

Mobile Source Emissions Reduction Grant Program



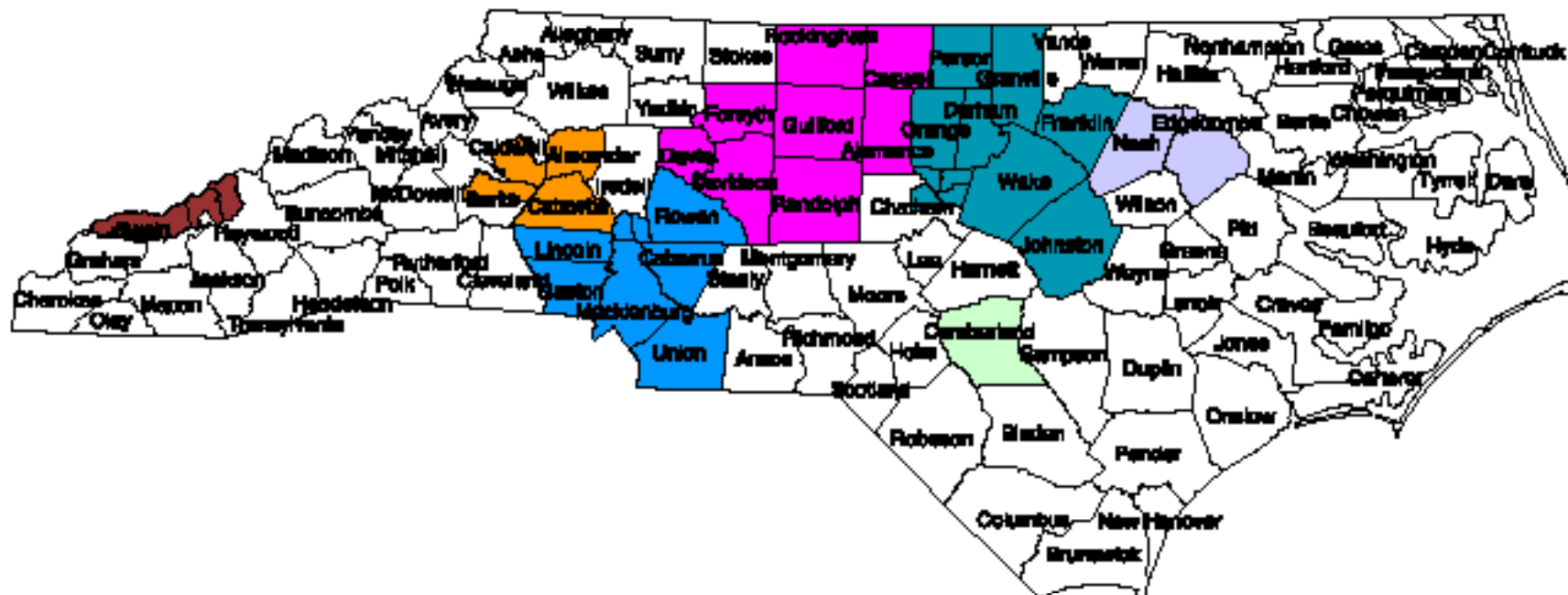
Anne S. Galamb

NC Division of Air Quality

Air Quality in North Carolina

- NC is currently meeting standards for nitrogen dioxide, sulfur dioxide, lead, and carbon monoxide.
- However, several areas in NC are violating Ozone and PM fine standards.
- New stricter ozone standard will mean more areas will violate - 2010

EPA's Boundary Designations for 8-Hour Ozone Standards for North Carolina (4/15/04)



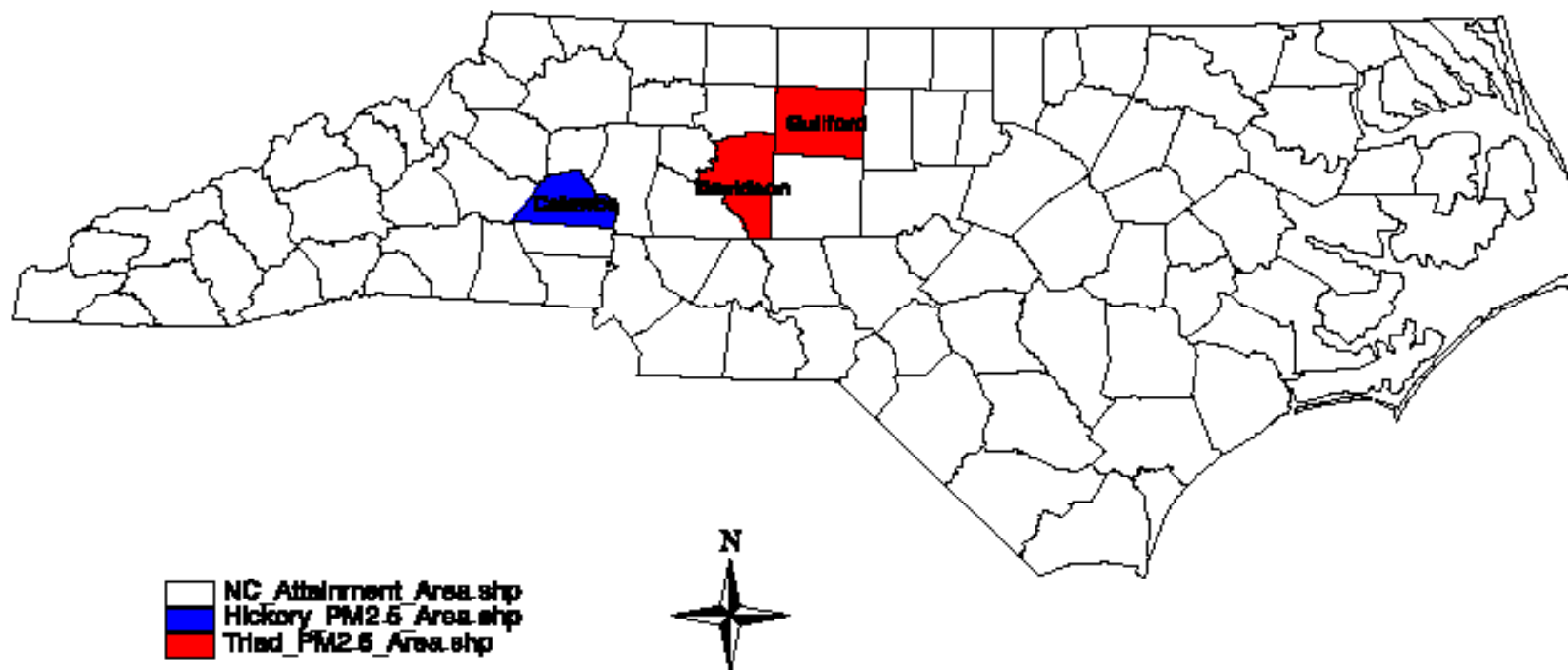
- Triangle cty 415.shp
- ncco meter.shp
- charlotte cty 415.shp
- Charlotte twm 1.shp
- Triad cty 415.shp
- Triangle twm.shp
- unifour cty 415.shp
- Mipo_hick_m
- Great Smoky Mtn.
- Fayetteville Area.shp
- Rocky Mount cty 415.shp



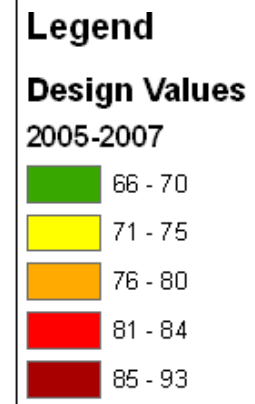
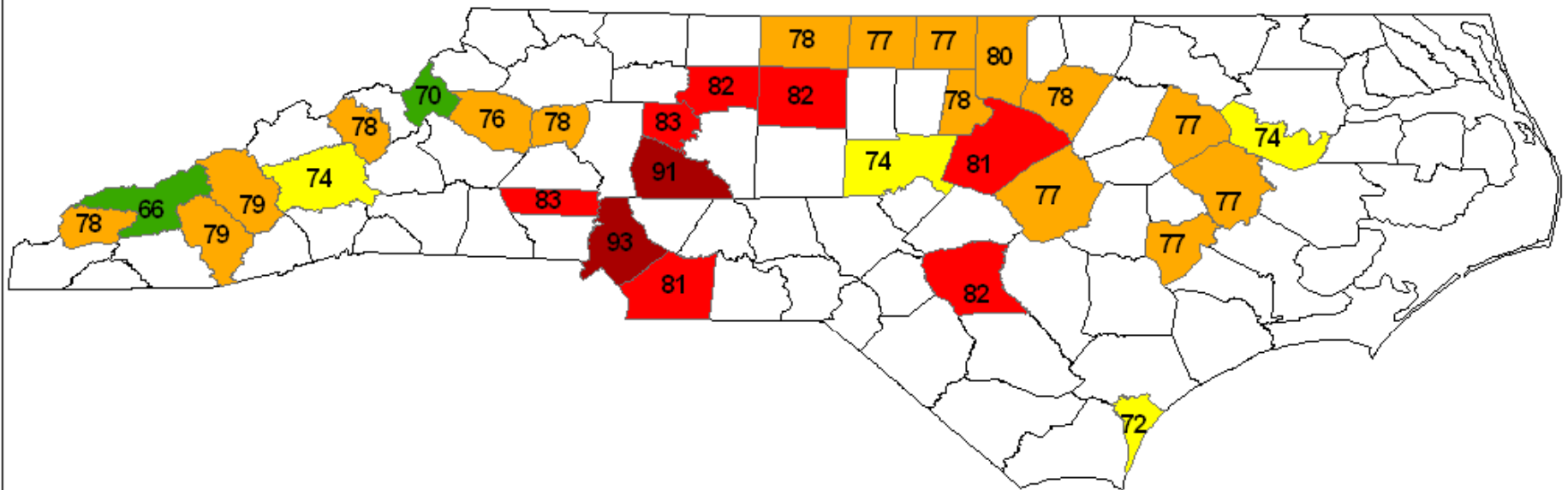
Notes:

- Charlotte area: Moderate, Max. attainment date: June 2010
- Triad area (EAC): Marginal, Max. attainment date: Dec. 2007
- Triangle area: Basic, Max. attainment date: June 2008
- Unifour area(EAC): Basic, Max. attainment date: Dec 2007
- Haywood & Swain cos: Basic, Max. attainment date: June 2009
- Fayetteville area(EAC): Basic, Max. attainment date: Dec 2007
- Rocky Mount area: Basic, Max. attainment date: June 2008

North Carolina Areas Designated Nonattainment for PM2.5 (EPA 12/17/04)



2005-2007 Preliminary Ozone Design Values as of 10/20/2007



This map displays counties with monitors only and does not represent potential nonattainment area boundaries.

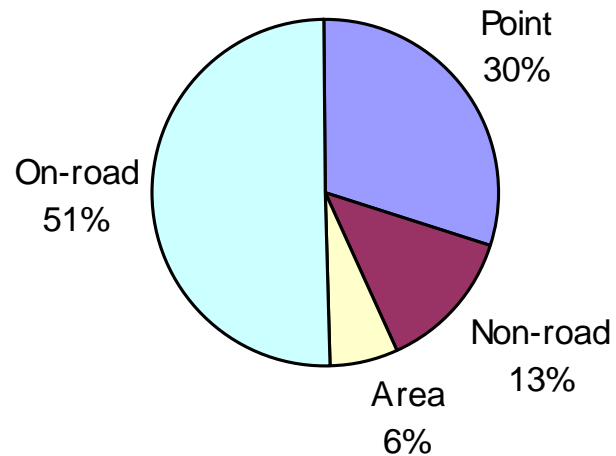
This map is based on historic data for 2005-2007. Designations will be based on 2007-2009 ambient data.



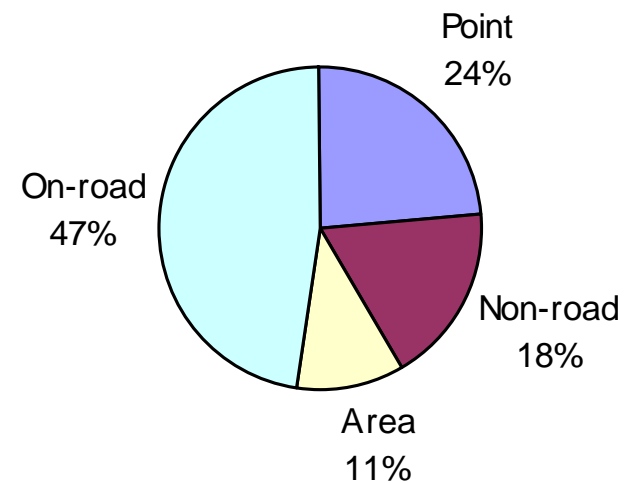
Why focus on Mobile Source Emissions?

Statewide NOx Emissions

2002



2009

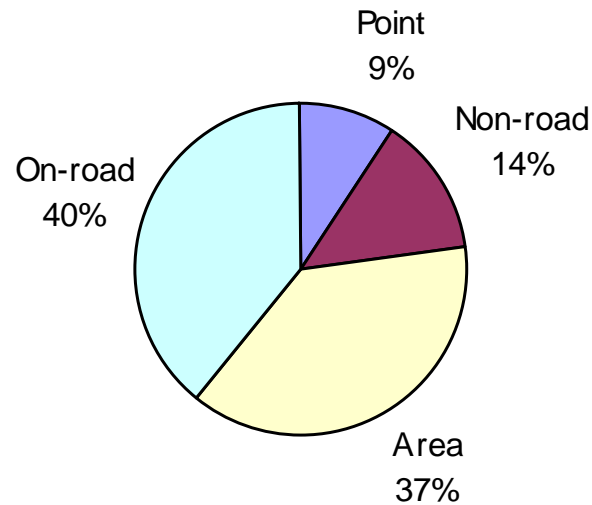


2002 Mobile Emissions = 64%

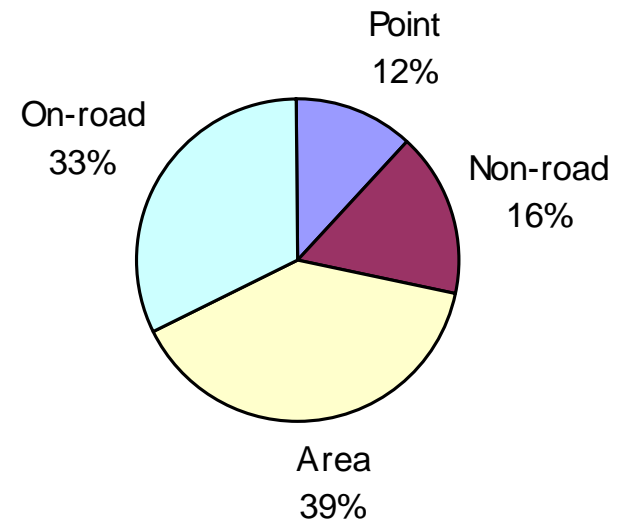
2009 Mobile Emissions = 65%

Statewide VOC Emissions

2002



2009

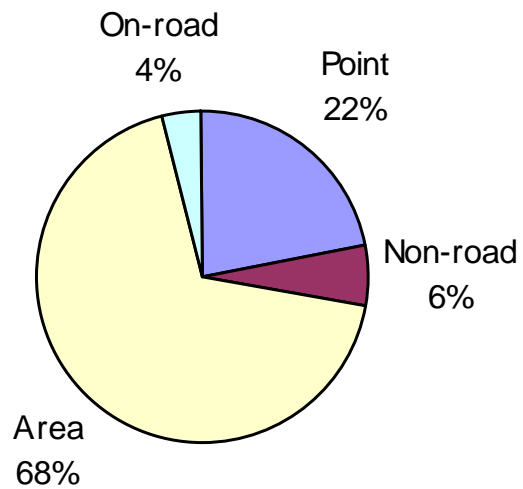


2002 Mobile Emissions = 54%

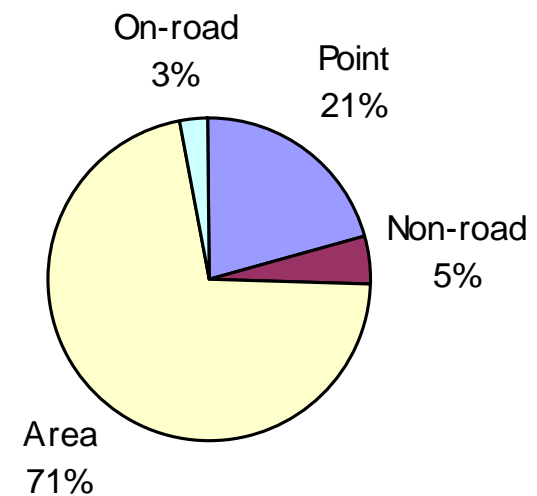
2009 Mobile Emissions = 49%

Statewide Particulate Emissions

2002



2009

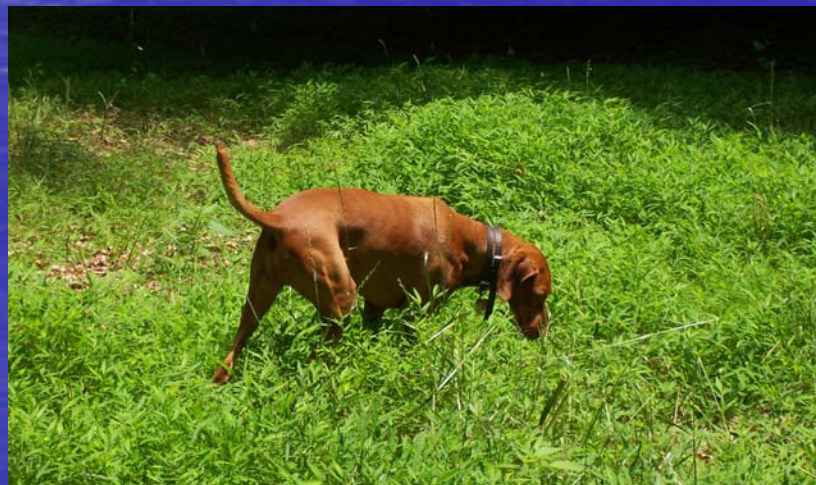


2002 Mobile Emissions = 10%

2009 Mobile Emissions = 8%

Mobile Source Emission Reduction Grant Background

- Began in 1995
- Funding is provided by a tax of 1/64 of a cent per gallon of gasoline sold.
- 132 grants totaling over \$8.6 million



Purpose

- Reduce emissions from cars, trucks, and other mobile sources in North Carolina.
- Reductions will help protect public health and the environment by assisting the State in maintaining the NAAQS

Project Selection Criteria

- Degree of matching or in-kind funds
- Assessment of benefits including:
 - Emissions Reductions (quantitative or qualitative)
 - Permanence of benefits
- Low cost/high benefit
- Cost effectiveness
- Public perception of appropriateness



Types of Project Funded

- School Bus Retrofits/Repowers
- Biodiesel Infrastructure
- Alternative Fueled Vehicles
- Heavy-Duty Diesel Trucks and Equipment
- Locomotive Idle Reduction
- Fuel Conversion Projects
- Other projects?



Some Projects Not Funded

- Long Haul Truck Auxillary Power Units (APU)
- Private vehicles

MSERG Success Stories

- City of Asheville CNG Station
- SMARTT Challenge





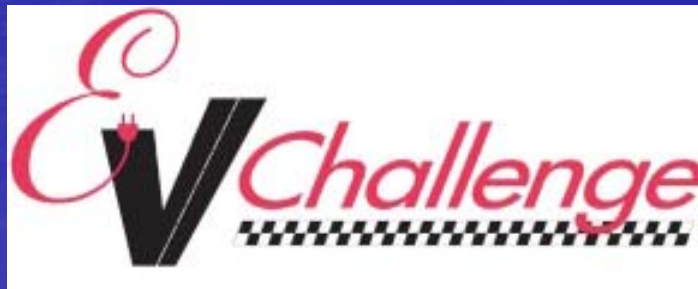
City of Asheville – CNG Station

City of Asheville – CNG Station

- Awarded in 2003
- Award was \$400,000
- > 50% voluntary match = strong commitment
- Station is open to the public – 24 hrs a day
- Asheville has alternative fuel culture
- Grant included several CNG cars & trucks
- Committed to more CNG vehicles in the future

SMARTT Challenge

- Started 1995 as Electric Vehicle (EV) Challenge
- DENR Funding provided 1996 – 2000
- Received EPA's Clean Air Excellence Award in 2003
- Nonprofit did additional fundraising



SMARTT Challenge ...continued

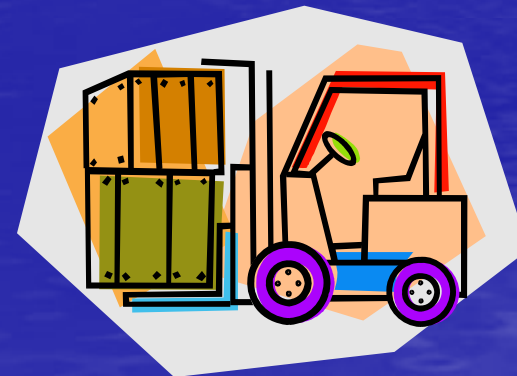
- Started with 3 schools in 1995, in 2006-45 schools
- Added middle schools in 2001
- Schools from the 10 states participate
- SMARTT Challenge is still active and growing

What is new for 2009 MSERGG?

- More Money
 - About \$1.4 M
- More Hoops
 - EPA wants cost effective projects
 - \$1M of the \$1.4 must be diesel projects
- Less Time
 - Diesel projects must be complete by Sept 30, 2010



Diesel Projects



What Makes a Great Proposal?

- We  diesel projects
- Address all criteria
- Show a commitment to the project

What Makes a Great Proposal?

.....continued

- Partner/Seek advice
- Provide an emission calculation
- Showing emissions inputs and outputs in appendix
- Provide cost effectiveness calculation

What Makes a Great Proposal?

.....continued

- Prefer actual emission reductions rather than research or planning
- Make your project scalable
- Refer to the Sample Proposal

When to Apply

- RFP on the www.ncair.org website
October 1 of each year
- Proposals due December 31

How to Apply for a Grant

- See www.ncair.org for cover sheet and instructions
- E-mail submissions preferred
anne.galamb@ncmail.net

How to Applycontinued

- By mail or courier (UPS/Fedex, etc)
- By Fax (919) 733-1812

Questions?

Tele. (919) 715-6296

- Email

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