

# **Air Quality in the Puget Sound Airshed: Our Diesel Dilemma**



**Amy Fowler**  
**September 29, 2010**

**WCC Partners' Meeting**

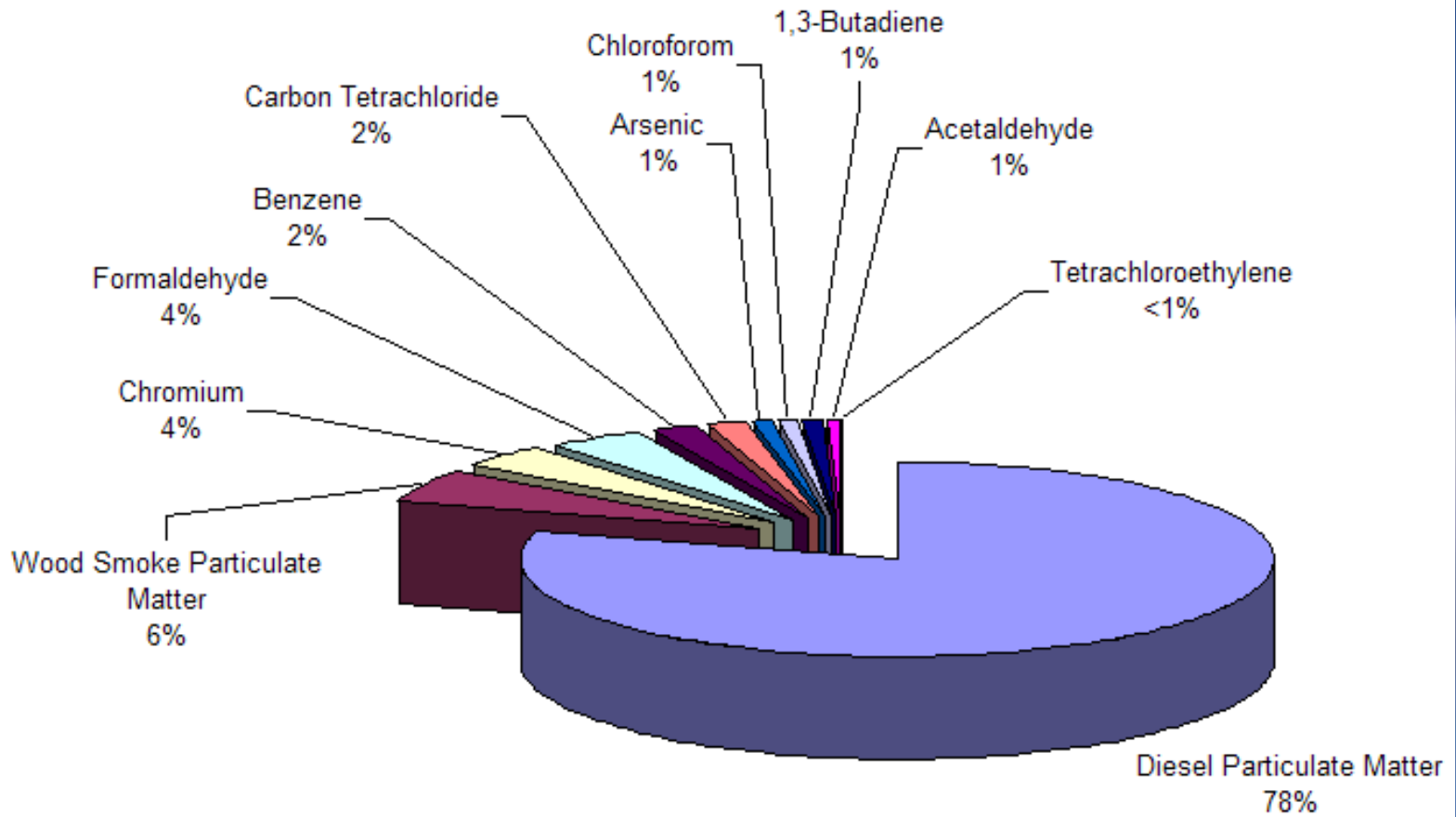


# **NAAQS: Not a Primary Driver for Our Diesel Emission Reduction Efforts**

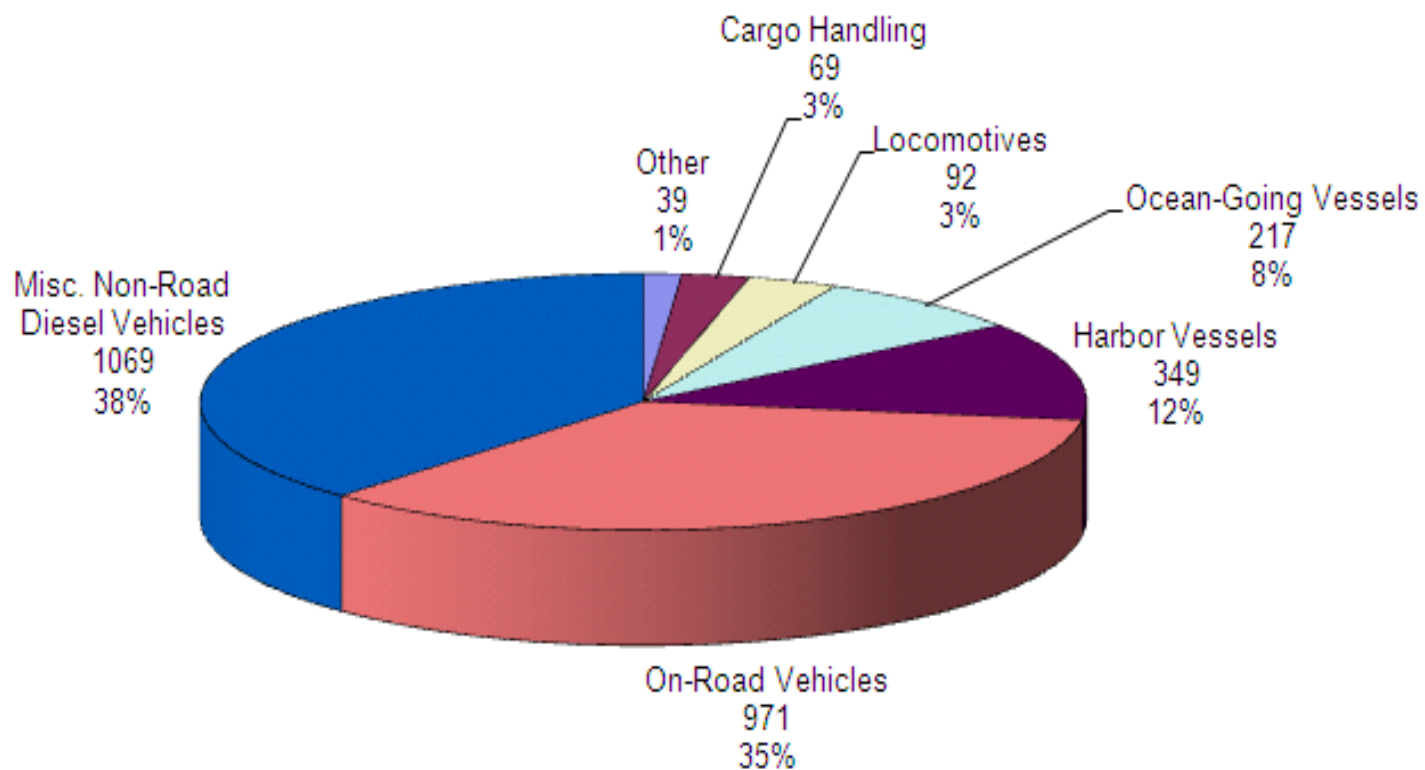
- **Non-attainment for PM2.5 in Tacoma-Pierce County**
  - **Woodsmoke is primary contributor**
  - **Diesel contributes, but doesn't drive non-attainment**
- **Ozone non-attainment expected with new standard**
  - **Emissions profile & chemistry differ from California**
  - **VOC limited, according to previous modeling**
- **For us, it's all about toxics**

# Air Toxics and Cancer Risk

**Greatest Air Toxics Contributors to Potential Cancer Risk  
Puget Sound Air Toxics Evaluation (2003)**

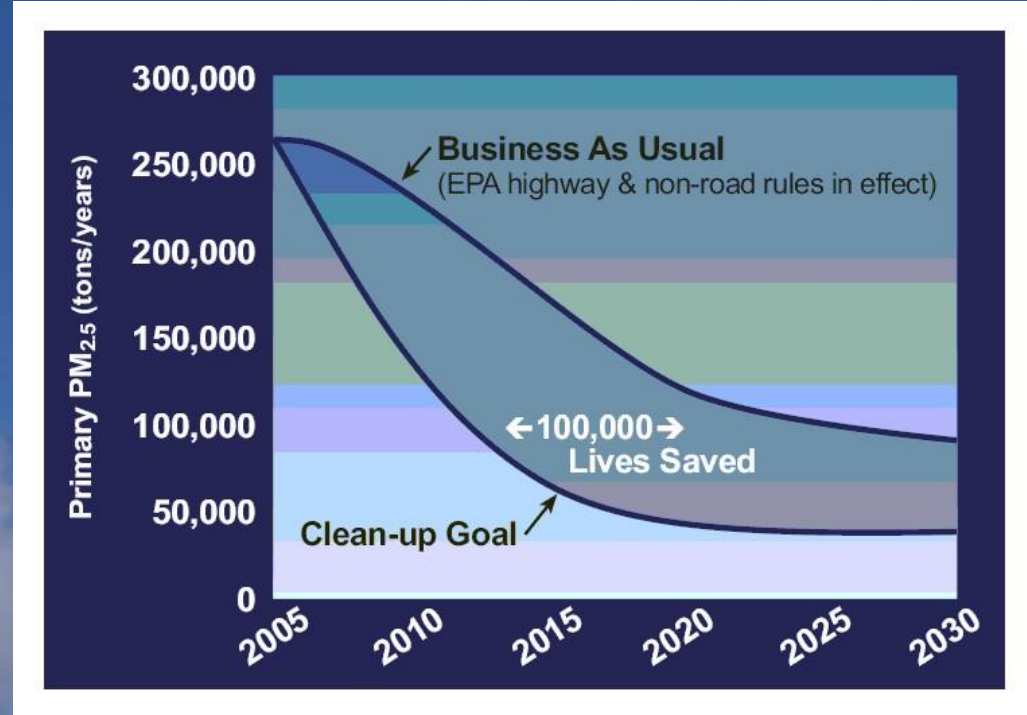


# Primary Sources of Diesel Emissions (from 2005 EI)



# Needs & Challenges

- More money
- Elevated toxics risk doesn't always match non-attainment area but EPA prioritizes non-attainment in awarding grants
- Protecting public health vs. meeting NAAQS
- Business-as-usual takes too long to reduce emissions and thus risk
- Additional fed rules needed or we'll all find our own way
- More money



# Incentive Programs at Various Levels

- **Federal DERA grants (we've received 5 to-date)**
- **State funding**
  - \$5M/yr sunsetted in 2008
  - Other smaller grants as available
- **Local funding: ~\$3M from Port of Seattle over 2 years**
  - Pre-1994-engined drayage truck scrappage program (“bucks for big rigs”)
  - Cargo-handling equipment retrofit grant match
  - At-Berth Clean Fuels program for ocean-going vessels

# **DERA/ARRA:**

## **The Good, the Bad, the Unexpected**

- **ET engine upgrade kit on fishing vessel**
- **ET Seawater scrubber on local dinner cruise boat**
- **ET DOC retrofits on tugboat**
- **Cargo-handling equipment retrofits**
- **Locomotive engine replacements**

# Current/Proposed Rules

- Pursuing state funding from stormwater bill (linkage to air deposition of toxics that pollute Puget Sound)
- Other local agencies pursuing indirect source rule to regulate large diesel facilities like rail yards