

Incorporation of State, Local, and Tribal Emission Inventory Data into the 1999 National Emission Inventory (NEI)

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Overview

- Description of the NEI
 - Only Discuss Point, Area Source Inventories for Criteria
- EPA's Plan for Incorporating State/Local/Tribal Data
- What Really Happened
- Lessons Learned

What is the NEI?

- Comprehensive Inventory Covering Criteria and HAP Pollutants
 - Stationary Point
 - Stationary Area (Non-Point)
 - Onroad Mobile
 - Offroad Mobile
- Created and Maintained by Emission Factor and Inventory Group of EPA

What is the NEI?

continued

- Annual National Inventory by EPA
- S/L/T Input Every 3 Years
 - 1996, 1999, 2002, ...

Version Numbers

- 1999 Version 1.0
 - Grown from previous year
- 1999 v1.5
 - Same as v1.0 but with 1999 EGU data
- 1999 v2.0
 - With EPA EGU Data and Input from S/L/T

EPA's Plan

- S/L/T Submit 1999 Data to EPA by June 1, 2001
 - NEI Input Format (NIF)
- EPA to integrate S/L/T Data
- Augment Data
 - EGU (SO₂ and NO_x only)
 - PM
 - NH₃

EPA's Plan

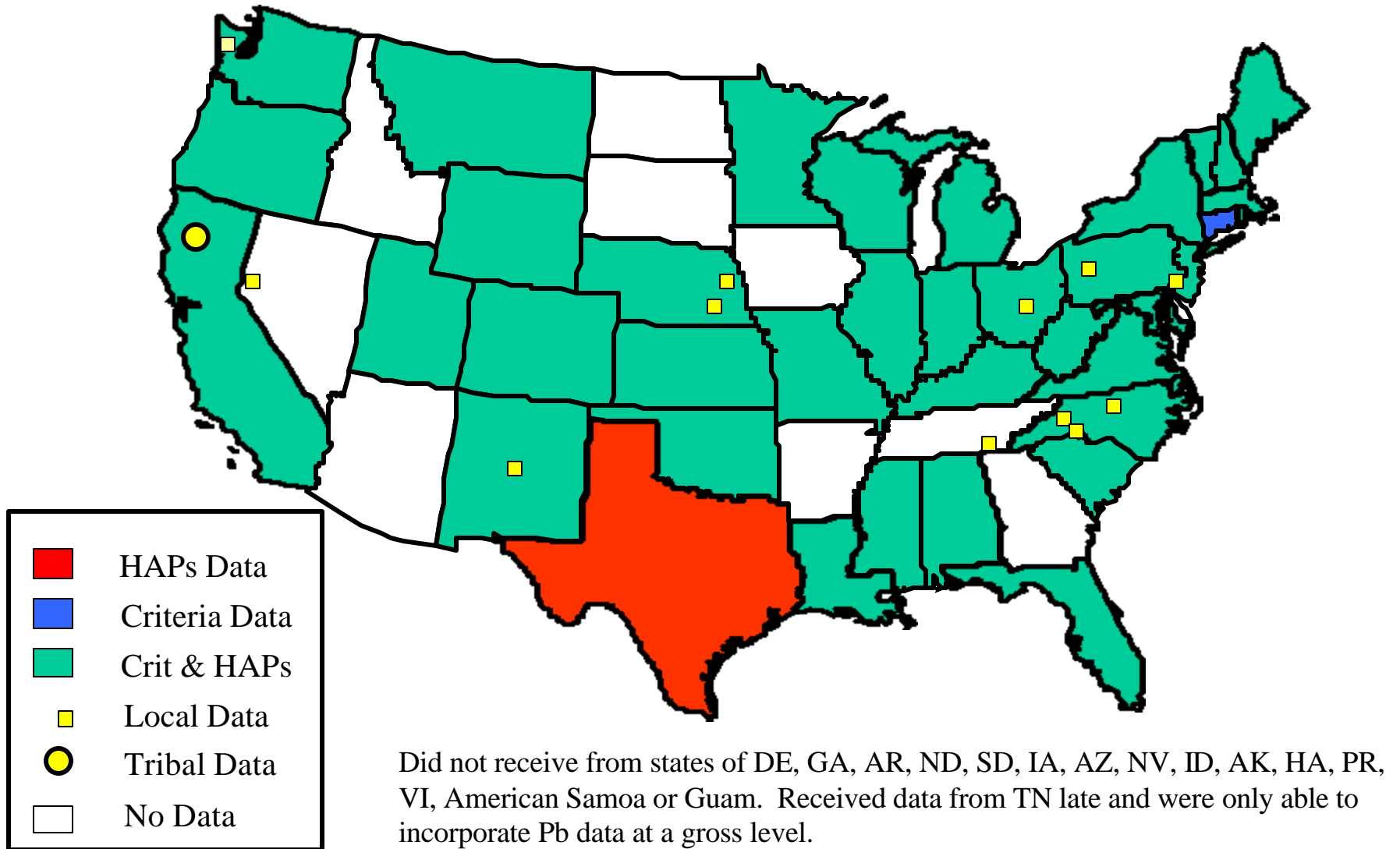
Continued

- Release Draft (v2.0) for Review
 - 4 Months to Review
 - Data Summaries
- Integrate State Comments/Revisions into Draft NEI
- QA Draft NEI
- Release Final NEI v2.0
- Start Over with V3.0

What Really Happened

- Point
 - 35 State, 11 Local
- Area
 - 14 States, 2 Local, 1 Tribal

S/L/T Submittals of 1999 Emission Inventory Data for NEI v 2



What Really Happened

Integration

- Integration Successful But with Difficulty
 - Most used CDX, some problems with transfer
- Format Issues
 - Incorrect Field Names
 - Nonstandard Pollutant Names (NO₂, SO_x, HAPS)
 - Nonstandard Units
 - PM issues (PM-FIL vs PM-PRI)
 - 2 Digit County Codes

What Really Happened

Data Submittals

Other Format Issues

- EPA's QA Software
- Mandatory vs Necessary
- Referential Integrity
- Missing Pollutants
- Lat/Lon in Degrees Minutes Seconds vs Decimal Degrees
- Lat/Lon Transposed

EGU Augmentation

NO_x & SO₂

- First Looked for a Match on ORIS ID, then Facility ID
 - Difficulties Matching
 - When Matches not Found, EPA Added Facility
 - Some Double-Counting of EGU's
- Notified S/L/T to Ignore Double Counting of EGU. EPA to fix.

PM Augmentation

- Purpose is to Populate NEI with PM10-PRI and PM2.5-PRI
 - Did not complete in time for Draft
 - Have since developed protocol
- Will Implement in April
- Protocol Uses AP-42 factors for Condensibles

NH₃ Augmentation – Pt Sources

- Used S/L/T data when Available
 - 12 S/L/T submitted NH₃ data
- Compare S/L/T Emission Total to v1.5
 - When $S/L/T < v1.5$, the Difference is Allocated to Emission Processes with NO_x Emissions.

NH3 Augmentation – Pt Sources

- For States that did not Report NH3
 - Match Facilities from v1.5 and Add NH3 Emission Record
 - If no match found, add NH3 records
 - Difficulty Matching Facility ID's
 - Maybe some double-counting

What Really Happened

Review - cont

- Review Went OK?
 - Difficulties/Confusion with Format
 - Submittal Flag Issues (RD/RA, A, D)
 - Some States sent in Whole New Inventories
 - Some of these were accepted

WRH

Review - cont

- Most Comments to us Last Minute
 - In Future, Less Review Time?
- States - Pls Don't Use Version 2.0 for Modeling
- EPA currently (mid-April) Still Incorporating S/L/T Comments

More QA Planned

- Inventory Final Mid-July
 - Used to be June 1
- More QA Planned
 - Compare Emissions to V1.5
 - Density and Emissions Plots
- Version 3.0 Inventory Data Still Due June 1, 2002

Lessons Learned

- Correct Format and Codes
- Facility ID's
- Invalid SCC & SIC
- Revise NIF regarding Tribal ID
- County Code 777
- Submittal Flags