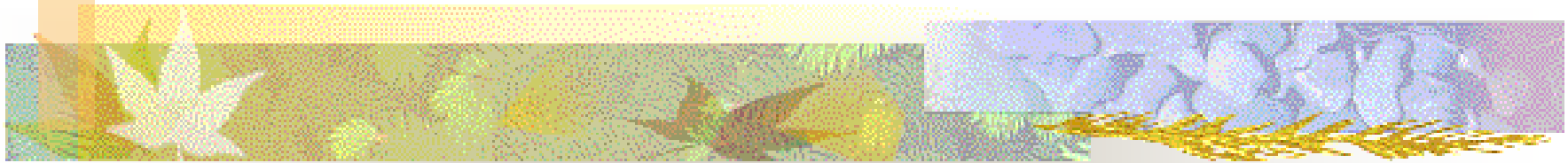


Air Quality Management Plan Pilot Project



Stakeholder Meeting
October 7, 2009



AQMP Pilot Project

- History of Issue
- Why is NC Involved?
- What is the scope of the Pilot Project?



National Research Council AQM Report

■ Five Recommendations

- 1. Strengthen Scientific and Technical Capacity
- 2. Expand National and Multi-state Control Strategies
- 3. Transform the SIP Process; Streamline the SIP Process
 - Integrated Multipollutant Plan
- 4. Develop Integrated Program for Criteria and Hazardous Air Pollutants
 - Address Multiple Pollutants in the NAAQS Review and Standard-Setting Process
- 5. Enhance Protection of Ecosystems and Public Welfare



CAAAC – AQM Subcommittee

- Excerpt from Phase II Report:

“The recommendations contained in this report represent the AQM Subcommittee’s vision of a comprehensive AQM system that can assist in meeting future air quality challenges in this country. As such, the AQM Subcommittee is making an overarching recommendation for taking a holistic approach to AQM through utilization of a more comprehensive planning process.”



AQMP Pilot Project

- Idea originated from the CAAAC AQM Subcommittee recommendations
- EPA put out a call for interest in participating in a pilot project
- NC volunteered and was selected
- One of three areas in the US participating
- NY and St. Louis are other areas



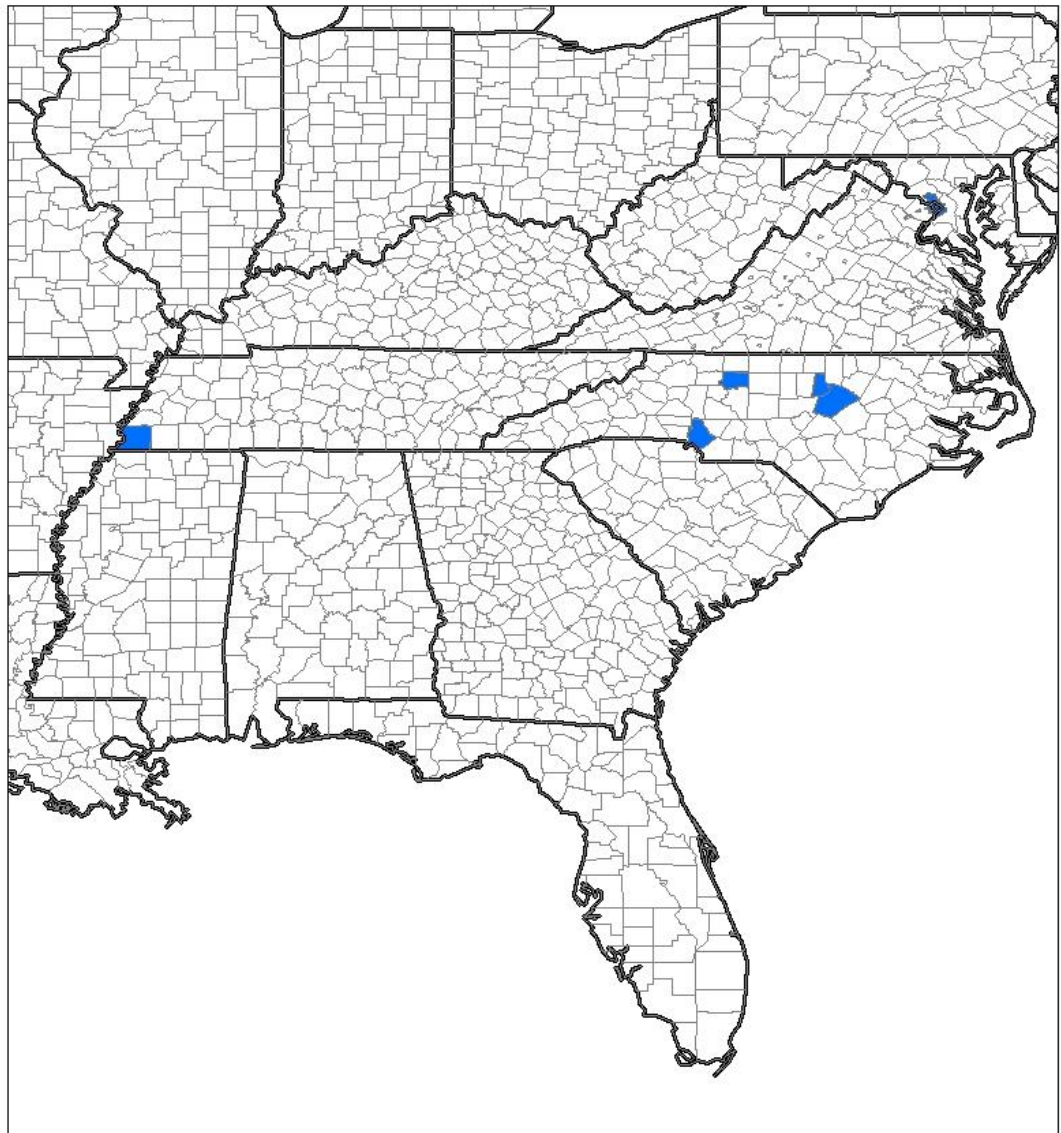
Air Quality Challenges In 1990

- Limited CO Nonattainment
- More widespread 1-Hour Ozone Nonattainment

1991 Carbon Monoxide Designations

5 Areas

- 7 Whole Counties
- 0 Partial Counties



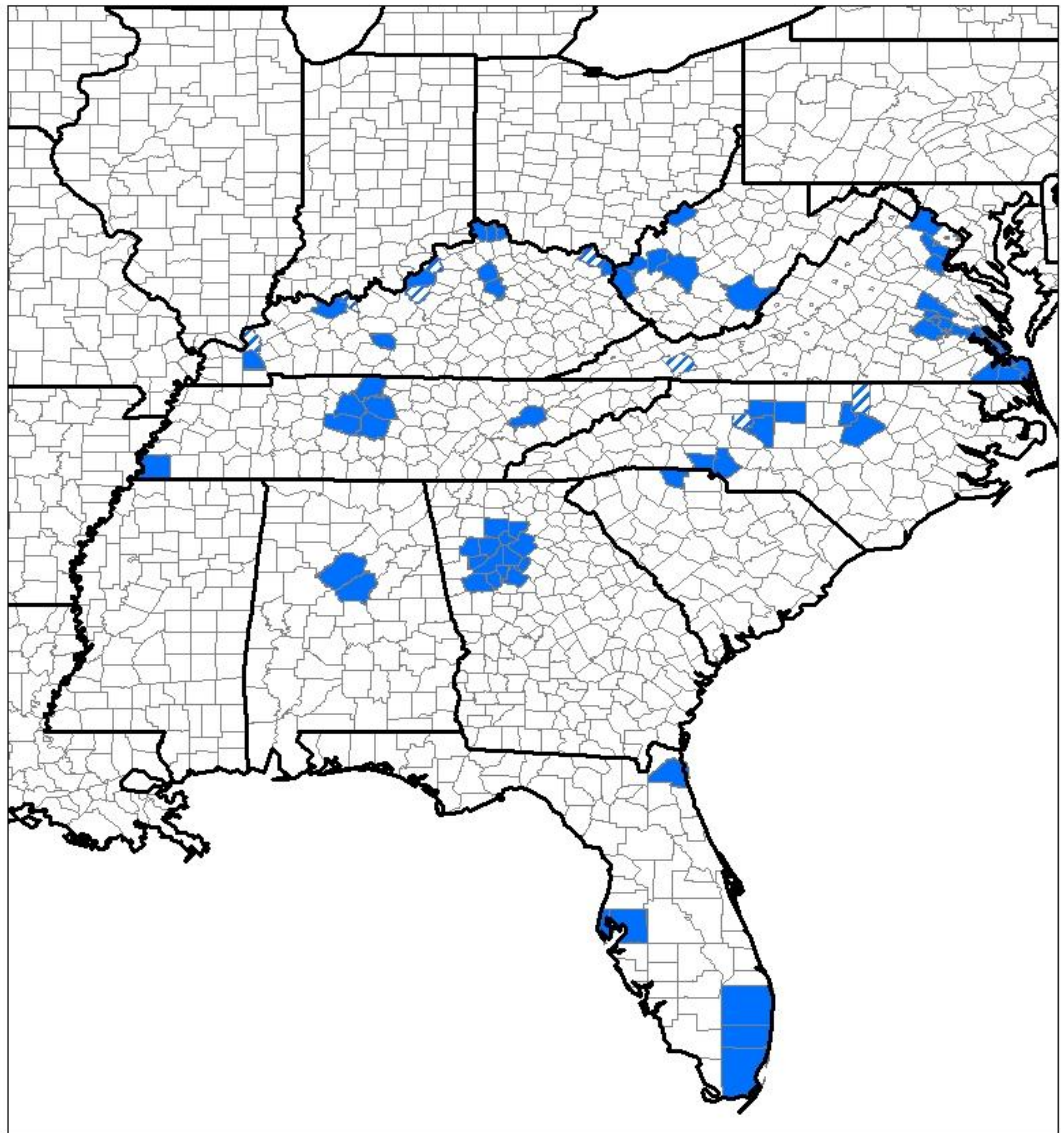
Legend

 Carbon Monoxide (CO) Nonattainment and Maintenance Areas

1991 1-hour Ozone Standard Designations

27 Areas


- 83 Whole Counties
- 8 Partial Counties



Legend

1 - hour Nonattainment and Maintenance Areas (1991 standard)

 Partial County

 Whole County



Air Quality Management Challenges Grew in Late 1990's

- Change in the form of the ozone standard resulted in more geographic coverage, as well as more transport issues
- Annual PM_{2.5} standard also resulted in more transport concerns
- Regional haze rule led to more regional planning
- Tools evolved to allow for multi-pollutant evaluation

1997 8-hour Ozone Standard

32 Total Areas

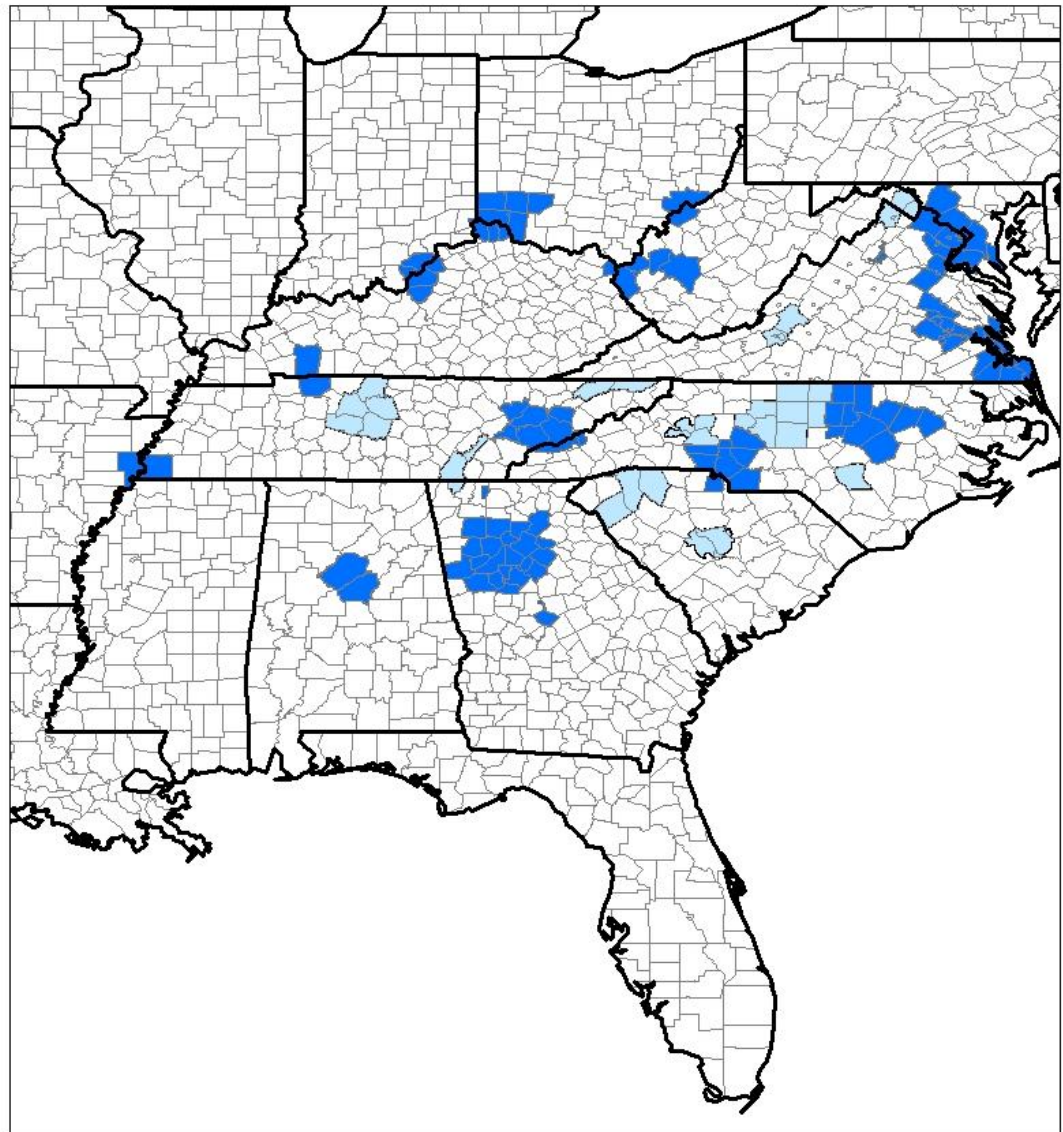
- 130 Whole Counties
- 14 Partial Counties

11 EAC Areas

- 32 Whole counties
- 5 Partial Counties



21 Nonattainment Areas

- 98 Whole Counties
- 9 Partial Counties



Legend

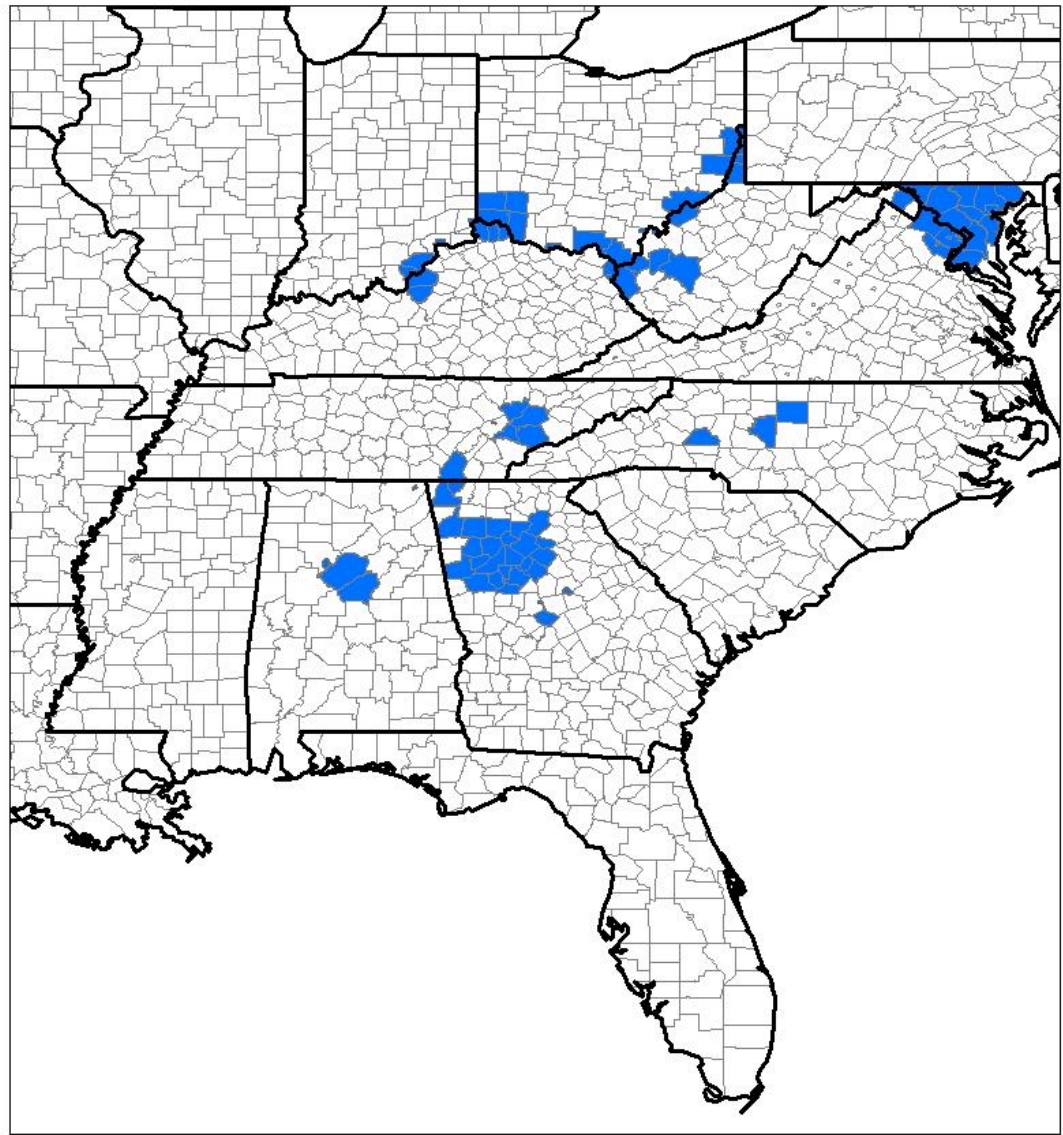
8 - hour Ozone Nonattainment and Maintenance Areas (1997 Standard)

-  EAC
-  Nonattainment


1997 Annual PM2.5 Standard

18 Areas

- 59 Whole Counties
- 9 Partial Counties



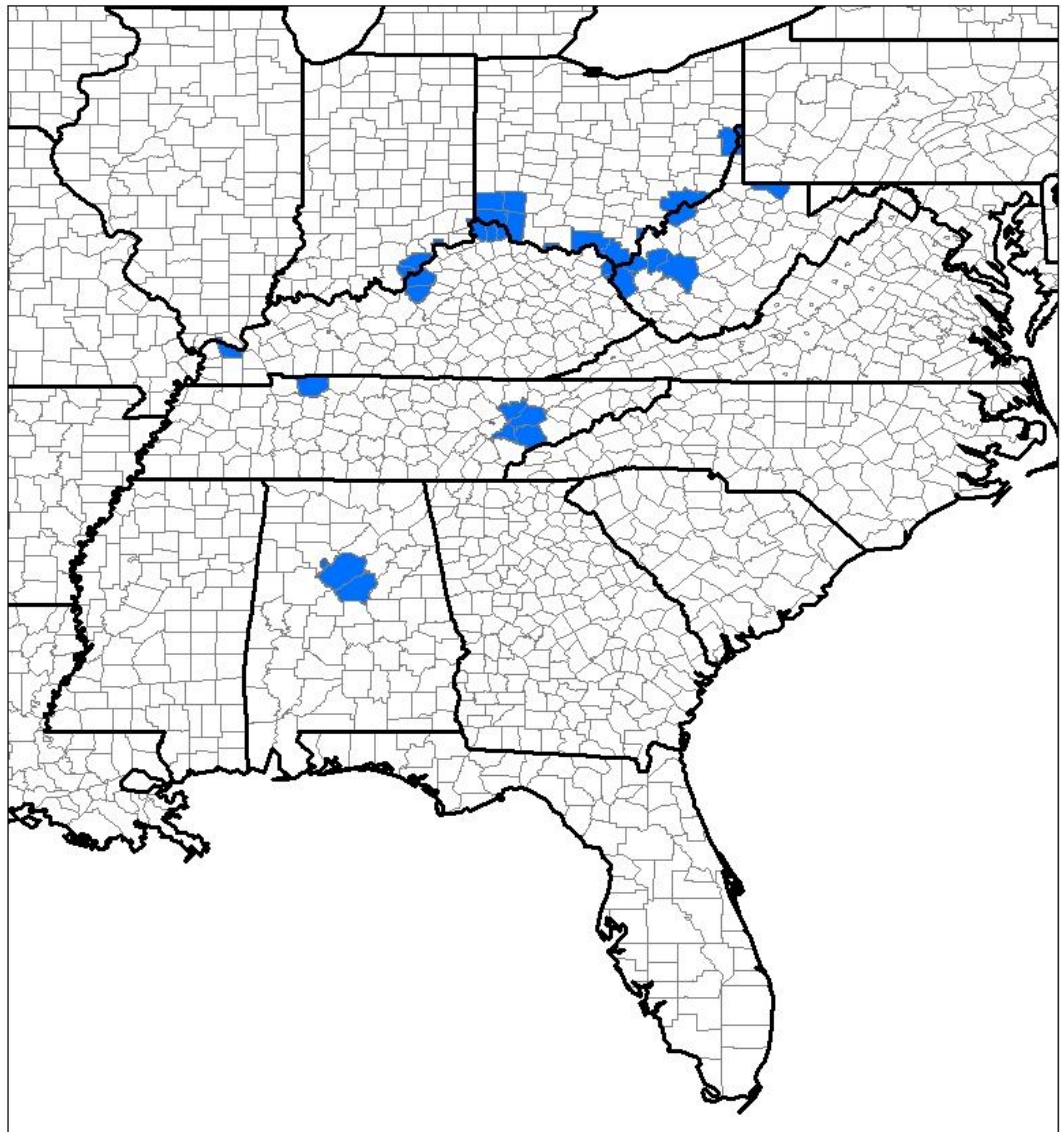
Legend

 Annual PM2.5 Nonattainment and Maintenance Areas (1997 Standard)


2006 Daily PM2.5 Standard

11 Areas

- 22 Whole Counties
- 8 Partial Counties



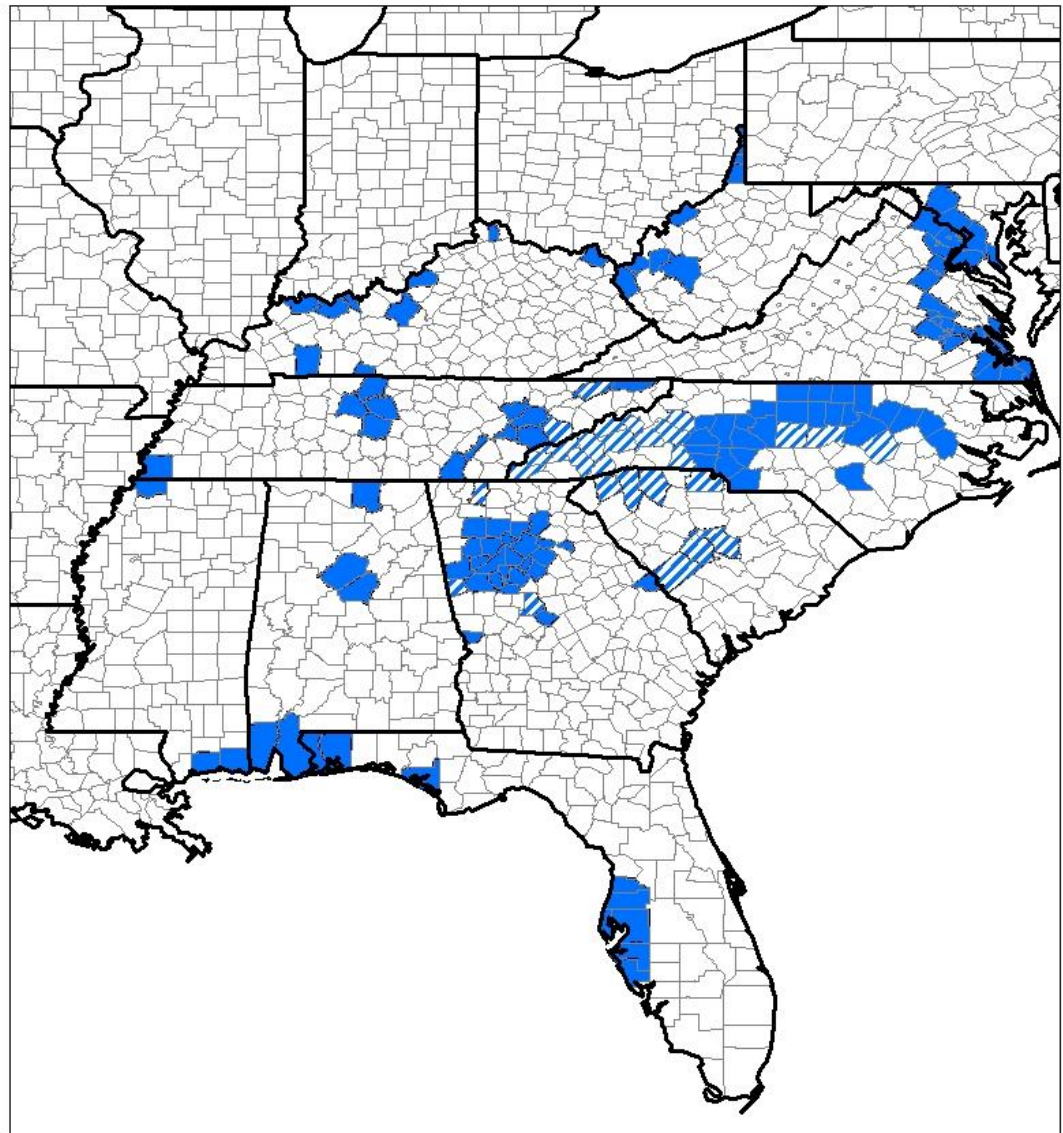
Legend

 Daily PM2.5 Nonattainment and Maintenance Areas (2006 Standard)

2008 8-hour Ozone Standard (State Proposed Boundaries)

~34 Areas

- 80 Whole Counties
- 13 Partial



Legend

State Proposed Boundaries for 8-hour Nonattainment Areas (2008 Standard)

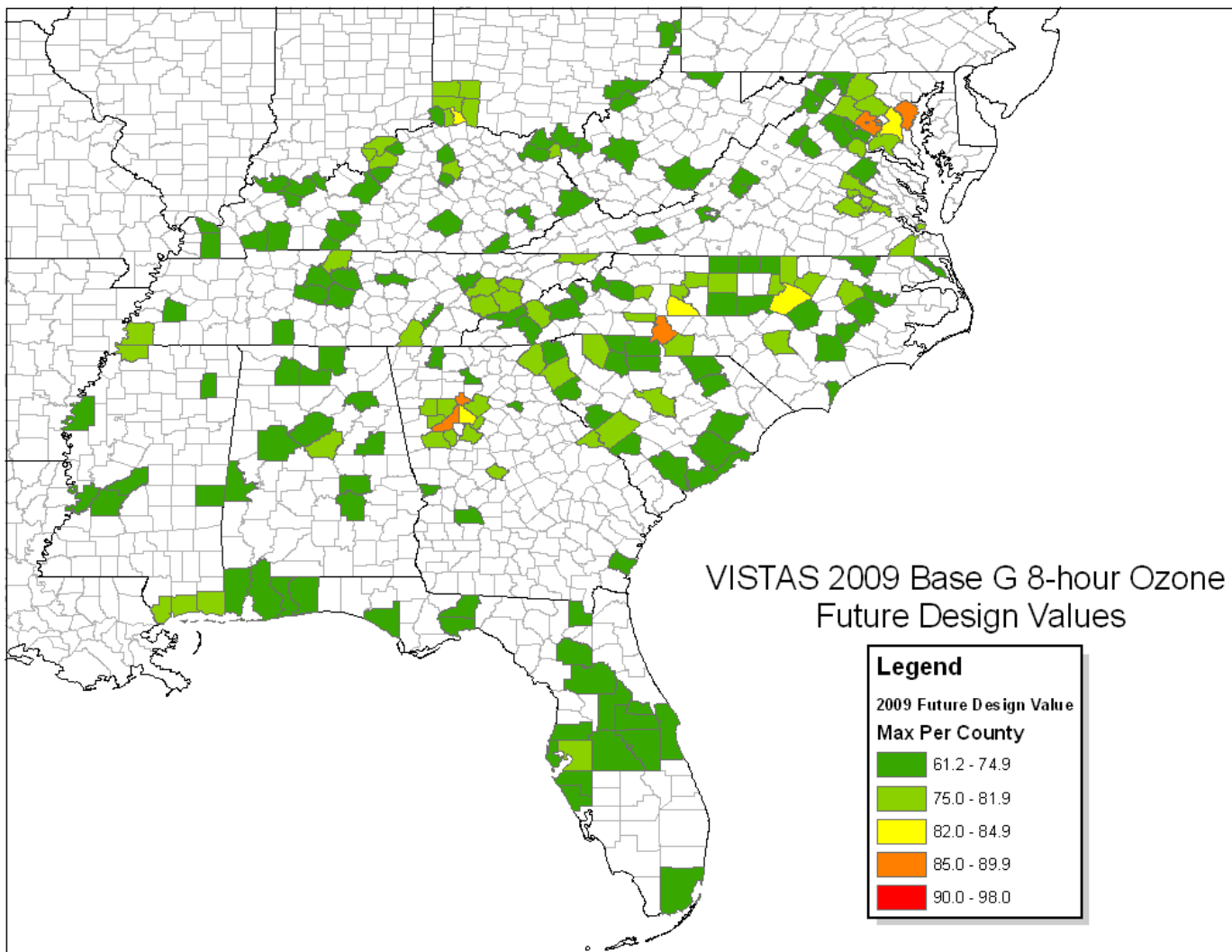
-  Partial County
-  Whole County

Regional Haze SIP Development

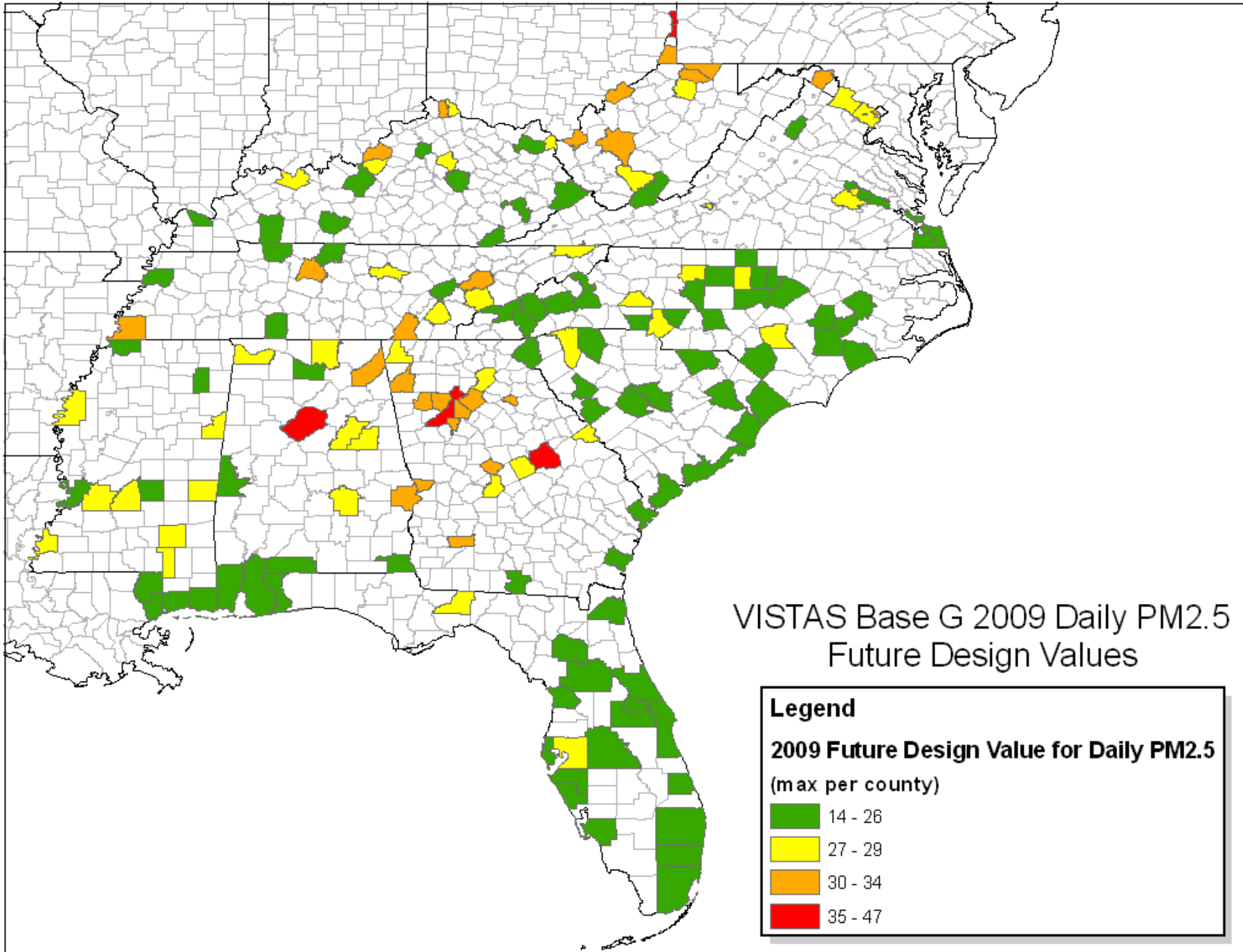


Ozone SIPs

Modeling Results (2009)

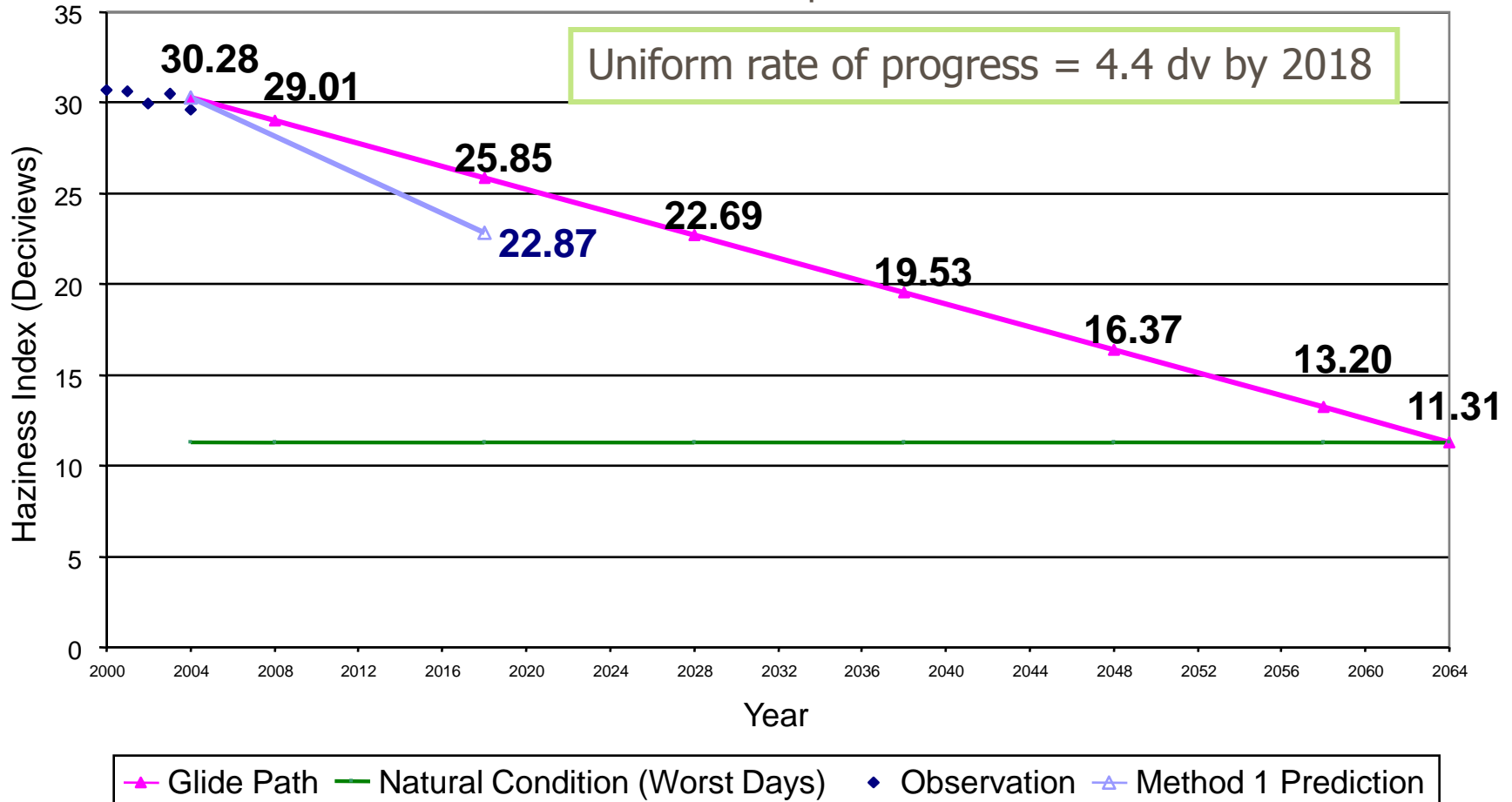


Orange =
85-89 ppb



Uniform Rate of Progress Glide Path Great Smoky Mountains - 20% Worst Days

New IMPROVE equation



Similar results for Shining Rock, Linville Gorge, Cohutta, VA, WV sites



Multi-Pollutant Planning

- Even though technical basis was the same for the ozone, PM_{2.5} and regional haze SIP development, NC completed and took to separate public hearings:
 - Ozone
 - Metrolina Area
 - Triangle Area
 - Rocky Mount
 - Great Smoky Mountains National Park



Multi-Pollutant Planning (cont'd)

- PM2.5
 - Hickory
 - Triad
- Regional Haze



AQMP Pilot Project

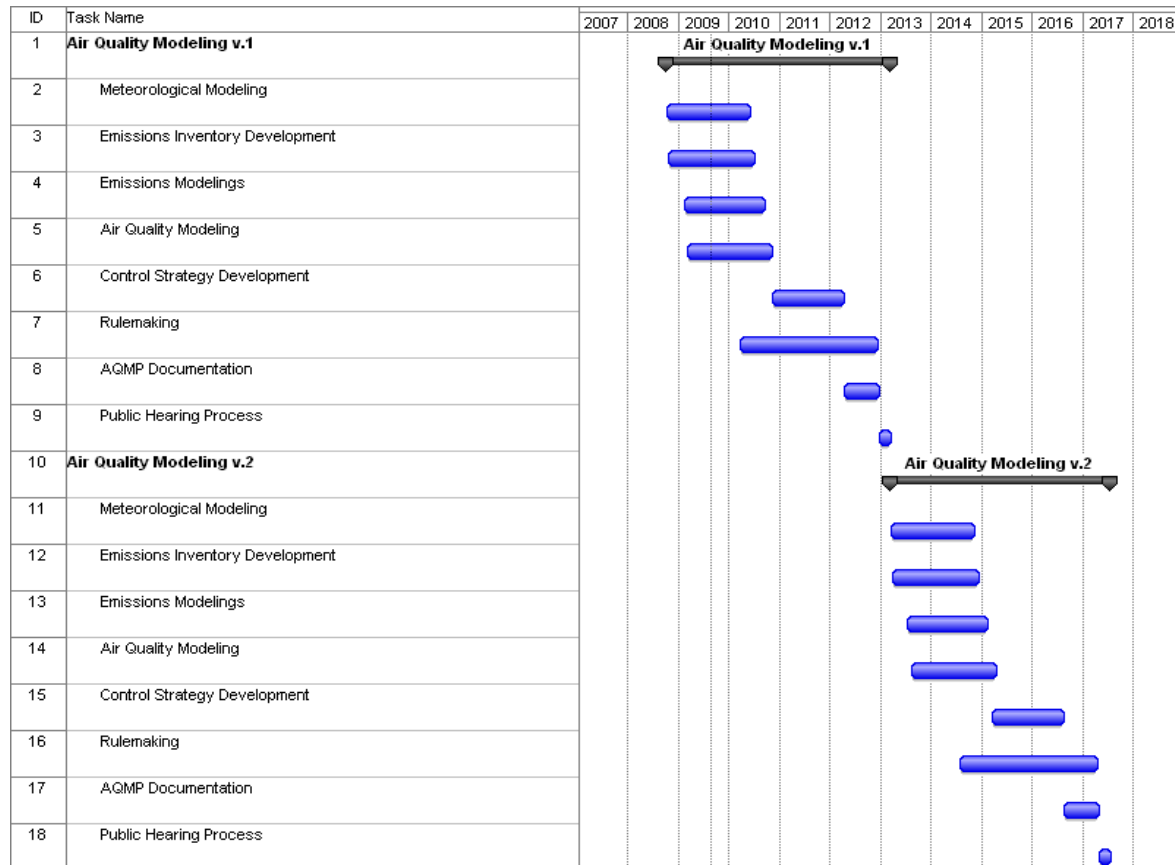
- Air Quality Management Process = Goal of NC's Pilot Project
- Air Quality Management Plan = Result of Implementation of the Process
- First plan to be completed by December 2013



Technical AQM Planning

- Should be done on a regularly planned schedule
- Routine updates to account for latest scientific developments

AQMP Technical Schedule





Benefits of AQMP Approach

- Current AQ issues demand regional technical planning approach; having a more structured schedule would allow States to coordinate efforts
- Will reduce duplicative SIP efforts
- Provide more certainty for regulated community
- Allows more comprehensive planning approach



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- **Visit our web site:**

- **<http://www.ncair.org/>**