

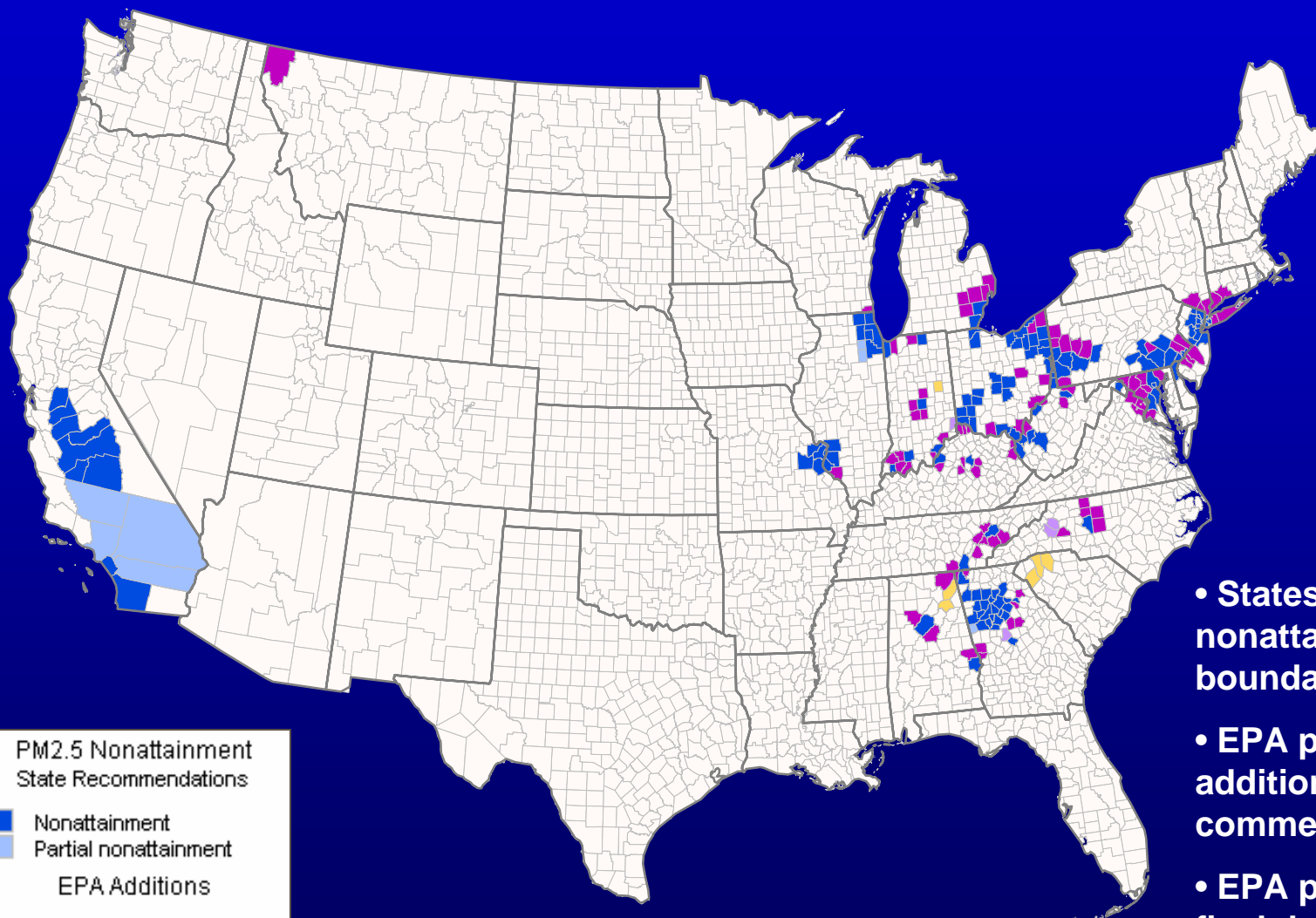
US EPA ARCHIVE DOCUMENT

Particulate Matter and Science: *A Regulatory Perspective*

Jeffrey R. Holmstead
Assistant Administrator,
U.S. EPA, Office of Air & Radiation



EPA must formally designate PM_{2.5} areas before the end of the year



PM_{2.5} Nonattainment State Recommendations

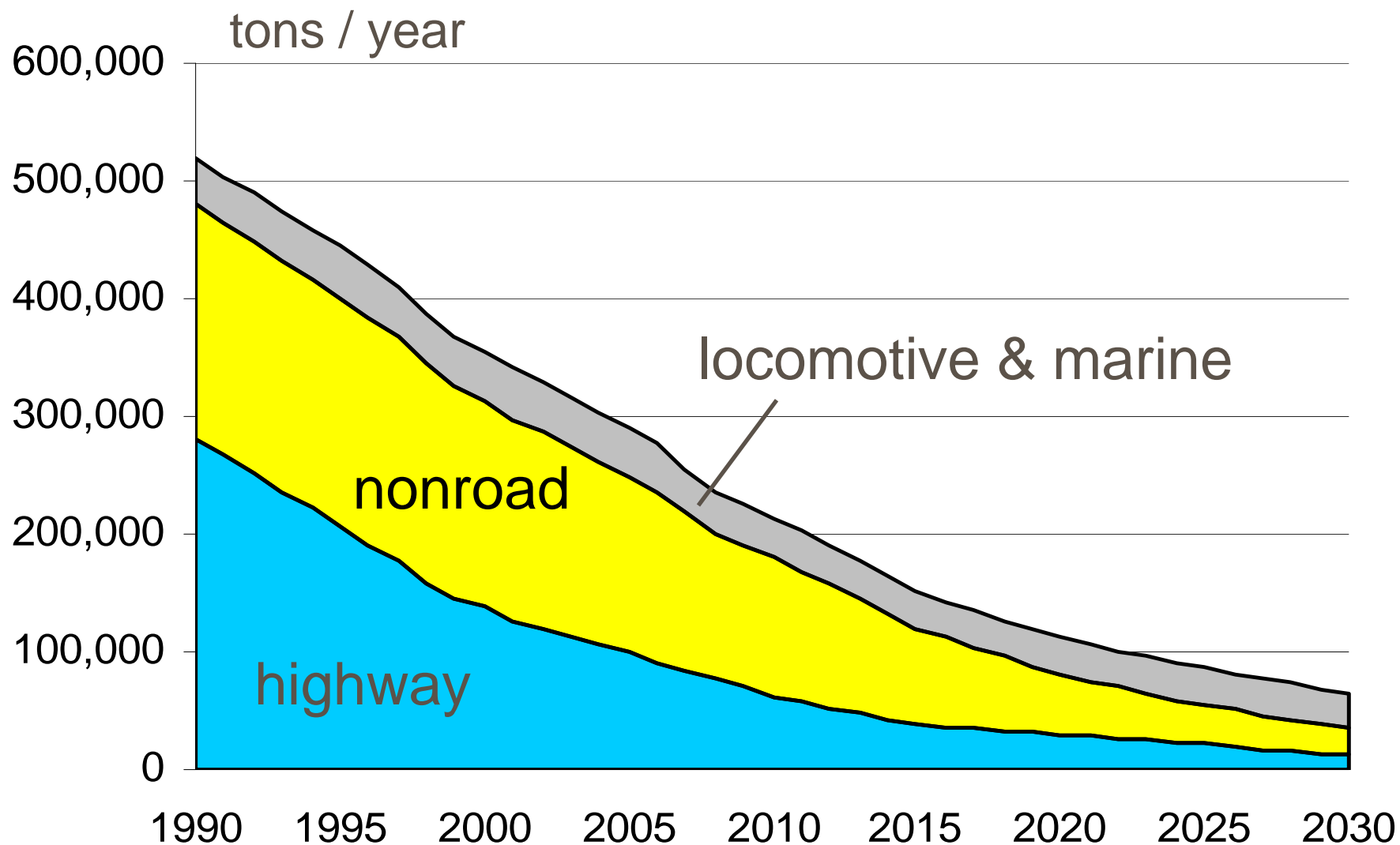
- Nonattainment
- Partial nonattainment

EPA Additions

- Nonattainment
- Partial nonattainment
- Unclassifiable
- Attainment/Unclassifiable

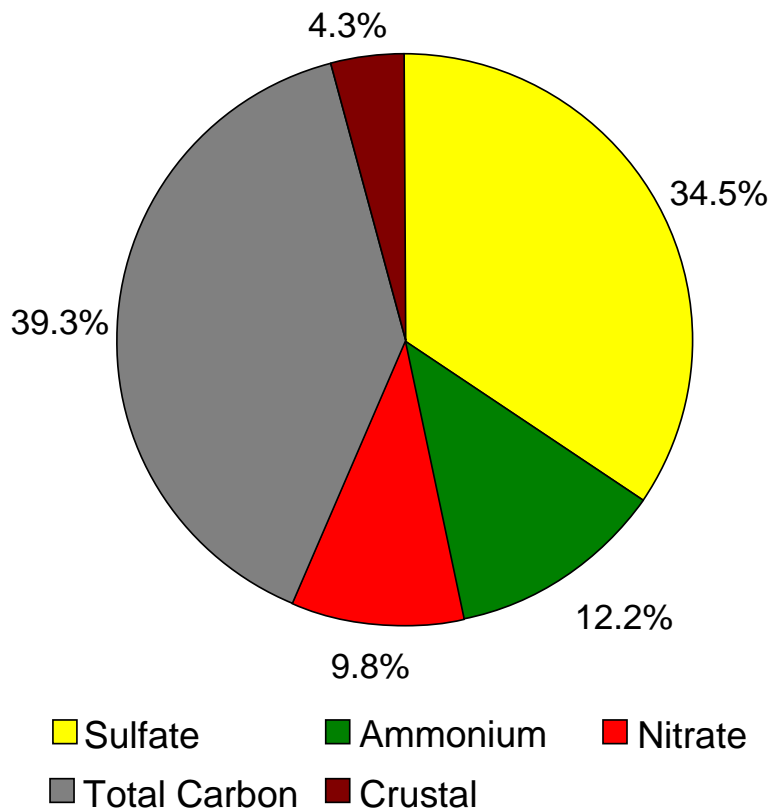
- States recommend nonattainment area boundaries
- EPA proposes additional counties for comment
- EPA promulgates final designations

Impact of Mobile Source Programs on Diesel PM_{2.5}

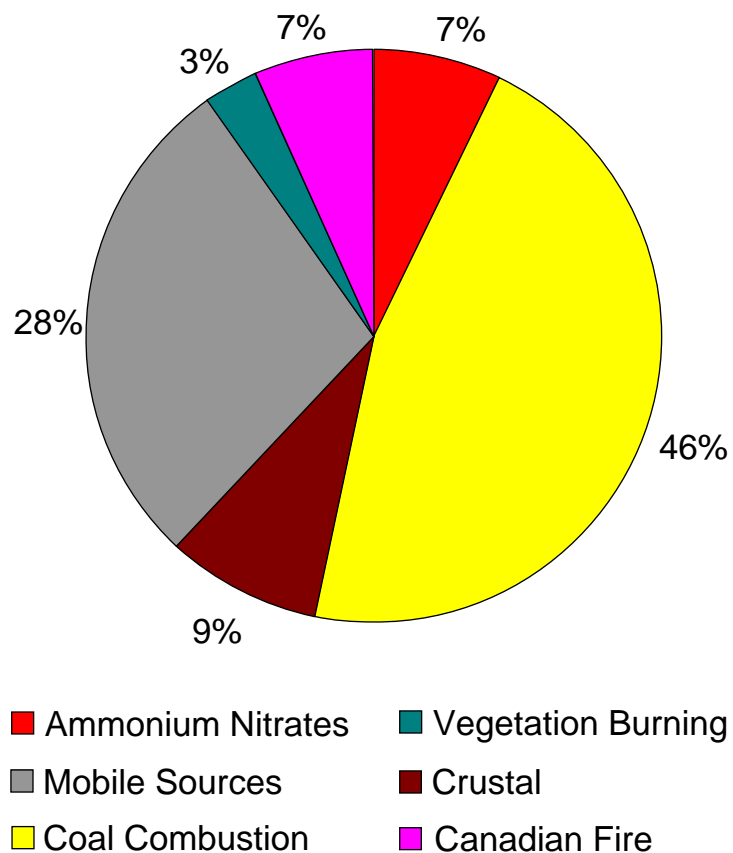


Identifying Sources of Fine Particles in Washington, D.C.

Composition of PM2.5 2001-2



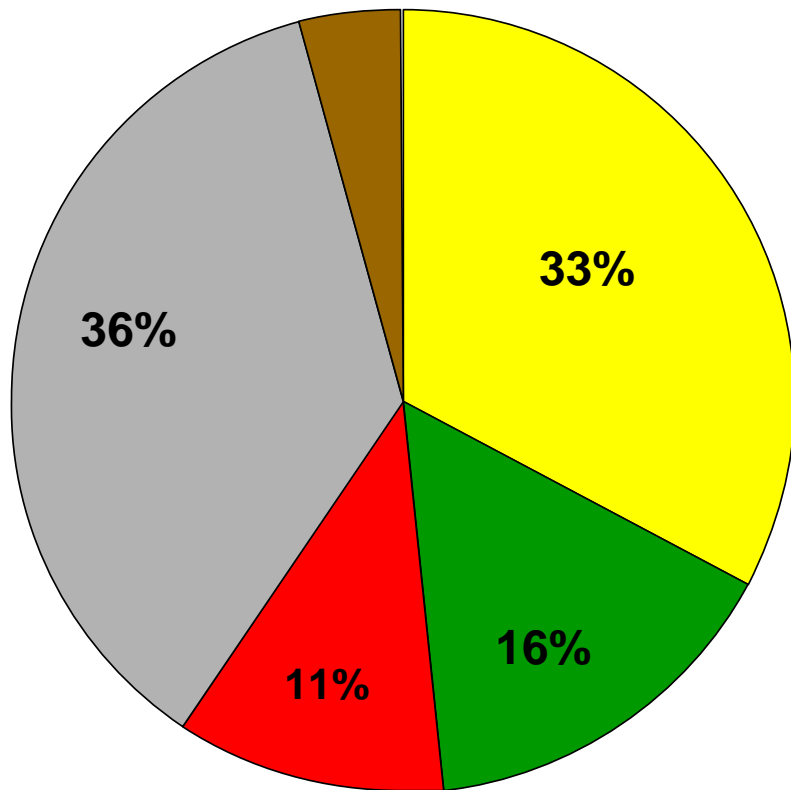
Source Apportionment Results*



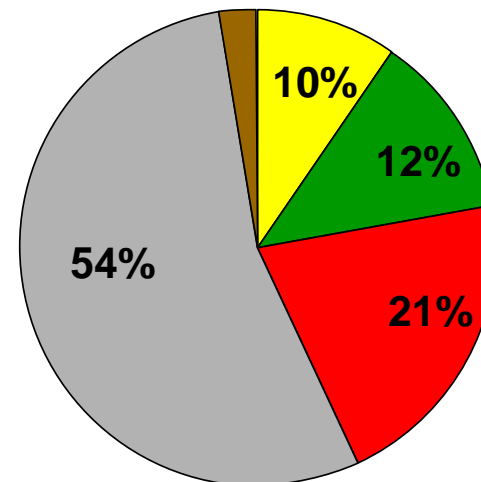
*EPA staff estimates reflect recent emissions and ambient data, and are subject to a number of measurement, analytical, and modeling uncertainties.

Urban PM2.5: Urban and Regional Components in Baltimore

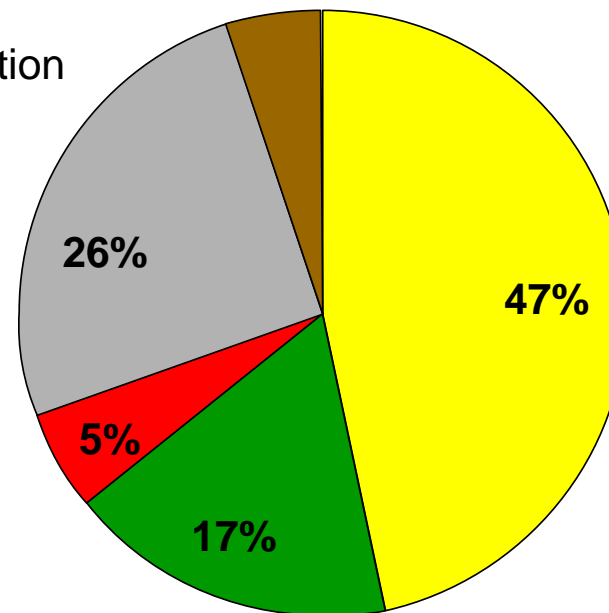
Urban Composition
(PM2.5 ~17ug/m3)



Urban Increment
~6ug/m3



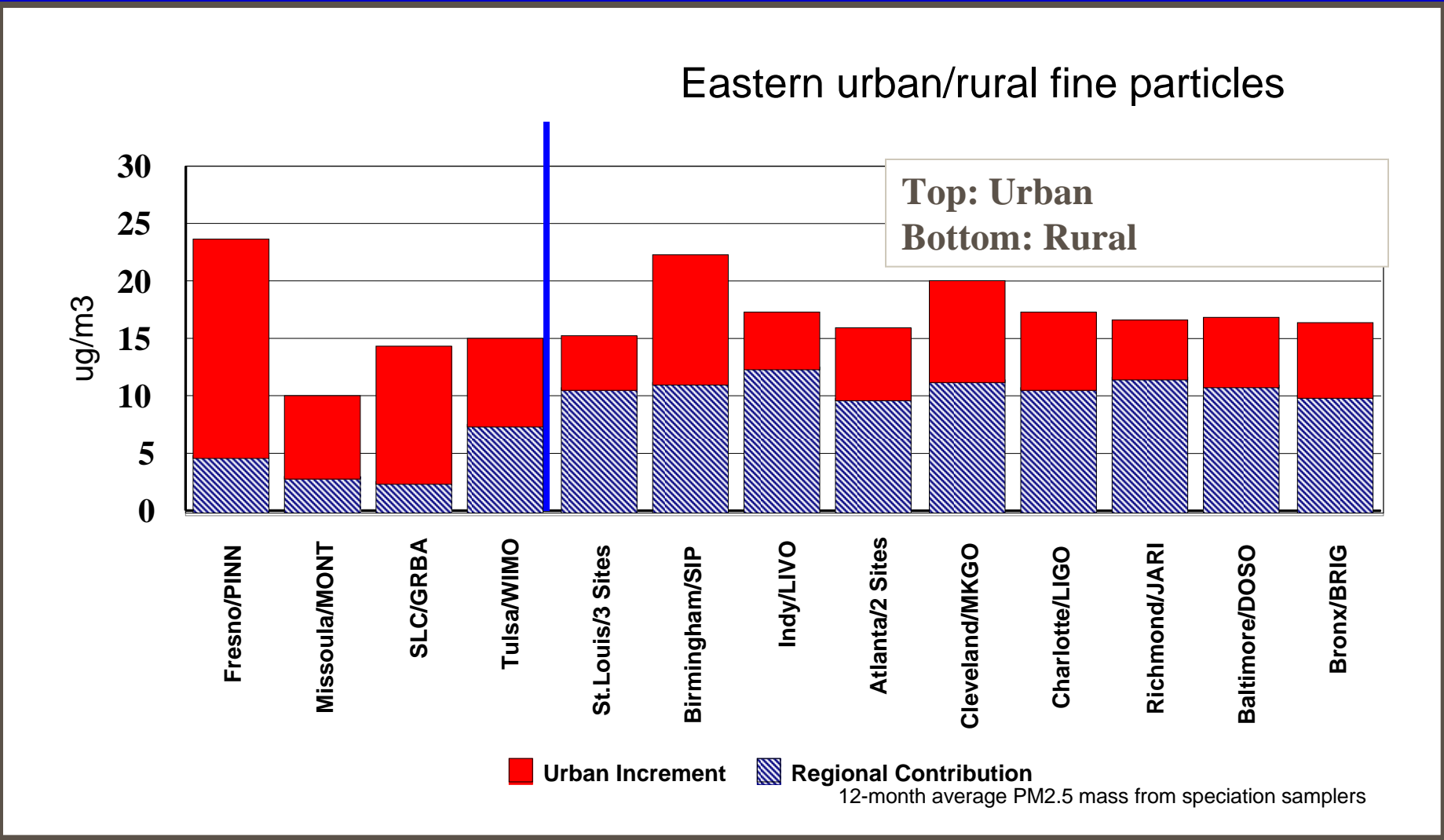
Regional Contribution
~11ug/m3



- Total carbonaceous material
- Sulfate
- Crustal
- Estimated Ammonium
- Nitrate

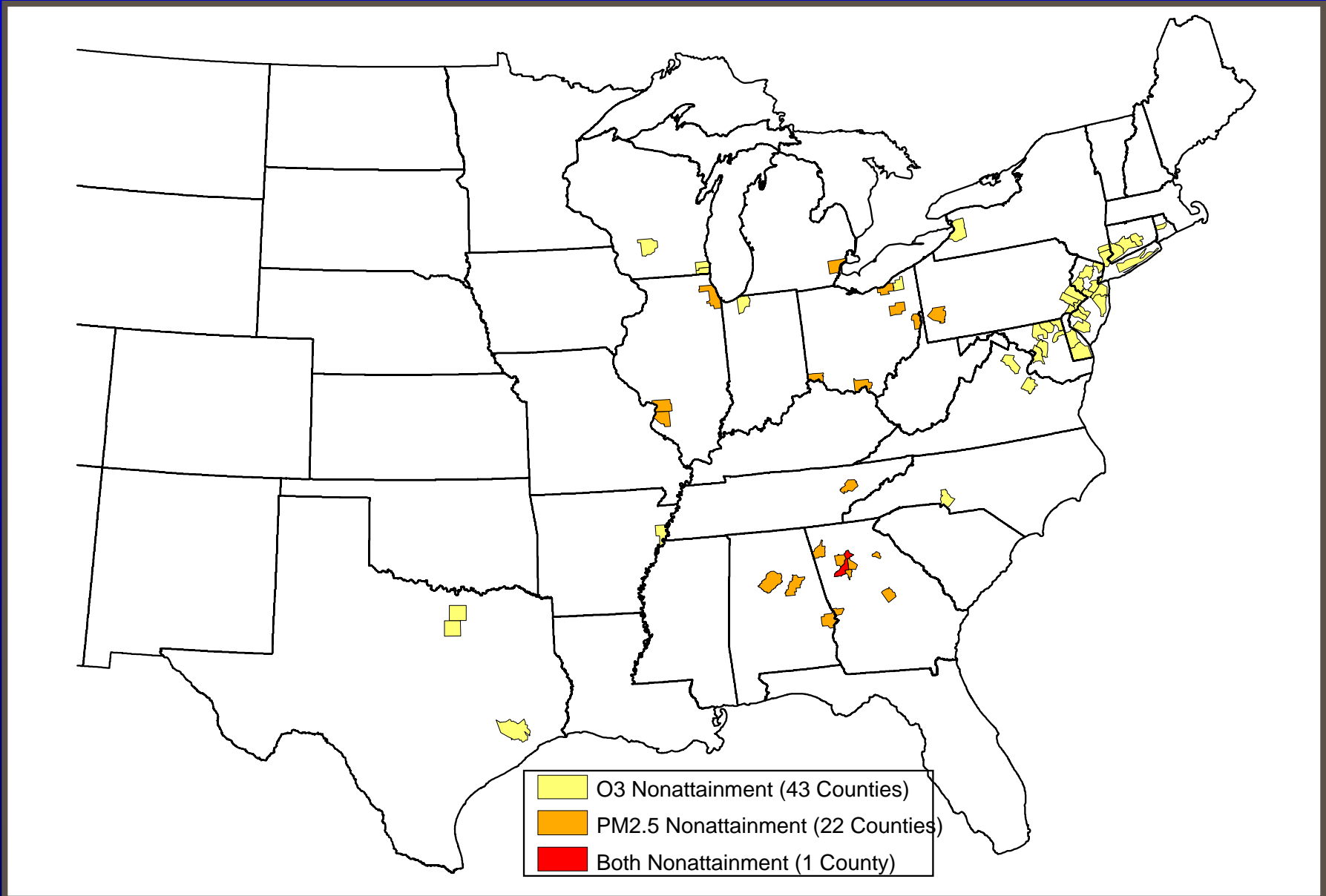
March 01 – Feb 02

In the East, transport is a major fraction of PM2.5



Source: 2002 EPA Trends Report http://www.epa.gov/air/airtrends/chem_spec_of_pm2.5_b.pdf

CAIR Proposal: 2010 Control Case Projection of 8-Hour Ozone and Annual Average PM2.5 Nonattainment in the East



CAIR Proposal: 2015 Control Case Projection of 8-Hour Ozone and Annual Average PM2.5 Nonattainment in the East

