

STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY – AIR QUALITY DIVISION

DETERMINING SMP-I / SMP-II STATUS

Vegetative material burns that do not exceed 0.25 tons of PM₁₀ per day are subject to the requirements within WAQSR Chapter 10, Section 2(g), *Restrictions on vegetative material open burning*, which is administered by the WDEQ-AQD District Compliance staff. Vegetative material burns that do exceed 0.25 tons of PM₁₀ per day are subject to the requirements within WAQSR Chapter 10, Section 4, Smoke management requirements, which is administered by the Cheyenne WDEQ-AQD staff. (See WDEQ-AQD Contact Information)

The thresholds for the different levels of vegetative material burning are represented below.

Open Burning Ch. 10, Sec. 2	Smoke Management Ch. 10, Sec. 4 Vegetative Material	
<u>Vegetative Material Burner</u> $\leq 0.25 \text{ tons/day } PM_{10}$	<u>Planned Burn Projects Burner</u> $> 0.25 \text{ tons/day } PM_{10}$	<u>Unplanned Fire Jurisdictional Fire Authority</u> $> 50 \text{ acres}$
	SMP-I $< 2 \text{ tons/day } PM_{10}$	SMP-II $\geq 2 \text{ tons/day } PM_{10}$

To assist the burner in determining what SMP level the planned burn project falls under, the emissions equivalency conversion tables below are provided. These tables represent, by vegetation type, what acreage or pile volume amounts produce 0.25 and 2 tons of PM₁₀ emissions, using vegetation type and vegetation quantity.

Table A. Acreage & Pile Volume / Emissions Equivalency Conversion

Vegetation Type	0.25 Tons PM₁₀ Emissions	2 Tons PM₁₀ Emissions
Field Crops	16 acres	130 acres
Shrub Land	8 acres	68 acres
Forest	6 acres	46 acres
Grass	25 acres	200 acres
Weeds (ditches, fencelines)	12 acres	100 acres
Shrub/Forest Piles	1,250 cubic feet	10,000 cubic feet

Table B. Ditch and Fenceline Burn Width & Length / Emissions Equivalency Conversion

Width of Burn (Weeds)	Length of Burn	
	0.25 Tons PM ₁₀ Emissions ⁱ	2 Tons PM ₁₀ Emissions ⁱⁱ
1 foot	103 miles	825
2 feet	52 miles	413
3 feet	34 miles	275
4 feet	26 miles	206
5 feet	21 miles	165
6 feet	17 miles	138
7 feet	15 miles	118
8 feet	13 miles	103
9 feet	11 miles	92
10 feet	10 miles	83
15 feet	7 miles	55
20 feet	5 miles	41
30 feet	3 miles	28
40 feet	3 miles	21
50 feet	2 miles	17

ⁱ For additional widths, the length in miles equivalency to 0.25 tons PM₁₀ emissions can be obtained by dividing the quantity 103 by the average width in feet of the open burn. (For example: 103 ft-mi / 25 ft = 4 miles.)

ⁱⁱ For additional widths, the length in miles equivalency to 2 tons PM₁₀ emissions can be obtained by dividing the quantity 825 by the average width in feet of the open burn. (For example: 825 ft-mi / 25 ft = 33 miles.)