

This file contains the data and Stata code used to create the tables and figures in "Decomposing Changes in Establishment Level Emissions with Entry and Exit" published in the Canadian Journal of Economics.

The Stata .do file "LaPlue-Holladay_Decomposition_analysis.do" can be run by changing the initial directory. The analysis was conducted using Stata version 15. The results using establishment data from the NETS have been partially aggregated to the SIC4 industry level (rather than all the way to the annual level, as detailed in equations (4) and (5) of the accompanying paper.

The .do file takes 6 pollutant-specific industry data (.dta) files and generates the output summarized in the main tables and figures in the paper. The .do file also provides additional explanation for variable names.

The final results for each pollutant are exported to the excel file "4_channel_decomp_CJE_final.xlsx" where the tables and figures are formatted.

The Excel file contains:

- 1) 6 sheet with the decomposition results for Volatile Organic Compounds (VOCs) and other pollutants
- 2) A sheet ("Decomp Results and Figure 1") referencing the decomposition results to create Figure 1 and perform summary calculations used in Table 1 (which is formatted in sheet "table 1")
- 3) A sheet ("table 2" with the expanded decomposition results for Volatile Organic Compounds (VOCs), used in Table 2
- 6) A sheet ("table 3") with the decomposition results for the pollutants and Hazard, EPA's measure of the total toxicity of pollution, used to create Table 3

The data is derived from the National Establishment Time Series. That data was purchased from Walls and Associate, the vendor for the NETS. The licensing agreement prevents us from re-publishing the NETS data.

Walls and Associates has agreed to provide the same extract of the NETS data used here to other academics at a reduced price. Contact Walls and Associates or the authors of this paper for more details. Walls & Associates, 1891 Curtis St, Unit 1910, Denver, CO 80202-1949. Phone is (720)255-2869 and email dwalls2@earthlink.net.

The raw RSEI data is available from the U.S. Environmental Protection Agency's EasyRSEI site (<https://edap.epa.gov/public/extensions/EasyRSEI/EasyRSEI.html>). We matched the data to the NETS data using the DUNS field common to both datasets. That merged data set was aggregated to create the 6 pollutant-specific industry data (.dta) shared here.

References

U.S. Environmental Protection Agency, Office of Pollution Prevention & Toxics, "U.S. EPA Risk-Screening Environmental Indicators (RSEI)" Version 2.3.4, 2015.
Walls & Associates, "National Establishment Time-Series (NETS) Database," 2015.