DAYTIME SMOKE MANAGEMENT COMPLEXITY WORKSHEET

This worksheet is a guide for determining the complexity of a smoke management situation. Knowing the complexity can help determine the appropriate level of smoke screening required for a burn. This worksheet only deals with daytime, active burning portion of a burn; not residual burning/smoldering or nighttime conditions.

Acres in Flaming Combustion Stage per hour

(1) Size in Acres _____ Acres

(2) Expected duration of flaming combustion stage for burn _____ Hours

(3) Divide (1) by (2) 0.00 Acres/Hour

(4) Select value based on (3)

< 150 Acres/Hour = 0

150-300 Acres/Hour = 1

> 300 Acres/Hour = 2

Score _____

Fuel Load Consumed

< 4 Tons per Acre = 0

4-8 Tons per Acre = 1

> 8 Tons per Acre =2

Score _____

Topography

Flat terrain with no significant topography with 30 miles downwind of the burn unit = 0

Flat terrain with significant topography within 30 miles downwind of the burn unit = 1

Burn unit is in significant topography = 2

Score _____

Ambient Air Quality (based on AQI) **http://www.airnow.gov/**

Good = 0

Moderate = 2

Other = **DO NOT BURN**

Score _____

Atmospheric Dispersion(LDAF Fire Weather Site)

http://www.ldaf.louisiana.gov/portal/Offices/Forestry/DailyFireWeather/tabid/238/Default.aspx

Good Dispersion = 0

Acceptable Dispersion = 1

Poor Dispersion = **DO NOT BURN**

Score _____

Wildland-Urban Interface (WUI)

No urban areas within 60 miles downwind of burn site = 0

Burn unit not in urban area, but urban areas are within 60 miles downwind = 1

Burn unit is within a WUI area = **DO NOT BURN** without WUI Smoke Screening System Evaluation

Score _____

Total 0

Score Evaluation

0-2 (with no individual elements receiving a score of 2) = Low complexity smoke situation

3-6 (with no more than two elements receiving a score of 2) = Moderate complexity smoke situation

7+ = High complexity smoke situation