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Expertise: Emission inventory development, air quality modeling, control strategy development, sensitivity and uncertainty analysis

NFEI – state perspective

1. Introduction

- 1) Fire emissions have large impacts on air quality, and thus they are crucial for AQM to properly reproduce historic air quality conditions.
- 2) Improved understanding of fire emissions and performance of AQM ensure solid policy making.
- 3) Become more important when NAAQS become more stringent and emissions from other anthropogenic sources have been controlled.
- 4) In recent SIP modeling in the southeast (VISTAS and SEMAP), new fire inventories were developed.

NFEI – state perspective (continued)

2. Goal of improving the NFEI and harmonizing the NFEI

- 1) NFEI can meet SIP inventory requirements
- 2) Year-specific
- 3) Easily accessible, e.g. EIS
- 4) Use CTM, receptor models and ambient measurements to evaluate NFEI

3. Improvements in the future

- 1) State provided local activity to EPA/USFS
- 2) Update satellite fire detection algorithm for prescribed fires in the southeast
- 3) Before the new algorithm for Rx developed, use SMARTFIRE to fill the gap in local records
- 4) Develop fuel consumption factors representative to the southeast