

Andy Darrell, Regional Director



ENVIRONMENTAL DEFENSE

finding the ways that work

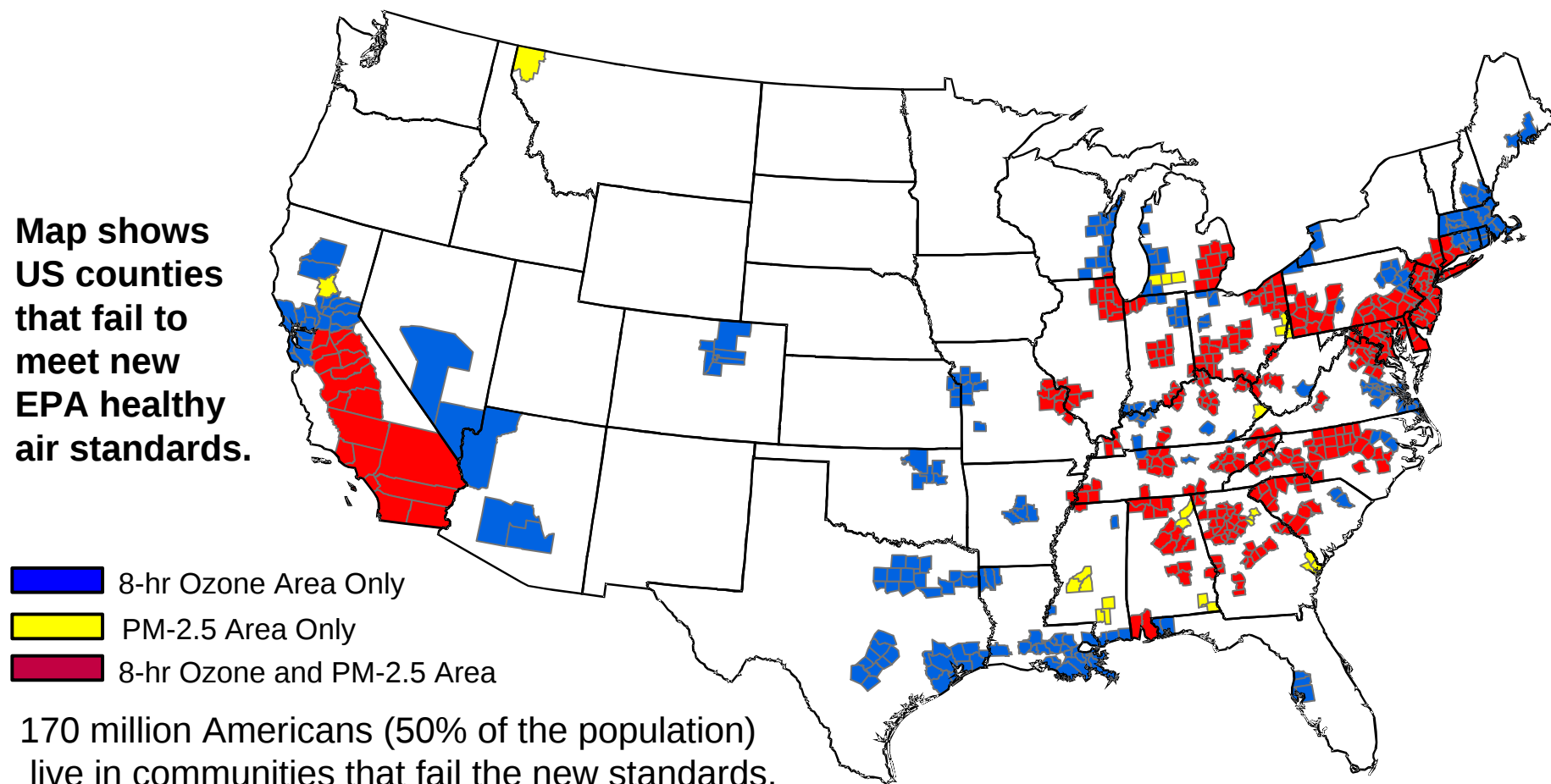
October 26, 2005

Hot Spots for Health: The Importance of Local Action



You Are Here

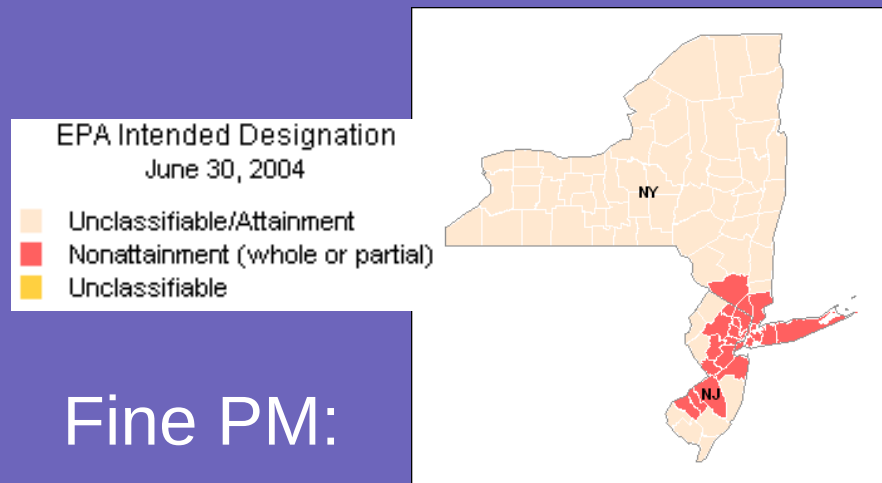
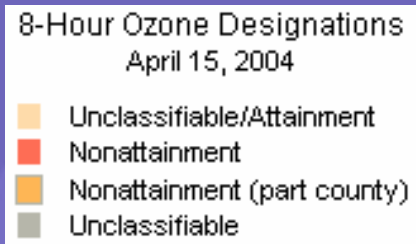
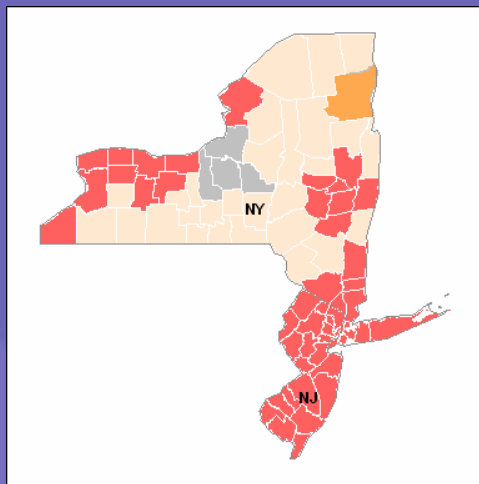
Map shows
US counties
that fail to
meet new
EPA healthy
air standards.



New York counties are not meeting public health based air quality standards

Ozone:

- 30 nonattainment counties (almost half of NY's 62 counties)
- 85% of the population



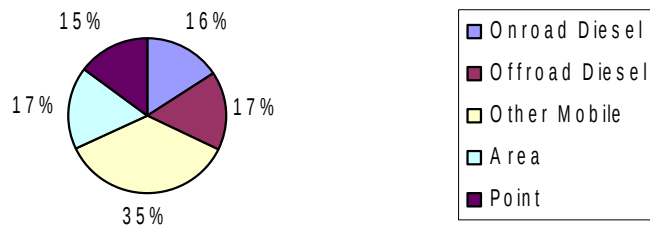
Fine PM:

- 10 non-attainment counties
- 65% of New York's population
- 12,000,000 residents

188,596 kids in New York City with asthma

Tailpipes are a major source of pollution in urban areas

NYC NOx Emissions from all sources, 1999 (238,443 tons)



NYC NOx emissions from mobile sources, 1999 (162,262 tons)



Tailpipes in New York City:

- Over 80% of air cancer risk
- Over 65% of local NOx emissions

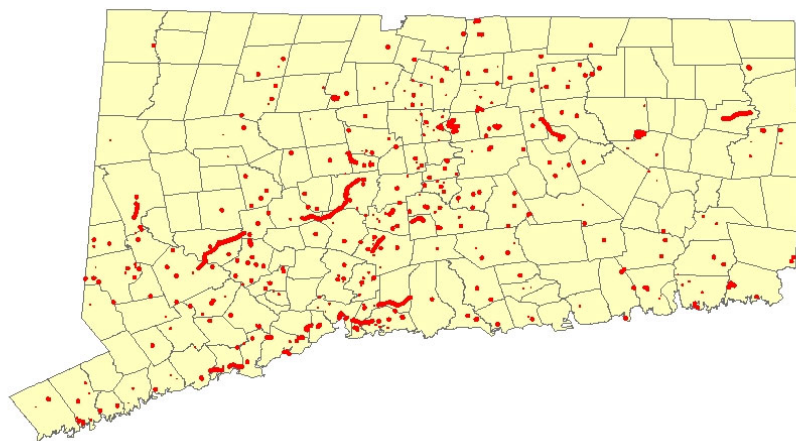
Federal Solutions: A Generation Away

- Gaps in Federal Law
- Long Life for Existing Fleets
- Rising Congestion and Hot Spots



Identifying Hot Spots

Diesel Hotspots of Connecticut



Legend
■ Risk Zone Model #1
■ municipalities

The number size of the risk zones are displayed into 3 categories based upon an analysis by Socio-Airport Study of CTR. The sizes are 100 meters, 250 meters, and 500 meters.



Diesel Hot Spots from
Construction in Connecticut

NY/NJ Port and Freight Corridors

When is a Mobile Source
more like a Point Source?
When it is in a Hot Spot

- 89% higher asthma risk near freeways (USC, 2005)
- Ports, Freight Routes, Truck Stops, Interchanges
- Atlanta: Reducing Traffic → Reducing Asthma Hospitalizations

Solution 1: Public Investment in Clean Technologies

**\$1 Investment
= \$12 Health Return**

Energy Bill
((\$1 billion authorization)

Transportation Bill
(access to \$2 billion)

Texas
(\$130 million/year)

California
(\$140 million/year)

New York City Local Laws
(Construction contracts and Public
Fleets)



→ Up to 90% pollution reduction

Solution 2: New Incentives: Which Ones Work Best in NY?



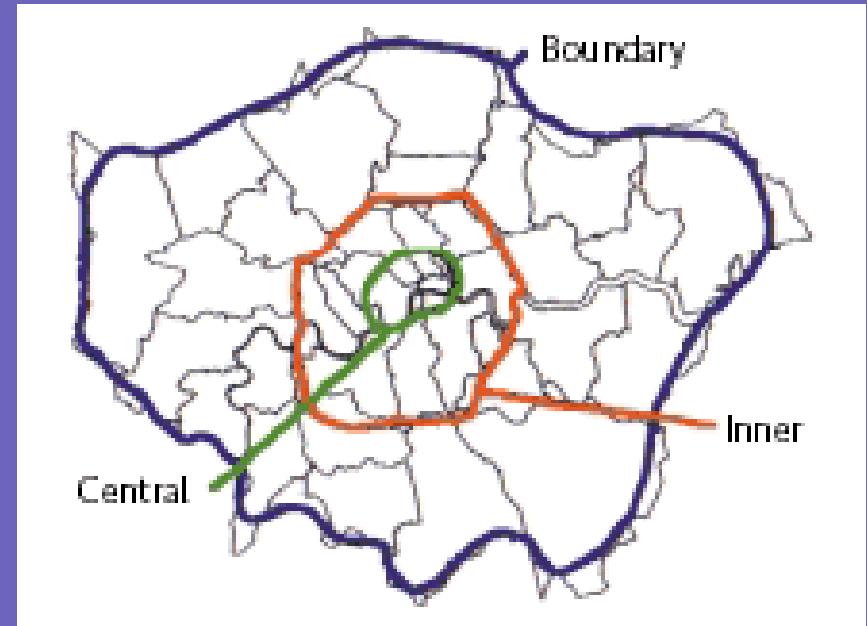
Trucks Delivering Material to WTC Site

- NYC Fleet Rules: “Best Available Technology” in all public contracts
- Financing: EPA Smartway for Freight Fleets
- Direct Investment in Cleaner Technologies

Solution 3: Taming Traffic

London's Track Record

- 30% cut in traffic congestion
- 20% cut in CO2 emissions
- 37% increase in transit use



London

Will it Work Here?

New York City Key Issues:

- Quantify Clean Air/Climate Benefits
- Identify Technologies
- Design Equity Benefits
- Transit Financing



Next Steps for Policy Research

NY Hot Spots

- Where are they?
Ports, Freight Corridors
- Solution Design: emissions caps
emissions-based incentives
- Partnerships and Incentives for
Private Fleets

Congestion Pricing

- Urban centers; major highways;
freight corridors

