



WRAP Emission Forum Report

RPO Workgroup Meeting Presentation

Dallas, Texas - December 3, 2002

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Completed Activities

- 1996 Base Year Regional Emission Inventory
- 2018 Projections Regional Emission Inventory
 - Base Case
 - §309 Annex Milestones Case
 - §309 Command & Control BART
 - §309 Command & Control BART (w/ Uncertainty)



Long Term Issues

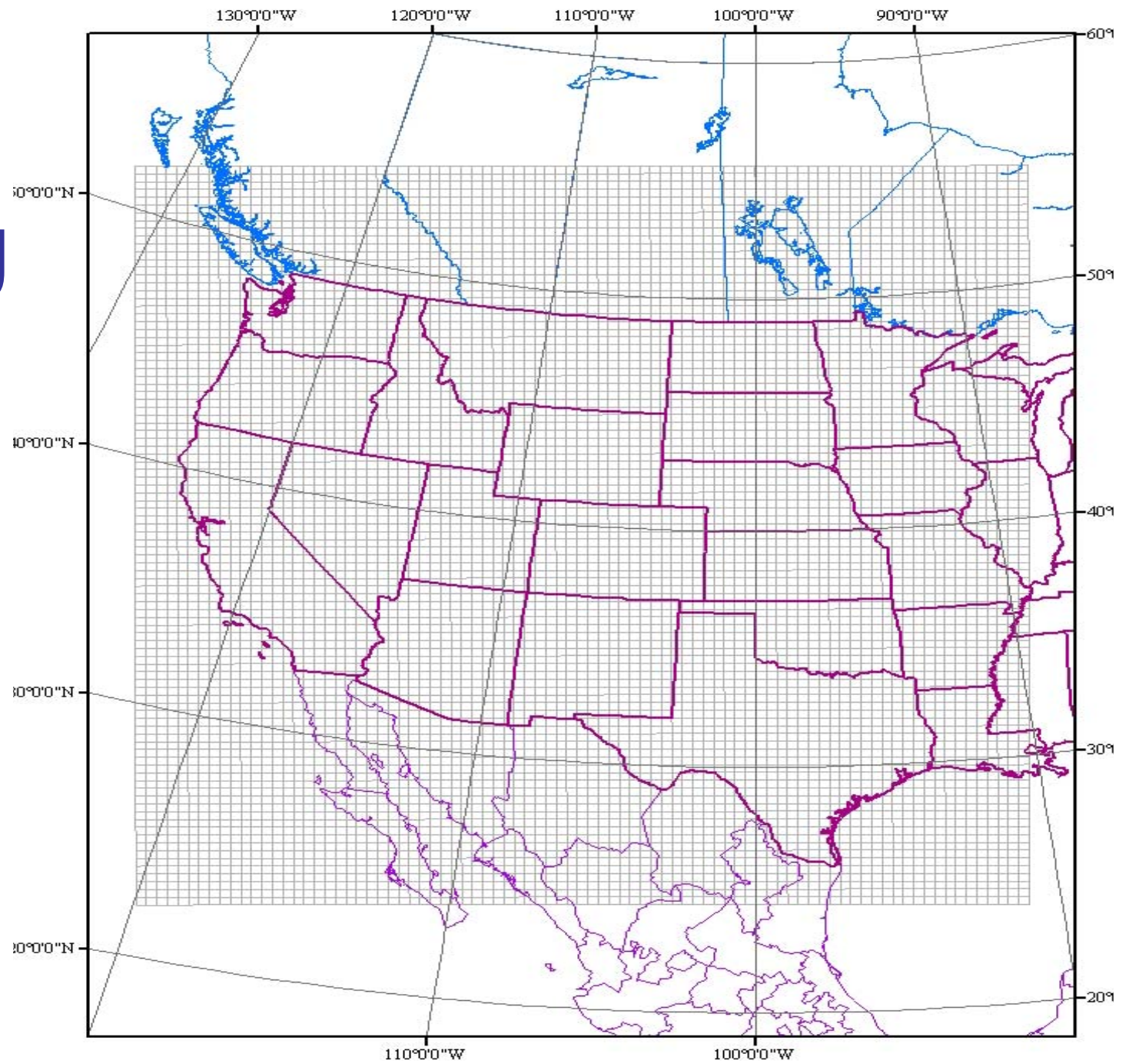
- WRAP Regional E.I. Database Development
- WRAP Regional E.I. Preparation Guidance
- WRAP Regional E.I. Improvements
 - Ammonia
 - Fugitive Dust
 - Temporal Allocation & Chemical Speciation



Completed Activities: '96 Base Year E.I.

- Revised '96 EI Completed Fall 2002
 - 13 state WRAP Region (AZ, CA, CO, ID, MT, ND, NM, NV, OR, SD, UT, WA & WY)
 - 9 Bordering CENRAP States (NB, KA, OK, TX, MN, IA, MO, AR, LA)
 - 7 visibility related pollutants (VOC, NO_x, CO, SO₂, PM₁₀, PM_{2.5} & NH₃)
 - 5 Main Source Categories
 - Point
 - Area
 - Mobile (both On-Road & Non-Road Mobile)
 - Fire (Wildfire, Wildland Prescribed Fire & Agricultural Fire)
 - Road Dust (both Paved & Unpaved)

WRAP Modeling Domain





Completed Activities: '96 Base Year E.I.

- Point & Area databases are available on the WEB:
<http://www.wrapair.org/forums/ef/index.html>
- Summaries are available for all source categories (totaled by State & by County)



Completed Activities: 2018 Projections

- Covers the same Pollutants, Source Categories & Geographic Area as the '96 EI
- The Point & Area Source Report is currently on the previously noted WRAP website, under the "Documents" page.
- Other Source Category projections (mobile & fire) are available as spreadsheet summaries

Long Term Issues:

WRAP EI Database Development

- the WRAP has struggled in this area
 - Web based display of data for Public Info.
 - Incorporate GIS for misc. §309 tracking rqmnts (CAC's, Fire, Mobile, Road Dust)
 - Proper input/output formats (NEI rqmnts, RPO Data Exchange Protocol effort)
- Decided to complete a "Needs Assessment"
 - RFP will be issued shortly

Long Term Issues:

WRAP Regional EI Guidance

- the WRAP intends to obtain the necessary data for a “dynamic” EI System, from the WRAP States, Tribes & Local Agencies
- ⑧ the Emission Forum has budgeted future monies to provide Data Protocol & User Training to these State, Tribal & Local agencies

Long Term Issues:

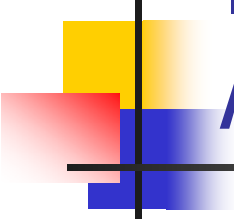
WRAP EI Improvements: NH₃

- The University of California @ Riverside provide the EF with a proposal in May '02
- Project will “incorporate NH₃ emission algorithms into a GIS based model”
 - Develop Environmental & Activity Data for:
 - Soils/fertilizers, Livestock temporal NH₃, domestic/composting sources
 - Develop a “fleetwide correction factor” for mobile source NH₃
- WRAP will move forward with \$85K project, but will specifically coordinate w/ CENRAP & other RPO's

Long Term Issues:

WRAP EI Improvements: Dust

- no “windblown fugitive dust” in current EI
- WRAP contracted w/ ENVIRON to develop a dust module for modeling, and to compile a 1996 fugitive dust PM10 & 2.5 EI using this module
- Uses emission factors from wind tunnel studies, along with extensive categorization of WRAP region lands (*Empirical Method for Determining Fugitive Dust Emissions from Wind Erosion of Vacant Land* methodology is on the EF Dust page & RFP is available under “WRAP Project Status”
- Spring 2003 Report – will notify RPO’s of Report Presentation by ENVIRON



Long Term Issues: WRAP EI Improvements for Temporal Allocation/ Chemical Speciation

- WRAP is concerned that temporal allocation & chemical speciation factors in the SMOKE emission processor, may not be accurate for western sources
- The WRAP Regional Modeling Center @ UCR will review the SCC's currently in SMOKE for appropriateness to western sources
- Then WRAP will look at sources representing the top "X%" of emissions for accuracy of speciation & temporal allocation profiles



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■ Questions ?