

COURSE: Prescribed Fire Planning and Implementation

TOPIC: Smoke Management (Unit 5B)

LESSON B: Quantifying and Achieving Smoke Management Objectives

HANDOUT 6: Georgia Forestry District Smoke Management Forecasts

**GEORGIA FORESTRY DISTRICT FORECASTS
NATIONAL WEATHER SERVICE ATLANTA GA.
8:00 AM EST. WED. NOV. 12 2003**

SYNOPSIS....

VERY COLD AIRMASS MOVING SOUTH ACROSS THE MIDWEST STATES WILL REACH GEORGIA TONIGHT.

DISTRICTS 7, 5,9-NORTH

TODAY..Mostly cloudy with a 30 percent chance of showers. Precipitation duration two hours with amounts around a tenth of an inch. High in the upper 60's. Low relative humidity 55 percent. Northeast wind 10 MPH.

TONIGHT..Mostly cloudy with a 30 percent chance of showers. Precipitation duration around one hour with amounts around a tenth of an inch. Low near 50. High relative humidity 70 percent. North wind 18 MPH.

THURSDAY..Partly cloudy. High in the mid 50's. Low relative humidity 55 percent. North wind 22 MPH and gusty.

**GAAQVALS - A FWIS INTERPRETIVE PRODUCT PROVIDING GEORGIA AIR QUALITY VALUES.
(NOT A NATIONAL WEATHER SERVICE PRODUCT)**

PRODUCT ISSUED AT 801 AM EST NOV 12 2003 **rel 1.4**

CAUTION***FAVORABLE DISPERSION CONDITIONS ARE **NOT** TO BE USED ALONE IN DECIDING TO INITIATE PRESCRIBED BURNING.**

DISTRICTS 7,5,9 -NORTH

	TODAY	TONIGHT	THURSDAY
SMOKE DISP. INDEX	37	38	85
SMOKE DISP. ADJECTIVE	FAIR	FAIR	GOOD
TURNER STABILITY	4	4	4
ATMOSPHERIC TENDENCY TO PROMOTE FIRE BEHAVIOR	NORMAL	NORMAL	NORMAL
SFC WIND DIRECTION	NORTHEAST	NORTH	NORTH
SFC WIND SPD (OPEN)	10 MPH	18 MPH	22 MPH
TRANS WIND SPEED	6	12	14
MIXING HEIGHT (m)	1365	965	1365
PLUME TRAJECTORY	SOUTHWEST	SOUTH	SOUTH

**GEORGIA FORESTRY DISTRICT FORECASTS
 NATIONAL WEATHER SERVICE ATLANTA GA.
 7:41 AM EST. WED. OCT. 29 2003**

SYNOPSIS...

HIGH PRESSURE OVER MOST OF THE SOUTHEAST U.S. A WEAK WAVE HAS FORMED ALONG THE SOUTHEAST GEORGIA COAST ALONG AN OLD FRONTAL BOUNDARY PUSHING CLOUDS INTO GEORGIA.

DISTRICTS 7,5,6

TODAY...Partly cloudy. High in the mid 70's. Low relative humidity 40 percent. Light and variable wind.

TONIGHT..Partly cloudy. Low in the lower 50's. High relative humidity 95 percent. Light and variable wind.

THURSDAY..Partly cloudy. High in the mid 70's. Low relative humidity 45 percent. Northeast wind 5 MPH.

**GAAQVALS - A FWIS INTERPRETIVE PRODUCT PROVIDING GEORGIA AIR QUALITY VALUES.
 (NOT A NATIONAL WEATHER SERVICE PRODUCT)**

PRODUCT ISSUED AT 742 AM EST OCT 29 2003 **rel 2.4**

CAUTION***FAVORABLE DISPERSION CONDITIONS ARE **NOT** TO BE USED ALONE IN DECIDING TO INITIATE PRESCRIBED BURNING.**

DISTRICTS 7,5,6

		TODAY		TONIGHT		THURS DAY
SMOKE DISP. INDEX		19		1		38
SMOKE DISP. ADJECTIVE		GENERALLY POOR		VERY POOR		FAIR
TURNER STABILITY	1	6		2		
ATMOSPHERIC TENDENCY TO PROMOTE FIRE BEHAVIOR		ERRATIC		NORMAL		INTENSE
SFC WIND DIRECTION		LT AND		VARIABLE		LT AND VARIABLE NORTH EAST
SFC WIND SPD (OPEN)						
TRANS WIND SPEED		1		1		3
MIXING HEIGHT (M)		2133		761		1962
PLUME TRAJECTORY				VARIABLE		VARIABLE SOUTHWEST

REMARKS...

A COMBINATION OF LIGHT WINDS AND HUMIDITIES OF 90 PERCENT OR GREATER LATE TONIGHT AND EARLY TOMORROW MAY CAUSE SMOKE ENTRAPMENT AND REDUCED VISIBILITIES UNTIL AROUND 9 AM EST TOMORROW.