

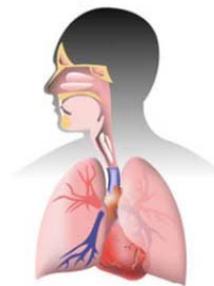
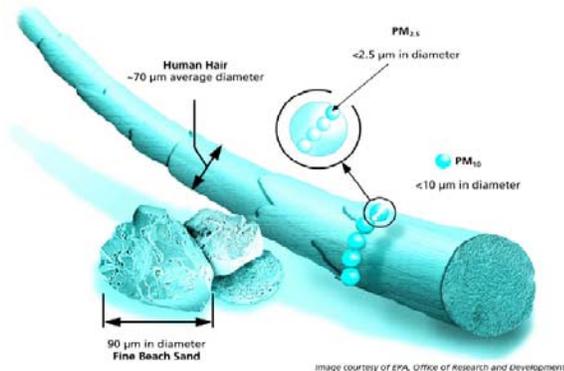


PM_{2.5} Nonattainment Area Klamath Falls, OR

Agenda Item G
Environmental Quality Commission meeting
October 22, 2009



What is Particulate Matter (PM)?



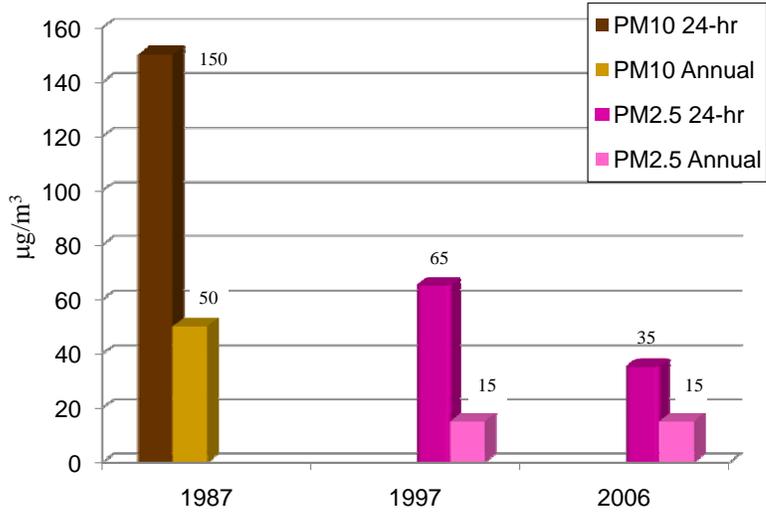
Particulate Matter

Health Effects

Air Quality Program



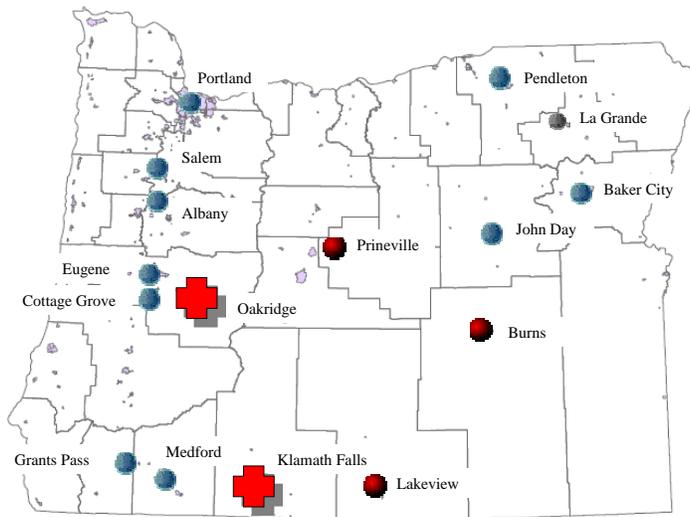
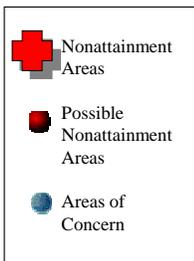
History of EPA's PM Standard



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PM_{2.5} Areas of Concern
(24-hr standard)

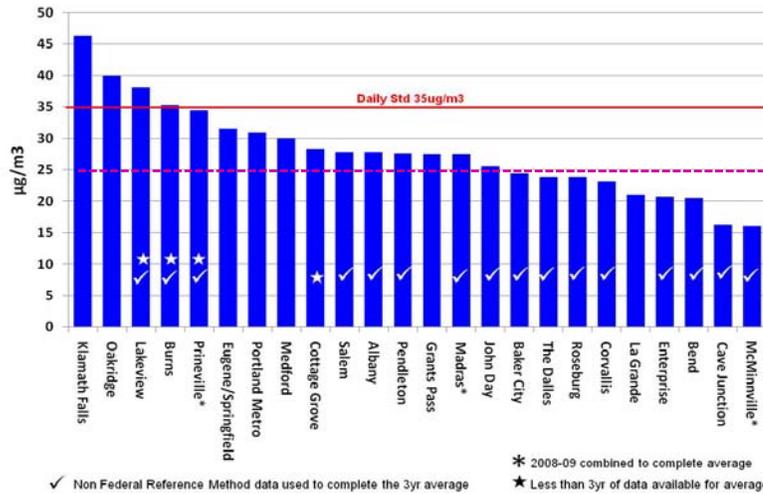


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PM_{2.5} Monitoring in Oregon Communities 2006-2008 data (24-hr standard)



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Quality

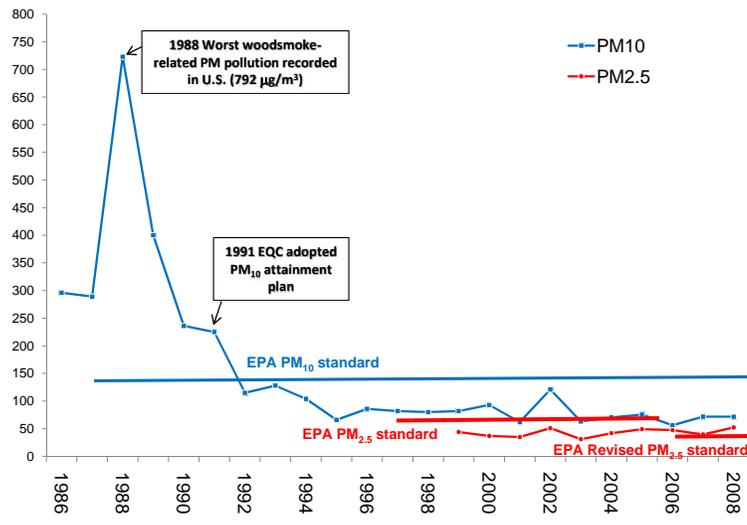
PM_{2.5} Community Outreach - Selected Areas

- Klamath Falls
 - Begin work on an attainment plan
- Lakeview (*former PM₁₀ nonattainment area*)
 - Wood stove changeout upon sale of home requirement
 - Open burning restrictions
 - Pursue woodstove change outs
 - Continue to implement woodstove curtailment
- Burns
 - Begin work in community
 - Voluntary wood burning curtailment
- Prineville
 - Begin work in community

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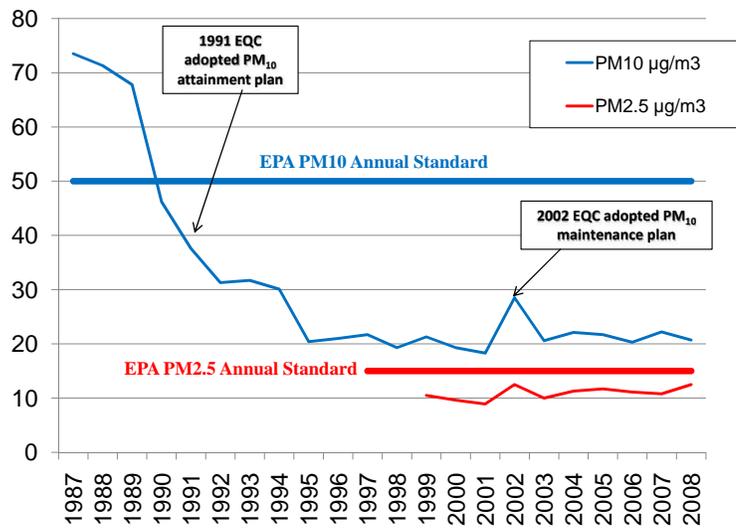
Particulate Matter Trend (24-hour) Klamath Falls



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Particulate Matter Trend (Annual) Klamath Falls



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Klamath Falls PM₁₀ Attainment Plan

- 1991 – EQC adopted PM₁₀ attainment plan
 - Included emission reduction strategies:
 - Woodstove curtailment
 - Open burning curtailment
 - Winter road sanding controls
 - Public education programs
 - Forestry agreement
 - Agricultural agreement
- 1994 - Klamath Falls complied with the standard
- 2002 – EQC adopted PM₁₀ maintenance plan



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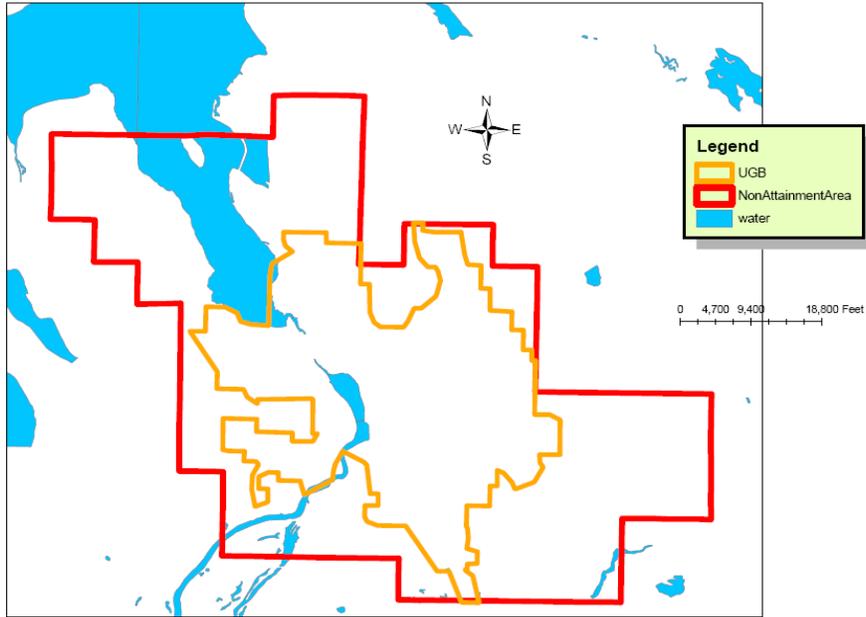


Revised PM_{2.5} Standard and Nonattainment

- Klamath Falls is in violation of the revised (2006) PM_{2.5} daily standard
- Required: An attainment plan for Klamath Falls
- If Klamath Falls fails to come into compliance
 - Transportation funds can be withheld
 - Contingency measures will be implemented

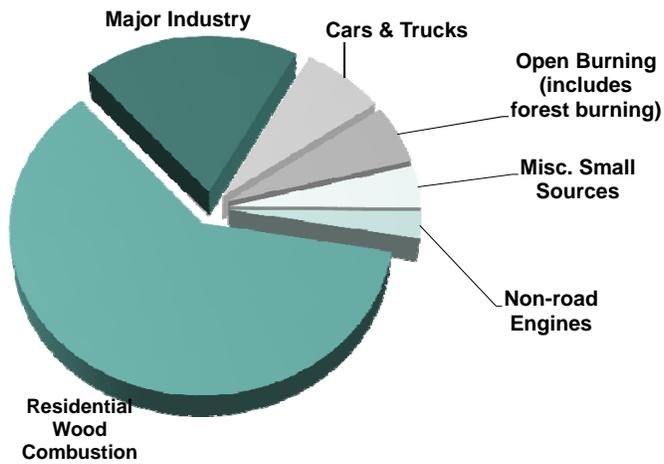
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Klamath Falls - Nonattainment Area



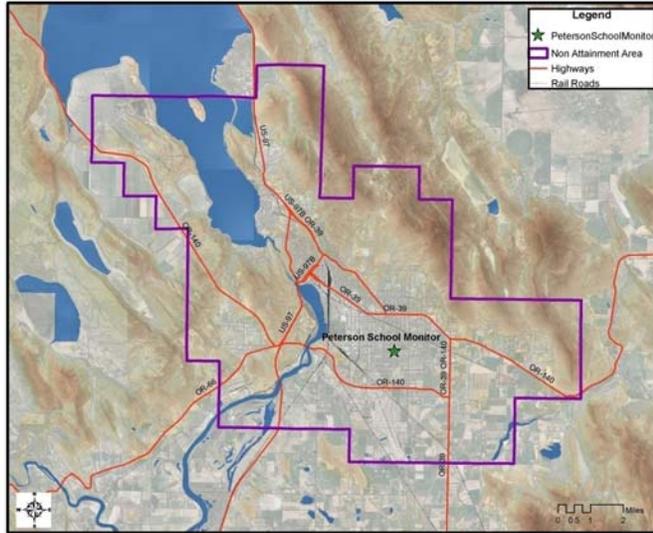
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Source Characterization 24-hr PM2.5 Worst Case Day Estimate (2005 data)



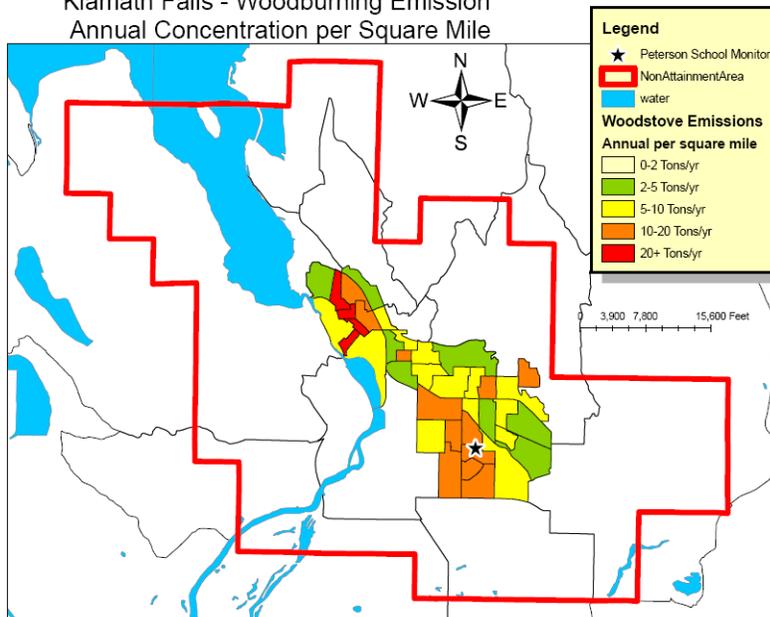
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Traffic & Commuting Patterns



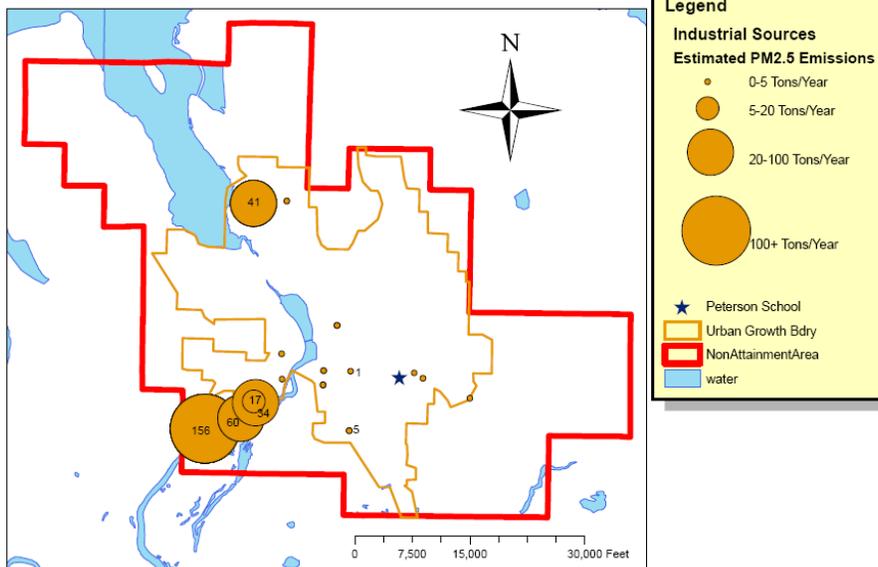
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Klamath Falls - Woodburning Emission
Annual Concentration per Square Mile



Air Quality Program

Klamath Falls Industrial Sources of PM2.5



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Reduction Strategies Currently Underway

- Klamath County revised their Clean Air Ordinance (August 2007):
 - Revised woodstove curtailment levels
 - Required removal of uncertified woodstove upon sale of home
 - Open burn – 2 periods, 15 day windows - AQZ
 - Tightened enforcement



DEQ and Klamath County formed a science and technical advisory committee (January 2008)

Air Quality Program



Additional Emission Reduction Strategies

- DEQ and Klamath County will form an emission reduction strategy advisory committee
 - early 2010
- Possible future emission reduction strategies:
 - Further revision of the county ordinance
 - Further state-implemented restrictions on woodstoves
 - Further industrial restrictions
 - Compliance measures for transportation

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Timeline - PM_{2.5} Standard

Milestone	Deadline
Effective Date of Standard	Dec. 18, 2006
State Recommendations to EPA	Dec. 18, 2007
Final Boundary Determination	Dec. 22, 2008
Effective Date of Designations	90 days after Federal Register publication
SIPs Due	3 years after designation
Attainment Date	5 years after designation
Attainment Date with Extension	10 years from designation



State of Oregon
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EQC Involvement

- 2012 - EQC will decide whether to adopt the attainment plan and rules

