



U.S. Department of Agriculture

MOBILE FIRE-WEATHER OBSERVER'S RECORD



Forest Service

NFES 001159

5100-25 (6/2017)

INSTRUCTIONS: Make weather observations at the most advantageous sites on your designated area at least every 15 minutes or as required by meteorologist. If more frequent observations are necessary due to some special event, such as a fire whirlwind, only the pertinent features of that event need be recorded.

TEMPERATURE: Dry Bulb. Stand in shade, face wind, hold psychrometer to front with hand away from bulbs, allow thermometer to reach equilibrium, read and record.

Wet Bulb. Wet clean wicking with clean water, face wind, hold psychrometer at arm length to front, whirl at moderate rate, check wet-bulb temperature frequently, and record lowest value when equilibrium is reached.

RELATIVE HUMIDITY: Enter appropriate table (for your elevation) with dry-bulb temperature and the dry-wet bulb temperature difference.

WIND: Direction - record air direction (from) at your present location.

Speed - record both average and gust speeds; for example, average speed 5 and gusts to 15 m.p.h. recorded as 5G15.

Characteristics - take clue from surroundings and designate appropriately as steady, slightly gusty (SG), moderately gust (MG), or very gusty (VG). Note any special characteristics such as fire whirlwinds, dust devils, or wind shear (different directions and/or speeds at different elevations aloft). Include wind direction at other significant places such as at various elevations as indicated by smoke drift.

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (Degrees F.)		Relative Humidity (Percent)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (Degrees F.)		Relative Humidity (Percent)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (Degrees F.)		Relative Humidity (Percent)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (Degrees F.)		Relative Humidity (Percent)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (Degrees F.)		Relative Humidity (Percent)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (Degrees F.)		Relative Humidity (Percent)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (Degrees F.)		Relative Humidity (Percent)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (Degrees F.)		Relative Humidity (Percent)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (Degrees F.)		Relative Humidity (Percent)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)

Date			Location		Elevation <i>Feet</i>	Aspect N E S W
Exposure (<i>Ridgetop, slope, etc.</i>)			Cover Type (<i>As indicator of wind obstruction</i>)		Stand Density (<i>As indicator of wind obstruction</i>)	
Time (__ ST)	Temperature (<i>Degrees F.</i>)		Relative Humidity (<i>Percent</i>)	Wind		
	Dry	Wet		Speed (<i>M.p.h.</i>)	Direction (<i>From</i>)	Characteristics and Comments (<i>See instructions on cover</i>)