

MIDSOUTH FIRE WEATHER ANNUAL OPERATING PLAN

2008

I. INTRODUCTION

The National Weather Service, 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 Natl. Forest, Holly Springs Natl. 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
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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				

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 used 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 are to be released by 6:00 am Central Time. Afternoon forecasts are to be released as soon as possible after other public products and at least by 4:00 pm Central Time. Many times the afternoon forecast should be ready by 3:30 pm Central Time. Fire weather forecasts are to be 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 (m²/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 Forecasts to be Issued.

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-AGL)	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...YALOBUSHA
 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 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 Forecasts to be Issued.

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...YALOBUSHA 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...
 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	Cross	35.53	-90.69	City of Harrisburg, AR
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 Airport RAWS
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. 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 13:00 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 calling for 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. But, 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 used 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 1-2 hours of mixing height (ft and m) (AGL and MSL), temperature (F), humidity, 20 ft wind direction/speed/gust (mph), 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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000
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. EXPECT SPEEDS 10 TO 20 MPH WITH HIGHER GUSTS.

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.....MCLEAR MCLEAR 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
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 released 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 Midsouth Fire Weather Notification Message

```
ZCZC MEMFWNMEG ALL  
TTAA00 KMEG DDHHMM
```

```
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 after consultation with users.

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 limits - 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% (<=80% at night)		<= 10%
Missouri -	>= 20 mph	<= 20%	>= 65	<= 10%
Tennessee -	>= 18 mph	<= 25%		<= 10%

d. Content - Agencies requesting a warning/watch will 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 afternoon or morning. Figure 6 is an example fire weather watch, and Figure 7 is an example red flag warning.

Figure 6. Example Fire Weather Watch

```
ZCZC MEMRFWMEG ALL
TTAA00 KMEG DDHHMM
```

FIRE WEATHER WATCH
NATIONAL WEATHER SERVICE MEMPHIS TN
100 PM CST THU JUL 26 2007

ARZ008-161800-

...FIRE WEATHER WATCH SATURDAY...

COUNTIES INCLUDED IN THE WARNING ARE:
IN ARKANSAS - LAWRENCE

DISCUSSION: A FIRE WEATHER WATCH HAS BEEN ISSUED FOR LAWRENCE COUNTY ARKANSAS FOR WEDNESDAY. INTENSE LOW PRESSURE IN THE MIDWEST WILL PRODUCE STRONG...DRY WINDS.

WINDS 20 FEET ABOVE THE GROUND WILL BE SOUTHWEST 14 MPH WITH GUSTS TO 20 MPH. HUMIDITY WILL FALL TO 25% BY 11 AM AND THEN GO ON DOWN TO 15% WEDNESDAY AFTERNOON. FIRE DANGER WILL BE EXTREME.

A FIRE WEATHER WATCH MEANS THAT FIRE DANGER IS DANGEROUSLY HIGH. FIRES THAT START WILL SPREAD QUICKLY, BURN FAST, AND BE VERY DIFFICULT TO CONTROL.

ANOTHER STATEMENT CONCERNING THIS FIRE WEATHER WATCH WILL BE ISSUED NOON TUESDAY.

PLEASE ADVISE THE APPROPRIATE OFFICIALS AND FIRE CREWS OF THIS FIRE WEATHER WATCH.

Figure 7. Example Red Flag Warning

ZCZC MEMRFBWMEG ALL
TTAA00 KMEG DDHHMM

RED FLAG WARNING
NATIONAL WEATHER SERVICE MEMPHIS TN
100 PM CST MON JUL 26 2004

ARZ008-280000-

...RED FLAG WARNING FOR STRONG SOUTHWEST WINDS AND LOW HUMIDITY
FROM 600 AM TO SUNSET TUESDAY NORTHEAST ARKANSAS...

COUNTIES INCLUDED IN THE WARNING ARE:
IN ARKANSAS - LAWRENCE

DISCUSSION: A RED FLAG WARNING HAS BEEN ISSUED FOR LAWRENCE COUNTY ARKANSAS TUESDAY. INTENSE LOW PRESSURE IN THE MIDWEST WILL PRODUCE STRONG...DRY WINDS.

WINDS 20 FEET ABOVE GROUND WILL BE FROM THE SOUTHWEST 14 MPH.

HUMIDITY WILL DROP BELOW 25% BY 11 AM AND GO ON DOWN TO 15% THIS TUESDAY AFTERNOON. FIRE DANGER WILL BE EXTREME.

A RED FLAG WARNING MEANS THAT FIRE DANGER IS DANGEROUSLY HIGH. FIRES THAT START WILL SPREAD QUICKLY, BURN FAST, AND BE VERY DIFFICULT TO CONTROL.

ANOTHER STATEMENT CONCERNING THIS RED FLAG EVENT WILL BE ISSUED AT 6 PM CST. ADDITIONAL UPDATES WILL BE TRANSMITTED IF CONDITIONS WARRANT.

PLEASE ADVISE THE APPROPRIATE OFFICIALS AND FIRE CREWS OF THIS RED FLAG WARNING.

- 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 only 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 used is MEMPFWMEG for both the morning and afternoon forecast.
- b. Stations – The fire weather point forecast matrices should be issued for the following five sites.

Table 3. 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	Cross	35.53	-90.69	City of Harrisburg, AR
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 Airport RAWS
St. Francis	AR	Lee	34.76	-90.72	St. Francis Natl. Forest

- c. Release time – Fire weather point forecast matrices should be issued twice a day, similar to the fire weather planning forecasts. Morning forecasts are to be released by 6:00 am Central Time. Afternoon forecasts are to be released as soon as possible after other public products and at least by 4:00 pm Central Time. Many times the afternoon forecast should be ready by 3:30 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 5 sites (1 through 5). (Each parameter represents the point forecast for the given site.)

Max/min air temperature (F)
Hourly air temperature (F)
Dewpoint (F)
Min/max relative humidity (%)
Hourly 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 (m²/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, hourly air temperature, dewpoint, 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 matrices can be obtained from <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

PFWMEG

FIRE WEATHER POINT FORECAST MATRICES
 NATIONAL WEATHER SERVICE MEMPHIS TN
 301 PM CDT TUE MAR 25 2008

MSZ002-261000-
 WINBORN NFDRS SITE-MARSHALL MS
 34.69N 89.30W
 301 PM CDT TUE MAR 25 2008

DATE	WED 03/26/08											THU 03/27/08											FRI
UTC 3HRLY	20	23	02	05	08	11	14	17	20	23	02	05	08	11	14	17	20	23	02	05	08	11	
CDT 3HRLY	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	
MIN/MAX	45					69					54					77	59						
TEMP	64	53	46	46	45	47	57	68	68	58	54	54	55	58	69	75	74	67	63	61	59		
DEWPT	31	33	36	38	41	44	48	49	50	50	51	51	50	51	52	53	53	53	53	54	54		
MAX/MIN RH	90					51					88					45	83						
RH	28	46	67	74	86	89	73	51	51	75	87	87	82	76	55	46	48	61	72	77	83		
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	11	8	6	5	5	6	9	9	8	8	9	9	8	10	13	13	11	10	11	9	6		
CLOUDS	SC	SC	SC	SC	SC	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	SC	SC	B1	B1		
CLOUDS(%)	28	45	45	45	45	62	65	64	62	61	59	59	59	63	63	64	64	49	49	53	53		
POP 12HR	5					5					10					10	10						
QPF 12HR	0					0					0					0	0						
MIXHGT M AGL	729		125		1028		1702		1151		441		725		972		905		592				
MIXHGT FT AGL	2393		410		3374		5584		3777		1447		2379		3188		2969		1941				
MIXHGT M MSL	851		247		1150		1824		1273		563		847		1094		1027		714				
MIXHGT FT MSL	2793		810		3774		5984		4177		1847		2779		3588		3369		2341				
TRANSWIND DIR	S		S		SW		SW		S		S		S		SW		SW		SW				
TWIND SPD MS	5		6		7		9		9		10		11		13		10		9				
TWIND SPD MPH	12		14		17		20		20		24		26		29		23		21				
VENT INDEX	6720					14592					15420					13128	11891						
CATEGORY DAY	3					4					4					4	4						
500M MIXHGT T	63		61		61		68		68		61		60		68		67		64				
500M TWND DIR	S		SW		SW		S		S		S		S		S		SW		SW				
500M TWND M/S	11		12		10		7		10		11		11		12		12		10				
500M TWND MPH	25		28		23		17		24		25		25		28		27		24				
DISPERSION	28		12		43		56		32		36		61		83		37		34				
LASI	4		3		3		3		3		3		3		3		3		2				
STABILITY	C		F		E		C		C		D		D		D		C		D				
STAG INDEX	0					0					0					0	0						

DATE	03/28/08			SAT 03/29/08			SUN 03/30/08			MON 03/31/08			TUE 04/01/08														
UTC 6HRLY	17	23	05	11	17	23	05	11	17	23	05	11	17	23	05	11	17	23									
CDT 6HRLY	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18									
MAX/MIN	72			53			68			50			75			58			74			47			65		
TEMP	69	71	59	54	64	66	56	52	68	73	62	59	70	72	55	48	61	63									
DEWPT	54	53	50	47	48	51	50	48	51	54	55	55	54	53	49	44	44	45									
MIN/MAX RH	52			75			53			87			48			87			49			85			48		
RH	58	54	73	75	56	58	80	87	54	53	79	87	58	51	78	85	53	52									
WIND DIR	SW			N			NE			E			S			S			S			NW			N		
WIND SPD	9			6			6			4			7			7			9			10			9		
AVG CLOUDS	B1	B1	B2	B2	OV	B1	B2	B2	B1	B1	B1	B1	B2	B2	OV	B2	SC	SC									
POP 12HR	50			50			40			20			20			30			50			40			30		
RAIN SHWRS	SC	SC	SC	SC	SC	SC	IS	IS	IS	IS	SC	SC	SC	SC	SC	SC	IS	IS									
TSTMS	SC	SC	SC	SC	SC	SC	IS	IS	IS	IS	SC	SC	SC	SC	SC	SC	IS	IS									

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ARZ027-261000-
 POINSETT NFDRS SITE-POINSETT AR
 35.53N 90.69W

301 PM CDT TUE MAR 25 2008

DATE	WED 03/26/08										THU 03/27/08										FRI	
UTC 3HRLY	20	23	02	05	08	11	14	17	20	23	02	05	08	11	14	17	20	23	02	05	08	11
CDT 3HRLY	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06
MIN/MAX	51					69					56					75					57	
TEMP	63	55	51	51	51	51	51	60	69	69	60	57	57	59	60	69	74	73	68	64	61	59
DEWPT	41	39	42	43	44	46	50	51	52	53	54	54	53	54	55	55	56	56	55	54	52	
MAX/MIN RH	83					53					93					53					77	
RH	45	55	69	73	77	83	68	53	55	75	92	91	82	79	62	53	56	66	74	77	77	
WIND DIR	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SW
WIND SPD	13	9	6	6	6	8	10	11	10	10	10	10	10	10	11	13	13	13	12	11	10	9
CLOUDS	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B2	B2	B1	B1	SC	SC	B2	B2	
CLOUDS (%)	51	56	56	56	56	59	67	69	69	67	63	62	62	72	72	55	55	49	49	70	70	
POP 12HR	10					20					30					20					20	
QPF 12HR	0					0					0.03					0.01					0.01	
RAIN SHWRS						IS IS IS IS					SC SC SC SC					IS IS IS IS					IS IS	
TSTMS											SC SC SC SC					IS IS IS IS					IS IS	
MIXHGT M AGL	126		119		917		1331		978		514		884		1262		894		421			
MIXHGT FT AGL	413		391		3009		4366		3208		1685		2901		4140		2933		1380			
MIXHGT M MSL	212		207		1003		1423		1064		601		971		1350		988		518			
MIXHGT FT MSL	694		679		3291		4668		3491		1971		3184		4430		3240		1698			
TRANSWIND DIR	S		S		SW		S		S		S		S		SW		SW		W			
TWIND SPD MS	6		8		9		10		11		13		14		13		7		5			
TWIND SPD MPH	13		19		21		23		25		31		33		31		17		11			
VENT INDEX	3899					14230					16302					20250					8218	
CATEGORY DAY	3					4					4					5					3	
500M MIXHGT T	66		65		63		70		70		64		63		70		71		65			
500M TWND DIR	S		SW		SW		S		S		S		S		SW		SW		W			
500M TWND M/S	13		14		11		9		15		17		15		13		11		6			
500M TWND MPH	31		33		25		21		34		39		35		31		25		14			
DISPERSION	16		20		58		63		37		50		92		96		32		30			
LASI	3		3		2		3		3		2		2		3		3		3			
STABILITY	C		E		D		C		C		D		D		D		C		D			
STAG INDEX	0					0					0					0					0	
WIND	Y																					

DATE	03/28/08			SAT 03/29/08			SUN 03/30/08			MON 03/31/08			TUE 04/01/08					
UTC 6HRLY	17	23	05	11	17	23	05	11	17	23	05	11	17	23	05	11	17	23
CDT 6HRLY	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18

MAX/MIN	70			48			62			47			73			57			67			43			61		
TEMP	67	68	57	51	59	61	53	50	64	70	61	59	64	65	53	46	57	60									
DEWPT	49	45	44	42	43	45	45	45	49	53	54	54	51	47	44	39	39	39									
MIN/MAX RH	44			70			52			84			51			83			53			79			45		
RH	54	44	61	70	56	56	74	84	58	55	77	83	62	53	71	79	52	47									
WIND DIR	SW			NE			NE			E			S			S			SW			N			N		
WIND SPD	9			10			7			4			8			9			11			11			7		
AVG CLOUDS	B1	B1	B2	B2	B1	SC	B2	B2	B1	B1	B2	B2	B2	B2	B1	SC	SC										
POP 12HR	60			50			30			20			20			30			60			50			30		
RAIN SHWRS	SC	SC	SC	SC	SC	SC	IS	IS	IS	IS	SC	SC	NM	NM	SC	SC	IS	IS									
TSTMS	SC	SC	SC	SC	SC	SC	IS	IS	IS	SC	SC	NM	NM	SC	SC	IS	IS										

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TNZ022-261000-
 CAMDEN TOWER NFDERS SITE-BENTON TN
 36.07N 88.17W
 301 PM CDT TUE MAR 25 2008

DATE	WED 03/26/08										THU 03/27/08										FRI	
UTC 3HRLY	20	23	02	05	08	11	14	17	20	23	02	05	08	11	14	17	20	23	02	05	08	11
CDT 3HRLY	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06

MIN/MAX						47						65					54					75					59
TEMP	61	51	47	47	47	48	56	65	65	57	54	54	56	59	69	74	72	67	64	62	60						
DEWPT	30	31	34	36	39	43	48	49	48	48	48	49	50	51	51	51	52	52	52	52	51						
MAX/MIN RH						81						54						83					45				71
RH	32	46	61	66	74	81	74	55	54	72	81	83	81	73	53	46	48	58	66	69	71						
WIND DIR	S	S	S	S	S	SW	SW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SW
WIND SPD	11	8	6	5	4	5	9	9	8	8	8	9	10	11	13	12	10	10	11	11	9						
CLOUDS	B1	B1	B1	B1	B1	B2	B1	B1	B2	B2	B2	B2	B2	B2	B2	B1	B1	SC	SC	B1	B1						
CLOUDS (%)	52	54	54	54	54	71	62	64	72	74	75	75	75	70	70	67	67	49	49	65	65						
POP 12HR						10				30								20									20
QPF 12HR						0			0.06					0.04			0.01										0.01
RAIN SHWRS							SC	SC	SC	SC	SC	SC	SC	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS
TSTMS										SC	SC	SC	SC	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS
MIXHGT M AGL				192		25		436		817		172		363		821		1204		1086		343					
MIXHGT FT AGL				630		81		1431		2681		565		1190		2694		3951		3562		1124					
MIXHGT M MSL				346		181		590		971		326		517		975		1358		1240		497					
MIXHGT FT MSL				1135		593		1936		3186		1070		1695		3199		4456		4067		1629					
TRANSWIND DIR				S		S		SW		S		S		SW		SW		SW		SW		W					
TWIND SPD MS				7		7		8		6		7		11		12		14		11		7					
TWIND SPD MPH				16		16		19		14		17		25		28		32		26		17					
VENT INDEX						4697				7768				4914				19012				13290					
CATEGORY DAY						3				4				3				5				4					
500M MIXHGT T				60		61		60		63		67		62		62		69		68		62					
500M TWND DIR				S		SW		SW		S		S		SW		SW		SW		SW		W					
500M TWND M/S				12		14		11		6		15		16		13		13		13		10					
500M TWND MPH				28		32		25		14		34		36		31		31		29		23					
DISPERSION				16		13		37		37		18		44		78		94		40		29					
LASI				3		3		2		3		3		2		2		3		3		3					
STABILITY				C		E		E		C		C		D		D		C		C		D					
STAG INDEX						0				0				0				0				0					
RED FLAG				W																							

DATE		03/28/08	SAT	03/29/08	SUN	03/30/08	MON	03/31/08	TUE	04/01/08																	
UTC 6HRLY	17	23	05	11	17	23	05	11	17	23	05	11	17	23	05	11	17	23									
CDT 6HRLY	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18									

MAX/MIN				71		47		65		43		72		58		68		44		63							
TEMP	68	69	56	49	61	63	51	46	64	70	61	59	65	66	54	46	59	61									
DEWPT	50	49	46	41	42	44	44	44	47	51	53	54	52	49	45	41	41	42									
MIN/MAX RH				47		73		46		92		47		84		54		81		47							
RH	52	49	67	73	49	49	75	92	53	52	75	84	62	54	73	81	52	50									
WIND DIR				SW		NE		NE		E		S		S		NW		N									
WIND SPD				10		9		8		5		7		10		13		10		8							
AVG CLOUDS	B1	B1	OV	OV	B1	SC	SC	SC	B1	B1	B1	B1	B2	B2	OV	B2	SC	SC									
POP 12HR				50		50		30		20		30		30		50		40		30							
RAIN SHWRS	SC	SC	SC	SC	SC	SC	IS	IS	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC									
TSTMS	SC	SC	SC	SC	SC	SC	IS	IS	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC									

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TNZ053-261000-
 CHICKASAW STATE FOREST NFDRS SITE-CHESTER TN
 35.37N 88.83W
 301 PM CDT TUE MAR 25 2008

DATE																													
UTC 3HRLY	20	23	02	05	08	11	14	17	20	23	02	05	08	11	14	17	20	23	02	05	08	11							
CDT 3HRLY	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06							

MIN/MAX						45						68						54						77				58
TEMP	61	51	45	45	46	47	57	67	67	58	54	54	56	59	70	75	74	67	62	61	60							
DEWPT	30	32	35	37	40	42	47	48	48	49	50	50	50	51	52	52	53	53	53	53	53							
MAX/MIN RH						83						50						86						44				78
RH	30	48	68	73	79	82	70	50	51	72	85	86	83	74	52	44	47	61	72	75	78							
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	11	9	8	6	6	8	9	9	9	9	9	9	10	10	11	13	13	10	10	11	10							

CLOUDS	SC	SC	SC	SC	SC	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	B1	SC	SC	B1	B1
CLOUDS (%)	41	49	49	49	49	60	59	61	64	66	69	69	69	65	65	67	67	49	49	59	59
POP 12HR					5				10				20				20				10
QPF 12HR					0				0				0.02				0.01				0
RAIN SHWRS										IS	IS	IS	IS	IS	IS	IS	IS				
TSTMS										IS	IS	IS	IS	IS	IS	IS	IS				
MIXHGT M AGL			385		53		600		1577		880		416		796		1080		1050		448
MIXHGT FT AGL			1263		173		1968		5174		2885		1364		2612		3542		3446		1470
MIXHGT M MSL			544		188		746		1711		1015		550		930		1214		1184		583
MIXHGT FT MSL			1784		616		2448		5613		3331		1804		3050		3981		3885		1911
TRANSWIND DIR			S		S		SW		S		S		S		S		SW		SW		SW
TWIND SPD MS			7		7		7		8		9		10		12		14		11		7
TWIND SPD MPH			17		16		17		19		20		24		28		32		26		17
VENT INDEX					6712				13688				13350				16744				13354
CATEGORY DAY						3			4				4				5				4
500M MIXHGT T			61		61		61		67		69		62		61		69		68		64
500M TWND DIR			S		SW		SW		S		S		S		S		SW		SW		SW
500M TWND M/S			12		14		10		7		13		14		13		13		12		10
500M TWND MPH			28		33		23		17		31		33		29		31		28		24
DISPERSION			24		15		34		56		32		39		82		94		37		27
LASI			4		3		2		3		3		3		2		3		3		2
STABILITY			C		F		E		C		C		D		D		D		C		D
STAG INDEX					0				0				0				0				0
RED FLAG						W															

DATE	03/28/08	SAT 03/29/08	SUN 03/30/08	MON 03/31/08	TUE 04/01/08
UTC 6HRLY	17 23 05	11 17 23 05	11 17 23 05	11 17 23 05	11 17 23
CDT 6HRLY	12 18 00	06 12 18 00	06 12 18 00	06 12 18 00	06 12 18

MAX/MIN	70	49	66	47	73	57	71	43	65
TEMP	68 68 56	51 63 64 52	49 66 71 60	58 68 69 52	45 61 63				
DEWPT	52 52 48	44 46 49 48	46 48 52 54	55 53 50 46	41 42 44				
MIN/MAX RH	53	78	51	89	46	90	50	85	45
RH	57 55 76	78 54 58 85	89 52 51 81	90 60 51 80	85 50 50				
WIND DIR	SW	N NE	E S	S S	NW N				
WIND SPD	10	8 6	4 7	8 11	10 9				
AVG CLOUDS	B1 B1 B2	B2 B2 B1 B1	B1 B1 B1 B1	B1 B2 B2 OV	B2 SC SC				
POP 12HR	60	50 40	20 30	30 50	40 30				
RAIN SHWRS	NM NM SC	SC SC SC IS	IS SC SC SC	SC SC SC SC	SC SC SC				
TSTMS	NM NM SC	SC SC SC IS	IS SC SC SC	SC SC SC SC	SC SC SC				

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ARZ049-261000-
 ST FRANCIS SITE-LEE AR
 34.76N 90.72W
 301 PM CDT TUE MAR 25 2008

DATE		WED 03/26/08										THU 03/27/08					FRI				
UTC 3HRLY	20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	11 14 17 20 23 02 05 08	
CDT 3HRLY	15 18 21 00 03	06 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 12 15 18 21 00 03	06 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 12 15 18 21 00 03	06 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 12 15 18 21 00 03	06 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 12 15 18 21 00 03	06 09 12 15 18 21 00 03	06 09 12 15 18 21 00 03	06 09 12 15 18 21 00 03	
MIN/MAX		51	71	56	76	58															
TEMP	64 55 51 51 51 52 61 71 71 61 57 57 58 60 69 75 73 67 62 60 59																				
DEWPT	38 37 41 42 45 47 50 51 52 52 53 53 53 53 55 55 55 55 54 54 54																				
MAX/MIN RH	84	50	87	50	82																
RH	37 51 69 73 80 84 68 50 51 72 86 86 83 80 62 51 52 65 75 79 82																				
WIND DIR	S S																				
WIND SPD	12 10 8 8 6 8 11 11 10 10 11 10 10 11 14 14 13 12 11 10 9																				
CLOUDS	SC SC SC SC SC B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B1 SC SC B1 B1																				
CLOUDS (%)	28 49 49 49 49 56 60 62 62 60 57 56 56 66 66 56 56 49 49 59 59																				
POP 12HR	5	5	20	20																	
QPF 12HR	0	0	0.02	0.01	0																
RAIN SHWRS			IS IS IS IS IS IS IS IS IS IS IS IS IS IS IS IS																		
TSTMS			IS IS IS IS IS IS IS IS IS IS IS IS IS IS IS IS																		
MIXHGT M AGL	154	161	978	1540	942	600	823	1112	989	245											

MIXHGT FT AGL	505	529	3207	5051	3089	1968	2699	3647	3244	803
MIXHGT M MSL	232	239	1056	1618	1020	678	901	1190	1067	323
MIXHGT FT MSL	761	785	3463	5307	3345	2224	2955	3903	3500	1059
TRANSWIND DIR	S	S	S	S	S	S	S	SW	SW	SW
TWIND SPD MS	6	9	9	10	11	13	13	13	11	5
TWIND SPD MPH	14	20	21	24	25	31	31	31	25	12
VENT INDEX		4880		16180		16562		16660		10377
CATEGORY DAY		3		4		4		5		4
500M MIXHGT T	66	65	65	70	69	63	63	69	69	66
500M TWND DIR	S	S	S	S	S	S	S	S	S	SW
500M TWND M/S	13	14	11	10	15	15	13	13	12	9
500M TWND MPH	31	32	25	23	34	34	31	31	28	21
DISPERSION	18	19	51	65	39	47	74	86	36	16
LASI	3	3	3	3	3	3	2	2	3	2
STABILITY	C	F	D	C	C	D	D	D	C	D
STAG INDEX		0		0		0		0		0
RED FLAG	W									

DATE	03/28/08	SAT 03/29/08	SUN 03/30/08	MON 03/31/08	TUE 04/01/08
UTC 6HRLY	17 23 05	11 17 23 05	11 17 23 05	11 17 23 05	11 17 23
CDT 6HRLY	12 18 00	06 12 18 00	06 12 18 00	06 12 18 00	06 12 18
MAX/MIN	72	51 66	51 74	61 70	47 64
TEMP	68 70 58	53 62 64 55	53 66 72 63	62 68 69 55	48 60 62
DEWPT	53 53 49	45 47 49 49	48 51 55 55	56 54 52 48	43 43 44
MIN/MAX RH	52	75 53	83 49	82 54	81 47
RH	59 54 73	74 56 59 78	83 57 55 76	82 63 56 77	81 53 51
WIND DIR	SW	NE NE	E S	S S	NW N
WIND SPD	10	9 7	4 8	8 9	10 8
AVG CLOUDS	B1 B1 B2	B2 B2 B1 B2	B2 B1 B1 B1	B1 B2 B2 OV	B1 SC SC
POP 12HR	50	60 30	20 20	30 50	50 20
RAIN SHWRS	SC SC NM	NM SC SC IS	IS IS IS SC	SC SC SC SC	SC IS IS
TSTMS	SC SC NM	NM SC SC IS	IS IS IS 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

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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
    
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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 to be used 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 put 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, 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. NFDRS forecasts
7. RAWS observations

National Weather Service Office/Contacts

a. Memphis, Tennessee

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

Contacts – Michael Scotten, Fire Weather Focal Point
Mr. James Belles, Meteorologist-in-Charge
Public Forecaster, Various meteorologists

Phone - (Administration) - (901) 544-0405

FAX - (901) 544-0414

email addresses – Michael.Scotten@noaa.gov
Jim.Belles@noaa.gov

Webpage – <http://www.srh.noaa.gov/meg> or <http://midsouthweather.com>

APPENDIX C. NATIONAL AGREEMENT

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

<http://www.nws.noaa.gov/directives/sym/pd01004006curr.pdf>