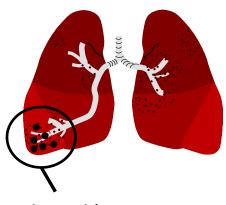
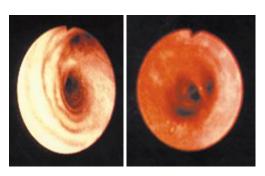
Air Pollutants of Concern in Oregon

Particulate Matter



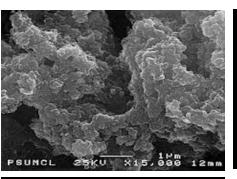
Fine particles enter deeply into the lungs

Ground Level Ozone



Healthy Airway Inflamed Airway

Toxic Air Pollutants



Diesel Particulate

Industrial metals Graphic?

Benzene

Metals

Pollution Affecting
Climate Change (GHG)/
Ecosystems



Air Quality Program



Federal – State Roles

Clean Air Act

Oregon Initiatives

Criteria **Pollutants**

EPA Health Standards

Ozone, PM, Lead, CO, SO2, NO2 DEQ: monitors, works with at risk communities to meet standards (prevention and nonattainment)

Air Toxics

No federal health standards for air toxics

EPA Industrial Air Toxics Technology Standards (NESHAPs)

New Source and Existing Source Performance Standards

NESHAPs can also cover small businesses

(DEQ implements)

ACDP

Industrial Source **Permitting**

Title V **Operating Permits** (for larger industries)

(Permits) (for smaller industries)

Motor **Vehicles**

Federal Motor Vehicle Emission Stds (Cars & Trucks)

> **Federal** Fuel Stds. Gasoline & Diesel (low sulfur)

Air Toxics

DEQ AQ Health **Benchmarks**

monitoring studies (air quality, source identification. & health risks)

> Program. (vehicles, engines)

Program Reform.

Motor **Vehicles**

Special

Clean Diesel

Ind. Source **Permitting**

Climate Change

Clean Cars Clean **Program Power** Plan

Vehicle Inspection Clean **Fuels** Maintenance (low carbon)

> Legislative **Initiatives** (i.e. Cap & **Trade Study**

GHG **Emission** Reporting

Federal – State Roles

Clean Air Act

Oregon Initiatives

Criteria **Pollutants**

EPA Health Standards

Ozone, PM, Lead, SO2. NO2 DEQ: monitors. works with at risk communities to meet standards (prevention and nonattainment)

Air Toxics

No federal health standards for air toxics

EPA Industrial Air Toxics **Technology Standards** (NESHAPs)

Industrial Sources

EPA New Source and **Existing Source** Performance Standards (NSPS, 111(d))

Title V **Operating Permits** (for larger industries)

ACDP (Permits) (for smaller

industries)

Motor **Vehicles**

Federal Gasoline & Diesel **Engine Standards**

Air Toxics

DEQ AQ Health **Benchmarks**

Special monitoring studies (air quality, source identification. & health risk)

Clean Diesel Program.

Clean Cars Program

> Vehicle Inspection Maintenance

Motor Climate **Vehicles** Change

> Clean Power Plan

> > Clean **Fuels**

Legislative **Initiatives** (i.e. Cap & **Trade Study**

GHG **Emission** Reporting

Multi-Pollutant Connections and Strategies Across spectrum of air quality work are opportunities for multi-pollutant reduction.

Woodstove Strategies Reduce: Fine Particulate + Air Toxics Clean Diesel Reduces: Air Toxics + Fine Particulate + Climate Change pollution Industrial emission standards & permitting can reduce: Criteria pollutants + air toxics + visibility impairing pollution Clean vehicles/VIP reduce: ozone + GHG + air toxics



Assessing Air Quality

2013 Oregon Air Quality Monitoring Network

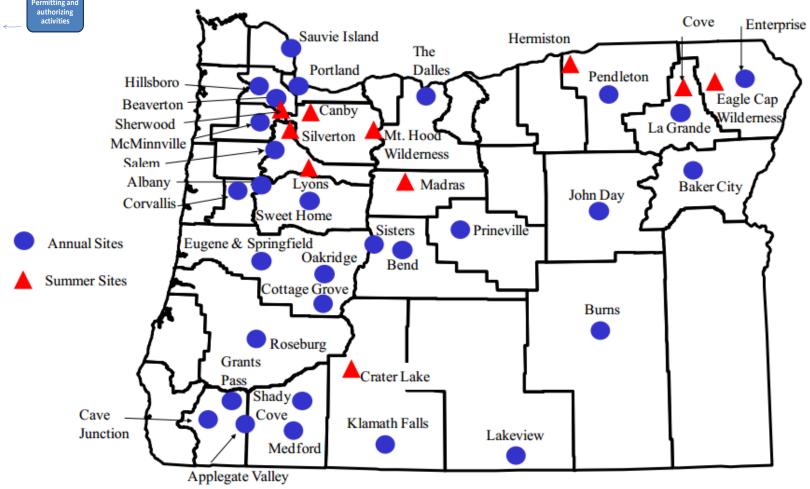


Figure 76. 2013 Ambient Air Monitoring Network.

Air Toxics Monitoring



Air toxics monitoring equipment

Year-long assessments

- Hillsboro
- North Portland

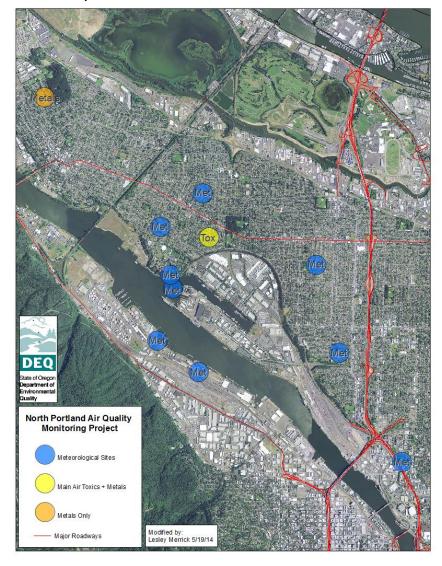
Longer-term monitors

- Portland
- La Grande

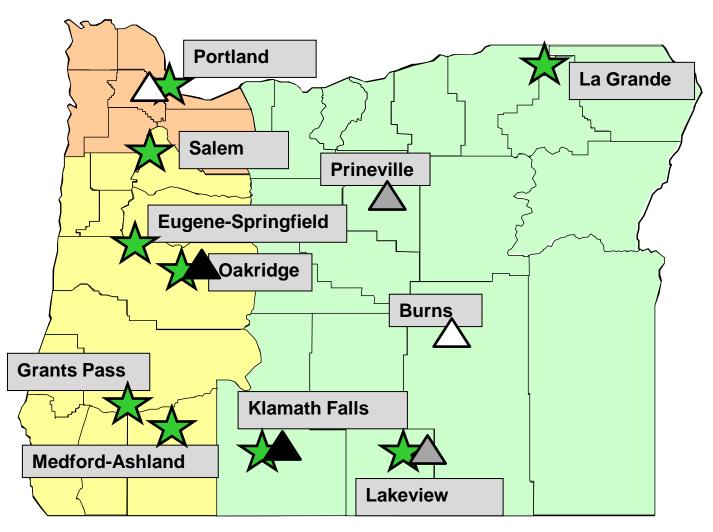
Special Studies

SW Portland, North Portland

Community air toxics assessment in North Portland



Progress Meeting Federal Air Standards

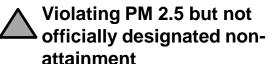


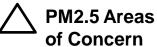


Ozone and PM10 attainment & maintenance areas



PM 2.5 nonattainment areas





Merlyn's Presentation

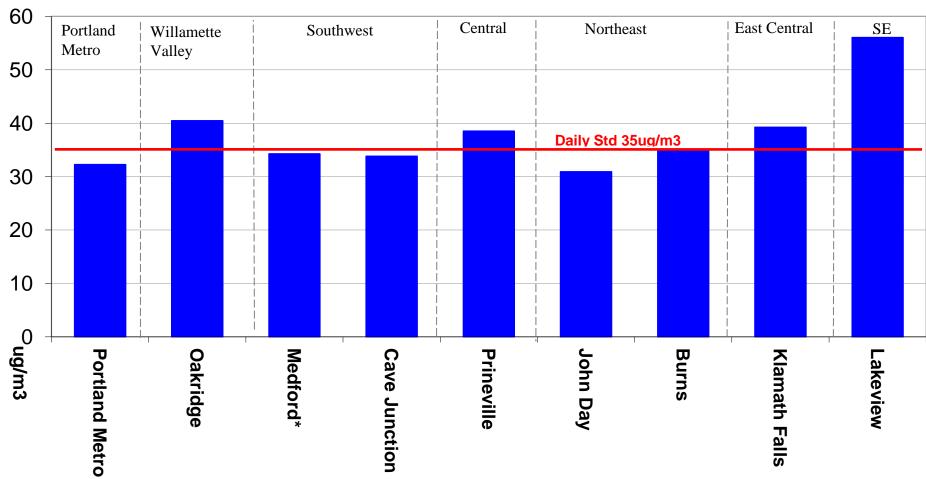
Multipollutant Opportunities

	Particulate	Air Toxics	Ozone	Greenhouse Gases	Regional Haze/Visibility
Clean engines	√	√	√	√	√
Clean fuels	√	√	√	√	
	√	√			
Smoke controls Industrial	√		√	√	

Back Pocket Slides

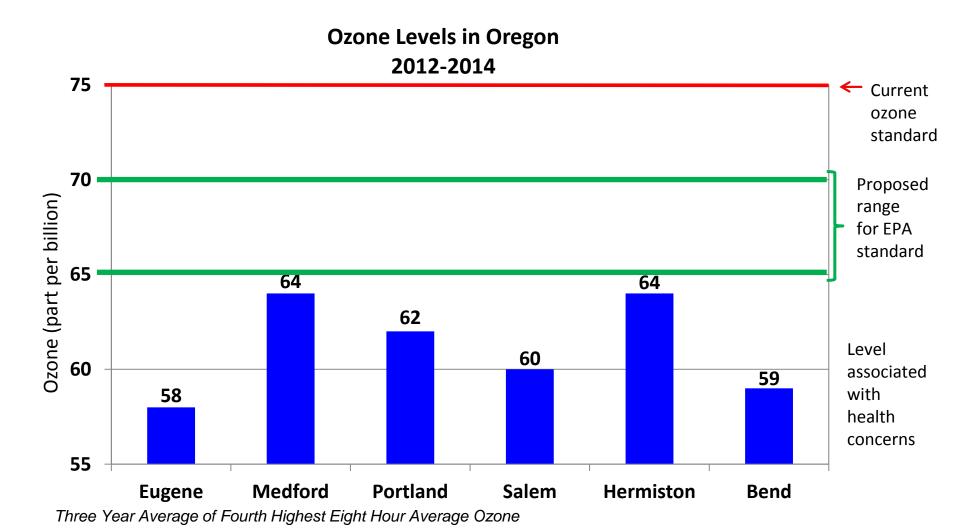
Particulate Pollution Statewide

2011-2013 Oregon Cities Compared to the Daily PM_{2.5} Standard

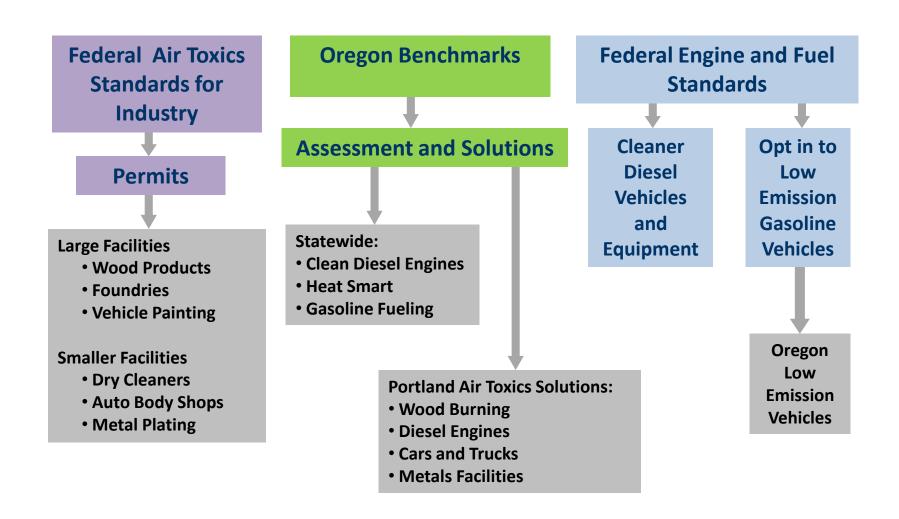


^{*} Without 2013 Forest Fire Days

Ozone Pollution Statewide



Oregon's Air Toxics Program



Federal – State Roles

