

To examine emission trends on a regional basis in the United States, a data file has been constructed which also uses historical fuel usage figures to calculate emissions of SO₂ and NO_x from various categories of sources. The basis file contains emissions at the individual state level for the following source categories:

- Electric Utilities
- Industrial
- Commerical/Residential
- Pipelines
- Highway Vehicles
 - Gasoline-Powered
 - Diesel-Powered
- Miscellaneous
 - Railroads
 - Vessel
 - Misc. Off-Highway Mobile
 - Chemicals
 - Primary Metals
 - Mineral Products
 - Petroleum Refineries
 - Others

The file currently contains data for 33 eastern states plus the District of Columbia. Years on record for the file are 1950, 1960, 1965, 1970, 1975, and 1978.

For the electric utility sector, all power plants greater than 25 megawatts have been identified and located by the appropriate county within each state for each year of record. Emissions of SO₂ and NO_x have been determined for each year for all such power plants. Consequently, it is possible to identify power plants emissions on a county-by-county level for each year of record for all 33 states.

The file identifies each power plant by name, size, county location, and SO₂ and NO_x emissions from coal, oil, and natural gas consumption. The file also contains fuel usage information and has some limited data on stack height.

To distribute the non-power plant emissions to a county level, work is underway using historical census data to assign the statewide emissions to the county level. The technique to be used is to apportion the emissions to the county base on a historical population basis. The Brookhaven National Laboratory is currently conducting this work. A partial file is currently available from Carmen Benkovitz and it is expected that EPA/OAQPS will complete this file for Work Group 2. A paper describing the methodology is currently being prepared by a contractor for EPA/OAQPS.