
WIND DIR	SW				W				NW				W			
WIND SPD	11				11				7				4			
AVG CLOUDS	OV	OV	OV	B2	B2	B1	SC	FW	FW	FW	FW	FW	FW	SC	B1	B2
POP 12HR	90				40				10				0			
RAIN SHWRS	O				SC				SC				SC			
SNOWSHWRS	SC				SC											
TSTMS	O												SC			

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MSZ016-182200-
 TUPELO RAWs SITE-LEE MS
 34.33N 88.71W ELEV. 270 FT

510 AM CDT THU MAR 18 2013

DATE	THU 03/18/10								FRI 03/19/10								SAT 03/20/10							
UTC 3HRLY	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00		
CDT 3HRLY	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19		
MAX/MIN	68								39								73							
TEMP	46	53	64	68	60	52	48	42	39	49	67	72	66	59	56	51	48	56	68	72	63	63		
DEWPT	42	43	40	38	39	39	38	37	37	41	38	37	38	42	43	44	44	45	47	48	48	48		
MIN/MAX RH	34								97								27							
RH	86	68	42	34	46	61	68	81	94	72	35	27	37	53	62	78	88	68	46	42	59	59		
WIND DIR	N	N	N	N	N	NW	W	NW	N	S	SW	S	S	S	S	S	S	S	S	S	S	SE		
WIND SPD	3	5	5	2	0	0	0	0	0	2	4	5	2	3	2	2	6	11	12	10	10	10		
CLOUDS	B2	B1	SC	SC	FW	FW	CL	CL	CL	FW	FW	SC	SC	SC	SC	B1	B1	B1	B1	B2	OV	OV		
CLOUDS (%)	80	61	40	29	17	9	0	0	0	10	20	28	35	41	48	52	56	62	69	84	100	100		
POP 12HR	0								0								0							
QPF 12HR	0								0								0							
RAIN SHWRS																	SC SC NM							
TSTMS																	SC SC NM							
MIXHGT M AGL	2367	2591					87		0	1858	2023			670			0	2367	2609					
MIXHGT FT AGL	7766	8499					287		0	6097	6637			2197			0	7766	8558					
MIXHGT M MSL	2459	2685					172		56	1950	2118			757			76	2457	2703					
MIXHGT FT MSL	8066	8810					565		185	6398	6949			2482			248	8062	8869					
TRANSWIND DIR	N				N				NW				NW				SW							
TWIND SPD M/S	6				5				2				1				4							
TWIND SPD MPH	13				11				5				3				10							
VENT INDEX	13425								880								6354							
CATEGORY DAY	4								1								3							
500M MIXHGT T	58				62				62				60				65							
500M TWND DIR	N				NW				N				N				SE							
500M TWND M/S	6				5				4				3				1							
500M TWND MPH	14				12				10				6				3							
DISPERSION	43				45				2				2				22							
LAL	1				1				1				1				1							
LASI	4				4				4				4				4							
STABILITY	D				B				C				F				E							
STAG INDEX	2								3								3							

DATE	SUN 03/21/10				MON 03/22/10				TUE 03/23/10				WED 03/24/10			
UTC 6HRLY	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
CDT 6HRLY	01	07	13	19	01	07	13	19	01	07	13	19	01	07	13	19
MIN/MAX	37				46				34				59			
TEMP	48	37	45	43	38	34	55	53	44	37	66	65	56	48	69	67
DEWPT	46	36	32	31	32	32	33	33	34	34	37	39	42	43	45	48
MAX/MIN RH	100				56				92				89			
RH	92	97	61	64	79	92	43	47	69	89	34	38	59	82	43	50
WIND DIR	SW				SW				W				W			
WIND SPD	10				10				7				4			
AVG CLOUDS	OV	OV	OV	B2	B2	B1	SC	FW	FW	FW	FW	FW	FW	SC	B1	B2
POP 12HR	90				40				20				0			
FLURRIES									SC							
RAIN SHWRS	O	NM	SC	SC									IS IS			
SNOWSHWRS									SC							
SPRINKLES									SC							
TSTMS	O												IS IS			

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MSZ015-182200-
 HIGHWAY 41 RAW'S SITE-PONTOTOC MS
 34.09N 88.86W ELEV. 320 FT
 510 AM CDT THU MAR 18 2013

DATE	THU 03/18/10								FRI 03/19/10								SAT 03/20/10							
UTC 3HRLY	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00		

CDT 3HRLY	04	07	10	13	16	19	22	01	04	07	10	13	16	19	22	01	04	07	10	13	16	19
MAX/MIN					67				38				72				48					73
TEMP	45	52	63	66	57	50	46	42	38	49	67	71	64	58	55	52	48	56	69	72	60	
DEWPT	42	43	41	39	39	39	38	37	37	41	39	37	38	42	44	44	45	46	47	48	48	
MIN/MAX RH					36				98				28				89					42
RH	88	71	43	36	51	67	72	82	96	73	36	28	39	56	66	75	89	69	46	43	64	
WIND DIR	N	N	N	NW	NW	NW	W	NW	N	SE	S	S	S	S	S	S	S	S	S	S	S	SE
WIND SPD	2	5	6	6	2	0	0	0	0	1	4	5	2	2	3	2	2	6	12	12	10	
CLOUDS	B2	B1	SC	SC	FW	FW	CL	CL	CL	FW	FW	SC	SC	SC	SC	B1	B1	B1	B1	B2	OV	
CLOUDS (%)	80	64	46	34	21	10	0	0	0	11	21	28	34	41	48	51	54	61	69	84	100	
POP 12HR					0				0				0				0					30
QPF 12HR					0				0				0				0					0
RAIN SHWRS																						SC SC NM
TSTMS																						SC SC NM
MIXHGT M AGL		2385	2594		0	0	1850	1964	1136	0	2313	2616										
MIXHGT FT AGL		7825	8509		0	0	6068	6442	3727	0	7588	8583										
MIXHGT M MSL		2492	2701		73	58	1957	2071	1240	67	2420	2723										
MIXHGT FT MSL		8176	8860		239	189	6419	6793	4067	220	7939	8934										
TRANSWIND DIR		N	NW	NW	NW	NW	SW	SW	S	S	SW	SW										
TWIND SPD M/S		6	5	2	2	1	4	2	2	2	7	6										
TWIND SPD MPH		13	12	5	4	3	10	5	4	16	14											
VENT INDEX			16206		358		6213		3556		19061											
CATEGORY DAY			4		1		3		3		5											
500M MIXHGT T		58	62	62	60	60	65	66	64	62	66											
500M TWND DIR		N	NW	NW	N	SE	S	S	SW	SW	SW											
500M TWND M/S		6	6	5	3	1	4	5	6	6	6											
500M TWND MPH		14	13	11	8	3	9	11	14	14	13											
DISPERSION		48	48	3	2	19	32	3	4	62	57											
LAL		1	1	1	1	1	1	1	1	3	4											
LASI		3	4	4	4	4	4	4	4	4	4											
STABILITY		D	B	C	F	E	B	C	F	E	D											
STAG INDEX			3		3		3		2		0											

DATE	SUN 03/21/10	MON 03/22/10	TUE 03/23/10	WED 03/24/10
UTC 6HRLY	06 12 18 00	06 12 18 00	06 12 18 00	06 12 18 00
CDT 6HRLY	01 07 13 19	01 07 13 19	01 07 13 19	01 07 13 19
MIN/MAX	37 46	34 59	37 72	49 73
TEMP	47 37 45 42 38	34 55 51 43 37	66 64 55 49 69	66 48 46 48
DEWPT	44 36 32 31 31	31 32 33 34 34	37 39 42 43 46	48 38 38
MAX/MIN RH	100 55 88	37 88	29 80	80 53
RH	90 98 60 65 78	88 42 49 71	88 34 40 60	80 43 53
WIND DIR	SW SW W W S S SE SE			
WIND SPD	10 10 7 4 1 7 6 7			
AVG CLOUDS	OV OV OV B2 B2 B1 SC FW FW FW FW FW FW SC B1 B2			
POP 12HR	90 40 10 0 0 0 0 0 0 0 0 0 0 20			
FLURRIES		SC		
RAIN SHWRS	O NM SC SC			IS IS
SNOWSHWRS		SC		
SPRINKLES		SC		
TSTMS	O			IS IS

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BELOW IS A WEATHER ELEMENT KEY FOR THIS PRODUCT

DAY 1 THROUGH 3...

MAX/MIN TEMP OR MIN/MAX TEMP (F)....MAXIMUM/MINIMUM AIR TEMPERATURE
 TEMP (F).....AIR TEMPERATURE
 DEWPT (F).....DEW POINT TEMPERATURE
 MIN/MAX RH OR MAX/MIN RH (%).....MAXIMUM/MINIMUM HUMIDITY
 RH (%).....RELATIVE HUMIDITY
 WIND DIR (8 POINT COMPASS).....20 FT. WIND DIRECTION
 WIND SPD (MPH).....20 FT. WIND SPEED

MEASURES FIRE GROWTH POTENTIAL
 EXAMPLE: 1-3 = VERY LOW; 4 = LOW; 5 = MODERATE; 6 = HIGH
 STABILITY.....STABILITY CLASS
 EXAMPLE: A = VERY UNSTABLE; B = MODERATELY UNSTABLE; C = SLIGHTLY UNSTABLE
 D = NEUTRAL; E = SLIGHTLY STABLE; F = MODERATELY STABLE
 G = VERY STABLE
 STAG INDEX.....STAGNATION INDEX
 EXAMPLE: 0 = WINDS >= 10 MPH; 1 = WINDS <= 10 MPH WITH RAIN
 2 = DRY WITH DECENT WINDS
 3 = DRY WITH LIGHT WINDS AND STAGNATE CONDITIONS
 WATCH/WARNING/ADVISORY...
 EXAMPLE: W = WARNING; Y = ADVISORY; A = WATCH
 IN EFFECT FOR THE INDICATED HOUR
 DAY 4 THROUGH 7...
 MAX/MIN TEMP OR MIN/MAX TEMP (F)....MAXIMUM/MINIMUM AIR TEMPERATURE
 TEMP (F).....AIR TEMPERATURE
 DEWPT (F).....DEW POINT TEMPERATURE
 RH (%).....RELATIVE HUMIDITY
 WIND DIR (8 POINT COMPASS).....20 FT. WIND DIRECTION
 WIND SPD (MPH).....20 FT. WIND SPEED
 AVG CLOUDS (CAT).....AVERAGE CLOUD COVER CATEGORY
 POP 12HR (%).....PROBABILITY FOR ACCUMULATING PRECIPITATION
 WEATHER...
 SEE DAY 1 THROUGH 3 WEATHER DESCRIPTIONS

B. SPECIAL METEOROLOGICAL SERVICES

1. ON-SITE SERVICES (Incident Meteorologist (IMET) and Atmospheric Theodolite Meteorological Unit (ATMU))

The NWS will provide IMET and ATMU “on-site” support to federal land management agencies for wildfires and prescribed burns upon request. All expenses are borne by the requesting agency. IMET and ATMU requests are made through the US Forest Service Region 8 dispatch office in Atlanta, GA.

2. OTHER SERVICES

NWS forecasters may be available for weather station visits and weather station site selection coordination.

C. TRAINING SERVICES

NWS meteorologists may be available to teach S290, S390, NFDRS, etc to land management agency employees. Requests are to be made in writing to:

Meteorologist-In-Charge
 National Weather Service Forecast Office
 7777 Walnut Grove Road, Suite 1
 Memphis, TN 38120

NWS meteorologists are also available for weather observer training and course development work.

Cooperating land management agencies will teach fire behavior and fuels to NWS forecasters.

D. COMMUNICATION SERVICES

The NWS will communicate fire weather information to cooperators. Channels include NOAA Weather Radio, NOAA Weather Wire Service, telephone, fax, and the internet. The channel chosen will depend on the product being issued. Some WIMS messages will be transmitted only through NWS circuits.

1. NOAA WEATHER RADIO (NWR)

There are several NWR stations in the Midsouth. They will be used to broadcast fire weather notification messages, fire weather watches, and red flag warnings. Information about each NWR station is on the NWS Memphis webpage at <http://www.srh.noaa.gov/meg>.

2. NOAA WEATHER WIRE SERVICE (NWWS)

NWWS is a dedicated NWS communication circuit that disseminates weather information directly to radio and television broadcasters or anyone else that subscribes to the circuit. Fire weather forecasts, fire weather notification messages, fire weather watches, red flag warnings, NFDRS forecasts, and fire weather point forecast matrices are disseminated on this circuit.

3. NATIONAL WEATHER SERVICE MEMPHIS WEBPAGE

<http://www.srh.noaa.gov/meg>

The NWS will maintain a fire weather webpage for the Midsouth. The page will be the primary transmission method used to communicate fire weather information to cooperating agencies. This page will contain Midsouth fire weather products including fire weather planning forecasts, NFDRS forecasts, spot weather forecasts, fire weather watches, red flag warnings, fire weather notification messages, and fire weather point forecast matrices. This webpage should also contain other types of weather information useful for fighting forest fires. Useful links to the following will be included:

1. 8 to 14 day weather outlooks
2. 30 day weather outlooks
3. 90 day weather outlooks
4. Haines index
5. RAWS observations
6. Latest Midsouth Fire Weather Plan

V. SIGNATURES

This document will be electronically signed by responding affirmatively to the e-mail in which you received it. Upon receipt the NWS Fire Weather Focal point will date this document.

 Jim Walden Jim Walden Date _____
U.S. Forest Service – Mississippi

B. U.S. National Park Service

 Shawn Nagle Shawn Nagle Date _____
Natchez Trace Parkway, Tupelo, MS

 Jerry Soard Jerry Soard Date _____
Ozark-St Francis National Forest

C. States

 Don McBride Don McBride Date _____
Arkansas Forestry Commission, Little Rock, AR

 Dennis Dauterive Dennis Dauterive Date _____
Mississippi Forestry Commission, Jackson, MS

 Joe Garvey Joe Garvey Date _____
Missouri Department of Conservation, Sullivan, MO

 John Kirksey John Kirksey Date _____
Tennessee Division of Forestry, Nashville, TN

D. Department of Commerce

 Jim Belles Jim Belles Date _____
National Weather Service, Memphis, TN

APPENDIX A. OPERATIONAL CONTACTS AND PHONE NUMBERS

AREA/FOREST/PARK PERSON/OFFICE PHONE NUMBER

U.S. Forest Service

St. Francis Natl. Forest Arkansas-Oklahoma (501) 321-5232

Marianna, AR	Interagency Coordination Center (7 am to 6 pm)	
Holly Springs Natl. Forest Potts Camp, MS	Jim Walden	(O)(662) 333-6391 (C)(662) 231-9910
	Carl Kilcrease	(O)(662) 333-6312
Tombigbee Natl. Forest (North Unit)		(O) (662) 285-3264 Ext 10

U.S. National Park Service

Natchez Trace Parkway (North Mississippi Portion) Tupelo, MS	Scott Johnson	(662) 680-4052
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Arkansas Forestry Commission (AFC)

Northeast/East-Central Arkansas, Malvern, AR	AFC Dispatch Office	(O) (501) 332-8194
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Mississippi Forestry Commission (MFC)

Northeast Mississippi Tupelo, MS	MFC Central Dispatch (7 am to 11 pm) Primary Pearl Dispatch (After hours)	(800) 681-8760 (601) 420-6021
Northwest Mississippi Elliott, MS	MFC Dispatch Office (7 am to 10 pm) Primary Pearl Dispatch (After hours)	(877) 226-5414 (601) 420-6021

Missouri Department of Conservation (MDC)

Missouri Bootheel Cape Girardeau, MO	MDC Joe Garvey	(573) 290-5730 Ext 245
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Tennessee Division of Forestry (TDF)

West Tennessee Lexington, TN	TDF Philip Blakley	(O) (731) 968-6676 ext 109 (C) (731) 695-1918
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National Weather Service

Memphis, TN	John Sirmon	(O) (901) 544-0401
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Jim Belles

APPENDIX B. ADMINISTRATIVE CONTACTS AND CONTACT INFORMATION

A. United States Forest Service - Arkansas

1. Andy Dyer, Fire Management Officer
 - a. Address
United States Forest Service
100 Reserve St.
Hot Springs, Arkansas 71902
 - b. Phone – (O) (501) 321-5217
(C) (501) 574-8757
 - c. Email – adyer@fs.fed.us

2. Dispatch Office
 - a. Address -
Oklahoma Interagency Coordination Center
110 Indiana Street
Hot Springs, AR 71901
 - b. Contact -
 1. Scot Swendsen, Coordination Center Manager
Phone - (501) 321-5231
Phone - (501) 321-5232
Fax - (501) 627-0633
Email - sswendsen@fs.fed.us
 - c. Webpage – <http://www.fs.fed.us/r8/ouachita/fire>

3. Ozark-St. Francis National Forest
 - a. Address -
St. Francis National Forest
2675 Highway 44
Marianna, AR 72360
 - b. Contacts -
 1. Mary Maercklein, St. Francis National Forest District Ranger
Phone - (870) 295-5278
Fax - (870) 295-3382
Email – mmaercklein@fs.fed.us
 2. (position vacant), St. Francis National Forest FMO
P. O. Box 1270
Mountain View, AR 72560
Phone - (870) 269-3228x3241
Fax – (870) 269-3000
Email -
 3. Brian Sullivan, St. Francis National Forest

- P. O. Box 1270
Mountain View, AR 72560
Phone - (870) 269-3228
Fax – (870) 269-3000
Email - bksullivan@fs.fed.us
c. Webpage – <http://www.fs.fed.us/oonf/ozark/stfrancis/stfrancis.html>

B. United States Forest Service – Mississippi

1. State Office
 - a. Address –
USDA Forest Service
100 Capitol Street, Suite 1141
Jackson, MS 39269
 - b. Contact –
 1. Mr. Antoine L. Dixon, Forest Supervisor
Phone - (601) 965-4391 Ext. 181
Fax – (601) 965-5519
2. Holly Springs National Forest
 - a. Address –
Holly Springs National Forest
6764 Church Street
Potts Camp, MS 38659
 - b. Contacts –
 1. John Townsend, Holly Springs/Tombigbee NFs ZFMO
Phone - (662) 236-6550 Ext. 228
Email – jtownsend@fs.fed.us
 2. Jim Walden, Holly Springs NF DAFMO
Phone - (662) 333-6391
Cell – (662) 231-9910
Email - jwalden@fs.fed.us
 3. Carl Kilcrease – Holly Springs NF Dispatcher
Phone – (662) 333-6391
Fax - (662) 333-4142
Email - ckilcrease@fs.fed.us
 - c. Webpage – <http://www.fs.fed.us/r8/miss>
3. North Unit Tombigbee National Forest
 - a. Address -
Tombigbee National Forest
Highway 15 South
Route 1, PO Box Box 912
Ackerman, MS 39735
 - b. Contact –

1. Tyler VanOrmer, District FMO
Phone - (662) 285-3264 Ext. 26
Fax - (662) 285-3608
Email – tvannormer@fs.fed.us
Webpage – <http://www.fs.fed.us/r8/miss>
2. John Townsend
Phone - (662) 236-6550 Ext. 228
Email – jtownsend@fs.fed.us,
Webpage – <http://www.fs.fed.us/r8/miss>

C. Arkansas Forestry Commission

1. State Office
 - a. Address -
Arkansas Forestry Commission
3821 West Roosevelt Road
Little Rock, AR 72204-6396
 - b. Contacts -
 1. Don McBride, Assistant State Forester and Fire Chief
(Mainly administrative)
Phone - (501) 296-1870
Fax - (501) 296-1949
Email - don.mcbride@arkansas.gov
 2. Scott Reed
(Fire Weather Contact)
Phone – (O) (501) 332-2000
(C) (501) 802-0822
Email - scott.reed@arkansas.gov
 - c. Webpage – <http://www.forestry.state.ar.us/protect/protect.html>
(Fire information)
2. State Dispatch Office
 - a. Address -
Sulphur Spring Dispatch Center
Arkansas Forestry Commission
198 Airport Road
Malvern, AR 72104
 - b. Contact -
 1. Sherry Russell, Dispatch Supervisor
(Call this number first for operational problems.)
Phone - (O) (501) 332-8194
(O) (501) 332-2000
(O) (800) 468-8834

Fax - (501) 332-4447

Email – sherry.russell@arkansas.gov

- c. Webpage – <http://www.forestry.state.ar.us>
(Recent fires, losses, etc by district)

D. Mississippi Forestry Commission

1. State Office

- a. Address -
Mississippi Forestry Commission
3139 Hwy 468 West
Pearl, MS 39208
- b. Contact –
 - 1. Dennis Dauterive (Fire Chief)
Phone - (601) 420-6001
Fax - (601) 420-6003
Cell – (662) 417-7495
Email - ddauterive@mfc.state.ms.us
- c. Webpage – <http://www.mfc.state.ms.us>
(Fire status and other information)

2. Northwest District Office

- a. Address -
Mississippi Forestry Commission
P.O. Box 668
Elliott, MS 38926
- b. Contact –
 - 1. Mark Williams
Phone – (662) 226-3321
Fax – (662) 226-0170
Email - jmwilliams@mfc.state.ms.us.

3. Northeast District Office

- a. Address -
Mississippi Forestry Commission
P. O. Box 703
1711 McCullough Blvd.
Tupelo, MS 38802
- b. Contacts -
 - 1. Brindex Glasgow, District Forester (Administrative)
Email - bglasgow@mfc.state.ms.us
 - 2. Stacy Lewis, Area Forester (Fire Protection)
Phone - (662) 842-5312
Fax - (662) 680-9999
Email - slewis@mfc.state.ms.us

3. Central Dispatch (7 am to 11 pm)
Toll Free - (800) 681-8760
Fax - (662) 840-0947
Email - nedo_cd@mfc.state.ms.us

E. Missouri Department of Conservation

1. State Office
 - a. Address -
Missouri Department of Conservation
Box 248
Sullivan, MO 63080-0248
 - b. Contact -
Contact -
Webster, Ben, Fire Program Staff Supervisor
Phone - (573) 522-4115 Ext 3113
Fax - (573) 526-6670
Email – Ben.Webster@mdc.mo.gov
 - c. Webpage – <http://www.mdc.mo.gov>
2. District Office
 - a. Address -
Missouri Department of Conservation
2302 County Park Drive
Cape Girardeau, MO 63701
 - b. Contact - Joe Garvey, Regional Forester
Phone - (573) 290-5730 Ext. 245
Fax - (573) 290-5736
Email – joe.garvey@mdc.mo.gov

F. National Park Service (NPS) Natchez Trace Parkway

1. Dispatch Office
 - a. Address-
Natchez Trace Parkway
2680 Natchez Trace Parkway
Tupelo, MS 38804
 - b. Contact -
 1. Cameron H. Sholly (superintendent)
Phone - (662) 840-7572
Fax - (662) 680-4040
Email – cameron_sholly@nps.gov
 2. Shawn Nagle (Fire Management Officer)
Phone – (662) 680-4028
Email – shawn_nagle@nps.gov

3. Scott Johnson
Phone - (662) 680-4052
Email - scott_johnson@nps.gov
- c. Webpage – <http://www.nps.gov/natt>
(General information about Natchez Trace Parkway)

G. Tennessee Division of Forestry Offices/Contacts

1. State Office
 - a. Address -
Tennessee Department of Agriculture
Division of Forestry
440 Hogan Road
Nashville, TN 37204
 - b. Contact -
John Kirksey, Fire Chief
(Mainly administrative)
Phone - (615) 837-5425
Cell – (615) 351-4771
Fax - (615) 837-5129
Email - john.kirksey@tn.gov
 - c. Webpage – www.state.tn.us/agriculture/forestry
(Daily fire summary)
2. West Tennessee District Office
 - a. Address -
Tennessee Division of Forestry
P.O. Box 438
Lexington, TN 38351
 - b. Contact -
 1. Phil Blakley, Assistant District Forester
(Mainly operational)
Phone - (731) 968-6676 ext 109
Cell – (731) 695-1918
Fax - (731) 968-5356
Email - Philip.Blakley@tn.gov

H. National Weather Service Office/Contacts

1. Memphis, Tennessee
 - a. Address –
National Weather Service Forecast Office
7777 Walnut Grove Road, Suite 1
Memphis, TN 38120
 - b. Contacts -

1. John Sirmon, Fire Weather Program Leader
 2. Jim Belles, Meteorologist-in-Charge
 3. Fire Weather Forecasters, Various meteorologists
Phone - (Administration) - (901) 544-0405
(Operations) - (901) 544-0401
Fax - (901) 544-0414
Email addresses – John.Sirmon@noaa.gov
Jim.Belles@noaa.gov
- c. Webpage – <http://www.srh.noaa.gov/meg> or weather.gov/memphis

APPENDIX C. NATIONAL AGREEMENT

The national agreement between government agencies concerning fire weather services can be found at:

<http://www.srh.noaa.gov/images/mrx/firewx/TNAOP2014.pdf>