

“Jobs for the Heartland: Place-Based Policies in 21st-Century America”

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Overview

This online repository contains the code necessary to replicate figures and tables in the paper “Jobs for the Heartland: Place-Based Policies in 21st-Century America”. The data and programs are provided for use in replicating the particular analyses reported in the paper.

Source Data

To conserve space due to large file sizes, we have provided all the code and final datasets used to produce figures and tables. We also provide all the pre-processing code used to produce the final datasets used in the paper. We provide details below for how the interested reader can download the raw data used to produce the final datasets. The cleaning files refer to the source file names as listed below.

Stata Version

Stata has been used for all data processing and analysis in this paper. The files are all saved in Stata 15 format, and calculations have been performed using Stata/MP 15.1 for Mac (64-bit Intel).

Output (/output)

This folder contains final output for the paper, including figures and tables. In all cases the output includes:

1. final processed data in a Stata dta file (and .xlsx file for figures)
2. log file
3. The final image in eps format for figures

Do Files (/do)

This folder contains all the do files required to replicate the paper. These are divided into four folder:

- /clean provides code used in the pre-processing of data
- /figures provides code to produce all the figures in the paper
- /tables provides code to produce the tables in the paper

Data Files (/dta)

This folder contains data used in analysis.

- This folder contains clean data and supporting files
- /raw contains raw data extracts

Due to space limitations, original data extracts and pre-processed data files are not included in the replication archive. All do and log files are included for reference, but if readers are interested in replicating the intermediate steps, additional data will need to be downloaded.

Below we provide a list of all files that need to be downloaded, and where the data can be acquired from. In this archive, we include an csv file extract of the relevant raw data files that indicates all the variables and formats that were used for IPUMS extracts.

Files in /dta/raw

- acs_raw contains the extract from the American Community Survey, 2005-2016. The data was accessed from <https://usa.ipums.org/>
- census00_raw contains the extract from the 2000 decennial census. The data was accessed from <https://usa.ipums.org/>
- census90_raw contains the extract from the 1990 decennial census. The data was accessed from <https://usa.ipums.org/>
- census80_raw contains the extract from the 1980 decennial census. The data was accessed from <https://usa.ipums.org/>
- asec_raw contains the extract from the Current Population Survey, Annual Social and Economic Supplement. The data was accessed from <https://cps.ipums.org/>
- atus_raw contains the extract from the American Time Use Survey. The computer use includes playing games (activity 120307) and computer use for leisure, excluding games (activity 120308). The data was accessed from <https://www.atusdata.org/>
- /brfss contains the 2005 - 2016 raw data files from the Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System annual survey. The CDC website provides the raw data in SAS Transport Format in annual files, and this has been directly imported into Stata to produce annual dta files. The data was accessed from https://www.cdc.gov/brfss/annual_data/annual_data.htm
- /cex contains the raw 2016 data files from Bureau of Labor Statistics Consumer Expenditure Surveys Public-Use Microdata Interview Files. The following files are required: fmli161x.dta, fmli162.dta, fmli163.dta, fmli164.dta, fmli171.dta, memi161x.dta, memi162.dta, memi163.dta, memi164.dta, memi171.dta. The data was accessed from https://www.bls.gov/cex/pumd_data.htm
- krugerddata_brookingsbpea092017.xlsx contains data on Opioid use from Krueger (2017). The data was accessed from: <https://www.brookings.edu/bpea-articles/where-have-all-the-workers-gone-an-inquiry-into-the-decline-of-the-u-s-labor-force-participation-rate/>
- bea_raw contains the original files extracted from the Bureau of Economic Analysis data, including Table 1.1.9. Implicit Price Deflators for Gross Domestic Product, Real GDP by state (millions of chained 2009 dollars) using NAICS industry classifications 1997-2017, and Gross domestic product (GDP) by state (millions of current dollars) using SIC industry classifications 1963-1997. Data was accessed from: <https://www.bea.gov/>

- `bls_raw` contains the original files extracted from the Bureau of Labor Statistics data. Two tables are included: Labor Force Participation Rate - 25-54 yrs., Men (LNS11300061) and Labor Force Participation Rate - 25-54 yrs., Women (LNS11300062). Data was accessed from: <https://www.bls.gov/>
- `cdc_mortality_1968_1978.txt`, `cdc_mortality_1979_1998.txt`, `cdc_mortality_1999_2016.txt` contain raw output from the Centers for Disease Control and Prevention, National Center for Health Statistics. Compressed Mortality File. Data accessed from the CDC WONDER online database for mortality data on prime aged men 25-54 in the United States, at <http://wonder.cdc.gov/>
- `census_migration` contains the original data Table A-1 accessed from the United States Census Bureau CPS Historical Migration/Geographic Mobility Tables. Data accessed from: <https://www.census.gov/data/tables/migration/demo/geographic-mobility/historic.html>

Tables 4 and 5 extend the analysis of Autor, Dorn, and Hanson (2013) and Nakamura and Steinsson (2014) and use data drawn from the relevant replication files:

- `statefiscal.dta` is from the replication files for Nakamura and Steinsson (2014). Accessed from: <http://www.columbia.edu/~en2198/papers.html>
- `workfile_china.dta` is from the replication files for Autor, Dorn, and Hanson (2013). Accessed from: <https://www.ddorn.net/data.htm>

Additional files in /dta:

- `corruption.dta` provides average federal corruption conviction rates. These are calculated using the methodology outlined in Glaeser and Saks (2006). The original data series from the paper has been extended by the authors
- `cpi_factor.dta` provides conversion factors to 2016 dollars, and is constructed using the CPI-U-RS All-Items data series from the Bureau of Labor Statistics. Accessed from: <https://www.bls.gov/cpi/research-series/home.htm>
- `housing.dta` contains annual changes in the house price index based on Federal Housing Finance Agency Quarterly All-Transactions Index. Data accessed from: <https://www.fhfa.gov/DataTools/Downloads/Pages/Price-Index.aspx>
- `licensing.dta` contains the percentage of licensed workers, based on occupational licenses. The data is from Table 2 of Kleiner and Vorotnikov (2017)
- `right_to_work.dta` contains a dummy for historic right-to-work states, based on Holmes (1998)
- `temperature.dta` provides average state temperatures from 1980-2010, and is constructed with data from the National Oceanic and Atmospheric Administration . Raw data accessed from: <ftp://ftp.ncdc.noaa.gov/pub/data/cirs/climdiv/climdiv-tmpcst-v1.0.0-20180504>

In addition, the analysis makes use of a number of cross-walk files:

- `cw_puma1990_czone.dta` provides a cross-walk from 1990 PUMAs to Commuting Zones, and is drawn from Autor and Dorn (2013). Accessed from: <https://www.ddorn.net/data.htm>
- `cw_puma2000_czone.dta` provides a cross-walk from 2000 PUMAs to Commuting Zones, and is drawn from Autor and Dorn (2013). Accessed from: <https://www.ddorn.net/data.htm>
- `state_region.dta` provides a mapping from state FIPS codes to regions (coastal states, eastern heartland, western heartland)

- `cw_puma2000_migpuma2000.dta` provides a cross-walk between 2000 PUMAs and corresponding 2000 Migration PUMAs, based on information provided by IPUMS. See <https://usa.ipums.org/usa/volii/00migpu> for more details

Finally, `maptile` files are made available to produce maps using 1980-2000 and 2000-2010 consistent PUMAs

- Detailed information on the `maptile` program for Stata is available at: <https://michaelstepner.com/maptile/>
- `maptile_conspuma0010.zip` contains the necessary files to produce maps for 2000-2010 consistent PUMAs
- `maptile_conspuma.zip` contains the necessary files to produce maps for 1980-2000 consistent PUMAs
- `maptile_state.zip` contains the necessary files to produce maps for for states

Log Files (/log)

This folder contains Stata log files for intermediate data cleaning and processing routines.

References

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