

Emissions Inventory

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- **Minor Source Inventory Update**
- **National Emissions Inventory**
- **CENRAP Inventories**

Minor Source EIQ Update

- **370 MSEIQs for emission year 2002 received from western third of state.**
 - **Reviews were finished in September 2004.**
 - **This completed the first minor source inventory cycle across the state.**
 - **First round of EIQs are in SPARS and can be copied for future use.**

Minor Source EIQ Update

- **456 MSEIQs for emission year 2003 received from eastern third of state.**
 - **Facilities were able to create 2003 EIQ from the 2000 EIQ already in SPARS.**
 - **Review is underway.**
 - **Grain elevators will not be required to submit EIQs until DNR develops general permit.**

Minor Source EIQ Update

- EIQs for emission year 2004 from central part of state and portable plants will be due May 15, 2005.

2002 National Emissions Inventory

- **What is the NEI?**
 - National database of air emissions prepared by EPA's Emission Factory and Inventory Group with input from States & local air agencies, tribes, and industry
 - The NEI includes emissions estimates from all 50 states, District of Columbia, Puerto Rico, and the Virgin Islands.

2002 National Emissions Inventory

- Includes three classes of sources:
 - point sources
 - area sources
 - mobile sources
- Data is used for air dispersion modeling, regional strategy development, regulation setting, air toxics risk assessment, and tracking emissions trends over time

2002 National Emissions Inventory

- DNR is required by the Consolidated Emissions Reporting Rule (CERR) of June 2002 to submit data for two types of inventories to EPA:
 - Type A (large) point sources annually
 - Minimum reporting thresholds (actuals) are:
 - 2,500 tons or greater SO_x, NO_x, or CO
 - or 250 tons or greater VOC, PM₁₀, PM_{2.5}, or NH₃

2002 National Emissions Inventory

- 30 Title V facilities qualify as Type A sources for 2003
 - Area sources and Type B point sources triennially (2002, 2005, 2008 ...)
 - DNR reports all Title V facilities as Type B point sources
- Inventories must be submitted to EPA within 17 months

2002 National Emissions Inventory

- **EPA's Schedule for the 2002 Inventory**
 - **1/1/04: EPA's preliminary inventory released to States, Locals, Tribes (S/L/T's)**
 - **6/1/04: S/L/T inventories due**
 - **6/1/04 - 2/1/05: EPA and S/T/L's work to blend, merge, and augment data**
 - **2/1/05: Draft 2002 Inventory released to public**

2002 National Emissions Inventory

- 5/1/05: Revisions due
- 5/1/05 - 8/1/05: EPA resolves data discrepancies and incorporates revisions
- 10/1/05: Final 2002 NEI released

2002 National Emissions Inventory

- DNR submitted Type A 2002 point source inventory on 05/29/04
 - Included Title V 2002 emissions, stack parameters, and location coordinates
 - DNR estimated PM_{2.5} emissions from Title V sources using EPA's PM Calculator
 - DNR estimated ammonia emissions using AP-42 for manufacturing of ammonia, ammonia nitrate, and cement

2002 National Emissions Inventory

- DNR also submitted area source inventory for ammonia done by STI, Inc. for CENRAP
 - includes emissions from
 - livestock and poultry 53%
 - fertilizer use 27%
 - biogenics 7%
 - misc. (refrigeration, mobile sources, POTW's, domestic animals, humans, landfills) 13%
 - total 250,320.4 tons ammonia

2002 National Emissions Inventory

- During Feb 2005 correction period, DNR will be submitting data from two other CENRAP-sponsored inventories:
 - Planned Burning, July 2004
 - Mobile Sources & Agricultural Dust, expected in late Oct 2004
- EPA's preliminary inventory will be used for incomplete area source categories

CENRAP Inventories

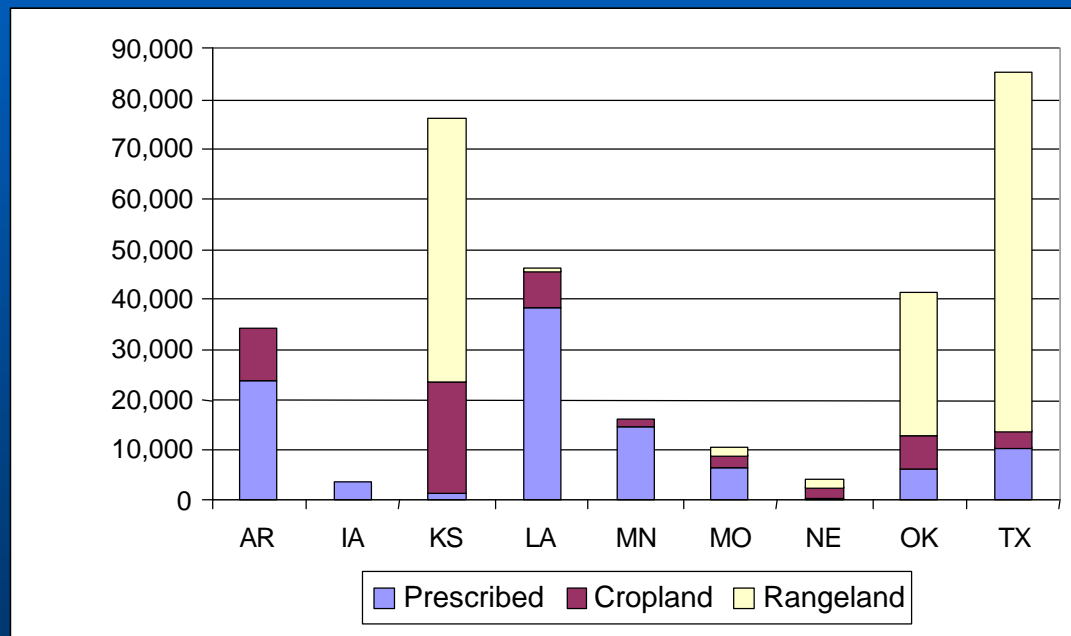


Figure 1-2. Total annual PM_{2.5} emissions by type of planned burning for each state in the CENRAP region.

CENRAP Inventories

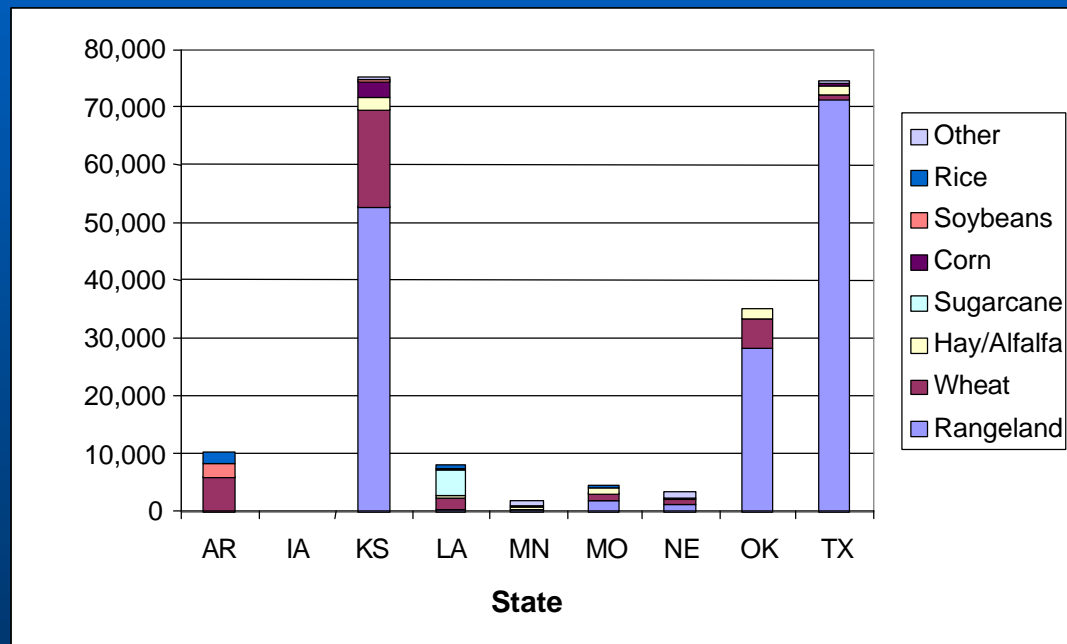


Figure 2-5. PM_{2.5} emissions from agricultural burning by state.

CENRAP Inventories

- **E.H. Pechan has been contracted to consolidate the S/L/T 2002 inventories into one CENRAP inventory**
 - **Consolidated inventory will serve as the base case inventory for regional haze modeling**
 - **Final deliverables were due 10/01/04, but are delayed because it took states longer than expected to correct inventory submittals**

CENRAP Consolidated Inventory

- **Separate contract will be issued to grow a 2018 inventory from the consolidated inventory**
 - **CENRAP emissions work group hopes to have it completed in first quarter of 2005**

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