

Eastern Regional Technical Advisory Committee (ERTAC)

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What is ERTAC?

- Ad-hoc organization of MJO's and **states east of the Mississippi.**
- Technical organization to fix specific problems and coordinate inventory development
 - Coordinate emissions inventories needed for air quality modeling (e.g., next round of SIPs)
 - Provide a technical- (not policy-) driven process for developing and improving emissions inventories

FY2009 National Program & Grant Guidance (May 5, 2008)

“No funds have been identified for regional haze planning organizations (RPOs) in FY 2009. For regional haze, plans were due from states in December 2007 and EPA believes that the continued role and funding of RPOs in regional haze planning should now be matter of state discretion rather than an EPA determination.”

Program	FY 2007 Operating Plan	Proposed for FY 2008 Enacted Level	FY 2009 President’s Budget
Continuing Air Program *	\$157.9	\$164.5	\$175.7
PM 2.5 Air Monitoring (§103)	\$41.9	\$41.8	
Air Toxics Monitoring (§103)	\$9.8	\$9.5	\$9.9
Regional Haze Planning (§103)	\$2.5	\$1.0	
Clean School Bus USA **	\$6.8		
Diesel Emission Reduction Program		\$59.1	\$49.2
Tribal Air Program	\$10.9	\$10.8	\$13.3
State Indoor Radon	\$8.1	\$7.9	\$8.1
Total	\$218.8	\$294.6	\$256.2

* Includes continuing §105 program and NE OTC under §106. In FY 2009 this amount also includes grants for PM2.5 monitoring.
 ** Included in Diesel Emission Reduction programs in FY 2008 and FY 2009.

Goals and Principles

- Achieve technical consensus on preferred data sources and inventory methodologies
- Promote consistency, while respecting state-specific approaches
- Focus on those issues likely to have the biggest impact in air quality modeling

How We Work

- Steering Committee defines goals and schedule
 - MJOs (LADCO, MARAMA, SESARM),
 - States (IL, MI, MO, MD, NY, NJ, GA, NC, LA),
 - EPA (OAQPS)
- Using in-kind resources, workgroups do the work
- Some projects will need money. Hope EPA can help? (Should we reach out to stakeholders – EPRI, CRC, MOG,?)

Priority ERTAC Projects

- Rail emissions
- Mobile source PM emissions
- Agricultural ammonia
- Area source comparability

Rail Emissions

(Timeframe: on-going)

- Chair: Michelle Bergin (GA)
- Approach:
 - Class I - line haul and rail yards data
 - Class II/III – Evaluating data options
 - Commuter – Not addressed by this process
- Accomplishments
 - Web site: <http://www.ertacrail.info/erjoomla/>
 - Prepared data collection methodology
 - Contacted American Association of Railroads(Class I)
 - Contacted American Short Line Railroad Association (ClassII/III)
- Schedule: draft inventory by mid-2009



PM_{2.5} (OC) Emissions from Mobile Sources

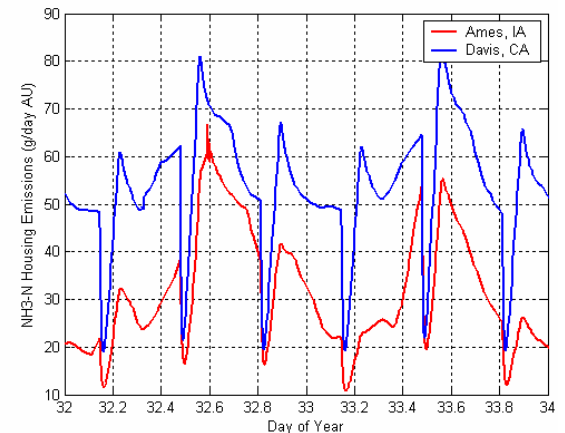
(Timeframe: fall 2008 – spring 2009)

- Problem: Current inventories underestimate PM emissions from mobile sources (which results in large model underestimation for PM_{2.5}-OC)
- Approach: Environ/DRI developing MOBILE6 adjustment factors for primary PM-OC and SVOC mobile source emissions based on KC study data (under contract to LADCO, NREL, and MARAMA)
- Schedule:
 - December: provide draft methodology
 - January: provide draft factors
 - Feb-March: modeling with adjusted inventory (Detroit, NYC)
 - April-May: final report

Agricultural Ammonia

(Timeframe: early 2009)

- Improve UC–Davis process-based emissions model
 - Developed in 2005 by ISSRC/Environ with RPO funding
- Improvements include...
 - Newer science and 2007 Census of Ag data
- Remaining shortcomings...
 - Lots of national defaults. but not much local data
- To do...
 - Need to identify variables model is most sensitive to
 - Compare model results to measurement studies



Area Source Comparability

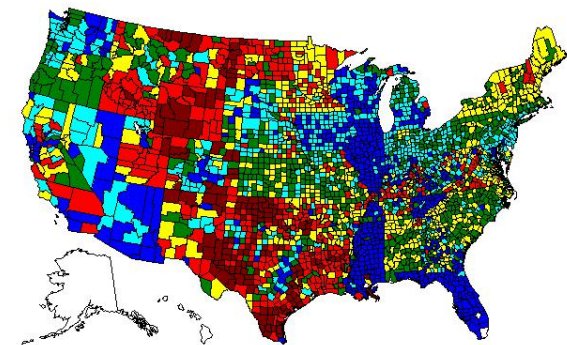
(Timeframe: fall 2008 – spring 2009)

- Goal: Work with states to define complete inventory for area sources
- Approach: Determine default methodologies with emission rates and surrogates
- Process: EPA prepares first draft; ERTAC modifies, as necessary

Area Source County Population Density Emissions : NOX

File Used For Emissions Summary: ems_run.areaemis

Population from 1990 United States Census.



Tons per Day(*1000)/Population

0—0.0068

0.01061—0.0149

0.02671—0.1516

0.00681—0.0106

0.01491—0.0267

Over 0.1516

County emissions on edge of domain reflect only the area within Domain. Population for whole county used in all cases. Canada and offshore emissions are not shown.

Other ERTAC Projects

- EGU temporalization based on CEM data
- EGU growth methodologies
- Commercial marine
- Canadian emissions (2005/2008)
- Wildfires and prescribed burns (eastern U.S.)
- Agricultural equipment (population/temporal)