Replication Package Readme for
"The Local Economic Impacts of Prison"

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Data and instructions for access

- Census tract characteristics: Data for census tracts come from Geolytics Neighborhood Change Database, which includes information from the 1980, 1990 and 2000 Censuses normalized to form a panel of tracts based on 2000 tract boundaries. To obtain this dataset, researchers must access the data through their libraries (with license) or purchase from Geolytics at https://geolytics.com/products/normalized-data/normalized-to-2000-boundaries. If this link no longer works, a search for "Geolytics Neighborhood Change Normalized to 2000 Boundaries" should return the relevant page.
- Election data: Data for county's share of votes cast for Democrats in the 1988 Presidential election and in state Governor elections in 1990, 1991, 1992 and 1993 come from Dave Leip's Atlas of US Presidential Elections. To access this dataset, researchers must purchase the data from Dave Leip's Atlas of US Presidential Elections. (https://uselectionatlas.org/BOTTOM/store_data.php)
- Crime data: This paper uses the annual county crime time series aggregated from the Federal Bureau of Investigation (FBI)'s agency-level data by Bartik et al. (2019). Detailed description of this dataset can be found in Bartik et al. (2019)'s online appendix. Please contact the authors for the data.

All other datasets used are publicly available or compiled by me and are provided in the replication package except the following due to the size of the files.

- QCEW data: Please download the following QCEW data files directly from the Bureau of Labor Statistics website at https://www.bls.gov/cew/downloadable-data-files.htm.
    - NAICS-based CSVs Single Files, Annual Averages for 1990-2014. Put them in the folder Raw Data/QCEW/NAICS_SingleFiles_Annual
    - SIC-based CSVs Single Files, Annual Averages for 1980-2000. Put them in the folder Raw Data/QCEW/SIC_SingleFiles_Annual
- Census Summary Files (county level):
    - 1980 Summary Tape File 3C (United State Bureau of the Census, 1980) can be downloaded from ICPSR (8038). To run the replication code, first convert the data into Stata .dta format using the setup file that comes with the data, rename as SF3C1980.dta and put this file in the folder Raw Data/Census 1980 (SF)/CensusSF3C.
    - 1990 Summary Tape File 3C (United State Bureau of the Census, 1990) can be downloaded from ICPSR (6054). Convert the data into Stata .dta format using the setup file that comes with the data, rename as SF3C1990.dta and put this file in the folder Raw Data/Census 1990 (SF)/CensusSF3C.

    - 2000 Summary Tape File 3C (United State Bureau of the Census, 2000) can be downloaded from ICPSR (13402). The specific file to download is the DS11 Counties, All Tables file. Convert the data into Stata .dta format using the setup file that comes with the data, rename as countySF3_US.dta and put this file in the folder Raw Data/Census 2000 (SF)/ CountySF3.
- Census of State and Federal Adult Correctional Facilities (CCF): Please download the 1990, 1995, 2000, and 2005 CCFs from the National Archive of Criminal Justice Data at https://www.icpsr.umich.edu/web/NACJD/series/00067. The 1990 and 1995 CCF data files need to first be converted into Stata .dta format using the setup files that come with the data. The 2000 and 2005 CCFs can be downloaded as .dta files directly. These four files should be named censusprison1990.dta, censusprison1995.dta, censusprison2000.dta, and censusprison2005.dta, respectively, and put in the folder Raw Data/Prison_data.

Computational environment and code description

Codes are run on Stata version 14 or 15. "grand_master.do" runs all programs to replicate all findings in the paper. The program uses some user-written ado packages which I provide in a separate ado folder. The master do-file includes an adopath that links to that folder.

"grand_master.do" calls the following main programs.

- "prisondata_clean_master.do" cleans prison-level data.

- "clean_county_master.do" processes all raw data at the county level, merges them together and generates county-level analysis data.

- "analysis_county_master.do" runs all analyses and produces tables and figures at the county level.

- "censustract_clean_master.do" processes raw data at the tract level and generates tract-level analysis data.

- "analysis_tract_master.do" runs all analyses and produces tables and figures at the tract level.

Main Empirical Results

The code structure is setup such that all resulting tables and figures are output to the folders "TablesTex" and "Figures", respectively. (The program creates these folders automatically). The main programs listed in the above section are meant to be run in their entirety since they create many intermediate files that are used for producing the tables and figures. I describe below the line segments of the main programs, along with other do-files called by such programs that produce the main results in the paper.

1) Table 1:
    - Master/analysis_county_master.do (lines 56-61)
    - County_Analysis/USTX_County_sumstats.do

2) Table 2:
    - Master/analysis_tract_master.do (lines 25-41)
    - Tract_Analysis/Tract_sumstats.do
3) Figure 1:
    - Master/analysis_county_master.do (lines 72-289; 378-530; 571-578; 603-611)
    - County_Analysis/County_eventstudy_analysis.do
    - County_Analysis/County_eventstudy_figures.do
4) Table 3:
    - Master/analysis_county_master.do (lines 72-289; 378-530; 547-549)
    - County_Analysis/County_eventstudy_analysis.do
    - County_Analysis/County_eventstudy_tables.do
5) Figure 2:
    - Master/analysis_county_master.do (lines 72-289; 629-638)
    - County_Analysis/County_eventstudy_figure_ByIndustry.do
6) Table 4:
    - Master/analysis_county_master.do (lines 757-774; 795-810)
    - County_Analysis/County_longdif_analysis_perprisonjob.do
7) Table 5:
    - Master/analysis_county_master.do (lines 757-787)
    - County_Analysis/County_longdif_analysis_mainoutcome.do
8) Table 6:
    - Master/analysis_tract_master.do (lines 49-71)
    - Tract_Analysis/Tract_longdif_analysis_mainoutcome.do
9) Table 7:
    - Master/analysis_tract_master.do (line 49-61; 102)
    - Tract_Analysis/Tract_longdif_analysis_mainoutcome_circleradius_multikm.do

Reference

Bartik, A. W., J. Currie, M. Greenstone, and C. R. Knittel (2019). "The Local Economic and Welfare Consequences of Hydraulic Fracturing". *American Economic Journal: Applied Economics* 11 (4), 105–55.

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