

Executive Summary

*Status of Work &
Overview of Results*

Phase 2 Fire Emission Inventory WRAP – FEJF

February 23-24, 2005

Salt Lake City, Utah



AIR SCIENCES INC.

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Phase 1 – WF & Rx +

- Wildfire and prescribed fire activity databases developed and EI's prepared.
- Agricultural burning data (from 2018 EI) sent out for outreach and QC.
- Technical methods improvements initiated:
 - Nat/Anth categorization; Rangeland burning activity

Phase 2 – All Fire EI

- Objectives
 - Improved 2002 WF and Rx EI's.
 - Build 2002 EI's for agricultural burning and rangeland burning.
 - Fill essential data bins of the WRAP.
 - PT files for regional modeling
 - Emissions Data Management System (EDMS)
 - National Emission Inventory (NEI)
 - Appropriate level of documentation.

Phase 2 – Work Status

- Work Completed
 - Wildfire and Prescribed Fire QC Packets
 - Including technical enhancements
 - Federal fire size class (COMPLETE)
 - Wildland Fire Use flag (COMPLETE)
 - Tribal Land location flag (COMPLETE)
 - N – A categorization (COMPLETE)
 - Sent to 33 FLM offices; 16 State agencies (air quality and forestry); 8 Tribes (contacts provided by NTEC)

– Approximate return rate → 33%

Phase 2 – Work Status

- Continuing / Ongoing Work
 - Technical Improvements
 - Large fire refinement – COMPLETED
 - Complex fire and duplicate checking – COMPLETED
 - Pollutant speciation – NEED CALL WITH RMC
 - Fire Activity Data Gathering
 - 2002 Ag Burning – QC responses integrated - COMPLETED
 - 2002 Rangeland Burning
 - Activity & emission estimates – COMPLETED
 - File processing and data delivery - INITIATED)
 - WF and Rx fire data enhancements – COMPLETED

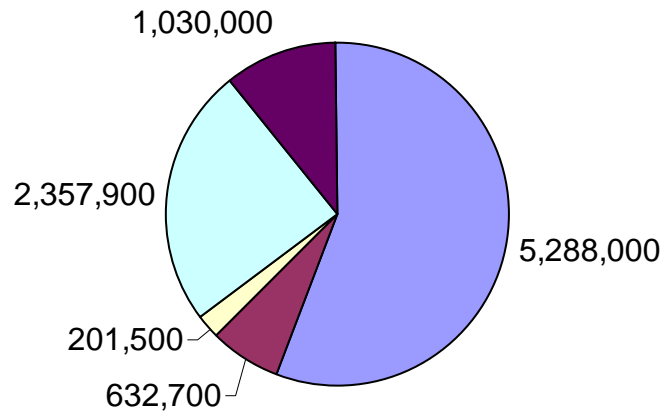
Phase 2 – Work Status

- Filling the data bins
 - PT Files (for RMC modeling)
 - WF, RX, Ag – Processed & posted on Feb 24, 2005
 - Rangeland – posted by March 10, 2005
 - NIF3 Files (for EDMS and CERR)
 - WF, RX, Ag – Processed & posted on Feb 24, 2005
 - Rangeland – posted by March 10, 2005
- Documentation
 - Out for FEJF review by March 10, 2005
 - Review/Revisions/Final by April 1, 2005

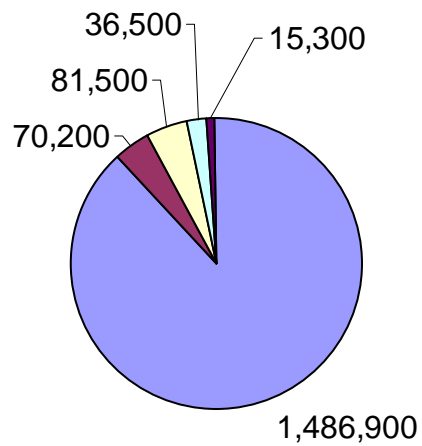
Results

Source	Fire Events	Acres Burned	Fuel Consumed (tons)	PM 2.5 (tons)
Wildfire	1,700	5,288,000	123,393,000	1,486,900
Prescribed	10,700	632,700	7,016,600	70,200
WFU	35	201,500	6,763,700	81,500
Agricultural		2,357,900	6,368,400	36,500
Non-Fed Rangeland		1,030,000	1,802,500	15,300

Acres Burned



PM 2.5 (tons)



Legend: Wildfire (blue), Prescribed (maroon), WFU (yellow), Agricultural (cyan), Non-Fed Rangeland (purple)