

# **MIDSOUTH FIRE WEATHER ANNUAL OPERATING PLAN**

## **2009**

### **I. INTRODUCTION**

The National Weather Service 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 National Weather Service (NWS) will compose standard products including fire weather planning forecasts, fire weather watches, red flag warnings, 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 will provide the NWS weather observations suitable for forecasting and verification purposes as needed. 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. Mississippi Forestry Commission (MFC)
- B. Arkansas Forestry Commission (AFC)
- C. Tennessee Division of Forestry (TDF)
- D. Missouri Department of Conservation (MDC)
- E. National Park Service - Natchez Trace Parkway
- F. USDA Forest Service - St. Francis National Forest, Holly Springs 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 portions 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	Lee
Lawrence	Mississippi	Phillips	Poinsett	Randolph	St. Francis

Missouri Counties

Dunklin      Pemiscot

Tennessee Counties

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

Mississippi Counties

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

**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. Northeast Arkansas and Missouri Bootheel
2. East-Central Arkansas and St. Francis National Forest
3. Northern West Tennessee
4. Southern West Tennessee
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). 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/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  $\leq 30\%$  and watch/warning conditions are not met. Fire Weather Watches and Red Flag Warnings are defined in Section IV.A.5. Separate products are issued for watches/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**  
**Precipitation type**  
**Chance of precipitation**

**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)**  
**Average precipitation amounts (inches)**  
**Precipitation duration (hr)**  
**Beginning of precipitation (hr)**  
**Ending of precipitation (hr)**  
**Mixing height (m and ft) (AGL and MSL)**  
**Transport wind direction and speed (m/s and mph)**  
**Ventilation index (m<sup>2</sup>/s)**  
**Category day**  
**500 meter mixing height temperature (°F)**  
**500 meter transport wind direction and speed (m/s and mph)**  
**Dispersion index**  
**Lower atmospheric stability index**  
**Arkansas stability index**  
**Mississippi stagnation index**  
  
**Remarks (if necessary)**

**Extended forecast containing cloud cover, maximum and minimum air temperature, minimum relative humidity, chance and type of precipitation, wind speed, and wind direction through day 7.**

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>. A backup website to be used to get the fire weather planning forecast is <http://fire.boi.noaa.gov/FIREWX/MEMFWFMEG.html>

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 071202  
FWFMEG

FIRE WEATHER PLANNING FORECAST FOR THE MIDSOUTH  
NATIONAL WEATHER SERVICE MEMPHIS TN  
602 AM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN MOST OF THE MIDSOUTH FRIDAY AND SATURDAY  
ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

.DISCUSSION...

A DRY COLD FRONT WILL CROSS THE MIDSOUTH TODAY ON ITS WAY TO THE GULF COAST. TOMORROW AND SATURDAY...HUMIDITY WILL DROP INTO THE TEENS AND 20S AND HEIGHTEN FIRE DANGER.

TEMPERATURES AND HUMIDITY LEVELS WILL MODIFY TO MORE TYPICAL LEVELS OVER THE WEEKEND AND LOWER FIRE DANGER POTENTIAL. RAIN WILL KEEP FIRE DANGER LOW MONDAY THROUGH NEXT WEDNESDAY.

ARZ008-009-017-018-026>028-MOZ113-115-080315-CLAY-CRAIGHEAD-DUNKLIN-GREENE-LAWRENCE-MISSISSIPPI-PEMISCOT-POINSETT-RANDOLPH-INCLUDING...MISSOURI BOOTHEEL...NORTHEAST ARKANSAS  
602 AM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN NORTHEAST ARKANSAS AND THE MISSOURI BOOTHEEL FRIDAY ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TODAY	TONIGHT	FRI
CLOUD COVER	PCLDY	CLEAR	MCLEAR
PRECIP TYPE	FLURRIES	NONE	NONE
PRECIP CHANCE (%)	10	0	0
TEMP (24H TREND)	34 (-21)	16 (-17)	35
RH % (24H TREND)	45 (+6)	66 (-13)	29
AM 20 FT WIND (MPH)	N 11-15 G21		LGT/VAR
PM 20 FT WIND (MPH)	N 12-16 G22	N 7-11	LGT/VAR
PRECIP AMOUNT (IN)	0.00	0.00	0.00
PRECIP DUR (HRS)			
PRECIP BEGINS			
PRECIP ENDS			
MIXING HGT (M-AGL)	1141		671
MIXING HGT (FT-AGL)	3742		2202
MIXING HGT (M-MSL)	1227		757
MIXING HGT (FT-MSL)	4025		2485
TRANSPORT WND (M/S)	N 15		NE 6
TRANSPORT WND (MPH)	N 35		NE 14
VENT INDEX (M2/S)	17115		4026
CATEGORY DAY	5		3
500M MIX HGT TEMP (F)	35		22
500M TSPT WIND (M/S)	N 14		SW 3
500M TSPT WIND (MPH)	N 30		SW 7
DISPERSION INDEX	100	42	38
LASI	4	4	4
STABILITY	D	E	D
STAGNATION INDEX	0	3	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

. SATURDAY...MOSTLY CLEAR. LOWS 15 TO 20. HIGHS IN THE UPPER 40S. MINIMUM RH 31 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.SUNDAY...A SLIGHT CHANCE OF RAIN SHOWERS. PARTLY CLOUDY. LOWS AROUND 30. HIGHS AROUND 50. MINIMUM RH 59 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF SHOWERS...THEN A SLIGHT CHANCE OF LIGHT RAIN. MOSTLY CLOUDY. LOWS AROUND 40. HIGHS IN THE MID 50S. MINIMUM RH 65 PERCENT. SOUTHEAST WINDS 5 TO 10 MPH.

.TUESDAY...A CHANCE OF RAIN...THEN A CHANCE OF SHOWERS AND THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS IN THE MID 50S. MINIMUM RH 72 PERCENT. SOUTHEAST WINDS 5 TO 10 MPH BECOMING SOUTH IN THE AFTERNOON.

.WEDNESDAY...A CHANCE OF THUNDERSTORMS. A CHANCE OF RAIN SHOWERS. MOSTLY CLOUDY. LOWS IN THE UPPER 30S. HIGHS IN THE LOWER 50S. MINIMUM RH 66 PERCENT. WEST WINDS AROUND 5 MPH.

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ARZ035-036-048-049-058-080315-  
 CRITTENDEN-CROSS-LEE(AR)-PHILLIPS-ST. FRANCIS-  
 INCLUDING...EAST-CENTRAL ARKANSAS...ST. FRANCIS NATIONAL FOREST  
 602 AM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN EAST-CENTRAL ARKANSAS FRIDAY AND SATURDAY ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TODAY	TONIGHT	FRI
CLOUD COVER	PCLDY	CLEAR	MCLEAR
PRECIP TYPE	NONE	NONE	NONE
PRECIP CHANCE (%)	0	0	0
TEMP (24H TREND)	39 (-17)	20 (-12)	39
RH % (24H TREND)	44 (+4)	63 (-20)	26
AM 20 FT WIND (MPH)	NW 9-13 G22		LGT/VAR
PM 20 FT WIND (MPH)	N 12-16 G23	N 7-11	LGT/VAR
PRECIP AMOUNT (IN)	0.00	0.00	0.00
PRECIP DUR (HRS)			
PRECIP BEGINS			
PRECIP ENDS			
MIXING HGT (M-AGL)	1141		671
MIXING HGT (FT-AGL)	3742		2202
MIXING HGT (M-MSL)	1227		757
MIXING HGT (FT-MSL)	4025		2486
TRANSPORT WND (M/S)	N 11		NE 7
TRANSPORT WND (MPH)	N 25		NE 16
VENT INDEX (M2/S)	12551		4697
CATEGORY DAY	4		3
500M MIX HGT TEMP (F)	43		23
500M TSPT WIND (M/S)	N 13		E 3
500M TSPT WIND (MPH)	N 29		E 7
DISPERSION INDEX	98	42	38
LASI	4	4	4
STABILITY	D	E	D
STAGNATION INDEX	0	3	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SATURDAY...MOSTLY CLEAR. LOWS IN THE LOWER 20S. HIGHS IN THE LOWER 50S. MINIMUM RH 30 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.SUNDAY...A SLIGHT CHANCE OF RAIN SHOWERS. PARTLY CLOUDY. LOWS IN THE LOWER 30S. HIGHS IN THE MID 50S. MINIMUM RH 52 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF SHOWERS...THEN A SLIGHT CHANCE OF LIGHT RAIN. MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS IN THE UPPER 50S. MINIMUM RH 60 PERCENT. SOUTHEAST WINDS AROUND 10 MPH.

.TUESDAY...A CHANCE OF RAIN...THEN A CHANCE OF SHOWERS AND THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN THE

UPPER 50S. MINIMUM RH 68 PERCENT. SOUTHEAST WINDS 5 TO 10 MPH  
 BECOMING SOUTH IN THE AFTERNOON.  
 .WEDNESDAY...A CHANCE OF THUNDERSTORMS. A CHANCE OF SHOWERS.  
 MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS IN THE MID 50S.  
 MINIMUM RH 61 PERCENT. WEST WINDS AROUND 5 MPH.

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TNZ001>004-019>022-051-080315-  
 BENTON (TN)-CARROLL-CROCKETT-DYER-GIBSON-HENRY-LAKE-OBION-WEAKLEY-  
 INCLUDING...NORTHERN WEST TENNESSEE  
 602 AM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN NORTHERN WEST TENNESSEE FRIDAY AND  
 SATURDAY ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TODAY	TONIGHT	FRI
CLOUD COVER	PCLDY	CLEAR	MCLEAR
PRECIP TYPE	FLURRIES	NONE	NONE
PRECIP CHANCE (%)	10	0	0
TEMP (24H TREND)	33 (-21)	14 (-16)	34
RH % (24H TREND)	45 (+8)	70 (-17)	30
AM 20 FT WIND (MPH)	NW 9-13 G21		LGT/VAR
PM 20 FT WIND (MPH)	N 12-16 G22	N 7-11	LGT/VAR
PRECIP AMOUNT (IN)	0.00	0.00	0.00
PRECIP DUR (HRS)			
PRECIP BEGINS			
PRECIP ENDS			
MIXING HGT (M-AGL)	1141		671
MIXING HGT (FT-AGL)	3742		2202
MIXING HGT (M-MSL)	1227		757
MIXING HGT (FT-MSL)	4025		2486
TRANSPORT WND (M/S)	NW 12		N 8
TRANSPORT WND (MPH)	NW 28		N 17
VENT INDEX (M2/S)	13692		5368
CATEGORY DAY	4		3
500M MIX HGT TEMP (F)	35		20
500M TSPT WIND (M/S)	N 13		NW 3
500M TSPT WIND (MPH)	N 29		NW 7
DISPERSION INDEX	98	42	38
LASI	4	4	4
STABILITY	D	E	D
STAGNATION INDEX	0	3	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SATURDAY...MOSTLY CLEAR. LOWS 10 TO 15. HIGHS IN THE MID 40S.  
 MINIMUM RH 32 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.SUNDAY...A SLIGHT CHANCE OF RAIN SHOWERS. PARTLY CLOUDY. LOWS IN  
 THE UPPER 20S. HIGHS IN THE UPPER 40S. MINIMUM RH 58 PERCENT.  
 SOUTH WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF RAIN SHOWERS...THEN A SLIGHT CHANCE  
 OF LIGHT RAIN. MOSTLY CLOUDY. LOWS IN THE UPPER 30S. HIGHS IN THE  
 MID 50S. MINIMUM RH 64 PERCENT. SOUTHEAST WINDS AROUND 10 MPH.

.TUESDAY...A CHANCE OF RAIN...THEN A CHANCE OF SHOWERS AND  
 THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS IN THE  
 MID 50S. MINIMUM RH 70 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.WEDNESDAY...A CHANCE OF THUNDERSTORMS. A CHANCE OF SHOWERS.

MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS IN THE LOWER 50S.  
 MINIMUM RH 68 PERCENT. WEST WINDS AROUND 5 MPH.

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TNZ048>050-052>055-088>091-080315-  
 CHESTER-DECATUR-FAYETTE-HARDEMAN-HAYWOOD-HENDERSON-LAUDERDALE-  
 MADISON-MCNAIRY-SHELBY-TIPTON-  
 INCLUDING...SOUTHERN WEST TENNESSEE  
 602 AM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN SOUTHERN WEST TENNESSEE FRIDAY ACCORDING  
 TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TODAY	TONIGHT	FRI
CLOUD COVER	PCLDY	CLEAR	MCLEAR
PRECIP TYPE	FLURRIES	NONE	NONE
PRECIP CHANCE (%)	10	0	0
TEMP (24H TREND)	37 (-19)	16 (-13)	36
RH % (24H TREND)	45 (+12)	68 (-20)	28
AM 20 FT WIND (MPH)	NW 8-12 G22		LGT/VAR
PM 20 FT WIND (MPH)	N 12-16 G22	N 7-11	LGT/VAR
PRECIP AMOUNT (IN)	0.00	0.00	0.00
PRECIP DUR (HRS)			
PRECIP BEGINS			
PRECIP ENDS			
MIXING HGT (M-AGL)	1141		671
MIXING HGT (FT-AGL)	3742		2202
MIXING HGT (M-MSL)	1227		757
MIXING HGT (FT-MSL)	4025		2486
TRANSPORT WND (M/S)	NW 11		N 8
TRANSPORT WND (MPH)	NW 24		N 17
VENT INDEX (M2/S)	12551		5368
CATEGORY DAY	4		4
500M MIX HGT TEMP (F)	39		20
500M TSPT WIND (M/S)	N 12		N 3
500M TSPT WIND (MPH)	N 27		N 6
DISPERSION INDEX	98	42	38
LASI	4	4	4
STABILITY	D	E	D
STAGNATION INDEX	0	3	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SATURDAY...MOSTLY CLEAR. LOWS 15 TO 20. HIGHS IN THE UPPER 40S.  
 MINIMUM RH 31 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.SUNDAY...A SLIGHT CHANCE OF RAIN SHOWERS. PARTLY CLOUDY. LOWS  
 AROUND 30. HIGHS IN THE LOWER 50S. MINIMUM RH 55 PERCENT. SOUTH  
 WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF RAIN SHOWERS...THEN A SLIGHT CHANCE  
 OF LIGHT RAIN. MOSTLY CLOUDY. LOWS AROUND 40. HIGHS IN THE MID  
 50S. MINIMUM RH 64 PERCENT. SOUTHEAST WINDS 5 TO 10 MPH.

.TUESDAY...A CHANCE OF RAIN...THEN A CHANCE OF SHOWERS AND  
 THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS IN THE  
 UPPER 50S. MINIMUM RH 68 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.WEDNESDAY...A CHANCE OF THUNDERSTORMS. A CHANCE OF SHOWERS.  
 MOSTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN THE MID 50S. MINIMUM  
 RH 64 PERCENT. NORTHWEST WINDS AROUND 5 MPH.

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MSZ001-007-008-010>012-020-021-080315-  
 COAHOMA-DESOTO-PANOLA-QUITMAN-TALLAHATCHIE-TATE-TUNICA-YALOBUSHA-  
 INCLUDING...NORTHWEST MISSISSIPPI...SOUTH  
 UNIT HOLLY SPRINGS NATIONAL FOREST  
 602 AM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN NORTHWEST MISSISSIPPI FRIDAY AND SATURDAY  
 ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TODAY	TONIGHT	FRI
CLOUD COVER	PCLDY	CLEAR	MCLEAR
PRECIP TYPE	NONE	NONE	NONE
PRECIP CHANCE (%)	0	0	0
TEMP (24H TREND)	42 (-12)	21 (-11)	40
RH % (24H TREND)	45 (+5)	64 (-29)	25
AM 20 FT WIND (MPH)	N 7-11 G21		NE 3-7
PM 20 FT WIND (MPH)	N 12-16 G23	N 7-11	LGT/VAR
PRECIP AMOUNT (IN)	0.00	0.00	0.00
PRECIP DUR (HRS)			
PRECIP BEGINS			
PRECIP ENDS			
MIXING HGT (M-AGL)	1141		671
MIXING HGT (FT-AGL)	3742		2202
MIXING HGT (M-MSL)	1227		757
MIXING HGT (FT-MSL)	4025		2486
TRANSPORT WND (M/S)	N 12		NE 9
TRANSPORT WND (MPH)	N 26		NE 21
VENT INDEX (M2/S)	13692		6039
CATEGORY DAY	4		3
500M MIX HGT TEMP (F)	43		23
500M TSPT WIND (M/S)	N 13		NE 4
500M TSPT WIND (MPH)	N 28		NE 9
DISPERSION INDEX	98	42	38
LASI	4	4	4
STABILITY	D	E	D
STAGNATION INDEX	0	2	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SATURDAY...MOSTLY CLEAR. LOWS IN THE LOWER 20S. HIGHS IN THE  
 LOWER 50S. MINIMUM RH 29 PERCENT. SOUTH WINDS AROUND 5 MPH.

.SUNDAY...A SLIGHT CHANCE OF RAIN SHOWERS. PARTLY CLOUDY. LOWS IN  
 THE LOWER 30S. HIGHS IN THE MID 50S. MINIMUM RH 50 PERCENT.  
 SOUTHEAST WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF SHOWERS...THEN A SLIGHT CHANCE OF  
 LIGHT RAIN. MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS AROUND  
 60. MINIMUM RH 57 PERCENT. SOUTHEAST WINDS 5 TO 10 MPH.

.TUESDAY...A CHANCE OF RAIN...THEN A CHANCE OF SHOWERS AND  
 THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN THE  
 UPPER 50S. MINIMUM RH 64 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.WEDNESDAY...A CHANCE OF THUNDERSTORMS. A CHANCE OF SHOWERS.  
 MOSTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN THE UPPER 50S.  
 MINIMUM RH 60 PERCENT. NORTHWEST WINDS AROUND 5 MPH.

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MSZ002>006-009-013>017-022>024-080315-  
 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  
 602 AM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN NORTHEAST MISSISSIPPI FRIDAY AND SATURDAY  
 ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TODAY	TONIGHT	FRI
CLOUD COVER	PCLDY	CLEAR	MCLEAR
PRECIP TYPE	NONE	NONE	NONE
PRECIP CHANCE (%)	0	0	0
TEMP (24H TREND)	42 (-10)	19 (-11)	39
RH % (24H TREND)	45 (+10)	67 (-24)	24
AM 20 FT WIND (MPH)	N 7-11 G20		N 4-8
PM 20 FT WIND (MPH)	N 12-16 G22	N 7-11	LGT/VAR
PRECIP AMOUNT (IN)	0.00	0.00	0.00
PRECIP DUR (HRS)			
PRECIP BEGINS			
PRECIP ENDS			
MIXING HGT (M-AGL)	1141		671
MIXING HGT (FT-AGL)	3742		2202
MIXING HGT (M-MSL)	1227		757
MIXING HGT (FT-MSL)	4025		2486
TRANSPORT WND (M/S)	N 13		N 9
TRANSPORT WND (MPH)	N 30		N 21
VENT INDEX (M2/S)	14833		6039
CATEGORY DAY	4		3
500M MIX HGT TEMP (F)	40		21
500M TSPT WIND (M/S)	N 12		N 4
500M TSPT WIND (MPH)	N 26		N 9
DISPERSION INDEX	98	42	38
LASI	4	4	4
STABILITY	E	E	D
STAGNATION INDEX	1	2	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SATURDAY...MOSTLY CLEAR. LOWS 15 TO 20. HIGHS IN THE LOWER 50S.  
 MINIMUM RH 30 PERCENT. SOUTH WINDS AROUND 5 MPH.

.SUNDAY...A SLIGHT CHANCE OF RAIN SHOWERS. PARTLY CLOUDY. LOWS  
 AROUND 30. HIGHS IN THE MID 50S. MINIMUM RH 52 PERCENT. SOUTHEAST  
 WINDS 5 TO 10 MPH.

.MONDAY...A SLIGHT CHANCE OF RAIN SHOWERS...THEN A SLIGHT CHANCE  
 OF LIGHT RAIN. MOSTLY CLOUDY. LOWS AROUND 40. HIGHS IN THE UPPER  
 50S. MINIMUM RH 59 PERCENT. SOUTHEAST WINDS 5 TO 10 MPH.

.TUESDAY...A CHANCE OF RAIN...THEN A CHANCE OF SHOWERS AND  
 THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS AROUND  
 60. MINIMUM RH 65 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.WEDNESDAY...A CHANCE OF THUNDERSTORMS. A CHANCE OF SHOWERS.  
 MOSTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN THE UPPER 50S.  
 MINIMUM RH 61 PERCENT. NORTHWEST WINDS AROUND 5 MPH.

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Figure 2. Example of Afternoon Fire Weather Planning Forecast.

FNUS54 KMEG 072056  
FWFMEG

FIRE WEATHER PLANNING FORECAST FOR THE MIDSOUTH  
NATIONAL WEATHER SERVICE MEMPHIS TN  
256 PM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN MOST OF THE MIDSOUTH FRIDAY AND SATURDAY  
ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

.DISCUSSION...

ARCTIC HIGH PRESSURE WILL MOVE OVER THE MID SOUTH TONIGHT AND FRIDAY.  
HIGH PRESSURE WILL THEN SHIFT EAST TO THE SOUTHEAST U.S. COAST ON  
SATURDAY. VERY COLD TEMPERATURES WILL SETTLE OVER THE REGION THROUGH  
FRIDAY NIGHT WITH A SLOW WARMING TREND THIS WEEKEND.

AFTERNOON RELATIVE HUMIDITIES WILL GET DOWN TO 18 TO 20 PERCENT IN  
DRY PLACES FRIDAY AND SATURDAY.

ARZ008-009-017-018-026>028-MOZ113-115-081200-  
CLAY-CRAIGHEAD-DUNKLIN-GREENE-LAWRENCE-MISSISSIPPI-PEMISCOT-  
POINSETT-RANDOLPH-  
INCLUDING...MISSOURI BOOTHEEL...NORTHEAST ARKANSAS  
256 PM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN THE MISSOURI BOOTHEEL AND NORTHEAST  
ARKANSAS FRIDAY ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS  
TENNESSEE...

	TONIGHT	FRI	FRI NIGHT	SAT
CLOUD COVER	CLEAR	MCLEAR	CLEAR	MCLEAR
PRECIP TYPE	NONE	NONE	NONE	NONE
PRECIP CHANCE (%)	0	0	0	0
TEMP (24H TREND)	15 (-16)	35 (+1)	19	46
RH % (24H TREND)	66 (-9)	26 (-8)	80	31
AM 20 FT WIND (MPH)		LGT/VAR		S 4-8
PM 20 FT WIND (MPH)	N 4-8	LGT/VAR	LGT/VAR	S 7-11
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
MIXING HGT (M-AGL)		771		533
MIXING HGT (FT-AGL)		2531		1749
MIXING HGT (M-MSL)		857		619
MIXING HGT (FT-MSL)		2817		2035
TRANSPORT WND (M/S)		SW 3		SW 9
TRANSPORT WND (MPH)		SW 6		SW 20
VENT INDEX (M2/S)		2313		4797
CATEGORY DAY		2		3
500M MIX HGT TEMP (F)		29		44
500M TSPT WIND (M/S)		SE 3		SW 9
500M TSPT WIND (MPH)		SE 7		SW 21
DISPERSION INDEX	36	35	15	62
LASI	4	4	3	3
STABILITY	F	B	F	C
STAGNATION INDEX	3	3	3	2

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SUNDAY...PARTLY CLOUDY. LOWS IN THE UPPER 20S. HIGHS IN THE LOWER 50S. MINIMUM RH 44 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.MONDAY...A CHANCE OF RAIN SHOWERS. MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS IN THE MID 50S. MINIMUM RH 73 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.TUESDAY...SHOWERS LIKELY. THUNDERSTORMS LIKELY. MOSTLY CLOUDY. LOWS IN THE UPPER 40S. HIGHS IN THE MID 50S. MINIMUM RH 74 PERCENT. SOUTHEAST WINDS AROUND 10 MPH INCREASING TO 15 TO 20 MPH IN THE AFTERNOON.

.WEDNESDAY...SHOWERS AND THUNDERSTORMS LIKELY...THEN A SLIGHT CHANCE OF SHOWERS. PARTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN THE UPPER 50S. MINIMUM RH 63 PERCENT. WEST WINDS 5 TO 10 MPH.

.THURSDAY...PARTLY CLOUDY. LOWS IN THE UPPER 30S. HIGHS IN THE UPPER 40S. MINIMUM RH 57 PERCENT. WEST WINDS 10 TO 15 MPH.

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ARZ035-036-048-049-058-081200-  
CRITTENDEN-CROSS-LEE (AR)-PHILLIPS-ST. FRANCIS-  
INCLUDING...EAST-CENTRAL ARKANSAS...ST. FRANCIS NATIONAL FOREST  
256 PM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN EAST-CENTRAL ARKANSAS FRIDAY AND SATURDAY ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TONIGHT	FRI	FRI NIGHT	SAT
CLOUD COVER	CLEAR	MCLEAR	CLEAR	MCLEAR
PRECIP TYPE	NONE	NONE	NONE	NONE
PRECIP CHANCE (%)	0	0	0	0
TEMP (24H TREND)	20 (-12)	39 (+2)	22	50
RH % (24H TREND)	59 (-24)	20 (-13)	72	24
AM 20 FT WIND (MPH)		LGT/VAR		S 3-7
PM 20 FT WIND (MPH)	N 5-9	LGT/VAR	LGT/VAR	S 5-9
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
MIXING HGT (M-AGL)		762		580
MIXING HGT (FT-AGL)		2501		1904
MIXING HGT (M-MSL)		846		664
MIXING HGT (FT-MSL)		2885		2288
TRANSPORT WND (M/S)		N 1		SW 7
TRANSPORT WND (MPH)		N 2		SW 15
VENT INDEX (M2/S)		762		4060
CATEGORY DAY		1		3
500M MIX HGT TEMP (F)		30		44
500M TSPT WIND (M/S)		NE 3		SW 7
500M TSPT WIND (MPH)		NE 6		SW 15
DISPERSION INDEX	36	35	15	62
LASI	4	4	4	3
STABILITY	F	B	F	C
STAGNATION INDEX	2	3	3	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SUNDAY...PARTLY CLOUDY. LOWS IN THE LOWER 30S. HIGHS IN THE MID 50S. MINIMUM RH 40 PERCENT. SOUTH WINDS 5 TO 10 MPH.

.MONDAY...A CHANCE OF SHOWERS. MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS IN THE UPPER 50S. MINIMUM RH 63 PERCENT. SOUTH WINDS AROUND 10 MPH.

.TUESDAY...SHOWERS LIKELY...THEN A CHANCE OF SHOWERS AND THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE UPPER 40S. HIGHS AROUND 60. MINIMUM RH 70 PERCENT. SOUTH WINDS 10 TO 20 MPH.

.WEDNESDAY...SHOWERS AND THUNDERSTORMS LIKELY...THEN A SLIGHT CHANCE OF SHOWERS. PARTLY CLOUDY. LOWS IN THE UPPER 40S. HIGHS IN THE UPPER 50S. MINIMUM RH 60 PERCENT. WEST WINDS 5 TO 10 MPH.

.THURSDAY...PARTLY CLOUDY. LOWS IN THE UPPER 30S. HIGHS IN THE LOWER 50S. MINIMUM RH 54 PERCENT. WEST WINDS 10 TO 15 MPH.

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TNZ001>004-019>022-051-081200-  
 BENTON(TN)-CARROLL-CROCKETT-DYER-GIBSON-HENRY-LAKE-OBION-WEAKLEY-  
 INCLUDING...NORTHERN WEST TENNESSEE  
 256 PM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN NORTHERN WEST TENNESSEE FRIDAY AND SATURDAY ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TONIGHT	FRI	FRI NIGHT	SAT
CLOUD COVER	CLEAR	MCLEAR	CLEAR	MCLEAR
PRECIP TYPE	NONE	NONE	NONE	NONE
PRECIP CHANCE (%)	0	0	0	0
TEMP (24H TREND)	12 (-18)	33 (0)	13	43
RH % (24H TREND)	79 (-6)	29 (-11)	92	27
AM 20 FT WIND (MPH)		LGT/VAR		S 3-7
PM 20 FT WIND (MPH)	N 5-9	LGT/VAR	LGT/VAR	S 5-9
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
MIXING HGT (M-AGL)		797		686
MIXING HGT (FT-AGL)		2616		2251
MIXING HGT (M-MSL)		880		769
MIXING HGT (FT-MSL)		2916		2551
TRANSPORT WND (M/S)		SW 1		SW 7
TRANSPORT WND (MPH)		SW 2		SW 16
VENT INDEX (M2/S)		797		4802
CATEGORY DAY		1		3
500M MIX HGT TEMP (F)		27		41
500M TSPT WIND (M/S)		SW 3		SW 8
500M TSPT WIND (MPH)		SW 7		SW 18
DISPERSION INDEX	36	35	15	62
LASI	4	4	4	3
STABILITY	F	B	F	C
STAGNATION INDEX	3	3	3	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SUNDAY...PARTLY CLOUDY. LOWS IN THE LOWER 20S. HIGHS IN THE MID

50S. MINIMUM RH 35 PERCENT. SOUTH WINDS 5 TO 10 MPH.  
 .MONDAY...A CHANCE OF RAIN SHOWERS. PARTLY CLOUDY. LOWS IN THE UPPER 30S. HIGHS IN THE MID 50S. MINIMUM RH 63 PERCENT. SOUTH WINDS AROUND 10 MPH.  
 .TUESDAY...A CHANCE OF SHOWERS. A CHANCE OF THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN THE MID 50S. MINIMUM RH 76 PERCENT. SOUTHEAST WINDS 10 TO 15 MPH.  
 .WEDNESDAY...SHOWERS AND THUNDERSTORMS LIKELY...THEN A CHANCE OF SHOWERS. PARTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN THE UPPER 50S. MINIMUM RH 60 PERCENT. WEST WINDS 10 TO 15 MPH.  
 .THURSDAY...PARTLY CLOUDY. LOWS IN THE MID 30S. HIGHS IN THE UPPER 40S. MINIMUM RH 60 PERCENT. WEST WINDS 10 TO 15 MPH.

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TNZ048>050-052>055-088>091-081200-  
 CHESTER-DECATUR-FAYETTE-HARDEMAN-HAYWOOD-HENDERSON-LAUDERDALE-  
 MADISON-MCNAIRY-SHELBY-TIPTON-  
 INCLUDING...SOUTHERN WEST TENNESSEE  
 256 PM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN SOUTHERN WEST TENNESSEE FRIDAY AND SATURDAY ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TONIGHT	FRI	FRI NIGHT	SAT
CLOUD COVER	CLEAR	MCLEAR	CLEAR	MCLEAR
PRECIP TYPE	NONE	NONE	NONE	NONE
PRECIP CHANCE (%)	0	0	0	0
TEMP (24H TREND)	15 (-14)	35 (-1)	17	46
RH % (24H TREND)	69 (-19)	24 (-15)	81	24
AM 20 FT WIND (MPH)		LGT/VAR		S 2-6
PM 20 FT WIND (MPH)	N 5-9	LGT/VAR	LGT/VAR	S 4-8
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
MIXING HGT (M-AGL)		783		690
MIXING HGT (FT-AGL)		2570		2263
MIXING HGT (M-MSL)		846		774
MIXING HGT (FT-MSL)		2885		2547
TRANSPORT WND (M/S)		NW 1		SW 6
TRANSPORT WND (MPH)		NW 1		SW 13
VENT INDEX (M2/S)		783		4140
CATEGORY DAY		1		3
500M MIX HGT TEMP (F)		28		42
500M TSPT WIND (M/S)		NE 3		SW 7
500M TSPT WIND (MPH)		NE 6		SW 15
DISPERSION INDEX	36	35	15	62
LASI	4	4	4	3
STABILITY	F	B	F	C
STAGNATION INDEX	3	3	3	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SUNDAY...PARTLY CLOUDY. LOWS IN THE MID 20S. HIGHS IN THE MID 50S. MINIMUM RH 35 PERCENT. SOUTH WINDS 5 TO 10 MPH.  
 .MONDAY...A CHANCE OF RAIN SHOWERS. PARTLY CLOUDY. LOWS IN THE

LOWER 40S. HIGHS IN THE UPPER 50S. MINIMUM RH 56 PERCENT. SOUTH WINDS 5 TO 10 MPH.  
 .TUESDAY...A CHANCE OF SHOWERS. A CHANCE OF THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE UPPER 40S. HIGHS IN THE UPPER 50S. MINIMUM RH 69 PERCENT. SOUTHEAST WINDS 10 TO 20 MPH.  
 .WEDNESDAY...SHOWERS AND THUNDERSTORMS LIKELY...THEN A SLIGHT CHANCE OF SHOWERS. PARTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN THE UPPER 50S. MINIMUM RH 57 PERCENT. WEST WINDS 10 TO 15 MPH.  
 .THURSDAY...PARTLY CLOUDY. LOWS IN THE UPPER 30S. HIGHS IN THE UPPER 40S. MINIMUM RH 53 PERCENT. WEST WINDS 10 TO 15 MPH.

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MSZ001-007-008-010>012-020-021-081200-  
 COAHOMA-DESOTO-PANOLA-QUITMAN-TALLAHATCHIE-TATE-TUNICA-YALOBUSHA-  
 INCLUDING...NORTHWEST MISSISSIPPI...SOUTH UNIT HOLLY SPRINGS  
 NATIONAL FOREST  
 256 PM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN NORTHWESTERN MISSISSIPPI FRIDAY AND SATURDAY ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TONIGHT	FRI	FRI NIGHT	SAT
CLOUD COVER	CLEAR	MCLEAR	CLEAR	MCLEAR
PRECIP TYPE	NONE	NONE	NONE	NONE
PRECIP CHANCE (%)	0	0	0	0
TEMP (24H TREND)	21 (-10)	40 (-2)	22	51
RH % (24H TREND)	57 (-36)	18 (-17)	65	20
AM 20 FT WIND (MPH)		LGT/VAR		S 2-6
PM 20 FT WIND (MPH)	N 6-10	LGT/VAR	LGT/VAR	S 3-7
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
MIXING HGT (M-AGL)		768		655
MIXING HGT (FT-AGL)		2519		2148
MIXING HGT (M-MSL)		846		774
MIXING HGT (FT-MSL)		2885		2547
TRANSPORT WND (M/S)		NE 2		S 5
TRANSPORT WND (MPH)		NE 3		S 10
VENT INDEX (M2/S)		1536		3275
CATEGORY DAY		1		2
500M MIX HGT TEMP (F)		31		44
500M TSPT WIND (M/S)		NE 4		S 5
500M TSPT WIND (MPH)		NE 9		S 10
DISPERSION INDEX	36	35	15	62
LASI	4	4	4	4
STABILITY	F	B	F	C
STAGNATION INDEX	2	3	3	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SUNDAY...PARTLY CLOUDY. LOWS IN THE LOWER 30S. HIGHS IN THE UPPER 50S. MINIMUM RH 37 PERCENT. SOUTHEAST WINDS 5 TO 10 MPH.  
 .MONDAY...A CHANCE OF SHOWERS. MOSTLY CLOUDY. LOWS IN THE LOWER 40S. HIGHS IN THE LOWER 60S. MINIMUM RH 55 PERCENT. SOUTHEAST WINDS 5 TO 10 MPH.  
 .TUESDAY...A CHANCE OF SHOWERS. A CHANCE OF THUNDERSTORMS. MOSTLY

CLOUDY. LOWS IN THE UPPER 40S. HIGHS IN THE LOWER 60S. MINIMUM RH 66 PERCENT. SOUTHEAST WINDS 10 TO 15 MPH.  
 .WEDNESDAY...SHOWERS AND THUNDERSTORMS LIKELY...THEN A SLIGHT CHANCE OF SHOWERS. PARTLY CLOUDY. LOWS IN THE UPPER 40S. HIGHS AROUND 60. MINIMUM RH 56 PERCENT. WEST WINDS 5 TO 10 MPH.  
 .THURSDAY...PARTLY CLOUDY. LOWS IN THE UPPER 30S. HIGHS IN THE LOWER 50S. MINIMUM RH 50 PERCENT. WEST WINDS 10 TO 15 MPH.

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MSZ002>006-009-013>017-022>024-081200-  
 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  
 256 PM CST THU DEC 7 2006

...LOW HUMIDITY IS EXPECTED IN NORTHEASTERN MISSISSIPPI FRIDAY AND SATURDAY ACCORDING TO THE NATIONAL WEATHER SERVICE AT MEMPHIS TENNESSEE...

	TONIGHT	FRI	FRI NIGHT	SAT
CLOUD COVER	CLEAR	MCLEAR	CLEAR	MCLEAR
PRECIP TYPE	NONE	NONE	NONE	NONE
PRECIP CHANCE (%)	0	0	0	0
TEMP (24H TREND)	19 (-9)	39 (-4)	19	50
RH % (24H TREND)	62 (-32)	19 (-17)	74	20
AM 20 FT WIND (MPH)		NE 2-6		LGT/VAR
PM 20 FT WIND (MPH)	N 7-11	LGT/VAR	LGT/VAR	S 2-6
PRECIP AMOUNT (IN)	0.00	0.00	0.00	0.00
PRECIP DUR (HRS)				
PRECIP BEGINS				
PRECIP ENDS				
MIXING HGT (M-AGL)		783		719
MIXING HGT (FT-AGL)		2568		2359
MIXING HGT (M-MSL)		846		803
MIXING HGT (FT-MSL)		2885		2647
TRANSPORT WND (M/S)		NE 3		S 3
TRANSPORT WND (MPH)		NE 6		S 7
VENT INDEX (M2/S)		2349		2157
CATEGORY DAY		2		2
500M MIX HGT TEMP (F)		30		43
500M TSPT WIND (M/S)		NE 4		S 4
500M TSPT WIND (MPH)		NE 9		S 9
DISPERSION INDEX	36	35	15	62
LASI	4	4	4	4
STABILITY	F	B	F	B
STAGNATION INDEX	2	3	3	3

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.SUNDAY...PARTLY CLOUDY. LOWS IN THE MID 20S. HIGHS IN THE UPPER 50S. MINIMUM RH 34 PERCENT. SOUTH WINDS 5 TO 10 MPH.  
 .MONDAY...A CHANCE OF RAIN SHOWERS. PARTLY CLOUDY. LOWS IN THE UPPER 30S. HIGHS IN THE UPPER 50S. MINIMUM RH 53 PERCENT. SOUTHEAST WINDS 5 TO 10 MPH.  
 .TUESDAY...A CHANCE OF SHOWERS. A CHANCE OF THUNDERSTORMS. MOSTLY CLOUDY. LOWS IN THE MID 40S. HIGHS AROUND 60. MINIMUM RH

67 PERCENT. SOUTHEAST WINDS 10 TO 15 MPH.  
 .WEDNESDAY...SHOWERS AND THUNDERSTORMS LIKELY...THEN A SLIGHT  
 CHANCE OF SHOWERS. PARTLY CLOUDY. LOWS IN THE MID 40S. HIGHS IN  
 THE LOWER 60S. MINIMUM RH 54 PERCENT. WEST WINDS 5 TO 10 MPH.  
 .THURSDAY...PARTLY CLOUDY. LOWS IN THE UPPER 30S. HIGHS IN THE  
 LOWER 50S. MINIMUM RH 48 PERCENT. WEST WINDS 5 TO 10 MPH.

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**2. NATIONAL FIRE DANGER RATING SYSTEM 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
Yalobusha	222101	MS	Yalobusha	33.99	-89.80	Holly Springs Natl. Forest
Monroe	222401	MS	Monroe	33.87	-88.48	Monroe Co. Airport RAWS
Dyersburg	403801	TN	Dyer	35.99	-89.41	Dyersburg Regional Airport
Camden	404001	TN	Benton	36.07	-88.17	Camden Fire Tower
Chickasaw	408001	TN	Chester	35.37	-88.83	Chickasaw State Forest

b. Issuance - NFDRS forecasts are issued when a WIMS observation is received. 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, 1, 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.  
 1 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. NFDRS forecasts should also be disseminated over the internet at <http://www.srh.noaa.gov/meg>.

### 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 "Request a Spot Forecast"
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 forecasts every 1-3 hours of mixing height (ft and m) (AGL and MSL), temperature (°F), humidity, 20 ft wind direction/speed/gust (mph), transport winds (mph and m/s), category day, sky cover, chance of precipitation, and weather type from fire ignition to sunset for prescribed burns and from the current hour to anticipated extinguish hour of wildfires. Figure 4 shows an example spot forecast for a prescribed burn.

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

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FNUS74 KMEG 251105
FWSMEG

SPOT FORECAST FOR CHICKASAW VILLAGE...NATCHEZ TRACE PARKWAY
NATIONAL WEATHER SERVICE MEMPHIS TN
605 AM CDT TUE MAR 25 2008

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 DROP TO AROUND 30 PERCENT
THIS AFTERNOON AS WELL.

.TODAY...

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

TIME (CDT)          10 AM  NOON   2 PM   4 PM
SKY COVER.....MCLER  MCLER  PCLDY  PCLDY
WEATHER COV.....
WEATHER TYPE....NONE   NONE   NONE   NONE
TEMPERATURE.....44    53    61    64
RH (%).....56     40    34    31
20FT WIND MPH...S 12   S 13   S 13   S 12
20FT WIND GUST..16    18    18    16
MIXHGT AGL FT...1635  3575  4912  4662
MIXHGT AGL M....498   1089  1497  1420
MIXHGT MSL FT...1940  3888  5218  4967
MIXHGT MSL M....591   1185  1590  1513
    
```

TRANS WND MPH...S	13	S 20	S 20	S 20
TRANS WND M/S...S	6	S 9	S 9	S 9
CATEGORY DAY...1		2	3	4
PRECIP CHC (%)..0		0	0	0

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 observations of the weather and smoke plume height at the fire site during the fire.

#### 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 at the request of clients.

c. Contents – Requesting agencies can specify the information wanted 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 DDHMM
FWNMEG
TNZ001>004-019>22-048>055-088>091-270000-
```

```
FIRE WEATHER NOTIFICATION MESSAGE
NATIONAL WEATHER SERVICE MEMPHIS TN
600 AM CST THU JUL 26 2007
```

...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 600 AM TUESDAY.

d. Issuances/Dissemination – The forecasters will release the fire weather notification message through regular NWS communication channels which includes 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 WATCH/RED FLAG WARNING**

a. General Information - The NWS will prepare fire weather watches and red flag warnings when watch/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 used is MEMRFWMEG.

b. Request procedure – The NWS should notify user agencies by phone the afternoon before red flag conditions are expected to occur and two afternoons before a watch will occur.

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

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

	Wind (20 ft)	Humidity	Temperature	10 hr Fuel Moisture
Arkansas -	>= 14 mph	<= 25%		<= 10%
Mississippi-	>= 15 mph	<= 25%		<= 10%
Missouri -	>= 20 mph	<= 20%	>= 65	<= 10%
Tennessee -	>= 18 mph	<= 25%		<= 10%

d. Content - Agencies requesting a warning/watch 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/she should call the requesting person and read the warning/watch to the requestor. When the requesting agency is satisfied with the contents of the red flag warning/fire weather watch, the forecaster should release the warning or watch 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

FIRE WEATHER WATCH  
 NATIONAL WEATHER SERVICE MEMPHIS TN  
 315 PM CDT SUN MAR 23 2008

...FIRE WEATHER WATCH FOR PORTIONS OF THE MID SOUTH ON TUESDAY...

.A DEEPENING LOW PRESSURE SYSTEM OVER WESTERN OKLAHOMA WILL CONTINUE TO CAUSE 20 FOOT WINDS ACROSS EAST ARKANSAS...NORTHWEST MISSISSIPPI AND WESTERN TENNESSEE TO BE BETWEEN 15 TO 25 MPH WITH GUSTS TO 30 MPH ON TUESDAY. IN ADDITION MINIMUM RELATIVE HUMIDITIES WILL BE BETWEEN 20 AND 30 PERCENT AND 10 HOUR FUEL MOISTURES WILL BE LESS THAN 10 PERCENT.

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 2008

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

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

A DEEPENING LOW PRESSURE SYSTEM OVER WESTERN OKLAHOMA WILL CAUSE 20 FOOT WINDS ACROSS EAST ARKANSAS...NORTHWEST MISSISSIPPI AND WESTERN TENNESSEE TO BE BETWEEN 15 TO 25 MPH WITH GUSTS TO 30 MPH ON TUESDAY. IN ADDITION MINIMUM RELATIVE HUMIDITIES WILL BE BETWEEN 20 AND 30 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 WILL CREATE EXPLOSIVE FIRE GROWTH POTENTIAL.

\$\$

**Figure 7. Example Red Flag Warning**

WWUS84 KMEG 252015  
 RFWMEG

RED FLAG WARNING  
 NATIONAL WEATHER SERVICE MEMPHIS TN  
 315 PM CDT TUE MAR 25 2008

...RED FLAG WARNING FOR PORTIONS OF THE MID SOUTH UNTIL 7 PM CDT...

.A DEEPENING LOW PRESSURE SYSTEM OVER WESTERN OKLAHOMA WILL CONTINUE TO CAUSE 20 FOOT WINDS ACROSS EAST ARKANSAS...NORTHWEST MISSISSIPPI AND WESTERN TENNESSEE TO BE BETWEEN 15 TO 25 MPH WITH GUSTS TO 30 MPH THIS AFTERNOON. IN ADDITION MINIMUM RELATIVE

HUMIDITIES WILL REMAIN BETWEEN 22 AND 25 PERCENT AND 10 HOUR FUEL MOISTURES WILL REMAIN BETWEEN 5 AND 8 PERCENT.

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 2008

...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.

A DEEPENING LOW PRESSURE SYSTEM OVER WESTERN OKLAHOMA WILL CAUSE 20 FOOT WINDS ACROSS EAST ARKANSAS...NORTHWEST MISSISSIPPI AND WESTERN TENNESSEE TO BE BETWEEN 15 TO 25 MPH WITH GUSTS TO 30 MPH THIS AFTERNOON. IN ADDITION MINIMUM RELATIVE HUMIDITIES WILL REMAIN BETWEEN 22 AND 25 PERCENT AND 10 HOUR FUEL MOISTURES WILL REMAIN BETWEEN 5 AND 8 PERCENT.

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 WILL CREATE EXPLOSIVE FIRE GROWTH POTENTIAL.

\$\$

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

f. Cancellation - Fire weather watches/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 nine 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
Camden	TN	Benton	36.07	-88.17	Camden Fire Tower
Chickasaw	TN	Chester	35.37	-88.83	Chickasaw State Forest
Dyersburg	TN	Dyer	35.99	-89.41	Dyersburg TDF 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 Central Time. Afternoon forecasts are issued by 4 pm Central Time. Many times, the afternoon forecast should be ready by 330 pm Central Time. 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 9 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 (%)**  
**Precipitation amounts (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 (m<sup>2</sup>/s)**  
**Category day**  
**500 meter mixing height temperature (F)**  
**500 meter transport wind direction and speed (m/s and mph)**

**Dispersion index**  
**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-hour air temperature, 6-hour dewpoint, 6-hour 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>.

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 241210
PFWMEG

FIRE WEATHER POINT FORECAST MATRICES
NATIONAL WEATHER SERVICE MEMPHIS TN
710 AM CDT FRI APR 24 2009

MSZ002-242200-
WINBORN NFDRS SITE-MARSHALL MS
34.69N 89.30W ELEV. 500 FT
710 AM CDT FRI APR 24 2009

DATE          FRI 04/24/09          SAT 04/25/09          SUN 04/26/09
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      86          61          85          60          84
TEMP         76 83 85 81 74 68 65 62 72 81 84 81 73 68 64 61 71 79 83 79
DEWPT        55 55 54 55 57 57 57 57 59 57 56 57 59 58 58 58 57 56 56 57
MIN/MAX RH   35          85          39          89          40
RH           47 38 35 42 55 66 76 85 63 45 39 44 61 71 80 89 61 45 40 46
WIND DIR     S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S
WIND SPD     11 14 12  8  6  8  6  5 10 13 12  8  5  5  4  4 11 14 12  8
HEAT INDEX   81          81          81
CLOUDS       SC SC SC FW FW FW FW SC SC SC FW FW FW FW SC SC SC SC SC
CLOUDS (%)   26 26 26 25 25 25 25 35 35 35 20 20 20 20 40 40 40 40 43
POP 12HR     0          5          5          5          5
QPF 12HR     0          0          0          0          0
MIXHGT M AGL 1121 1688  798  20 1638 2080  22  0 1989 2209
MIXHGT FT AGL 3679 5537 2617  65 5374 6825  71  0 6526 7246
MIXHGT M MSL 1243 1810  913  143 1760 2202  145 109 2111 2331
MIXHGT FT MSL 4079 5937 2997  468 5774 7225  475 358 6926 7647
TRANSWIND DIR SW  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S
    
```

TWIND SPD MS	8	10	5	5	9	9	3	3	11	11
TWIND SPD MPH	19	23	12	12	20	20	8	6	26	26
VENT INDEX	16290		7986		19818		1420		25641	
CATEGORY DAY	4		4		5		1		5	
500M MIXHGT T	76	82	82	76	75	82	81	78	77	80
500M TWND DIR	SW	S	S	S	S	S	S	S	S	S
500M TWND M/S	9	7	8	10	7	8	8	8	8	9
500M TWND MPH	20	16	19	23	17	18	19	19	19	21
DISPERSION	62	70	12	12	71	81	4	6	89	91
LASI	4	5	4	5	5	5	5	4	4	4
STABILITY	D	C	C	F	E	B	C	F	D	C
STAG INDEX	0		0		0		0		0	

DATE	MON 04/27/09				TUE 04/28/09				WED 04/29/09				THU 04/30/09			
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	61		83		62		77		61		79		61		83	
TEMP	67	62	79	78	67	63	74	73	66	62	76	75	66	62	78	78
DEWPT	57	58	58	59	60	60	61	61	60	59	60	60	60	59	61	62
MAX/MIN RH	86		45		91		59		91		53		91		50	
RH	70	86	50	53	76	91	62	66	81	90	57	61	80	91	55	58
WIND DIR	S		S		S		S		SE		S		S		S	
WIND SPD	7		9		9		6		5		8		6		9	
AVG CLOUDS	SC	SC	SC	SC	B1	B1	B2	B2	B2	B2	B2	B2	B2	B2	B1	B1
POP 12HR	10		10		10		40		30		30		30		20	
RAIN SHWRS							SC		SC		SC		SC		IS	
TSTMS							SC		SC		SC		SC		IS	

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MSZ024-242200-  
 MONROE NFDRS SITE-MONROE MS  
 33.87N 88.48W ELEV. 225 FT  
 710 AM CDT FRI APR 24 2009

DATE	FRI 04/24/09						SAT 04/25/09						SUN 04/26/09									
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	86						59						85									
TEMP	75	82	85	80	72	66	63	60	71	80	84	81	72	68	64	61	72	80	84	84	80	80
DEWPT	56	54	54	56	57	56	57	57	59	57	56	57	58	58	58	58	58	58	58	58	58	58
MIN/MAX RH	34						90						39									
RH	51	38	34	43	58	70	82	90	66	46	39	44	62	72	82	90	62	47	41	41	47	47
WIND DIR	S		S		S		S		S		S		S		SE		SE		SE		S	
WIND SPD	8	11	11	5	5	4	3	2	8	11	10	5	3	3	3	3	3	10	13	11	8	8
HEAT INDEX	82		80						80		81						81		80			
CLOUDS	SC	SC	SC	FW	FW	FW	FW	SC	SC	SC	SC	FW	FW	FW	FW	FW	SC	SC	SC	SC	SC	SC
CLOUDS (%)	26	26	26	25	25	25	25	35	35	35	35	20	20	20	20	20	40	40	40	40	44	44
POP 12HR	0						5						5									
QPF 12HR	0						0						0									
MIXHGT M AGL	1186	1645		22		20		1569	2065		16		27		2199	2433						
MIXHGT FT AGL	3892	5396		71		67		5147	6776		51		88		7215	7981						
MIXHGT M MSL	1252	1711		87		87		1635	2131		81		93		2265	2498						
MIXHGT FT MSL	4108	5612		287		284		5363	6993		267		304		7431	8197						
TRANSWIND DIR	S		S		S		S		S		SE		S		S							
TWIND SPD MS	6		7		4		3		8		8		3		2							
TWIND SPD MPH	14		16		10		8		18		19		6		4							
VENT INDEX	11977			488			17048			561			22482									
CATEGORY DAY	4		1		5		1		5		1		5									
500M MIXHGT T	80	83		82		79		78		82		83		79		81						
500M TWND DIR	S		S		S		S		S		S		S		S							
500M TWND M/S	6		7		11		12		7		8		8		7							
500M TWND MPH	14		17		26		27		17		18		19		18							
DISPERSION	53		56		5		5		62		75		3		4							

LASI	5	5	5	5	5	4	4	3	4	4
STABILITY	E	B	C	F	E	B	C	F	E	B
STAG INDEX		0		0		0		0		0

DATE	MON 04/27/09				TUE 04/28/09				WED 04/29/09				THU 04/30/09			
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	60		84		61		78		63		80		61		84	
TEMP	67	61	79	78	67	62	75	74	67	64	78	76	67	62	79	79
DEWPT	58	59	59	59	59	59	60	61	61	60	60	60	59	57	60	63
MAX/MIN RH	92		44		92		56		88		52		86		48	
RH	74	92	50	51	75	92	61	64	81	88	55	59	75	85	52	58
WIND DIR	S		S		S		S		S		S		S		S	
WIND SPD	6		8		7		5		6		7		6		7	
AVG CLOUDS	SC	SC	SC	SC	B1	B1	B2	B2	B2	B2	B2	B2	B2	B2	B1	B1
POP 12HR	10		10		10		40		30		30		20		20	
RAIN SHWRS					SC		SC	SC	SC	SC	SC	SC	IS	IS	IS	IS
TSTMS					SC		SC	SC	SC	SC	SC	SC	IS	IS	IS	IS

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MSZ006-242200-  
 TISHOMINGO NFDRS SITE-TISHOMINGO MS  
 34.79N 88.22W ELEV. 300 FT  
 710 AM CDT FRI APR 24 2009

DATE	FRI 04/24/09						SAT 04/25/09						SUN 04/26/09									
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	85						59						84									
TEMP	76	82	84	79	72	66	63	60	71	79	83	80	71	67	63	60	71	79	83	79		
DEWPT	54	53	52	54	56	56	55	56	58	56	55	57	58	58	57	57	57	57	56	56		
MIN/MAX RH	33						87						38									
RH	48	37	33	42	57	70	77	87	64	45	38	45	63	73	82	91	61	44	39	46		
WIND DIR	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SE	S	S	S	S		
WIND SPD	9	13	12	6	6	5	4	2	10	12	11	6	4	4	4	3	10	14	12	8		
HEAT INDEX													80									
CLOUDS	SC	SC	SC	FW	FW	FW	FW	SC	SC	SC	SC	FW	FW	FW	FW	SC	SC	SC	SC	SC		
CLOUDS (%)	26	26	26	25	25	25	25	35	35	35	35	20	20	20	20	40	40	40	40	44		
POP 12HR	0						5						5									
QPF 12HR	0						0						0									
MIXHGT M AGL	1226	1502		538		0						1762	1896		786		0		2115	2244		
MIXHGT FT AGL	4022	4927		1764		0						5779	6221		2580		0		6938	7360		
MIXHGT M MSL	1406	1684		687		147						1944	2075		961		120		2292	2423		
MIXHGT FT MSL	4613	5524		2255		481						6378	6808		3153		394		7520	7949		
TRANSWIND DIR	SW		S		S		S						S		S		S		S			
TWIND SPD MS	8		9		5		5						9		10		5		2		9	
TWIND SPD MPH	18		21		12		12						20		24		11		5		20	
VENT INDEX	15156						6126						18675									
CATEGORY DAY	4						3						5									
500M MIXHGT T	77	82		81		78						77	81		81		78		76	80		
500M TWND DIR	SW		S		S		S						S		S		S		S			
500M TWND M/S	9	8		10		13						8	8		9		8		7	8		
500M TWND MPH	21	18		24		29						19	18		20		18		16	19		
DISPERSION	65	68		7		7						74	76		7		6		72	74		
LASI	5	5		5		5						5	6		4		3		4	4		
STABILITY	E	C		C		F						D	B		C		F		E	C		
STAG INDEX	0						0						0									

DATE	MON 04/27/09				TUE 04/28/09				WED 04/29/09				THU 04/30/09			
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	59	84	61	78	62	80	60	83
TEMP	66 60 79 78 67 62 75 74 66 63 77 75 66 61 78 78							
DEWPT	57 57 57 57 58 59 59 59 59 59 60 60 59 58 59 61							
MAX/MIN RH	90 41 90 54 88 51 92 47							
RH	72 90 47 48 72 90 58 60 79 88 54 59 78 91 53 55							
WIND DIR	S S S S S S S							
WIND SPD	6 8 7 6 6 7 5 8							
AVG CLOUDS	SC SC SC SC B1 B1 B2 B2 B2 B2 B2 B2 B2 B1 B1							
POP 12HR	10 10 10 40 40 30 30 20							
RAIN SHWRS	SC SC SC SC SC SC SC SC IS IS							
TSTMS	SC SC SC SC SC SC SC SC IS IS							

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MSZ021-242200-  
 YALOBUSHA NFDRS SITE-YALOBUSHA MS  
 33.99N 89.80W ELEV. 370 FT  
 710 AM CDT FRI APR 24 2009

DATE	FRI 04/24/09								SAT 04/25/09								SUN 04/26/09							
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	86								62								85							
TEMP	76 83 85 81 74 69 65 63 73 81 84 81 73 69 65 62 71 79 83 79																							
DEWPT	57 57 56 57 59 59 59 59 61 59 58 59 60 59 58 58 58 57 58 58																							
MIN/MAX RH	38								86								41							
RH	51 41 38 45 59 70 79 86 65 47 41 47 63 71 80 89 63 47 42 48																							
WIND DIR	S SE																							
WIND SPD	10 13 13 8 6 8 6 5 10 13 12 9 6 6 5 5 11 14 13 9																							
HEAT INDEX	81								81 84 82								83							
CLOUDS	SC SC SC FW FW FW FW SC SC SC SC FW FW FW FW SC SC SC SC SC																							
CLOUDS (%)	26 26 26 25 25 25 25 35 35 35 20 20 20 40 40 40 40 43																							
POP 12HR	0								5								5							
QPF 12HR	0								0								0							
MIXHGT M AGL	1167 1725 800 34 1661 2060 0 0 1849 2224																							
MIXHGT FT AGL	3829 5658 2626 112 5451 6759 0 0 6067 7298																							
MIXHGT M MSL	1289 1847 911 156 1783 2182 83 81 1971 2346																							
MIXHGT FT MSL	4229 6058 2990 512 5851 7159 271 267 6467 7698																							
TRANSWIND DIR	S S																							
TWIND SPD MS	7 8 5 5 9 9 4 3 11 9																							
TWIND SPD MPH	17 19 12 11 20 21 9 6 25 21																							
VENT INDEX	14776 6700 19638 1148 23460																							
CATEGORY DAY	4 3 5 1 5																							
500M MIXHGT T	77 83 82 76 76 83 81 78 77 81																							
500M TWND DIR	SW S S S S S S S S S																							
500M TWND M/S	9 7 10 11 8 9 10 11 9 9																							
500M TWND MPH	20 16 23 25 18 20 24 25 21 21																							
DISPERSION	62 64 12 11 68 83 5 5 84 83																							
LASI	4 4 4 5 5 5 5 5 5 4																							
STABILITY	E C C F E C C F D C																							
STAG INDEX	0 0 0 0 0 0 0 0 0 0																							

DATE	MON 04/27/09				TUE 04/28/09				WED 04/29/09				THU 04/30/09			
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	62 83 63 79 63 80 63 84															
TEMP	68 63 79 78 68 64 76 75 68 64 77 76 68 64 80 79															
DEWPT	59 60 61 61 61 61 62 63 62 61 62 63 62 61 63 64															
MAX/MIN RH	91 49 91 58 92 56 91 51															
RH	73 91 54 57 79 91 61 66 83 92 59 63 81 91 55 59															
WIND DIR	S S S SE SE S S S															
WIND SPD	8 9 8 4 5 7 6 8															
AVG CLOUDS	SC SC SC SC B1 B1 B2 B2 B2 B2 B2 B2 B2 B2 B1 B1															
POP 12HR	10 10 10 40 30 30 30 20															

RAIN SHWRS SC SC SC SC SC SC SC SC IS IS  
 TSTMS SC SC SC SC SC SC SC SC IS IS

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ARZ027-242200-  
 POINSETT NFDRS SITE-POINSETT AR  
 35.53N 90.69W ELEV. 335 FT  
 710 AM CDT FRI APR 24 2009

DATE	FRI 04/24/09								SAT 04/25/09								SUN 04/26/09							
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	85								63								83							
TEMP	76	82	84	80	74	69	66	64	73	80	82	80	72	69	65	63	72	79	82	78				
DEWPT	58	58	57	58	57	57	57	58	60	59	58	59	59	58	57	57	57	56	56	56				
MIN/MAX RH	40								83								44							
RH	52	44	40	46	56	65	73	83	63	50	44	49	63	68	76	82	59	46	41	46				
WIND DIR	SW	SW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S				
WIND SPD	13	17	16	11	6	8	9	9	13	18	16	10	8	8	8	8	13	16	14	10				
HEAT INDEX	82								81								80							
CLOUDS	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	FW	FW	FW	FW	SC	SC	SC	SC	SC		
CLOUDS(%)	26	26	26	32	32	32	32	35	35	35	20	20	20	20	20	40	40	40	40	46				
POP 12HR	0								5								10							
QPF 12HR	0								0								0							
MIXHGT M AGL	1227	1353	578	178	1771	2352	0	26	1609	1796														
MIXHGT FT AGL	4024	4438	1896	583	5811	7715	0	86	5279	5890														
MIXHGT M MSL	1313	1445	660	267	1859	2439	81	112	1699	1885														
MIXHGT FT MSL	4307	4741	2165	876	6097	8002	265	366	5575	6185														
TRANSWIND DIR	SW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S				
TWIND SPD MS	13	13	5	7	10	9	4	5	12	12														
TWIND SPD MPH	29	29	12	17	24	21	10	11	27	27														
VENT INDEX	18785								6804								26829							
CATEGORY DAY	5								3								5							
500M MIXHGT T	74	81	81	76	75	82	81	78	78	81														
500M TWND DIR	SW	S	S	S	S	S	S	S	S	S														
500M TWND M/S	12	11	13	14	9	9	12	15	11	11														
500M TWND MPH	28	26	31	32	21	20	27	35	25	25														
DISPERSION	92	92	24	22	74	86	8	10	89	75														
LASI	4	5	5	4	4	4	4	5	5	5														
STABILITY	D	C	C	F	D	C	C	F	D	C														
STAG INDEX	0								0								0							

DATE	MON 04/27/09				TUE 04/28/09				WED 04/29/09				THU 04/30/09			
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	62				79				63				77			
TEMP	68	63	76	75	67	64	75	73	65	61	74	73	65	61	77	78
DEWPT	58	59	60	61	61	60	61	61	59	57	60	62	60	59	60	62
MAX/MIN RH	88				55				91				59			
RH	70	88	58	62	81	91	61	66	80	89	60	68	86	93	57	59
WIND DIR	S				S				S				SW			
WIND SPD	8				10				11				9			
AVG CLOUDS	SC	SC	B1	B1	B1	B1	B2	B2	B2	B2	B2	B2	B2	B2	B1	B1
POP 12HR	10				10				50				40			
RAIN SHWRS									SC	SC	SC	SC	SC	SC	IS	IS
TSTMS									SC	SC	SC	SC	SC	SC	IS	IS

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TNZ022-242200-  
 CAMDEN TOWER NFDRS SITE-BENTON TN  
 36.07N 88.17W ELEV. 512 FT  
 710 AM CDT FRI APR 24 2009

DATE	FRI 04/24/09								SAT 04/25/09								SUN 04/26/09								
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	85								61								84								
TEMP	74	81	84	80	72	67	64	62	72	80	83	80	72	68	64	61	71	80	83	79					
DEWPT	55	53	53	54	55	55	55	56	58	57	55	56	57	57	55	56	56	56	56	56					
MIN/MAX RH	34								81								38								
RH	51	38	34	42	55	66	73	81	61	44	38	44	60	68	74	85	59	45	40	46					
WIND DIR	SW	SW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					
WIND SPD	10	13	12	8	5	6	5	5	10	13	11	5	3	4	4	5	10	12	11	5					
HEAT INDEX	81								80								80								
CLOUDS	SC	SC	SC	FW	FW	FW	FW	SC	SC	SC	SC	FW	FW	FW	SC	SC	SC	SC	SC	SC					
CLOUDS(%)	26	26	26	25	25	25	25	35	35	35	35	20	20	20	20	40	40	40	40	42					
POP 12HR	0								5								5								
QPF 12HR	0								0								0								
MIXHGT M AGL	1308	1722							0	18	1608	1915							0	0	2006	2154			
MIXHGT FT AGL	4292	5650							0	59	5277	6282							0	0	6581	7067			
MIXHGT M MSL	1462	1877							85	172	1762	2069							69	69	2160	2308			
MIXHGT FT MSL	4797	6159							279	564	5782	6787							226	225	7086	7573			
TRANSWIND DIR	SW		SW		S		S		SW		S		S		S		S		S						
TWIND SPD MS	10		11		4		7		10		10		4		3		9		10						
TWIND SPD MPH	24		25		10		16		24		23		10		8		20		24						
VENT INDEX	20647				822				22759				740				23080								
CATEGORY DAY	5								1								5								
500M MIXHGT T	75		82		82		78		76		81		81		79		77		81						
500M TWND DIR	SW		SW		S		S		SW		S		S		S		S		S						
500M TWND M/S	9		9		12		14		9		9		11		11		8		8						
500M TWND MPH	21		20		28		32		21		21		26		26		18		19						
DISPERSION	74		88		8		14		77		80		4		6		76		84						
LASI	4		6		5		5		5		5		5		4		4		4						
STABILITY	E		C		C		F		E		B		C		F		D		B						
STAG INDEX	0								0								0								

DATE	MON 04/27/09				TUE 04/28/09				WED 04/29/09				THU 04/30/09			
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	60				83				62				76			
TEMP	67	61	79	77	67	63	75	72	65	61	74	72	64	61	76	76
DEWPT	56	56	57	58	58	58	58	59	58	57	58	59	58	57	59	60
MAX/MIN RH	85				43				86				56			
RH	70	85	48	51	74	86	57	62	78	86	58	64	82	89	55	58
WIND DIR	S		S		S		SW		S		SW		S		SW	
WIND SPD	7		9		10		10		5		9		5		9	
AVG CLOUDS	SC	SC	SC	SC	B1	B1	B2	B2	B2	B2	B2	B2	B2	B2	B1	B1
POP 12HR	10				10				40				30			
RAIN SHWRS									SC	SC	SC	SC	SC	SC	SC	SC
TSTMS									SC	SC	SC	SC	SC	SC	SC	SC

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TNZ053-242200-  
 CHICKASAW STATE FOREST NFDRS SITE-CHESTER TN  
 35.37N 88.83W ELEV. 496 FT  
 710 AM CDT FRI APR 24 2009

DATE	FRI 04/24/09								SAT 04/25/09								SUN 04/26/09							
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	86								61								84							
TEMP	75	82	85	80	73	67	64	62	72	80	83	80	72	68	64	61	71	80	83	79				
DEWPT	54	52	53	55	57	56	56	57	59	57	55	57	58	57	56	56	56	56	57	57				
MIN/MAX RH	34								85								38							

RH	50	36	34	43	58	69	76	85	63	45	38	46	63	70	75	85	59	44	41	48
WIND DIR	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
WIND SPD	10	14	12	8	5	8	6	5	11	14	12	6	3	5	5	5	11	13	11	5
HEAT INDEX				80						81	83	81						80		
CLOUDS	SC	SC	SC	FW	FW	FW	FW	SC	SC	SC	SC	FW	FW	FW	FW	SC	SC	SC	SC	SC
CLOUDS (%)	26	26	26	25	25	25	25	35	35	35	35	20	20	20	20	40	40	40	40	42
POP 12HR				0				5				5				5				5
QPF 12HR				0				0				0				0				0
MIXHGT M AGL	1209	1649			212		48	1637	2014		31		0	2082	2229					
MIXHGT FT AGL	3965	5410		694	157	5370	6607	102	0	6829	7313									
MIXHGT M MSL	1343	1784		347	182	1774	2150	155	80	2217	2363									
MIXHGT FT MSL	4405	5852		1139	596	5819	7053	508	263	7272	7751									
TRANSWIND DIR	SW	S		S	S	S	S	S	S	S	S									
TWIND SPD MS	8	10		4	7	9	9	4	3	10	12									
TWIND SPD MPH	19	24		10	16	21	21	10	8	24	28									
VENT INDEX		17840			3594		21500		1512		25993									
CATEGORY DAY		5		2		5		1		5										
500M MIXHGT T	75	82		82	77	76	82	81	78	77	80									
500M TWND DIR	SW	S		S	S	S	S	S	S	S	S									
500M TWND M/S	9	8		11	12	8	9	10	10	8	9									
500M TWND MPH	21	18		25	28	19	20	24	24	19	21									
DISPERSION	68	81		8	12	74	85	4	6	90	100									
LASI	4	5		4	5	5	5	5	5	4	5									
STABILITY	D	C		C	F	E	B	C	F	E	B									
STAG INDEX		0		0		0		0		0										

DATE	MON 04/27/09	TUE 04/28/09	WED 04/29/09	THU 04/30/09
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	60	83	62	76	60	79	61	82
TEMP	67 61 79 77	67 63 74 72	65 61 75 75	66 62 77 77				
DEWPT	57 56 57 58	59 59 59 58	58 58 59 60	59 59 60 61				
MAX/MIN RH	85	43	90	56	90	53	89	51
RH	71 85 48 51	75 90 59 62	78 90 57 61	79 89 55 59				
WIND DIR	S	S	S	S	SW	S	SW	
WIND SPD	6	9	9	8	6	8	6	9
AVG CLOUDS	SC SC SC SC	B1 B1 B2 B2	B2 B2 B2 B2	B2 B2 B1 B1				
POP 12HR	10	10	10	40	30	40	30	30
RAIN SHWRS			SC SC	SC SC SC SC	SC SC SC SC	SC SC SC SC	SC SC SC SC	
TSTMS			SC SC	SC SC SC SC	SC SC SC SC	SC SC SC SC	SC SC SC SC	

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TNZ019-242200-  
 DYERSBURG RAWS NFDRS SITE-DYERSBURG TN  
 35.99N 89.41W ELEV. 208 FT  
 710 AM CDT FRI APR 24 2009

DATE	FRI 04/24/09	SAT 04/25/09	SUN 04/26/09
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	01 04 07 10 13 16 19	01 04 07 10 13 16 19

MAX/MIN		85	63	84	61	84				
TEMP	77 82 84 80	74 70 66 64	73 80 83 81	73 69 65 62	71 79 83 79					
DEWPT	55 55 53 53	53 54 53 54	57 58 56 55	55 56 55 55	56 56 55 54					
MIN/MAX RH	34	71	39	78	38					
RH	47 39 34 39	48 58 63 71	58 47 39 41	53 63 71 78	57 45 38 42					
WIND DIR	SW S S S	S S S S	S S S S	SE SE SE S	S S S S					
WIND SPD	11 12 12 6	5 8 6 6	10 13 12 5	4 5 5 5	10 12 11 6					
HEAT INDEX	82	80	81	81						
CLOUDS	SC SC SC SC	SC SC SC SC	SC SC SC SC	FW FW FW FW	SC SC SC SC					
CLOUDS (%)	26 26 26 26	26 26 26 35	35 35 35 20	20 20 20 40	40 40 40 44					
POP 12HR		0	5	5	5	5				
QPF 12HR		0	0	0	0	0				
MIXHGT M AGL	1302	1430	14	115	1608	2052	289	0	1930	2175

MIXHGT FT AGL	4271	4691	46	377	5276	6731	948	0	6333	7136
MIXHGT M MSL	1392	1520	94	205	1698	2142	366	68	2020	2265
MIXHGT FT MSL	4566	4986	310	672	5571	7027	1201	224	6628	7431
TRANSWIND DIR	SW	SW	S	S	SW	S	S	S	S	S
TWIND SPD MS	12	12	5	6	10	11	4	4	12	12
TWIND SPD MPH	28	27	11	13	24	25	10	9	27	28
VENT INDEX		19760		1215		23562		3365		27180
CATEGORY DAY		5		1		5		2		5
500M MIXHGT T	75	82	82	78	76	82	81	79	78	81
500M TWND DIR	SW	S	S	S	S	S	S	S	S	S
500M TWND M/S	11	10	12	12	9	10	12	13	10	10
500M TWND MPH	26	24	27	28	20	23	28	29	23	24
DISPERSION	86	90	6	14	68	87	4	8	97	99
LASI	4	5	5	4	5	4	5	5	4	4
STABILITY	D	C	C	F	E	B	C	F	D	B
STAG INDEX		0		0		0		0		0

DATE	MON 04/27/09				TUE 04/28/09				WED 04/29/09				THU 04/30/09			
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		63		81		63		75		60		75		61		80
TEMP	68	64	78	77	68	64	73	72	65	61	72	71	64	62	75	76
DEWPT	55	55	57	58	57	56	57	58	56	54	56	57	56	55	57	59
MAX/MIN RH		74		45		77		55		80		53		80		48
RH	62	74	48	52	68	77	57	62	72	79	56	61	75	79	53	55
WIND DIR		S		S		S		S		S		SW		S		SW
WIND SPD		7		10		11		10		6		8		6		10
AVG CLOUDS	SC	SC	B1	B1	B1	B1	B2	B2	B2	B2	B2	B2	B2	B2	B1	B1
POP 12HR		10		10		30		40		30		40		40		30
RAIN SHWRS					SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC
TSTMS					SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC

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ARZ049-242200-  
 MARIANNA SITE-LEE AR  
 34.76N 90.72W ELEV. 300 FT  
 710 AM CDT FRI APR 24 2009

DATE	FRI 04/24/09						SAT 04/25/09						SUN 04/26/09									
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					85				63			84			62						84	
TEMP	76	82	84	80	74	69	66	64	73	80	83	81	73	69	66	63	72	80	83	79	83	79
DEWPT	57	57	57	57	58	58	58	58	59	59	58	58	59	59	58	58	58	57	57	57	57	57
MIN/MAX RH					39				81			42			84						41	
RH	51	42	39	46	58	67	74	81	63	48	42	47	61	68	76	84	60	46	41	41	47	47
WIND DIR		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
WIND SPD	12	16	14	10	6	9	9	8	12	16	14	11	8	8	8	8	8	12	16	14	11	11
HEAT INDEX					82							81									80	83
CLOUDS	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	FW	FW	FW	SC	SC	SC	SC	SC	SC	SC
CLOUDS(%)	26	26	26	30	30	30	30	35	35	35	35	20	20	20	20	40	40	40	40	40	45	45
POP 12HR					0				5			5				5					10	10
QPF 12HR					0				0			0				0					0	0
MIXHGT M AGL	1113	1225		644	236	1679	2205	13				13	13	1519	1854							
MIXHGT FT AGL	3651	4020		2112	773	5510	7235	44				44	44	4982	6083							
MIXHGT M MSL	1191	1303		714	314	1757	2283	91				91	91	1597	1932							
MIXHGT FT MSL	3907	4276		2344	1029	5766	7491	300				300	300	5238	6339							
TRANSWIND DIR		S		S		S		S		S		S		S		S		S		S		S
TWIND SPD MS		10		11		5		7		9		10		5		4		11		12		12
TWIND SPD MPH		24		26		11		16		20		23		11		10		25		27		27
VENT INDEX				14333		6222		22830				1525				21252						
CATEGORY DAY				4		3		5				1				5						
500M MIXHGT T		77		82		82		75		76		82		81		79		78		81		81

500M TWND DIR	S	S	S	S	S	S	S	S	S	S
500M TWND M/S	11	9	12	11	8	9	13	14	10	11
500M TWND MPH	25	21	27	26	19	21	31	33	24	25
DISPERSION	68	74	21	20	65	81	8	9	71	77
LASI	4	5	4	4	5	4	4	5	5	5
STABILITY	D	C	C	F	D	C	C	F	D	C
STAG INDEX		0		0		0		0		0

DATE	MON 04/27/09				TUE 04/28/09				WED 04/29/09				THU 04/30/09			
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	63		80		64		78		62		79		62		83	
TEMP	68	64	77	76	68	65	76	74	67	63	76	75	67	63	79	79
DEWPT	58	59	60	61	61	61	61	62	60	59	60	62	60	59	61	63
MAX/MIN RH	86		53		87		58		87		55		87		51	
RH	70	86	56	60	78	87	60	65	79	87	58	64	79	86	55	59
WIND DIR	S				S				SE				S			
WIND SPD	9		9		10		7		6		8		6		9	
AVG CLOUDS	SC	SC	B1	B1	B1	B1	B2	B2	B2	B2	B2	B2	B2	B2	B1	B1
POP 12HR	10		10		40		40		30		40		30		20	
RAIN SHWRS					SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	IS	IS
TSTMS					SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	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  
 WIND CHILL (F).....WIND CHILL TEMPERATURE  
 HEAT INDEX (F).....HEAT INDEX  
 CLOUDS (CAT).....CLOUD COVER CATEGORY  
 EXAMPLE: CL = CLEAR; FW = FEW; SC = SCATTERED;  
 B1 = MOSTLY CLOUDY; B2 = CONSIDERABLE CLOUDS; OV = OVERCAST  
 CLOUDS (%).....CLOUD COVER AS A PERCENTAGE  
 POP 12HR (%).....PROBABILITY FOR ACCUMULATING PRECIPITATION  
 QPF 12HR (IN).....LIQUID EQUIVALENT PRECIPITATION AMOUNT  
 WEATHER...  
 TYPE...  
 RAIN.....RAIN  
 RAIN SHWRS....RAIN SHOWERS  
 TSTMS.....THUNDERSTORMS  
 DRIZZLE.....DRIZZLE  
 SNOW.....SNOW  
 SNOWSHWRS....SNOW SHOWERS  
 SLEET.....SLEET  
 FLURRIES.....FLURRIES  
 FRZG RAIN....FREEZING RAIN  
 FRZG DRZL....FREEZING DRIZZLE  
 COVERAGE...  
 IS.....ISOLATED  
 SC.....SCATTERED  
 NM.....NUMEROUS  
 O.....OCCASIONAL  
 S.....SLIGHT CHANCE  
 C.....CHANCE  
 L.....LIKELY  
 WD.....WIDESPREAD

D.....DEFINITE  
 AR.....AREAS  
 PA.....PATCHY  
 OBVIS.....OBSTRUCTION TO VISIBILITY  
 TYPE...  
 F.....FOG  
 PF.....PATCHY FOG  
 +PF.....PATCHY DENSE FOG  
 F+.....DENSE FOG  
 H.....HAZE  
 BS.....BLOWING SNOW  
 K.....SMOKE  
 BD.....BLOWING DUST  
 MIXHGT M AGL.....MIXING HEIGHT IN METERS ABOVE GROUND LEVEL  
 MIXHGT FT AGL.....MIXING HEIGHT IN FEET ABOVE GROUND LEVEL  
 MIXHGT M MSL.....MIXING HEIGHT IN METERS MEAN SEA LEVEL  
 MIXHGT FT MSL.....MIXING HEIGHT IN FEET MEAN SEA LEVEL  
 TRANSWIND DIR (8 POINT COMPASS).....TRANSPORT WIND DIRECTION  
 TWIND SPD MS (M/S).....TRANSPORT WIND SPEED IN METERS PER SECOND  
 TWIND SPD MPH (MPH).....TRANSPORT WIND SPEED IN MILES PER HOUR  
 VENT INDEX (M2/S).....VENT INDEX IN METERS SQUARED PER SECOND  
 CATEGORY DAY.....CATEGORY DAY BASED ON VENT INDEX  
 EXAMPLE: 1 = <2000; 2 = >=2000 AND <4000; 3 = >=4000 AND <8000;  
 4 = >=8000 AND <16000; 5 = >=16000  
 500M MIXHGT T (F).....SURFACE TEMPERATURE NEEDED TO CREATE MIXING  
 UP TO 500 METERS ABOVE THE GROUND  
 500M TWND DIR (8 POINT COMPASS).....TRANSPORT WIND DIRECTION AT 500 METERS AGL  
 500M TWND M/S.....TRANSPORT WIND AT 500 METERS AGL IN M/S  
 500M TWND MPH.....TRANSPORT WIND AT 500 METERS AGL IN MPH  
 DISPERSION.....DISPERSION INDEX FOR SMOKE DISPERSION  
 EXAMPLE: 1-6 = VERY POOR; 7-12 = POOR; 13-20 = GENERALLY POOR  
 21-40 = FAIR; 41-60 = GENERALLY GOOD; 61-100 = GOOD  
 101+ = EXCELLENT  
 LASI (SAME AS HAINES INDEX).....LOWER ATMOSPHERIC SEVERITY INDEX  
 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  
 AVE 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 (IMET/ATMU)**

The NWS will provide IMET/ATMU “on-site” support to federal land management agencies for wildfires and prescribed burns. All expenses are borne by the requesting agency. IMET/ATMU requests are made through the USFS 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 will 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 NOAA Weather Radio (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 NOAA NWR station is on the NWS Memphis webpage at <http://www.srh.noaa.gov/meg/nwr.htm>.

### **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. NWS MEMPHIS WEBPAGE** (<http://www.srh.noaa.gov/meg> or <http://midsouthweather.com>)

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 routine 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. Keetch-Byram Drought Index (KBDI)
6. RAWs observations
7. Latest Midsouth Fire Weather Plan

**APPENDIX A and B.**

This data is omitted for the online internet version of the plan.

**APPENDIX C. NATIONAL AGREEMENT**

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

<http://fire.boi.noaa.gov/files/Multi-Agency-Master-IMET-IIAA.pdf>