



Technology Transfer Network

Clearinghouse for Inventories & Emissions Factors

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2002 National Emissions Inventory Data & Documentation

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Explanation of File Formats

General Inventory Information
2002 National Emission Inventory (NEI) Preparation Plan - Final August 2004 (PDF 230K) 2002 National Emission Inventory (NEI) Briefing - March 2004 (PDF 1.15M)
Inventory Documentation
<p>Point Documentation for the Final 2002 Point Source National Emissions Inventory - July 2006 (PDF 270K) Emission Inventory Quality Assurance and Data Augmentation for Point Sources - updated July 2006 (PDF 250K) Documentation for the 2002 Electric Generating Unit (EGU) National Emissions Inventory (NEI) - September 2004 (PDF 125K) Describes how EPA created emission estimates for EGUs for the draft 2002 NEI. These estimates remain in the Final 2002 point source file wherever State, Local, or Tribal submittals did not replace them. Revision of the PM emissions from natural gas combustion in the final version of the 2002 NEI. - August 2005 (PDF 68K)</p> <p>Point Source Augmentation Support Files (cited in Augmentation Report)</p> <ul style="list-style-type: none"> • EIS Code Look up tables Updated October 6, 2008 • Mercury Speciation (ZIP 30K) Updated December 19, 2006. Profiles were updated for 2002 NEI source categories including new data for mobile sources. • NEI2005 Look up tables other than those included in EIS Code Look up Tables Updated April 4, 2009 • Toxicity weighting factors (MDB 290K) Updated January 10, 2007. • Ratios to adjust PM (XLS 37K) • Stack parameter defaults (MDB 1M) • NEI Pollutant Codes with Chemical Identification Standard - Readme file (PDF 13K) • NEI Pollutant Codes with Chemical Identification Standard (MDB 520K) January 2007 • CAP source category crosswalk (MDB 2.7M) • HAP source category crosswalk (MDB 8M) • PM augmentation ratios (ZIP 90MB) - Updated June 2007 • SCC emission release point crosswalk (MDB 188K) • SIC/NAICS 3km ERP acceptable (MDB 130K) • ZIP code tables (MDB 10M)

Nonpoint

[Documentation For The Final 2002 Nonpoint Sector \(Feb 06 Version\) National Emission Inventory For Criteria And Hazardous Air Pollutants, including Appendix A: Criteria and HAP Emissions Estimation Methodology - Final, July 2006.](#) (PDF 2.3M)

[Appendix B: Electronic Appendix Containing Data Sets Used to Spatially Allocate National Activity Data and Emissions to Counties \(MDB 7.5M\)](#)

[Appendix C: Emission Factors and County-Level Activity Data Used to Calculate 2002 Emissions by Category \(ZIP 4.4M\)](#)

[Appendix D: Electronic Appendix Summary of Changes Made to State, Local, and Tribal \(S/L/T\) Inventory Data to Prepare the Draft 2002 and the Final Nonpoint Source NEI \(XLS 1M\)](#)

[Review of Wood Heater and Fireplace Emissions Factors - December 2006 \(PDF 135K\)](#)

[National Emission Inventory: Ammonia Emissions from Animal Agricultural Operations, Revised Draft Report - April 2005 \(PDF 9K\)](#)

[Solvent Mass Balance Approach For Estimating VOC Emissions From Eleven Nonpoint Solvent Source Categories - Draft March 28, 2005.](#) (PDF 3.5M)

Mobile

[Documentation Updates for 2002 Version 4 - November 2008.](#)

[Documentation For The Final 2002 Mobile National Emissions Inventory - Version 3 - September 2007.](#) (PDF 986K)

[Documentation For The Onroad National Emissions Inventory for Base Years 1970-2002 - January 2004.](#) (PDF 265K)

[Documentation For Aircraft, Commercial Marine Vessel, Locomotive, And Other Nonroad Components Of The National Emissions Inventory, Volume I - Methodology - September 2005.](#) (PDF 700K)

[Documentation For Aircraft, Commercial Marine Vessel, Locomotive, And Other Nonroad Components Of The National Emissions Inventory, Volume II - Supporting Documentation \(PDF 17K\)](#)

[General Aircraft References \(PDF 11M\)](#)

[General Commercial Marine Vessel References \(PDF 6.5M\)](#)

[General Locomotive References \(PDF 4.7M\)](#)

[General Other Nonroad References \(PDF 20M\)](#)

Inventory Data

Point Sector Data - Version 3 of the 2002 NEI - The following zipped Access summary files were created in September 2007 and contain annual emissions in tons per year. If you have any questions, please contact [Roy Huntley](#) or (919) 541-1060. Questions on Hazardous Air Pollutants (HAPs) and the ALLNEI CAP file should be directed to [Anne Pope](#) or (919) 541-5373.

[Point Facility Summary](#) - For both CAPs and HAPs (18 MB)

[SCC Summary](#) - For both CAPs and HAPs at county, state and national level. (31 MB)

[ALLNEI_HAP_Annual_01232008](#) - Point stack summary data for HAPs only (129 MB)

[ALLNEICAP_Annual_11302007](#) - Point stack summary data for CAPs only (174 MB)

[NEI_2002_Point_Facility_ID_History_01182008](#) - Facility identifiers, names and locations for sites in current and previous version of the NEI (Created 1/2008) (22 MB) If you have any questions, please contact [Anne Pope](#) or (919) 541-5373.

Nonpoint Sector Data - Version 3 of the 2002 NEI - The following zipped Access summary file was created in September 2007 and contain annual emissions in tons per year. If you have any questions, please contact [Roy Huntley](#) or (919) 541-1060.

[SCC Summary](#) - For both CAPs and HAPs at the national, state, and county level. (73 MB)

All Sector Data - Version 3 of the 2002 NEI - The following zipped Access file was created in October 2007 and contains Tier 1, Tier 2, and Tier 3 summaries for criteria pollutants only. Annual emissions are in tons per year. If you have any questions, please contact [Roy Huntley](#) or (919) 541-1060.

[Tier Summary - County, State and National Level \(52 MB\)](#)

Mobile Sector Data - Version 4 of the 2002 NEI - The following zipped Access files were created in September 2008. Annual emissions are in tons per year with zero emission values removed. Nonroad files include aircraft, locomotive, and commerical marine vessels. No code description are added to these files to limit the file size. SCC and pollutant descriptions are provided at [EIS Code Tables](#). Point of contact for the Mobile Section is [Laurel Driver](#) or (919) 541-2859.

SCC Summary

[Nonroad County 9 of 9 \(354.53 MB\)](#)

[Nonroad State and National \(12.97 MB\)](#)

[Onroad County 5 of 5 \(209.38 MB\)](#)

[Onroad National and State \(17.98 MB\)](#)

Auxillary Files - NMIM National County Database (NCD) Files - The following files were created in July 2007. The zipped file contains the MySQL NCD tables and external files used to develop the 2002 NEI Version 3 emissions estimates.

[NCD Files \(181 MB\)](#)

2002 Nonroad Supplement GIS Data - For nonroad source categories, activity or fuel use data are not readily available for all counties in the U.S. Therefore, emissions often are calculated at the national level and allocated to individual counties based on appropriated surrogates. Often the surrogate data are available as Geographic Information System (GIS) data sets. Three sets of files are provided here which contain the GIS data used to spatially allocate emissions for aircraft, commerical marine vessels (CMV), and locomotives. All of the 2002 data used in this inventory effort were obtained from the Department of Transportation's Bureau of Transportation Statistics (BTS) or the FAA's Emissions Dispersion and Modeling System (EDMS)

[2002 Nonroad Supplement GIS Data](#)

Biogenic Sector Data

[Biogenic Sector Data](#) and [Readme for biogenic data](#) - The biogenic emissions data has not been updated since it was originally posted in March 2004. It has been moved to the Final 2002 NEI FTP site for your convenience.

National Emissions Inventory Input Format

[NEI Code Tables](#)

Posted Updates to Data

If you would like to submit comments or recommendations, please send an email to the Info Chief Help Desk at info.chief@epa.gov. The subject should be "**2002 final NEI comment**." As time and resources permit the 2002 inventory will be updated and corrected. This information is also posted in the folder [General_Inventory_Information](#) on the FTP site.

- **February 23, 2006: Files related to the following areas of the NEI are not included in this release but will be available shortly:**
 - Emission estimates and documentation for CAP and HAP emissions from Wildfires and Managed Burns.
 - Nonpoint sector documentation.
 - Point sector documentation and QA augmentation report.
- **March 1, 2006:**
 - Readmes were added to national ASCII text files and reposted.
 - SCC, SIC, and facility summary files for point sources were posted. CAP only.
 - SCC summary files for nonroad and onroad mobile sources were posted. CAP only.
 - SCC summary files for nonpoint sources were posted. CAP only.
 - All sector (sources) Tier 1, 2 and 3 summary files were posted (all_sector_summary_data folder). CAP only.
- **March 9, 2006:**

- The nonroad national ASCII zip file was reposted. The EM table was too large and was divided into two tables.
- The onroad and nonroad county summary files were reposted. Files containing the individual County-SCC-Pollutant Emissions values in tons per year for 2002 are being provided in a set of five tab-delimited ASCII format files, because a single file for the entire US is too large to be readable in most systems.
- The CAP nonroad and onroad SCC summary files were updated.
- The CAP point SCC and SIC summary files were updated.
- The CAP nonpoint SCC summary file was updated.
- The Tier 1 through Tier 3 CAP all sector files were updated.
- **March 15, 2006:**
 - Biogenic data from March 2004 was moved to 2002 NEI final FTP site. No changes were made to the data.
 - A point source facility file was added to the point_sector_data which includes facility IDs and history from 1999 to 2002. A readme file is included with the zipped MS Access file.
 - The augmentation report, *NEI Quality Assurance and Data Augmentation for Point Sources*, dated February 2005, was added to the inventory_documentation folder.
 - Links to the NIF code tables and NOF structure specifications were added to this webpage in the table above.
- **March 22, 2006:**
 - The following point sector files were updated:
 nei2002_point_state_summary.zip
 nei2002_point_national_summary.zip
 nei2002_point_county_summary.zip
 nei2002_cap_sicssummary.zip
 nei2002_cap_point_sccsummary.zip
 nei2002_cap_facilitysummary.zip
 - The following all sector files were updated:
 nei2002_cap_all_sector_tier3annual_summary.zip
 nei2002_cap_all_sector_tier2annual_summary.zip
 nei2002_cap_all_sector_tier1annual_summary.zip
- **April 12, 2006:**
 - The following file was updated:
 nei2002_point_detailed_data_040506.zip. Detailed national ASCII files prepared in NEI Output Format (NOF) - Data updated.
- **May 31, 2006:**
 - The following regional MS Access files prepared in NEI Output Format (NOF) were posted:
 nofv3_msaccess2002_jan05_pointregion1.zip
 nofv3_msaccess2002_jan05_pointregion2.zip
 nofv3_msaccess2002_jan05_pointregion3.zip
 nofv3_msaccess2002_jan05_pointregion4.zip
 nofv3_msaccess2002_jan05_pointregion5.zip
 nofv3_msaccess2002_jan05_pointregion6.zip
 nofv3_msaccess2002_jan05_pointregion7.zip
 nofv3_msaccess2002_jan05_pointregion8.zip
 nofv3_msaccess2002_jan05_pointregion9.zip
 nofv3_msaccess2002_jan05_pointregion10.zip
- **Oct 20, 2006:**
 - Summaries of changes between version 1 and version 2.
- **August 2, 2007**
 - 2002 Aircraft emission estimates have been revised for lead, arsenic, and mercury and to place all airports at latitude/longitude (point source) locations. Please see the README file posted with the data.
- **October 15, 2007**
 - Point Facility Summary file for both CAPS and HAPs was posted
 - Point SCC Summary file for both CAPs and HAPs at the county, state, and national level was posted
 - Nonpoint SCC Summary file for both CAPs and HAPs at the county, state, and national level was posted
 - Tier Summary file for CAP was posted
 - Onroad/nonroad SCC summaries for CAP and HAP were posted.
- **October 22, 2008**

- 2002 Lead emissions at airports have been revised. The Technical Support Document (TSD) posted here provides the methodology used to estimate airport-specific lead emissions. The airport-specific lead estimates for 2002 are also provided in this TSD. The 2002 NEI does not include these updates. Subsequent NEI base years will incorporate the methods documented here.
- **November 18, 2008**
 - Onroad and Nonroad documentation updates for 2002 V4 were added.
 - SCC Summaries for 2002 V4 replaced V3 Onroad and Nonroad