

**Conference Call Summary
WRAP Attribution of Haze Workgroup
October 22, 2004**

Attendees:

<u>Name</u>	<u>Affiliation</u>
Joe Adlhoch	ARS
Cassie Archuleta	ARS
Tom Moore	WRAP
Brock LeBaron	Utah DEQ
Bob Kotchenruther	EPA Region X
Don Arkell	WESTAR
Jason Walker	NW Band Shoshone Nation
Bob Palzer	Sierra Club
Tina Suarez-Murias	California ARB
Karen Magliano	California ARB
John Veranth	University of Utah
Dolly Potter	Solvay Minerals
Marc Pitchford	NOAA
Lee Alter	WRAP
Mary Uhl	New Mexico AQD
Ben Wear	Pueblo of Jemez, TOC
Bob Habeck	Montana DEQ
Mike Edwards	Idaho DEQ
Gail Tonnesen	UC Riverside
Lori Campbell	Nevada DEP
Janice Peterson	US Forest Service

Presentation:

ARS presented a short PDF presentation which reviewed the recent progress on summary products (<http://www.wrapair.org/forums/aoh/ars1/index.html>). Topics included: gridded emissions summary graphs; source apportionment summary charts; monitoring data summary charts; and emissions/mass/extinction summary charts.

Discussion:

Several points were discussed relative to the comparison between TSSA and Trajectory Regression Analysis source apportionment results:

- Results should be displayed in order of how close source regions are to the site in question. The concept of several concentric rings of source areas was generally accepted. Under this method, source contributions from adjacent states would be

presented first, then nearby regions, then distant regions and “other” types of categories. The exact makeup of each ring will be different for different sites.

- It was suggested that this analysis be done for only 20% worst and best days. Several questions must be resolved to do this:
 - 1) Are the best and worst days determined by modeling close enough to the best and worst days determined by monitoring data?
 - 2) How will the reduction in number of days affect the uncertainty of the analyses? Marc Pitchford said that this analysis technique is best done for the annual average. DRI is currently using 2000-2002 data in their trajectory regressions.

Several points were discussed relative to the timeline and pie chart products:

- Consensus was that the “W” and “B” indicators of worst and best visibility days on the timelines were more useful than the solid lines used in the previous version.
- The minimum and maximum extinction values making up the worst and best categories should be indicated along with the average value above the pie charts.
- No consensus was reached on whether to include Rayleigh scattering in the pie charts. ARS will make both versions available on the web site.

Several points were discussed relative to the emissions/mass/extinction summary charts which are similar in style and content to the GCVTC summary plots:

- General consensus was that these plots are useful to the states and should be included in some form.
- The emission pie charts can not be made too specific because of uncertainty in source contributions and the variable weight of each species to visibility. TSSA results will only give us SO₂ and NO_x source contributions. Trajectory regression analysis will only give us sulfate and extinction source contributions. It was suggested that a map of contributing states be used instead of the emissions pie chart.

The Dust Emissions Joint Forum and the AoH Workgroup will meet the week of November 15. Some final results are expected from DRI and UCR prior to the meeting. ARS will post some revised products on the project web site as final analysis results are supplied.