

DEQ Woodsmoke Workgroup Recommendations

House Energy and Environment Committee

February 1, 2017

Why is wood smoke a concern?

Health effects



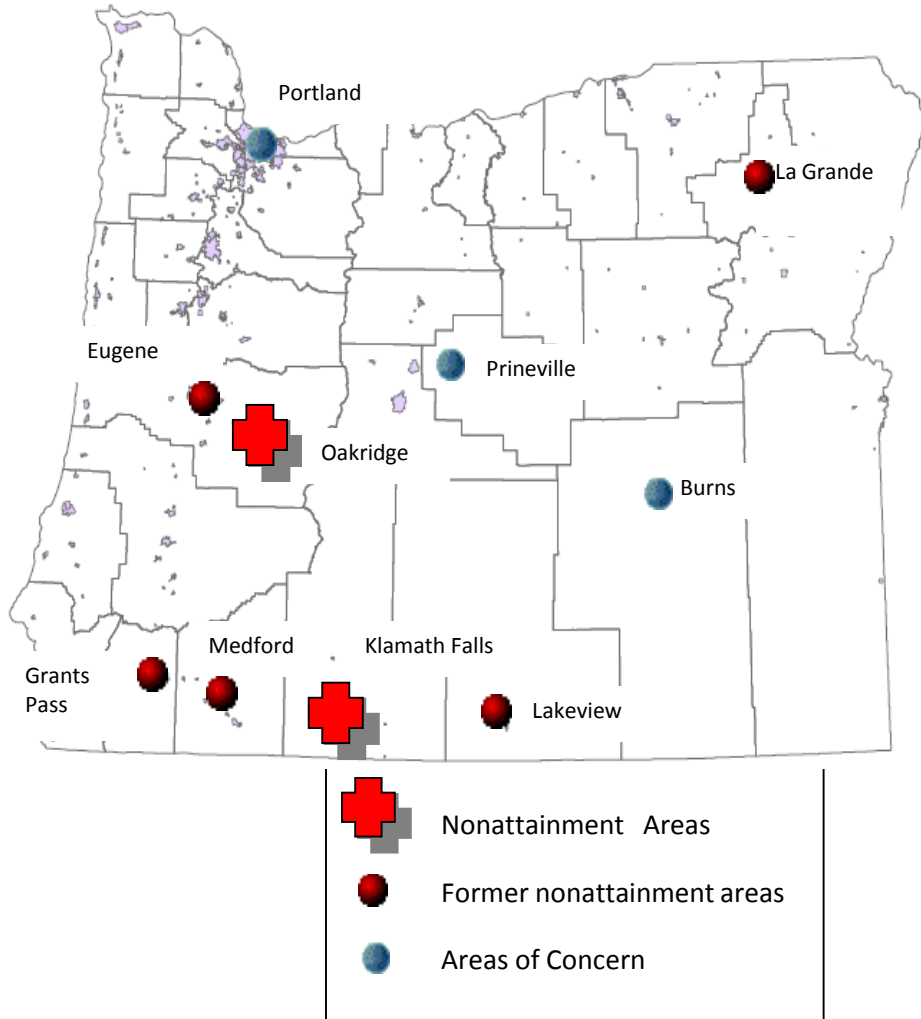
Components of wood smoke



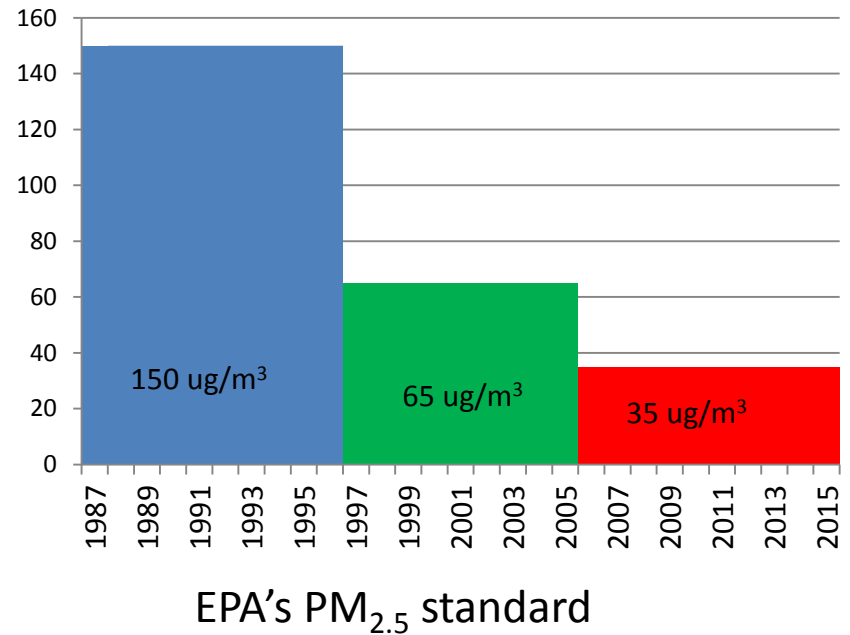
Health Effects

Why is wood smoke a concern?

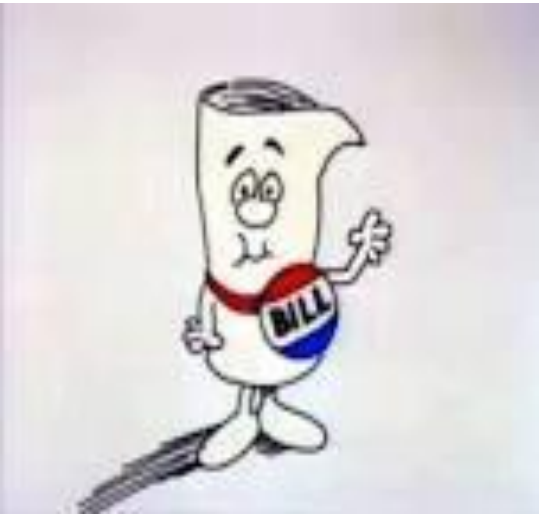
Nonattainment concerns



PM_{2.5} (24-hour) standard (ug/m³)



House Bill 3068 – Study topics



Reduce smoke emissions

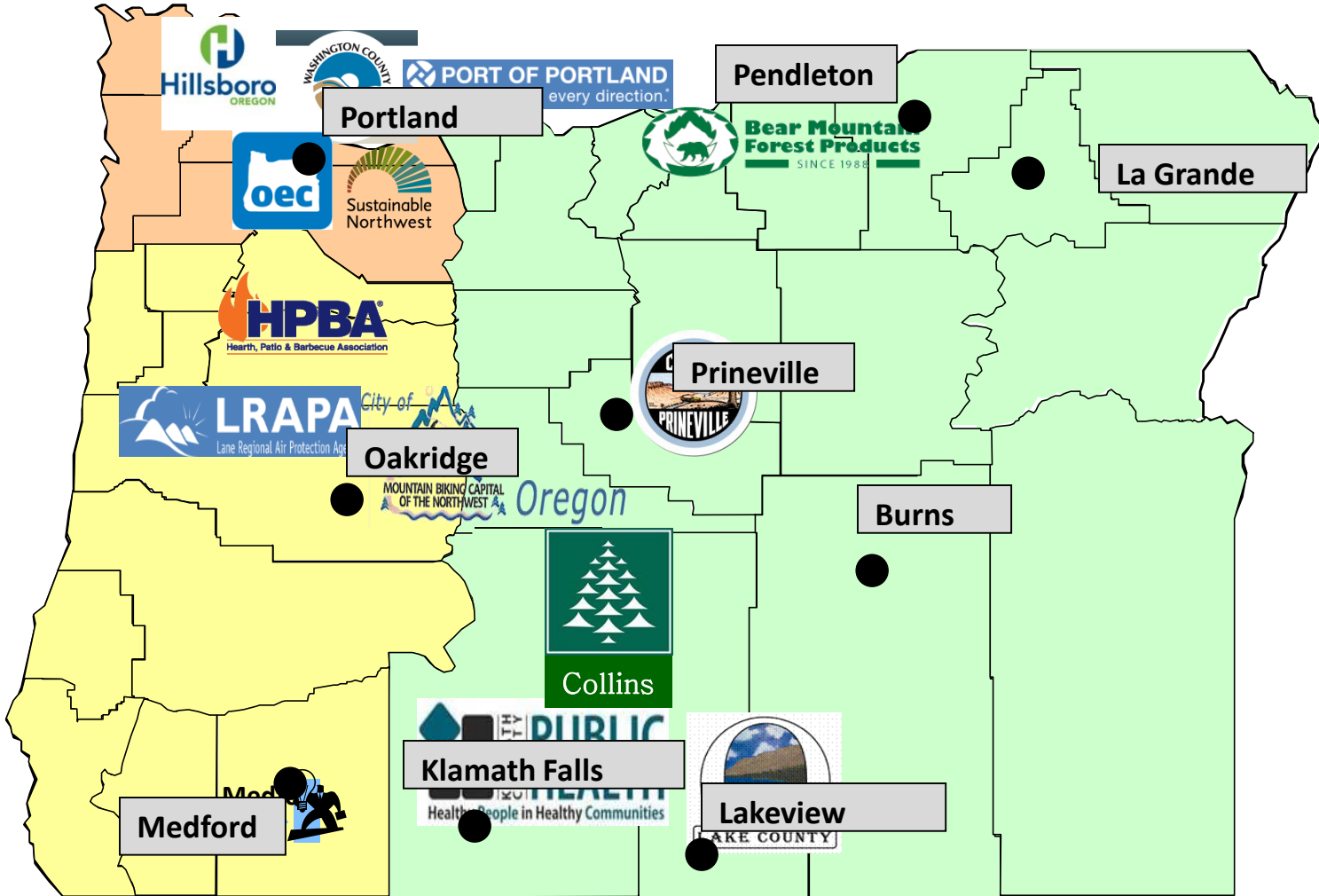


Biomass fuel – pellets & biobricks



Reduce cost of woodstove alternatives during poor air quality days

Woodsmoke Workgroup - membership



State of Oregon
Department of
Environmental
Quality



Oregon Public Utility
Commission

Recommendations

- 1) Funding for local communities to implement wood smoke reduction programs
 - Woodstove curtailment



Recommendations

1) Funding for local communities to implement wood smoke reduction programs (continued)

- Expand education and outreach
- Pursue grants and matching funds



Recommendations

2) Sustained funding for woodstove changeout programs

- In the past, have had one-time only grants:
 - American Recovery and Reinvestment Act (2009) - \$2M for Klamath Falls, Lakeview, Burns, Eugene, Springfield, Oakridge
 - Regional Solutions (2015) - \$1.5M – Klamath Falls, Lakeview



Recommendations

2) Sustained funding for woodstove changeout programs (continued)

Potential reductions from woodstove changeout

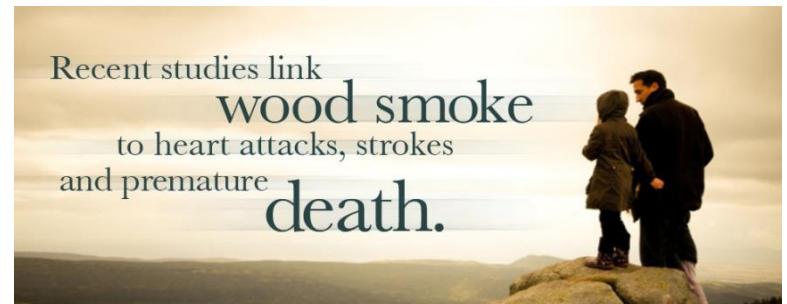
Change out Funding	# of stoves replaced ^[1]	Estimated PM2.5 reduction (tons/yr)	Estimated air toxics ^[2] reduction (tons/yr)	Estimated VOC reduction (tons/yr)
\$1M	290	3.7	0.3	10.2
	700	8.3	0.8	24.5
\$3M	875	9.7	0.9	30
	2500	22.5	2.4	82.4
\$5M	1420	18	1.7	50
	4100	37	3.9	136.7

^[1] Assuming a mix of partial rebates and full rebates, and the devices changed out are replaced with a mix of certified woodstoves, pellet stoves, and gas or electric heating appliances.

^[2] Benzene, 15-PAH, and acrolein

Recommendations

3) Increase education and outreach across state on health effects of excessive wood smoke



Final Woodsmoke Report

<http://www.deq.state.or.us/aq/burning/docs/SB3068Report.pdf>