

Sacramento Metropolitan Air Quality Management District

Wood Smoke Control Programs



Kevin J. Williams, Ph.D.

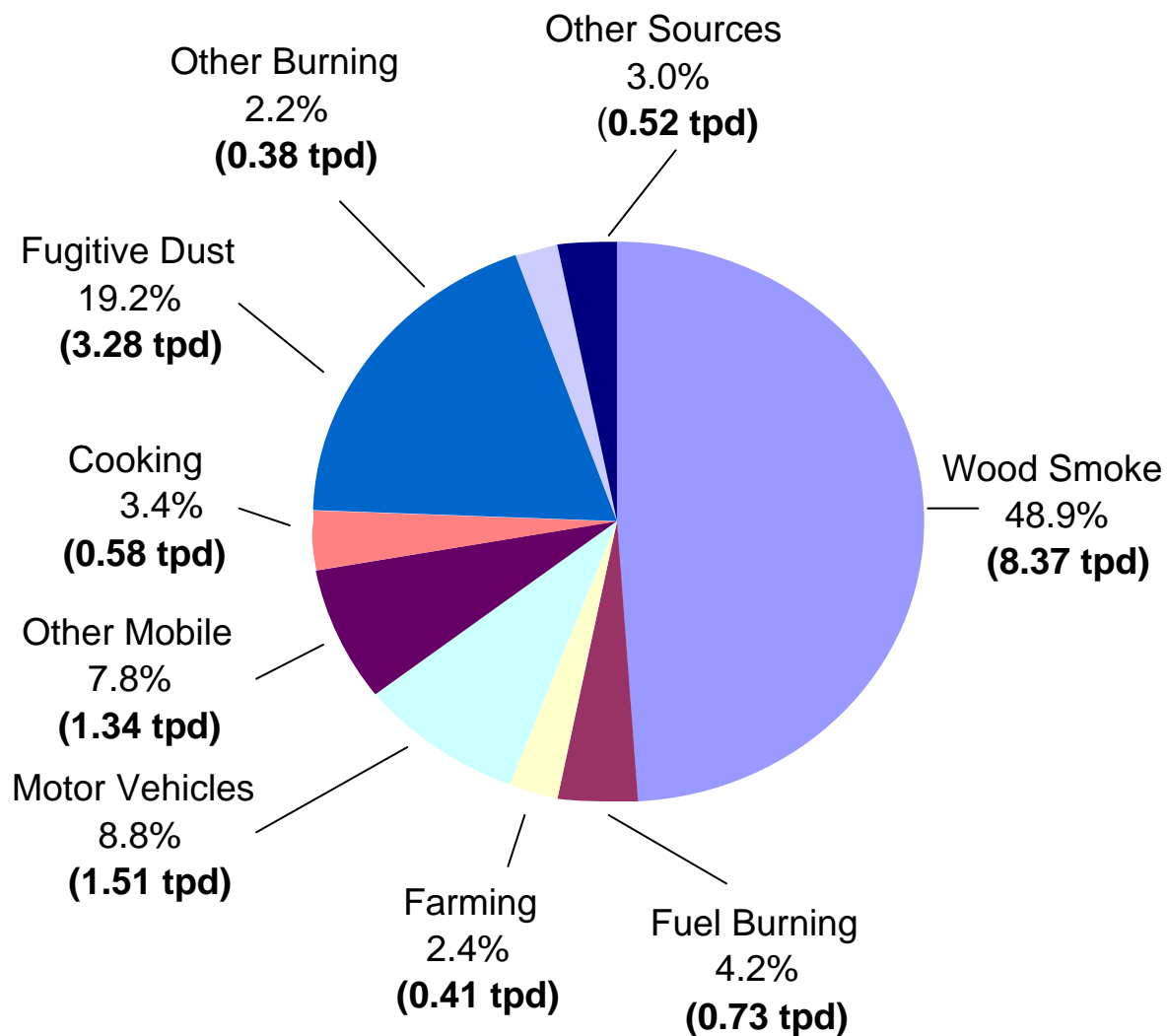
September 26, 2007

SACRAMENTO METROPOLITAN



**AIR QUALITY
MANAGEMENT DISTRICT**

Wintertime PM2.5 Inventory Sacramento County, 2006



Approach to Wood Smoke Control

1. Incentive program for change-outs
2. Prohibiting new fireplaces and noncertified devices (Rule 417)
3. Mandatory curtailment during high PM_{2.5} episodes (proposed Rule 421)

Change-Out Incentive Program

- Partnership with HPBA and local retailers
- Over \$1,000,000 available for incentive funding, plus dealer discounts
- Pilot phase August 15 - September 30, 2006
- Second phase February 1 – May 31, 2007
- Third phase September 1, 2007 – March 31, 2008

Incentive Levels

New Device	Environmental Justice (EJ) Area	Non-EJ Area
Pellet or Gas Stove/Insert	\$500	\$350
Wood Stove/Insert	\$400	\$250
Gas Log Set	\$200	\$75

Low Income Assistance

- Partnership with Community Resource Project (CRP)
- Pays up to the full cost of replacement or retrofit
- District is paying equipment/material costs and CRP is paying labor costs

Program Outreach

- Press event
- Newspaper ads
- Web site
- Booth at Sacramento Home & Garden Show
- Brochures at local dealers
- Utility bill inserts

Outreach Materials

WHERE THERE'S FIRE, THERE'S SMOKE!

We'll pay you to replace your old, polluting wood stove or open hearth fireplace with a new, cleaner burning one – up to \$350, plus dealer incentives.

Wood smoke from residential wood burning can harm your health and your neighbors' health. It is a common source of particulate matter pollution.

These health effects include:

- Coughing or difficulty breathing
- Aggravated asthma, emphysema and chronic bronchitis
- Aggravated heart disease
- Irregular heartbeat

**Clean up the air!
Get your voucher today!**

CALL 916-440-WOOD (916-440-9663)
or VISIT www.AirQuality.org
or E-MAIL woodstove@airquality.org

A list of participating retailers is available from the Sacramento Metropolitan Air Quality Management District via phone, Web site or e-mail.

Voucher program ends May 31, 2007.



Changing the way you burn at home can help reduce air pollution!

Cozy fires are nice, but wood smoke produces particulate matter (PM) pollution that affects the health of your family, friends and neighbors. Children, the elderly and people with respiratory illnesses or heart disease are especially sensitive to the effects of wood smoke.

When you hear a Spare The Air advisory, don't light a fire in your fireplace, wood stove or backyard fire pit.

At other times, you can do several things to reduce wood smoke pollution:

- **Purchase a cleaner burning, low-emission hearth product**
- **Burn only dry, seasoned hardwood – it is easier to light and burns more efficiently**
- **Never burn garbage, glossy paper, painted or chemically treated wood – these products create toxic smoke and fumes**
- **Build small hot fires rather than large smoldering ones**

Health effects from breathing particulate matter pollution, especially fine particles, include:

- **Increased respiratory symptoms, such as irritation of the airways, coughing or difficulty breathing**
- **Aggravated asthma**
- **Development of chronic bronchitis**
- **Irregular heartbeat**
- **Nonfatal heart attacks**
- **Premature death in people with heart or lung disease**

Particulate pollution can cause coughing, wheezing and decreased lung function even in otherwise healthy children and adults. Studies estimate that thousands of elderly people die prematurely each year from exposure to fine particles.

Visit the Sacramento Metropolitan Air Quality Management District's Web site, www.AirQuality.org or call 916-874-4800 for more information and opportunities for money-saving vouchers to assist you in the purchase of a low-emission hearth product.



Example Replacement



Change-Out Program Summary

	Environmental Justice Areas	Other Areas
Vouchers reimbursed = 546	194	352
Monies reimbursed = \$191,650	\$76,425	\$115,225
Old Dirty Devices		
Open hearth fireplaces = 458	160	298
Uncertified stoves/inserts = 88	34	54
New Cleaner Devices		
Wood stoves/inserts = 112	52	60
Gas inserts = 289	95	194
Pellet stoves/inserts = 128	37	91
Gas logs = 17	10	7

Rule 417 Prevents New Fireplaces

- Adopted in October 2006, takes effect in October 2007
- Any new device must be:
 - EPA-Phase II certified wood stove/insert
 - Pellet stove/insert
 - Masonry heater
 - Gas-fueled device
- Also prohibits burning of garbage and other waste materials

Proposed Rule 421

Mandatory Curtailment

- Would prohibit indoor/outdoor burning of solid fuel on days when PM_{2.5} forecast exceeds 35 µg/m³ (federal 24-hour standard)
- Expected to result in about 30 no-burn days per year
- Exemptions for:
 - Sole source of heat
 - Cooking
 - Religious ceremonies
 - Economic hardship (optional)