

***Operational Experiences from the
Western Regional Air Partnership
Emissions Data Management System***

<http://www.wrappedms.org>

EPA Emission Inventory Conference

May 17, 2006

E.H. Pechan & Associates, Inc.

and

WRAP Emissions Forum

Presentation Organization

- Compare and Contrast with Other Systems
- History
- Operational Experiences/Status
- Example Reporting
- Forward Look

Compare and Contrast with Other Systems

- Provides access to EI data that is complete
- Data loading by S/L/T or Pechan DBA
- Appeal to different levels of users
- Alternative data displays
- This becomes primary data source
- Information requests directed here

History

Date

- User requirements analysis 2003
- System design/development 2004
- Operational 1/2005

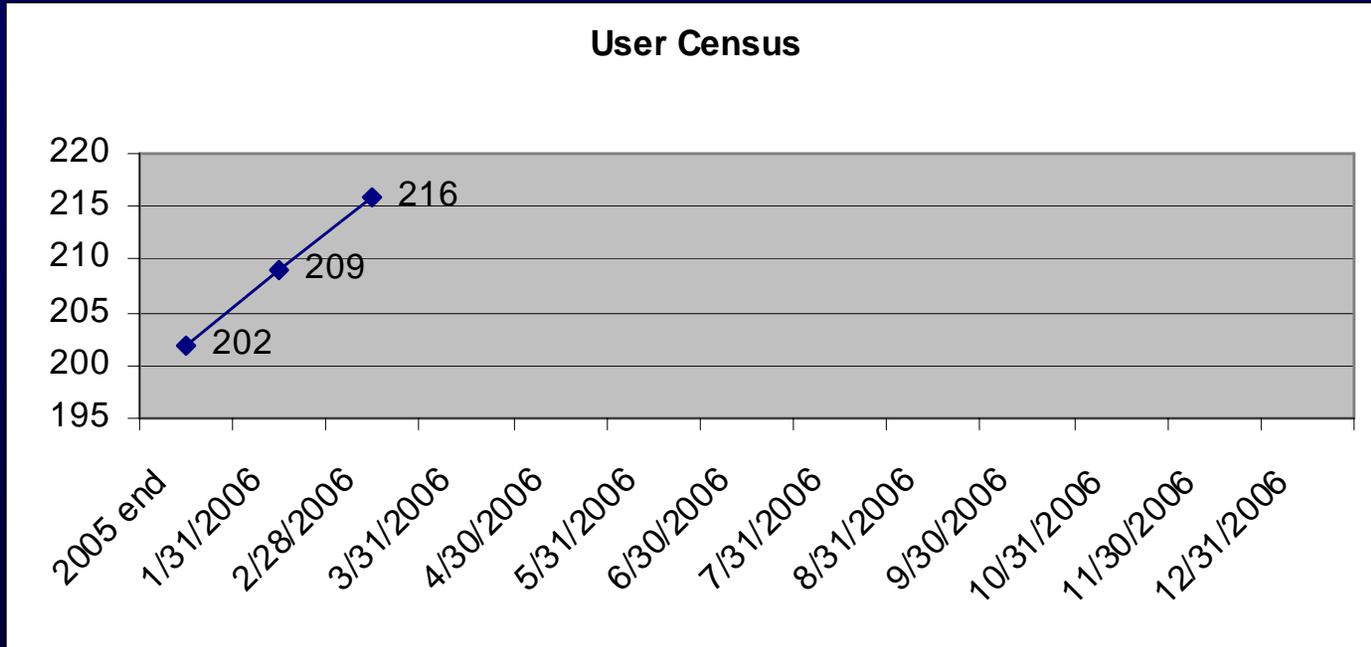
Usage

- Rollout 17 January 2005
- Six production inventories, 1 training inventory
- 50 Gigabytes of Production Data Managed
- 216 Users
- 569 Visits March 06
- ~11,700 page views March 06

Hosting

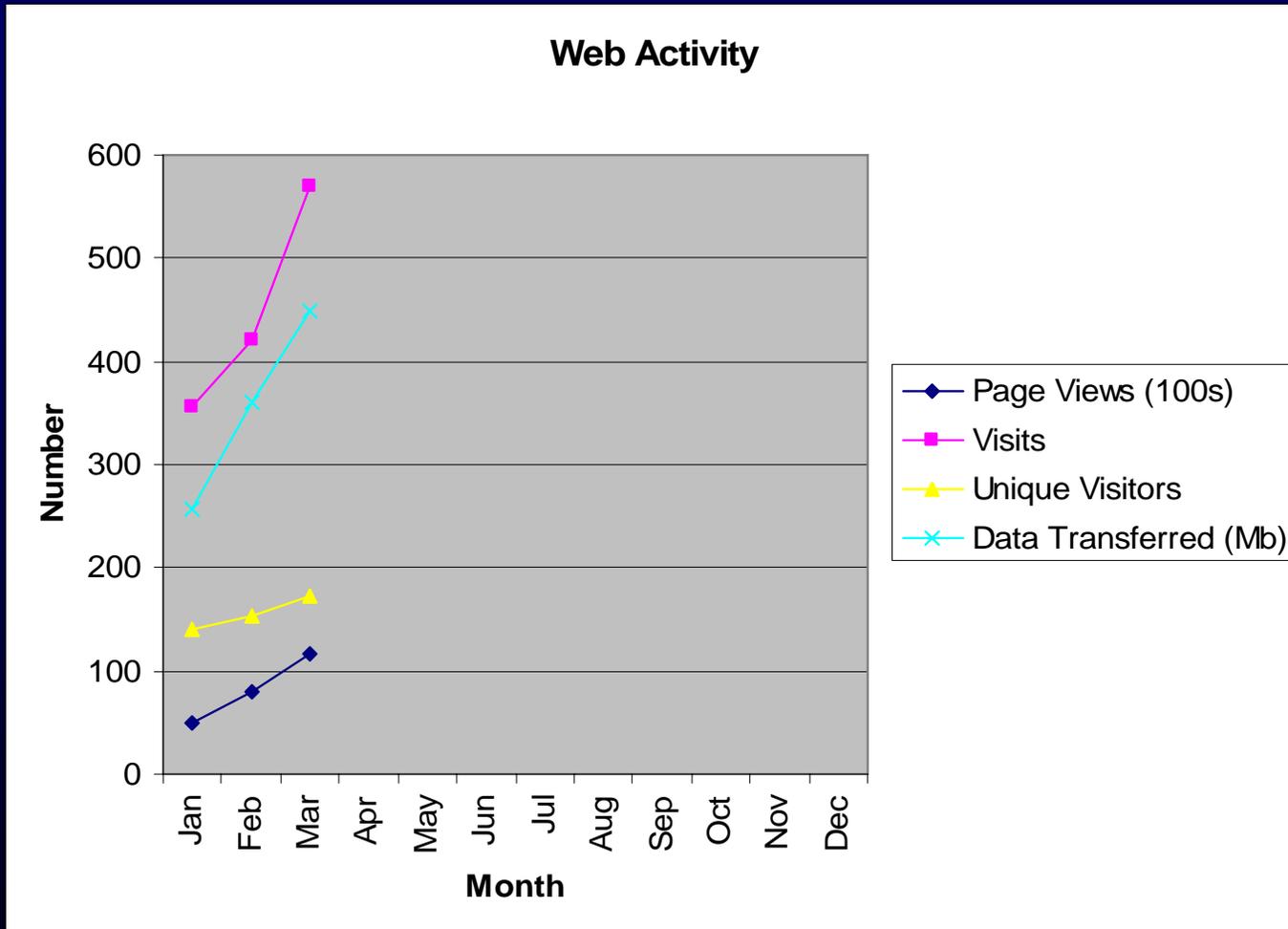
- UNC Data Center
- Dedicated Application Server
- ORACLE database server
- Network Infrastructure
- Communications
- Software Platform Licenses

User Census



General Users:	172
Data Analysts:	24
Data Owners:	20
Total:	216

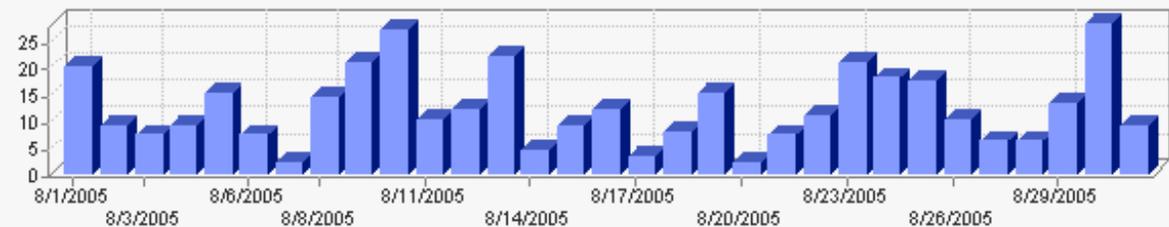
Web Activity



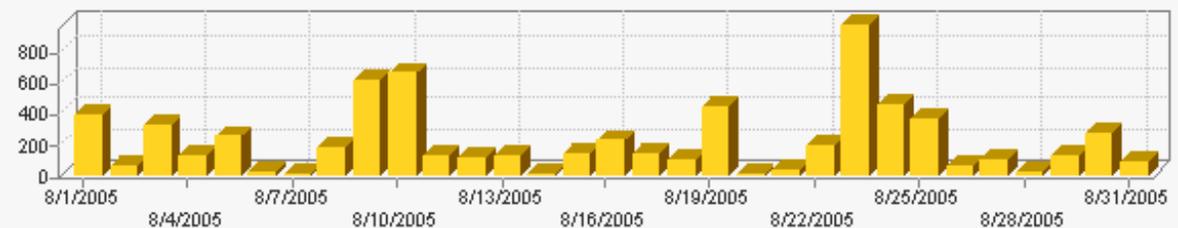
Web Activity Reporting

- ▶ Traffic Reports
- ▶ Search Engine Results
- ▶ Visitors
- ▶ Spiders
- ▶ Page Reports
- ▶ Marketing
- ▶ Browser Information
- ▶ Watches
- ▶ Errors
- ▶ Scenario Analysis

Visits by Day



Page Views by Day



EDMS-dBA Tasks/Functions

- Incorporate new data sets
- Answer user questions
- Quality control
- Steering committee meetings/interaction
- Newsletter
- dBA report
- Monthly progress report
- Web traffic report
- User training
- Project website management

Operating the EDMS

- Registration of Users
- How Data is uploaded
- QA/QC performed on data
- How data are revised
- Inventory pre-release steps and documentation
- DBA data retrievals and summaries
- System function problem or error procedures
- Logging of system events and user contact
- Documentation of the gap-filling process

EDMS Usage

- Initial data was provided by data providers (S/L/T agencies)
- Most recent data has been contractor prepared/provided
- Trend towards S/L/T agencies using EDMS as EI repository

WRAP-EDMS Inventory 8: Version 1.2 Calendar Year 2002 Emission Estimates

Sector	Data Provider
Point Sources	
Non-Fire	ERG (based on State/local/tribal agency submittals)
Fire	Air Sciences
Area/Nonpoint Sources	
Non-Oil and Gas	ERG (based on State/local/tribal agency submittals)
Oil and Gas	ENVIRON
Nonroad Mobile	ENVIRON
On-road Mobile	ENVIRON
Biogenics	Regional Modeling Center

Fire Emissions

- 2002 Inventory - Air Sciences
 - Wildfires
 - Agricultural Lands
 - Prescribed Fires
- Delivered and stored in Point Source format
- Data summarized and presented at the County level
- Working on design with the Fire Emission Joint Forum for Fire data
 - Individual episodes
 - Location tracking over time
 - Interface with Fire-specific models

Geogenic

- Windblown Dust (SCC = 2730...)
- 2002 Data - WRAP Modeling Center
- Stored in the Area Source data format
- Currently accessible from Inventory 7

Next Step

- Incorporate recent updates by sector
 - ERG/ENVIRON = data suppliers
 - When ready to load
- State/local/tribal review of version 1.3
- EGU facility ID fixes by Pechan
- Becomes version 2.0 after comment



» What is EDMS ? ▾

The Emissions Data Management System (EDMS) is an emission inventory data warehouse and web-based application that provides a consistent approach to regional emissions tracking to meet the requirements for State Implementation Plan (SIP) and Tribal Implementation Plan (TIP) development and periodic review and updates. The EDMS serves as a central regional emis...

[More Info](#)

» Latest Events ▾

→ April 21, 2005
[Does your query include all the data? Concerning jurisdictional overlaps...](#)

[More Info](#)

» Registration ▾

In keeping with the goals of the Rule, EDMS Users are required to register.

Registration enables them to use the tools that have been made for this purpose and further gives them access to exclusive information.

[Register Here](#)

» Members Login ▾

EDMS approved members are required to Login from here :

Login ID:

Password:

* Login ID & Password are case sensitive

[Register](#)

[Forgot Password](#)



 **Submit New Data**

Sector :

Inventory ID :



 **Submit New Data**

Sector Name	Point
Inventory ID	1

Data File

Comments

Note : Only .zip containing the data can be Uploaded.



[View Submitted Data](#)

Total Events : 52, Showing Page : 1 of 6

Go to Page : [7](#) [60](#)

No.	Submit Date	File Name	Sector	Inventory ID	Transfer Job ID	Overall Status	Details
1.	12/29/2004	PT_NEI02r1.zip	P	2	711	✘	More
2.	12/27/2004	NVar02CRIT.zip	A	2	652	✘	More
3.	12/27/2004	NEIWA01AIRHEAD2.zip	P	2	651	✘	More
4.	12/27/2004	washoearea.zip	A	2	654	✘	More
5.	12/27/2004	washoe.zip	P	2	653	✘	More
6.	12/21/2004	AKPT2002_FIN_Revised.zip	P	2	630	✘	More
7.	12/15/2004	NEINM02PTSSUMMERS.zip	P	2	610	✘	More
8.	12/15/2004	AZ013received14DEC04.zip	A	2	611	✘	More
9.	12/15/2004	AZ013Recvd14Dec04.zip	P	2	612	⌚	More
10.	11/10/2004	AZ013PT2002-FIN.zip	P	2	590	✘	More

[Previous](#) | [Next](#)

✔ : Executed ✘ : Error ⌚ : Pending

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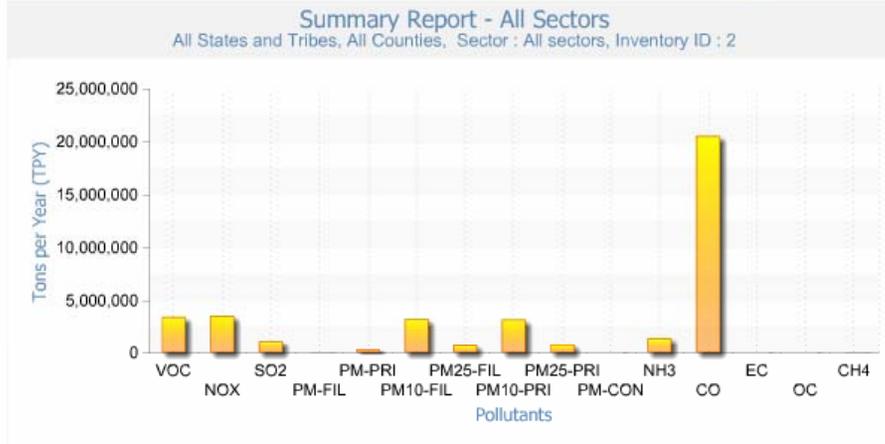
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Standard Reports

Graphical Chart View

Tabular Data View

State/Tribal : County : Sectors :
Inventory ID :



Graph Types

- Bar
- Pie
- Doughnut
- Line

Export Types

- JPG
- PDF

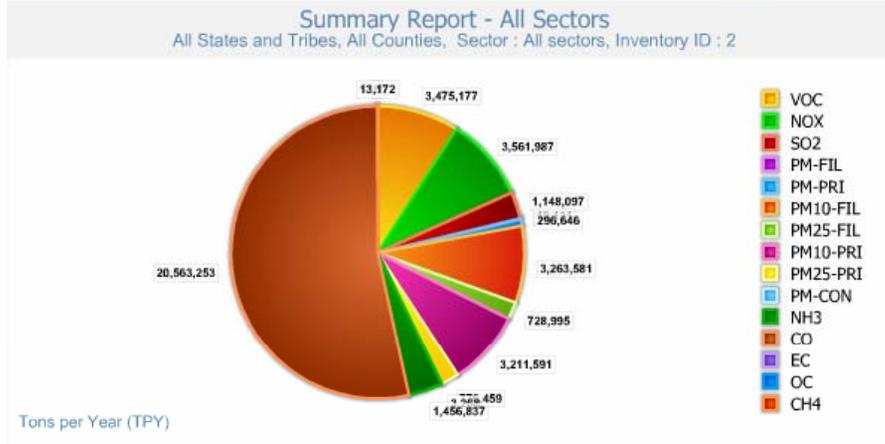
Standard Reports

Graphical Chart View

Tabular Data View

State/Tribal :
 County :
 Sectors :

Inventory ID :



Graph Types



Bar



Pie



Doughnut



Line

Export Types



JPG



PDF

Standard Reports

Graphical Chart View

Tabular Data View

Criteria >>All States and Tribes, All Counties, Sector : All sectors, Inventory ID : 2



Export

STATE	COUNTY	VOC (TPY)	NOX (TPY)	SO2 (TPY)	PM_FIL
REPORT TOTAL		3475177	3561987	1148097	
000	NO TRIBAL AFFILIATION	0	0	0	
000		0	0	0	
02	ALASKA	38548	111060	11586	
013	ALEUTIANS EAST BOROUGH	746	761	196	
016	ALEUTIANS WEST CENSUS AR	347	2416	134	
020	ANCHORAGE BOROUGH	10813	12760	547	
050	BETHEL CENSUS AREA	969	1291	90	

GIS / Dynamic Reports

Selected counties

Los Angeles (06037)

Update

Inventory: 1 : EPA Preliminary (2002)

- Point
- Area
- On Road Mobile
- Non Road
- Fire
- Windblown Dust
- Biogenic

HTML Tabular Report
 GIS Map Display

Fetch Facility Data

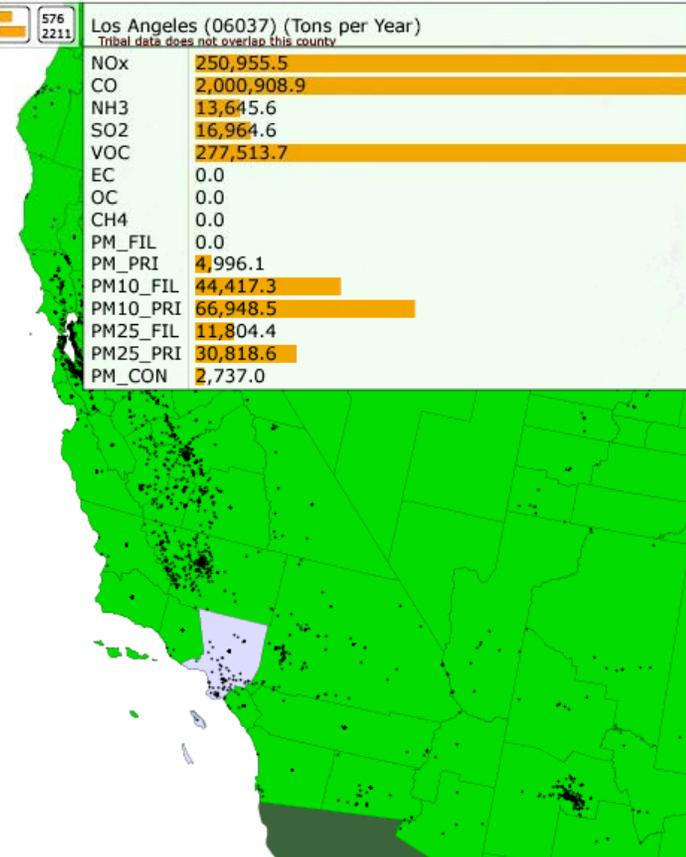
Run Report >>



Zoom Factor: 400%

Reset Distance Tool km

- Distance:
- Show Facilities
 - Show Counties
 - Show CAC Counties
 - Show CMSAs
 - Show MSAs
 - Show National Parks
 - Show Tribes
 - Show Railroads
 - Show Major Highways
 - Show Rivers
 - Show Lakes
 - Show More Layers





Data Owner : dataowner | [Logout](#)

Modeling

Modeling Query

Modeling Query Results

Modeling File Exports

Inventory ID

1 : EPA Preliminary (2002) ▾

Inventory Year

Loading....

Sector

Point ▾

Region

- 6 - South Central
- 8 - Mountains & Plains
- 9 - The Pacific Southwest
- 10 - The Pacific Northwest



State

All States



County

All Counties

Pollutant

- VOC
- NOX
- CO
- SO2

RESET →

GENERATE SMOKE MODELING FILE(S) →

Note :Please Press "ctrl" for multi select



Documents

Total Documents : 14 Showing Page : 1 of 2

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- » [1/11/2005 User Manual](#) [Download](#)
- » [4/26/2005 Inventory Description Document - Elevated Users \(multi-tabbed Excel spreadsheet\)](#) [Download](#)
- » [Data Submission Maps](#) [OpenURL](#)
- » [Documentation of Montana/Fort Peck Area Source potential overlap resolution](#) [Download](#)
- » [2/13/2004 Notes re The Prelim 2002, 2001v3 & 1999v3 NEI's](#) [Download](#)
- » [5/2004 Clean Diesel Program for Locomotives and Marine Engines](#) [Download](#)
- » [5/5/2004 Regional Haze Regulations and Guidelines for Best Available Retrofit Technology \(BART\) Determination; Proposed Rule as published in the Federal Register](#) [Download](#)
- » [not dated- WRAP Participation: Benefits and Commitments](#) [Download](#)
- » [not dated- Facts about the WRAP](#) [Download](#)
- » [not dated- WRAP Interest/Sign-up Form](#) [Download](#)

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Data Owner : dataowner | [Logout](#)

Ad-hoc Query

Ad-hoc Query

Ad-hoc Query Results

Ad-hoc File Exports

Inventory ID

1 : EPA Preliminary (2002)

Inventory Year

2002

Sector

Point

SCC-1 All SCC-3 All SCC-6 All SCC-8 All OR SCC-4 All SCC-7 All SCC-10 All

Region

6 - South Central
8 - Mountains & Plains
9 - The Pacific Southwest
10 - The Pacific Northwest

State

All States

County

All Counties

NAICS

Abrasive Product Manufacturing
Accommodation
Accommodation and Foodservices
Accounting, Tax Preparation, Bookkeeping

SIC

Abrasive Products
Accident and Health Insurance
Accounting, Auditing, and Bookkeeping
Adhesives and Sealants

Pollutant

VOC
NOX
CO
SO2

RESET

RUN AD-HOC QUERY

NIF EXPORT

Note .Please Press "ctrl" for multi select

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Coming Attractions

- EGU Adjustments
- XML NIF Import
- 2018 Emission Inventory Data
- 2005 EI repository

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