

Update Session

1. FEJF Membership Issues:

Vacancies – need tribal representative, agriculture burning experience is preferred.
- Potential for a second FEJF Forum co-chair that can manage the multiple task teams. (Bob Palzer mentioned possible interest from someone formerly from LADCO and now in Seattle)

Replacement - Jim Lawrence, Western State Foresters Association for Art DuFault, Utah State Forester

2. Regional Planning Organizations- EPA Joint Meeting: FEB 6-8, Tempe Arizona Meeting

FEJF has currently had interest outside of the WRAP region with LADCO (Mark Janson) interested in the emissions data due to organic signature in monitored data. For LADCO Class I areas. Phil Harwell from Texas (SENSARA) also represents another interested participant.

Meeting was an opportunity to put what we're doing in front of the EPA and many interests. Folks will be looking towards the FEJF for guidance.

Any interested parties from other regions are always invited to participate.

NBTT - FEJF work shown as a focal point for this work, and EPA recognizing WRAP jumpstart of work.

Discussion between the regional planning organizations – administrative issues, coordination among technical issues (modeling, emissions, inventories).

Within the year, may start to see the effects of some of the inter-regional planning body coordination.

3. Model/Emissions RFP's and contract process:

Three proposals -

UC Riverside – more technical, got the contract
WESTAR
AZ State University

4. FEJF Webpage:

There have been difficulties with getting items posted on the FEJF webpage on the Air Sciences site.

Diane R. Suggests a link to WRAP page as home for the Clearinghouse, other suggestions about the layout of the website are welcome. Other forums have contracts out for their websites, which may provide some ideas. About how items could be posted better

5. WGA Progress on FEJF RFP's/Contracts:

There have been some modifications to contracts, Carl (NBTT) and Diane (BSMP) to discuss. Cost over-runs are the issue.

6. Workplan and Funding

25% of FEJF budget has been committed. FEJF has used only 10-15 %. Co-Chair concern about trend in contractors going over their costs. Overrun after overrun could potentially be a serious problem, and something that needs to be watched.

2002 budget looks good for regional haze and visibility; WRAP will get a healthy allotment, which means hopefully full funding for FEJF and items deferred in last budget exercise in Denver (2000).

There are some financial allocations in front of the Forum, such as alternative burning on wild lands contract, emissions inventory support work, and prescribed fire program assessment work.

Congressional budget approvals generally announced in June or July for FY02 at which point outlook for WRAP (and FEJF) funding might become clearer.

Task Team Discussions

1. Natural Background presented by Carl Gossard

Summary of Senior Staff Workshop - Jan 24&25 in Denver, CO

NBTT has formally apologized for continually monopolizing the forum

NBTT Tasks

Develop a methodology to categorize fire emissions into anthropogenic and natural source classifications

Develop Approaches for estimating fires contributions to natural background visibility conditions

Establish methods for tracking and apportioning fire emissions into either natural or anthropogenic categories

Two decision trees previously developed, one for wildland burning, and the other for agricultural land burning.

Breakout groups were created among roughly 80 workshop participants. Groups were light on industry, and environmental representatives were not present.

Bob Palzer has indicated that lack of environmental representation is a concern. Grand Canyon Trust did submit a position paper prior to the workshop and is available for review.

Results – Initial take and still under development...

Survey conducted among workshop participants indicated that for the most part, the workshop was worthwhile and the TT was heading the in right direction. Surprisingly, a significant convergence was attained among the workshop groups.

Overarching Themes

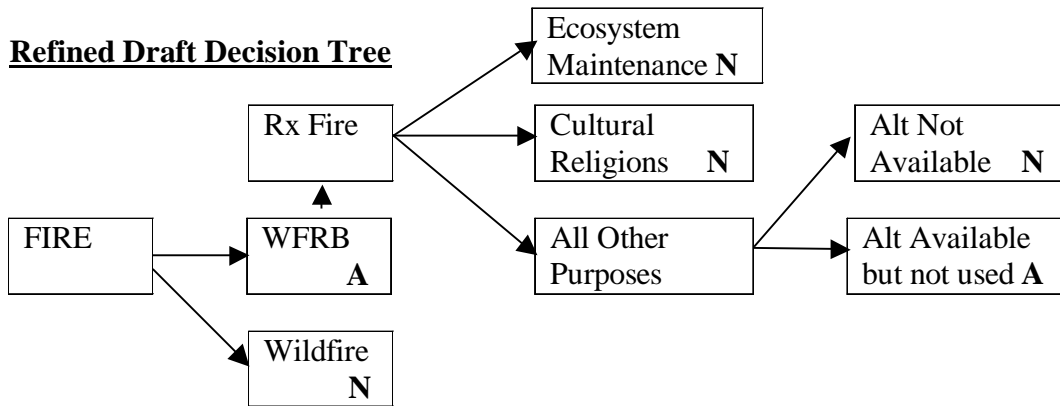
Wildland and Ag. lands should be treated the same (combine the decision trees into one)

Near unanimous agreement that all Native American religion or cultural burning should be treated as natural, unless off reservation commodity production is involved

Maintaining ecosystem health should be part of natural background, as this is how fire would play its natural role after initial pre-burns had been conducted.

Hazard reduction, Restore Ecosystem, Waste Disposal, Single Purpose Benefit, Commodity production should be lumped and categorized as anthropogenic.

Unplanned Ignitions managed for resource benefits are treated as prescribed fires. Natural, arson and accidental human ignitions should be natural, as no smoke management strategy is possible. Ignitions managed for resource benefits may be considered as A or N based prescribed fire classification.



This tree was created by the “convergence” of all of the groups, including some fine-tuning by NBTT management team (specifically arson not being an A source despite an N classification by workshop consensus).

Concerns -

By including agricultural and wildlands together, there may be some significant legislation issues to address.

There will undoubtedly be some difficulties factoring economic considerations into the Alternatives part of the tree (i.e. If alternatives are not available due to economic feasibility the emissions from managed fire would automatically be categorized as “natural.”

In addition, environmental groups may have difficulties coming to consensus about specifics about ecosystem maintenance and restoration (included in the All Other Purposes) N/A classifications (i.e. defining the difference between ecosystem maintenance and restoration.)

Plans for Policy Makers Workshop – May 2nd 2001 in Phoenix, AZ

Note: Policy Makers workshop has been delayed to May 2nd 2001

40 Nominees have been selected for Policy Maker Workshop. Participants have been earmarked per their constituency, and accordingly, will be part of an inner (25-28 policy makers) and an outer circle (12-15 support staff) for equity to ensure that concerned stakeholders are heard.

Letters and interim report on the workshop will go out to all the participants of the Denver Workshop so that they can brief their respective policy maker representatives.

Pre-work Material for Policy Workshop

Preamble and general policy statement is being created from the Denver Workshop results for the Policy Makers Workshop.

Draft preamble executive summary from workgroup has been compiled. The NBTT management team on Feb 26 has a conference call to refine the preamble, which will be posted for review for the May 2nd workshop.

Need to create a pre-work packet that includes a recommended policy with preamble, and discussion aspects based on the implication of this policy in terms of legislative barriers, economic considerations, etc., that will prevent this policy from moving forward.

NBTT Final Report Plans

A final report from both the Denver and Phoenix meeting will be produced after the May session.

Hopefully, consensus will be achieved after both workshops, unless there is a significant policy flaw to address. The goal is to achieve consensus as nearly as possible to provide to the Ambient Monitoring and Reporting Forum and the WRAP.

2. Alternatives to Burning – Wildlands TT presented by Pete Lahm

Significance: The national fire plan has an emphasis on wildland/urban interface burning and an increase in that burning, as well as the earmark of federal money to conduct the burning.

Goal and objectives:

What are the alternatives currently used? When? How?

What are the costs and limitations of implementing each alternative?

What accountability process is in place for F/SLM's who consider alternatives?

Status of burning alternatives on Wildlands RFP

Scope of work was developed, which resulted in a draft RFP. Comments were received and incorporated into the latest Burning Alternatives RFP, and was made

available on Jan 2, 2001. Latest RFP was handed out, and will be made available for review on the website.

Wildland TT participation issues

Needs

TT Co-chairs needed. An FEJF member should be involved at that level. Need people who will move the RFP forward, and who will put together and manage a burning alternatives TT - There is no one currently moving burning alternatives forward.

- Bob Palzer has volunteered to be involved – and offered to check with others for interest.

-Brian Finneran expressed interest in TT.

Options/Ideas

WGA might be an option.
CARB Alternatives Group Members

CARB Title 17 Alternatives Group

California has a group looking at burning alternatives on both wild and agricultural lands, with an initial emphasis placed on alternatives to prescribed fire on wildlands.

Conclusion to Discussion of Alternatives:

Pete will address role of WGA and future plans

Pete will try to assemble a task team-send e-mail to FEJF list

Bob Palzer will follow up on potential TT leader

Steve will communicate with Jim Lawrence for potential state forestry interest

3. Alternatives to Burning – Agricultural Lands TT presented by Paula Fields (ERG)

Project Scope ERG Contract.

15 Western States (AK, AZ, CA, CO, HI, ID, MT, ND, NM, NV, OR, SD, UT, WA, WY)

Objectives

1. Compile crop and burning activity data for 1996 in GIS database
2. Identify non-burning alternatives and their impacts
3. Identify and understand barriers to alternatives and accountability mechanisms

4. Develop a plan for implementing a non-burning alternatives program

Tasks

1. Crop and Burning Activity Data

- Compile data from various sources
 - National / State Agriculture Stats Service (1996)**
 - Census of Agriculture
 - 1998 & 1999 WESTAR surveys
 - ERG team questionnaire and phone interviews
- Develop spreadsheets and GIS Arc View application
- Generate state-county maps of top crops harvested and residue burned
- Submit draft and final report

** 5th Edition 1995 EPA AP-42 Emissions Factors will be used. PM-10 only, not 2.5

2. Alternatives Selection Criteria

- Determine criteria for selecting reasonable alternatives based on impacts to:
 - Visibility
 - Environment
 - Economy
 - Social and Equity Issues
- Cost curves and applications of each alternative

3. Accountability Mechanisms

- Investigate current methods for documenting and approving agricultural burning
- Recommend feasible potential measures. Which types of mechanisms are most effective?

4. Administrative Barriers (Public acceptance, political, cultural, religious, aesthetics, economic challenges, administrative ease)

- Identify, characterize, and recommend ways to overcome non-statutory administrative barriers.

5. Implementation Plan

- Document results of this study and recommendations
- Describe impacts of alternatives, program accountability mechanisms, and barriers
- Recommend agency responsibilities
- Promote and facilitate stakeholder involvement

Products/Deliverables

Final report for each task with GIS maps (Task #1) at the county level, of residue burned and top crops produced for each state.

Schedule

Task

1	Draft Report/Draft GIS	June 12, 2001
	Presentation	July 12, 2001
	Final Report	Sept 12, 2001
	Final GIS	Dec 12, 2001
2	Draft Report	Aug 13, 2001
	Final Report	Sept 12, 2001
3	Draft Report	Aug 13, 2001
	Final Report	Sept 12, 2001
4.	Draft Report	Oct 12, 2001
	Final Report	Nov 12, 2001
5	Draft	Oct 12, 2001
	Presentation	Nov 12, 2001
	Final	Dec, 12 2001

4. Basic Smoke Management TT presented by Diane Riley

- Wildland Smoke Management Program Survey Review
19 states surveyed
16 local areas surveyed

Still missing NC, Western NC, and Harris County, TX

Creation of Summary table

- Survey questions turned into yes/no questions
- Results of survey can also be posted by question

TT conference call March 9th

- Ag Smoke Management Program Survey Review

21 States surveyed

19 local areas surveyed

Most everyone but a few local areas in WA have reported
EC/R got an extra \$4,000 for an extension due to the delay in getting all of the surveys in.

Will be posted. Period for comment/review will be two weeks after posting.

- Tribal Programs Survey with ITEP (William Malone-WMAT and John Graves-BIA assistance)

Results for tribal programs will be shown by statistics (i.e. pie charts), not by information provided by individual tribes.

Currently, ITEP is continues to contacting the tribes. Should have surveyed all tribes by the end of March.

Letter** is needed from FEJF addressed to ITEP and the tribes to request copies of SMP's (use for internal purposes restricted to the task team and FEJF)

Issues: How the information will be used
Anonymity of the survey (No Name)

**Larry Biland (EPA) and Diane Riley will work on the letter

Follow-up surveys with BIA agencies that prescribe burn for the tribes are being contacted by John Graves.

5. Public Education and Outreach TT – presented by Larry Biland

CA ARB and IASC is working on a smoke management/prescribed fire outreach and education materials. Comment: Would be good to integrate with National Fire Plan and FEJF Workplan. Needs contacts names and numbers.

A brochure is being created 8.5x11, should be sent out next week for review. Previous pictures could not be used in the brochure, although Larry has supplemented the flyer with his own illustrations.

6. Prescribed Fire Planning Assessment TT-presented by Frances Bernards

Evaluate whether smoke affects are incorporated into federal, state and private project-level (LMP/FMP) burn plans.

Workplan

Review of Burn Plans - Procurement of burn plans has been dismal.
States don't appear to keep records of burn plans.

Scope of work (to be discussed further between Frances Bernards, Suraj Ahuja and Jim Smitherman)

- Visibility/Plume Blight/NAAQS/Nuisance
- Assess project-level (LMP/FMP) burn plans at the federal, state and private level.
- Also perhaps include an assessment of the use of alternatives in the burn plans.
- Survey of most recent plans, not to exceed 5 years old.

****NOTES OBTAINED FROM FRANCIS****

Discussed details of RFP in great length. Deadline for draft is March 14. Draft RFP will then be sent to FEJF for review before sending to WGA.

TT will compile a list of contacts for federal (BLM, USFS, NPS, Fish & Wildlife, BIA, DOD, DOE), state, agriculture, private, and tribal land managers for AK, AZ, CA, CO, ID, MT, ND, NM, NV, OR, SD, UT, WA, and WY. These contacts can be used by contractor to gather information as specified in RFP.

Objectives: Evaluate whether or not smoke effects are being included in burn plans, programmatic plans, and Wildland Fire Situation Analysis using review criteria from the EPA Interim Policy. Evaluate if smoke effects are considered during implementation phase of burn plan. Evaluate whether non-burning alternatives are considered in planning documents.

Scope of RFP: A minimum of one burn plan, programmatic plan, and Wildland Fire Situation Analysis (WFSA) will be collected and reviewed for each land manager on list provided in RFP. For analysis of burn plans that have been implemented, one burn plan will be collected and reviewed for each land manager on list provided in RFP. Analysis of non-burning alternatives will follow the same procedure.

Deliverables: Results will be displayed in tables indicating whether fire effects are addressed in burn plans, programmatic plans and WFSA. Data will be grouped according to land use (e.g. agriculture, federal, private, state, and tribal).

2/22/2001 Las Vegas Notes

7. Emissions Task Team presented by Pete Lahm

Deadlines

- July 1996 Emissions Inventory for Modeling Forum Deadline was Jan
- Annual 1996 Emissions Inventory for Modeling Forum Deadline April

July 1996 Status

- Assumption – No Rx burning on Wild and Agricultural Lands, all emissions from wildfires.

No consensus between the monitoring/modeling/reporting forums on the format of this inventory. However, contracts are in place to convert the emissions inventory into something that the modelers can use.

Currently have a daily emissions inventory for July 1996, spatially and temporally, for fires throughout the west using ICS-209's and supplemental information from DOI and FS databases.

Emissions TT Topics –

A. Still need the PM-10/PM-2.5/EC/OC emissions factor to determine pollutant yields.

Options:

- IMFSL/USFS, Missoula MT
- ECR Report
- FEP Calculations
- Tom Pace OAQPS/NFTS
- Zilko, OR, WA, CO
- Use of 70/90% split of TSP for 2.5 and 10 respectively

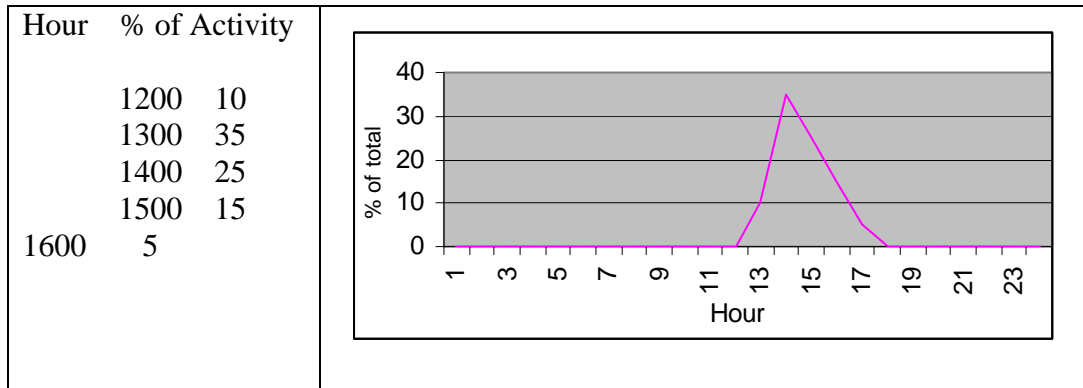
7/96 EI → Use example burn to test if our emissions factors/calculations are accurate

Possible use of FOFEM/Consume to determine emissions for one fire in each FS Region (per AP-42 approach) and compare with the emissions obtained using AP-42

B. Splitting fires into 24-Hour Curves

Ask Intermountain Fire Sciences Lab for ideas

Theoretical Curve (0000 is from 0000 – 0100 hours local time)



Emissions during all other hours contribute to a small percentage of a fire's 24-hour emissions curve. Remaining 10% is evenly distributed among remaining hours. Theoretical curve derived from primary burn period for wildfire.

Issues for 1996 full year EI:

- The emission production outside of the primary burning period
- Percentage of emission produced/Duration after the control date
- Heat release Curves

C. Missing Fires

There are a number of fires, totaling approx. 150,000 acres that are documented in federal databases, but not ICS209's or National Situation Report documentation.

Questions asked: What to do with these fires? Use them?

How to use these fires? There is no daily growth (only taking ignition date and control date and dividing the total acres by the total days for a daily activity rate). Concerns about using different methodologies.

John Graves will provide the forum with a more detailed table of information matching current 7/96 ICS209 based EI for the forum to consider the data that is available from the missing fires. Acres daily will be calculated for the days between the discovery date and control dates by dividing the number of acres by the burn duration. Completion of spatial information and FS Region needed for AP-42 emissions calculation will be submitted to ODF for GIS analysis support week of 3/5.

D. Outlines for July 1996 Emissions Inventory Submittal to WRAP Emissions Forum

- Emissions inventory Preparation Plan (Technical decision-making process)
- Emissions inventory Report (Summarize the results of the inventory)
- Executive Summary

EI Prep Plan Outline

Introduction: Purpose, and function from workplan/specific requirements from other forums. Assumptions including omission of Rx fire on ag and wildlands. International and PNF (MARK and DAVE)

Paula Fields (ERG) and the International Project Committee might have contacts for activity information for International Fires (Canada and Mexico). Contact modeling Forum to obtain the size of WRAP's domain. Pete to transmit request letter to Bill Auberle (International Projects Comm.-WRAP) and FS-PNW Experiment Station (Ernesto) on Mexican activity information. Query Border States for adjacent international emissions.

Activity Data:

General

- Boundary (PETE)
- Acquisition (Comparison Table of all databases) (PETE)
- Approach (PETE)

Details

- 209s/National situation reports (John)
- "Missing" dataset
- Adding FS Regions and GIS spatial completion process(Emmor)
- QA/QC
- Spatial verification (MARK)
- Raw data (Mark)
- Data integration (Mark)
- GIS (Emmor)

Emissions Calculation Process: (DAVE)

- Fuel Loading
- AP-42
- Emissions Factors
 - AP-42
 - Particulate Multipliers
 - 24 hr profile

Modeling Impacts File:

- Spatial ID/ Centroid

- Emission Rates Units
- General Formats

*****Further information in needed from the Modeling, Ambient Monitoring and Reporting, and Emissions Forums as well as WRAP modeling contractor UC Riverside. Emissions TT needs more direction on the format that the forum will require. Pete will send a memo to the other Forums (drafted this afternoon)

Proposed Emissions TT leadership and other Forum leadership meeting in Riverside (date proposed:)

Topics -

Modeling Forum Participants
FEJF Emissions Task Team Participants
Emissions Forum Participants
One or more of the contractors

Emissions TT Conference Call 2:00 2/28

Topics –

- 1) PM-10/2.5 Decision
- 2) Curve for 24-hour
- 3) “Missing Data” fires
- 4) Status of 7/96 Report

Emissions Inventory Report 7/96

Map Format – CIRA PAGE
Acres per Day
EC/OC/2.5
Appendix (table of raw data)

By State by month;

EI/AC
Fed/other Acres by state
Responsible Land Management Agencies

Letter to Emissions/Modeling Forums about Format – Riverside workshop announcement
Letter to International Projects Forum
International fire emissions

*****Next FEJF Meeting scheduled for Portland, OR on April 24-25*****