


NEW MEXICO Smoke Management PROGRAM



New Mexico Environment Department
Air Quality Bureau

Thursday, October 29, 2015
Capitan, New Mexico



SMOKE

IT'S OUT THERE!



New Mexico Smoke Management Program (SMP)

**To protect the health & welfare of the people in
New Mexico**

&

To ensure & maintain visibility

**The program applies equitably to all burners in
the State**

*(With the exception of tribal lands and Bernalillo County which are
separate air quality jurisdictions)*

New Mexico Smoke Management Program (SMP) is *Permit by Rule*

Permit-by-rule means the burden of compliance with the requirements specified in the Smoke Management Regulation is with the burner.



KNOW THE REGULATION *BEFORE* YOU BURN

Open Burning vs. Smoke Management Regulations



Amount burned *per day* determines which regulation applies

- Open Burning: 10 acres or less (if piles, 1,000 cu. ft. or less of pile volume)
- Smoke Management Program (SMP): more than 10 acres or 1,000 cu. ft.
 - SMP has 2 levels: smaller vs. larger amount burned *per day*

SMP Requirements

SMP I & SMP II



- Smoke Management Education
- Burn registration, notification, cancellation & tracking
- Consider alternatives to fire and use of emission reduction techniques
- Use of weather to promote smoke dispersion
- Visual monitoring of smoke
- Notification of the public

SMP I Applies *if* you burn this much per day

- Field Crops 11-64 Acres
- Shrub Land 11-33 Acres
- Forest 11-22 Acres
- Grass 11-99 Acres
- Piled Material 1001 – 4999 cu. ft.

SMP II Applies *if* you burn this much or more per day

- Field Crops \geq 65 Acres
- Shrub Land \geq 34 Acres
- Forest \geq 23 Acres
- Grass \geq 100 Acres
- Piled Material \geq 5000 cu. ft.

Emission Reduction Techniques or ERT's

Burning techniques that reduce amount of emissions produced from fire

Examples of ERT's

- Burn in late winter before green up
- Burn when materials are dry
- Remove some materials for other uses; e.g., firewood/chip or shred for mulch
- Rapid mop-up
- Mosaic burning
- Burn piles instead of broadcast burning

SMOKE DISPERSION

Use: National Weather Service fire weather forecast - *burn only in "Good" to "Excellent" conditions OR call Smoke Desk*

Read: Appendix E. Evaluation of Smoke Dispersion - *in SMP Guidance Document to determine ventilation trend*

Observe wind direction & diurnal wind shifts

Smoke at night? Think about drainages & the lay of the land

Smoke travels beyond burn location

Burn when smoke will rise high, mix well & disperse





Visual Monitoring

- Observations and/or equipment that enable assessment of air quality impacts of smoke
- Voluntarily conduct visual monitoring; if less than 1 mile to smoke sensitive receptor, conduct visual monitoring & document
- Contingency plan if impacts to people occur



WAIVERS

Statewide & Individual

Combined SMP I & II Statewide Ventilation Waiver for Broadcast & Pile Burns

Do not need to apply to use BUT need to check box on registration
For burning under less than GOOD ventilation
Adhere to ALL conditions as stated

Individual Waiver - *Must apply for it*

Negotiate conditions

Minimize smoke impacts

Must be approved by NMED/AQB

Must adhere to all conditions in individual waiver

NEW

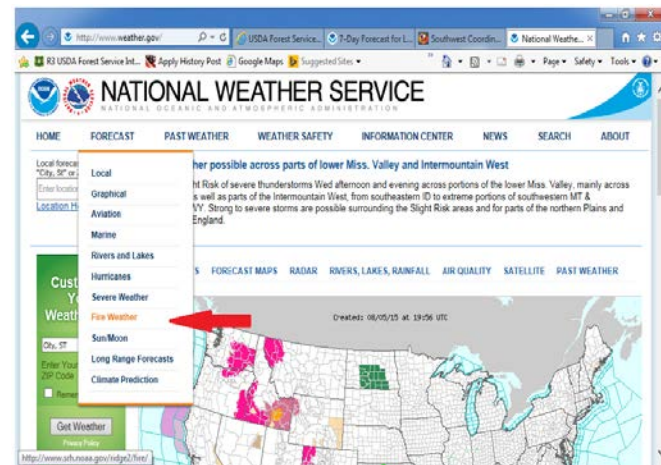
WHAT'S IMPROVED?

Revised as of 9.1.2015

1. Combined SMPI & II
Statewide Ventilation
Waiver for Broadcast & Pile
Burns

2. Daily Waiver Reporting
Form for Ventilation
Category Waivers (including
Statewide Waiver)

3. Appendix E. Evaluation
of Smoke Dispersion (in
the Smoke Management
Program Guidance
Document)



Tracking & Monitoring

- Track ventilation index on AQB form & submit at end of burn project
- Record visual monitoring of plume hourly
- AQB may require instrument monitoring





Public Notification

Any method that communicates burn information to the burn community, to air regulators and to the general public.

- Examples of public notification
 - Press releases, fliers, door hangers, signs in neighborhoods that could be affected, mailings, one-on-one contacts, website, phone calls, phone trees
 - What do people want to know?
 - WHEN?** you are planning on burning
 - WHERE?** you will be burning & for how long
 - WHAT?** you will be burning
 - WHO?** to contact & a phone number, if they have questions
 - WHY?** to improve conditions of the forest, rangeland, etc.

Basic Checklist

- ✓ **REGISTRATION** Burning under SMP I or SMP II? How much will I burn per day?

- ✓ **NOTIFICATION**
 - ✓ to AQB by 10:00 a.m. one business day prior to ignition
 - ✓ to local fire authority prior to ignition
 - ✓ to public no later than 2 days prior to & no sooner than 30 days in advance of the burn

- ✓ **CANCELLATION**

- ✓ **EMISSIONS TRACKING** Submit a final tracking form
- ✓ (only 1 per calendar year)

- ✓ **COMMUNICATE** Call Smoke Desk **505-476-4330**. Before, During or After burning with any questions or for assistance.



Main Data Entry Switchboard

View All Burns Associated to Unit Designation

Review Existing Database Information

Carry over burn to new year
[Rollover previously registered Rx burns to 2015 Instructions](#)

New 2015 Burn Registrations from scratch and notification forms for ongoing burns

SMP I

SMP I Crops Reg
[Instructions](#)

SMP I Forests Reg
[Instructions](#)

SMP I Notification
[Instructions](#)

(Only if you need additional days)
(Do not add days that are already in the Reg form)

SMP II

SMP II Crops Reg
[Instructions](#)

SMP II Forests Reg
[Instructions](#)

SMP II Notification
[Instructions](#)

Common to Both

Tracking Crops
[Instructions](#)

Tracking Forests
[Instructions](#)

Cancellations
[Instructions](#)

What works!



CONTACT INFORMATION

- Hotline: (800) 224-7009
- Direct number: (505) 476-4330
- Web: <http://smoke.state.nm.us/>
- E-mail address: nmenv.smoke@state.nm.us
- Address:

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