# Data and Code for: "The Long-Run Impacts of Public Industrial Investment on Local Development and Economic Mobility: Evidence from World War II "

By Andrew Garin and Jonathan Rothbaum

## Overview

The code in this replication package was used to produce the results in Garin and Rothbaum (2024). The analysis in the paper is comprised of three parts:

A. County-level analysis using data that can be accessed freely by the public; the data and code for these analyses are included in this replication archive

B. Individual-level analysis using confidential data maintained by the U.S. Census Bureau that were accessed through the Federal Statistical Research Data Centers (FSRDCs); the codes for these analyses are included in this archive, but the data for those analyses cannot be shared publicly

C. Individual-level pre-period analysis using linked publicly available full-count Census data; the codes for these analyses are included in this archive and the data are publicly accessible but files are not included due to their large size.

## Description of Programs/Code and Replication Instructions

All analysis is conducted in Stata. The replication steps for each analysis are as follows:

A. County-level analysis:

- The codes to build the analysis files from raw inputs are contained in the ***/Build/*** directory and can be executed in sequence by running ***master_build.do***
- The codes to run the analyses presented in the figures and tables in the paper are contained in the ***/Codes/*** directory and can be executed in sequence by running ***master_analysis.do*** once the build steps are complete
- All input datasets necessary for implementing the data construction are included in ***/Data/RawData/,*** and all intermediate datasets created by the build codes are saved to ***/Data/CreatedData/*** **(**or ***/Data/Temp/*** if not used by subsequent codes) upon running
- Output tables and figures are saved in ***/Output/***.

B. Individual-level analysis using restricted-access data:

- All files used in the RDC analysis are in the ***/RDCfiles/*** folder. The codes to build the analysis datasets from the original input data are contained in ***/RDCfiles/Build/*** and must be run in the order specified in the file names
- The codes to run the analyses presented in the figures and tables in the paper are in the ***/RDCfiles/Analysis/*** folder and can be executed in sequence by running ***master_rdc_analysis.do*** in that folder.
- Additional utility codes called by the main build and analysis codes are in the ***/RDCfiles/Utilities/*** folder
- The codes to make the figures in the paper based on disclosed output are included in the main ***/Codes/*** directory and have names beginning with "3." These codes can be run using Stata .dta files containing disclosed outputs which are included in this archive in the ***/Data/OutputRDC/*** directory. Outputs are saved in ***/Output/***.

C. Pre-period analysis using linked full-count censuses

- The main datasets for this analysis can be downloaded from IPUMS USA and the Census Linking Project websites following the instructions below
- The codes to build the analysis data using raw inputs (and created inputs from the county-level build) and to create the figures in the paper are included in ***/Census1910_1940/*** and can be executed in sequence by running ***master_1910_1940.do***
- Once build is complete, analysis code is included in main public-use code folder as ***/Codes/2.pre_mobility_balance.do***. Note that this code is called by the main public-use launcher file ***/Codes/master_analysis.do***, but is commented out by default; user should un-comment this part of the launcher code once input data is prepared.

## Details on Each Data Source

### A. Publicly-accessible data sources used in county-level analysis, included in Data/RawData/

*A.1. WWII Plant Data*

The WWII plant-level spending data is from a 1945 publication of the United States War Production Board titled "War Manufacturing Facilities Authorized through October 1944 by General Type of Product of Operator in 1939." We accessed the original documents at the Harvard University Library and arranged for library staff to make high-resolution scans that are now available to the public at https://iiif.lib.harvard.edu/manifests/view/drs:51577723. The scans were digitized into

Excel spreadsheet format by E Records USA in Fremont, CA following our instructions (included in Documentation/Digitization Instructions.docx), which we then spot checked for transcription and formatting errors.

Included files:

- FacilitiesRaw/FacilitiesDatabase.xls

Source Citation:

United States War Production Board, "War Manufacturing Facilities Authorized through October 1944 by General Type of Product of Operator in 1939," Technical Report, WPB Program and Statistics Bureau March 1945.

*A.2. City and County Databook Data accessed from ICPSR*

County-level tabulations from population and economic censuses for select years were obtained from the City and County Data Book files maintained by the Inter-university Consortium for Political and Social Research.

Included files:

- ccdb47_77.dta
- ccdb83.dta
- ccdb88.dta

Source Citation:

United States. Bureau of the Census. County and City Data Book [United States] Consolidated File: County Data, 1947-1977. Inter-university Consortium for Political and Social Research [distributor], 2012-09-18. https://doi.org/10.3886/ICPSR07736.v2

United States. Bureau of the Census. County and City Data Book [United States], 1983. Inter-university Consortium for Political and Social Research [distributor], 2008-06-18. https://doi.org/10.3886/ICPSR08256.v1

United States. Bureau of the Census. County and City Data Book [United States], 1988. Inter-university Consortium for Political and Social Research [distributor], 2009-05-26. https://doi.org/10.3886/ICPSR09251.v2

Haines County Files Accessed via ICPSR

*A.3. Census Tabulations from Haines Files accessed via ICPSR*

Additional county-level tabulations from population and economic censuses for select years were obtained from the archive assembled by Michael Haines and maintained by the Inter-university Consortium for Political and Social Research.

Included files:

- Census1920.dta
- Census1930.dta

- Census1940.dta
- Census1950.dta
- Census1990.dta
- Census2000.dta

Source Citation:

Haines, Michael R., and Inter-university Consortium for Political and Social Research. Historical, Demographic, Economic, and Social Data: The United States, 1790-2002. Inter-university Consortium for Political and Social Research [distributor], 2010-05-21. https://doi.org/10.3886/ICPSR02896.v3

*A.4. Census Tabulations from NHGIS*

Further county-level tabulations from population and economic censuses for select years were obtained from the IPUMS National Historical Geographic Information System. All codebooks are included in the RawData/Documentation Files/ folder.

Included files:

- Sixteen .csv files with names beginning "nhgis…"

Source Citation:

Steven Manson, Jonathan Schroeder, David Van Riper, Katherine Knowles, Tracy Kugler, Finn Roberts, and Steven Ruggles. IPUMS National Historical Geographic Information System: Version 18.0 [dataset]. Minneapolis, MN: IPUMS. 2023. http://doi.org/10.18128/D050.V18.0

*A.5. County Characteristics from Fishback, Horrace, and Cantor (2005)*

County geographic characteristics and infrastructure variables were obtained from the replication files to Fishback, Horrace, and Cantor (2005), which were posted online on Price Fishback's website. The original CSV file ("Retail sales Data Set.csv") and the codebook for their file with variable sources is in the RawData/Documentation Files/ folder.

Included files:

- Fishbackhorracekantor.dta

Source Citation:

Fishback, Price V., William C. Horrace, and Shawn Kantor. "Did New Deal Grant Programs Stimulate Local Economies? A Study of Federal Grants and Retail Sales during the Great Depression." The Journal of Economic History 65, no. 1 (2005): 36–71.

*A.6. Unionization Proxy*

We predict county-level union density using 1953 estimates of industry union density from Table 6 of Troy (1957), which we hand-entered into a CSV file and added SIC codes, and the industry employment distribution within each county from the 1964 County Business Patterns data assembled by Eckert et al. with imputed counts based on reported plant size distributions.

Included files:

- Troy_SIC_1953.csv
- CBP1964_Imp.csv

Source Citation:

Eckert, Fabian, Lam, Kaleung, Mian, Atif, Müller, Karsten, Schwalb, Rafael, and Sufi, Amir. Early County Business Pattern Files: United States, 1946-1974. Inter-university Consortium for Political and Social Research [distributor], 2023-12-04. https://doi.org/10.3886/ICPSR38834.v1

Troy, Leo, Distribution of Union Membership among the States, 1939 and 1953, NBER, 1957.

*A.7. World War II Mobilization and Casualty Rates*

County-level data World War II mobilization and casualty rates were collected and provided by Andreas Ferrara.

Included files:

- WWII_draft_volunteer_casualties_Army_AirForce.dta

Source Citation:

Ferrara, Andreas. "World War II and black economic progress." Journal of Labor Economics 40, no. 4 (2022): 1053-1091.

*A.7. Highway-Based 1940 Market Access from Jaworski, Kitchens, and Nigai (2022)*

We construct 1940 market access using data on road-based travel times between county pairs from Jaworski, Kitchens, and Nigai (2022), which were provided by Taylor Jaworski

Included files:

- Traveltime_data_prewar.dta

Source Citation:

Taylor Jaworksi, Carl Kitchens, and Sergey Nigai, “Highways and Globalization,” International Economic Review, 2023, 64 (4), 1615–1648.

*A.8. Year 2000 Interstate Highway Miles*

We construct year 2000 Interstate Highway System miles for each county based on a shapefile provided by Nathaniel Baum-Snow, which we used to calculate county-level totals in ESRI ArcGIS.

Included files:

- ihsmiles.dta

Source Citation:

Baum-Snow, Nathaniel. "Did Highways Cause Suburbanization?." The Quarterly Journal of Economics 122, no. 2 (2007): 775-805.

*A.9 Defense Procurement Records on form DD-350*

We construct county-level measures of 1966-1975 military procurement spending reported on form DD-350 using microdata from the Department of Defense Military Prime Contract File, which is currently maintained by the National Archives and Records Administration. The raw microdata files in fixed column text format are included in the RawData/DD350/ subfolder, with documentation files included.

Included files:

- Ten files named RG330.MPCF.FY*yr*.txt, where *yr* is number ranging from 66 to 75.

Source Citation:

Department of Defense. Office of the Assistant Secretary of Defense (Comptroller). Office of the Deputy Assistant Secretary (Management Services). Directorate for Information Operations and Control. (ca. 1973 - 10/01/1977)Records of Prime Contracts Awarded by the Military Services and Agencies, created, 7/1/1965 - 6/30/1975, documenting the period 7/1/1965 - 6/30/1975. Accessed August 2025: https://aad.archives.gov/aad/series-description.jsp?s=492&cat=GS29&bc=,sl

*A.10 1940 Median Family Earnings Tabulated from Full-Count IPUMS Census Data*

To obtain a county-level measure of median family income, we downloaded data on wage earnings (*incwage*) and family unit status for full-count 1940 Census microdata from IPUMS USA. We calculated median family earnings using the following steps: 1.) keep all individuals age 14 or older not in group quarters (*gq* <=o 2) in family-type households (*hhtype* from 1 to 3); 2.) drop all individuals with zero earnings, missing earnings, or earnings greater than the topcode ($10,000); 3) sum earnings within family units (i.e. by *serial, famunit, county,* and *statefip*, keeping one record per family; and 4.) collapse to the county-level family median. This method is meant to approximate the process used to calculate median family income in other Census products, but using only the available information on wage/salary earnings rather than complete household income. We include only the tabulated county median data in this archive.

Included files:

- medinc1940_fall.dta

Source Citation:

Steven Ruggles, Matt A. Nelson, Matthew Sobek, Catherine A. Fitch, Ronald Goeken, J. David Hacker, Evan Roberts, and J. Robert Warren. IPUMS Ancestry Full Count Data: Version 2.0 [dataset]. Minneapolis, MN: IPUMS, 2024.

*A.11 Census County Area Finances Data*

We obtained county-level data on local government revenues and expenditures from the Census Bureau's County Area Finances Database. The original MDB database file and documentation are included in the /RawData/County_Area_Fin/ folder. Data were downloaded from: https://www2.census.gov/programs-surveys/gov-finances/datasets/historical/County_Area_Fin.zip

Included files:

- GovExpenditure_57.dta
- GovExpenditure_72.dta

Source Citation:

U.S. Department of Commerce—Economics and Statistics Administration, U.S. Census Bureau. Data Base on Historical Finances of Local Governments: "County_Area_Finances" Fiscal Years 1957–2002 [dataset]. 2008.

*A.12 County-Level Intergenerational Mobility Estimates*

We downloaded county-level intergenerational mobility estimates from Chetty at al (2014) from the Opportunity Insights webpage. Jonathan Rothbaum provided county-level tabulations of intergenerational mobility for children in the 1940 Census from Rothbaum and Massey (2021).

Included files:

- onlinedata3-2.dta (Chetty et al Data)
- 1940_v12_WMovers_Aggregated_DRB_e2_Final___stcounty_q10.dta (Massey-Rothbaum data)

Source Citation:

Chetty, Raj, Nathaniel Hendren, Patrick Kline, and Emmanuel Saez. "Where is The Land of Opportunity? The Geography of Intergenerational Mobility in the United States." The Quarterly Journal of Economics 129, no. 4 (2014): 1553-1623.

Rothbaum, Jonathan and Catherine Massey, "The Geography of Opportunity over Time," US Census Bureau Working Paper, SEHSD-WP2021-23, 2021.

*A.13 Million-Dollar Plants Replication and Extension Data*

To replicate the research design in Greenstone, Hornbeck, and Moretti (2010), we used data and code from the replication package for Monte, Redding, and Rossi-Hansberg (2018), who replicate the analysis from the original paper drawing on the original analysis data. We supplement these data with county-level tabulations of manufacturing employment and payroll from the Quarterly Census of Employment and Wages, obtained from the Bureau of Labor Statistics Website. The 26 individual CSV files from the QCEW are contained in the /rawdata/QCEW/ subfolder.

Included files:

- ghm_longform.dta (Original replication file)
- 26 files named "sic.*yr*.annual 0D (Manufacturing Division).csv", where *yr* is a year ranging from 1975 to 2000.

Source Citation:

Greenstone, Michael, Richard Hornbeck, and Enrico Moretti. "Identifying Agglomeration Spillovers: Evidence from Winners and Losers of Large Plant Openings." Journal of Political Economy 118, no. 3 (2010): 536-598.

Monte, Ferdinando, Stephen J. Redding, and Esteban Rossi-Hansberg. 2018. "Replication package for: Commuting, Migration, and Local Employment Elasticities." American Economic Association [publisher]. Accessed at https://www.aeaweb.org/journals/dataset?id=10.1257/aer.20151507 on 2024-08-29.

Bureau of Labor Statistics. Quarterly Census of Employment and Wages SIC-Based Data Files 1975-2000 [dataset]. Accessed at https://www.bls.gov/cew/downloadable-data-files.htm

*A.14 Supplemental Files (Crosswalks, geographic definitions, etc.)*

The following included files are used in the data construction and analysis:

- cw_cty_czone.dta (county-to-CZ crosswalk)
- cw-city-county.dta (city-to-county crosswalk)
- crosswalk_statefip_stateicp_1910.dta (FIPS to ICP crosswalk)
- inmetro_1930_1940.dta (flags for counties in IPUMS METAREA areas)
- LND01.xls (county area from https://www.census.gov/library/publications/2011/compendia/usa-counties-2011.html#LND)
- NBER_county_adjacency2010.dta (NBER county adjacency file from https://www.nber.org/research/data/county-adjacency)
- state_capitals.dta (List of state capitals)
- state_rtw_pre2000.xlsx (List of states with right-to-work laws)

## B. Restricted-Access Datasets Maintained by the Census Bureau

Below, we document the restricted-access input files used by the codes included in the /RDCfiles/ folder. These input datasets are "extracts" that were all constructed for other research. We describe these extracts and their sources here.

### *B.1. Extracts of the 1940 Census*

Each of the 1940 datasets was created from the same vintage of the 1940 file with protected identification keys (PIKs) assigned as used in Ferrie, Rothbaum, and Massey (2021). That is an earlier version of the file than is currently available in the Research Data Centers (RDCs). The assignment of PIKs to the 1940 file is discussed in detail in Massey et al. (2018).

Input files:

- *Cens40Children.dta:* this is an extract of the mapping between parents and children. It contains only the household and person identifiers for the child (serial and pernum) and the person identifers for the parent (momloc, poploc).
- *Cens40Children.dta*: this is an extract of the mapping between parents and children. It contains only the household and person identifiers for the child (serial and pernum) and the person identifers for the parent (momloc, poploc).
- *jobvars_40.dta:* this is a small extract from the complete 1940 census with a small number of specific job and occupation characteristics (employment status, occupation and occupation score, class of work, weeks and hours worked, etc.)
- *household_40.dta:* this is an extract from the 1940 household file with no data linked to it.
- *Piks_cps40*.dta: this is an extract of the children in the 1940 census that was linked (inner joined) to the CPSPIK_1973_2016 file below.

### *B.2. IRS Form 1040 Records from 1969, 1974, 1979, and 1984 linked to 1940 Census*

Input files:

- *Children_1940.dta:* this is a file with a row for each child. Each row contains information reported at the household level from the 1940 census (farm status, home value, geographic information (urban/rural status, county, state, etc.), parent information from 1940 (earnings, other income, education, race, etc.) and child income from linked tax records from 1969, 1974, 1979, and 1984. It also includes information on the child's birthplace from the Numident

- *TaxSample_With40Children.dta*: this includes all individuals in our age cohorts in the Numident linked to the 1040 filings information. These samples were then linkd to the 1940 census to flag the observations that we found there.

*B.3. Current Population Survey Annual Social and Economic Supplement (CPS ASEC) Microdata Linked to Social Security Administration Detailed Earnings Record Files (DER)*

Input files:

- *DER_CPS_1973_2016 .dta*: this is the sample of all years in the CPS ASEC from 1973 to 2016 that could be linked to a PIK. Individuals with a PIK were linked to their W-2 earnings in the DER
- *CPSPIK_1973_2016.dta:* a file of only the PIKs and survey identifiers in the CPS ASEC
- *Birthplaces.dta:* this is a file of the CPS ASEC PIK sample linked to the Numident to gather information on their place of birth, date of birth, and date of death.
- *CPS_1967_2017.dta:* this is a harmonized extract of the CPS ASEC from 1967-2017
- *DERJobs_CPS_1973_1990.dta:* this is job-year level extract of the full DER CPS file. File includes all PIKs from the CPS ASEC in 73, 79, 81-90, 91, 94, 96-forward, with information on all jobs for those PIKs from 1978–1990.

*B.4. Establishment-level Data From the Business Register Files Collapsed to Firm-Region-Level*

Input files:

- *Firm_EINSIC_`iYear'.dta*: these files contain data from the Business Register (BR) on firm employment and payroll by SIC code summarized at the state and county level (from the establishment level information in the BR)

*B.5. 2000 Decennial Census Long Form Survey Microdata*

Input files:

- *LF2000.dta:* data from the 2000 long form census with variables for race, Hispanic-origin, education, and gender

**C. Individual-Level Pre-Period Analysis Using Linked Full-Count Censuses**

The pre-period individual-level analyses using the linked full-count 1910 and 1940 Censuses draw solely on publicly-available data sources, but due to the large size of the

files we only include select data files here; the rest must be downloaded as specified. We detail the data sources, and how they can be accessed if not included, below.

Datasets available for download but not included in this archive:
*C.1 1910 and 1940 Full Count Census Data and 1960 5% Sample Data from IPUMS-USA*

Our analysis uses extracts from the 1910 and 1940 full-count censuses downloaded from IPUMS-USA, which are then linked using the Census Linking Project Crosswalk. We also use data from the 1960 5% sample in the process of defining occupation-based ranks. All datasets can be obtained from IPUMS by requesting extracts as specified here at https://usa.ipums.org/usa/index.shtml. IPUMS provides a Stata code with each extract to convert the raw .dat file to a .dta file and add labels to variables, which should be run and the output should be saved as specified in the /RawData/ folder.

Extracts:

- *1910 100% Sample, public release version 2, variables*: YEAR, SAMPLE, SERIAL, HHWT, HHTYPE, REGION, STATEICP, STATEFIP, COUNTYICP, COUNTYNHG, METAREA, METAREAD, CITY, CITYPOP, URBAN, SEA, GQ, FARM, OWNERSHP, OWNERSHPD, NFAMS, MULTIGEN, MULTIGEND, PERNUM, PERWT, POPLOC, RELATE, RELATED, SEX, AGE, BIRTHYR, RACE, RACED, BPL, BPLD, EMPSTAT, EMPSTATD, LABFORCE, CLASSWKR, CLASSWKRD, OCC1950, OCCSCORE, VERSIONHIST, HISTID; save as fullcount_1910.dta.

- *1940 100% Sample, public release version 2, variables:* YEAR, SAMPLE, SERIAL, HHWT, HHTYPE, REGION, STATEICP, STATEFIP, COUNTYICP, METAREA, METAREAD, CITY, CITYPOP, URBAN, SEA, GQ, FARM, OWNERSHP, OWNERSHPD, NFAMS, MULTIGEN, MULTIGEND, PERNUM, PERWT, POPLOC, RELATE, RELATED, SEX, AGE, BIRTHYR, RACE, RACED, BPL, BPLD, EDUC, EDUCD, EMPSTAT, EMPSTATD, LABFORCE, CLASSWKR, CLASSWKRD, OCC, OCC1950, IND, IND1950, WKSWORK1, HRSWORK1, INCWAGE, OCCSCORE, MIGPLAC5, VERSIONHIST, MIGCOUNTY, HISTID; save as fullcount_1940.dta.

- *1960 5% Sample, variables*: YEAR, SAMPLE, SERIAL, HHWT, CLUSTER, GQ, REGION, STATEFIP, OWNERSHP, OWNERSHPD, PERNUM, PERWT, NCHLT5, SEX, AGE, RACE, RACED, CLASSWKR, CLASSWKRD, OCC1950, WKSWORK2, INCWAGE, INCBUSFM; save as 1960_5pct.dta.

Source Citation:

Steven Ruggles, Sarah Flood, Matthew Sobek, Daniel Backman, Annie Chen, Grace Cooper, Stephanie Richards, Renae Rodgers, and Megan Schouweiler. IPUMS USA:

Version 15.0 [dataset]. Minneapolis, MN: IPUMS, 2024.
https://doi.org/10.18128/D010.V15.0

Steven Ruggles, Matt A. Nelson, Matthew Sobek, Catherine A. Fitch, Ronald Goeken, J. David Hacker, Evan Roberts, and J. Robert Warren. IPUMS Ancestry Full Count Data: Version 2.0 [dataset]. Minneapolis, MN: IPUMS, 2024.

*C.2 Census Linking Project 1910–1940 Crosswalk*

We link the 1910 and 1940 Census data using the crosswalk created by the Census Linking Project Crosswalk. The crosswalk file can be downloaded from https://censuslinkingproject.org/data/ by specifying 1910 as the starting year and 1940 as the final year. The crosswalk file is large (~1GB), so is not included here and must be downloaded. The file should be saves as crosswalk_1910_1940.dta in the /RawData/ folder.

Source Citation:

Abramitzky, Ran; Boustan, Leah; Eriksson, Katherine; Rashid, Myera; Pérez, Santiago, 2022, "Census Linking Project: 1910-1940 Crosswalk", https://doi.org/10.7910/DVN/WRGXP0, Harvard Dataverse, V2.

Datasets included in this archive:

*C.3 Datasets Used for Replication of Collins and Wannamaker (2021) Occupation Ranks*

We created occupation-based ranks following Collins and Wannamaker (2021). Our code draws directly on the code from their replication archive, which uses several utility datasets that list all geographies and occupations, respectively. We include those files in our archive in the /RawData/ folder.

Included files:

- division_starter.dta
- occonly_starter.dta

Source Citation:

Collins, William J., and Wanamaker, Marianne H. Data and Code for: African American Intergenerational Economic Mobility Since 1880 -- Collins and Wanamaker (2021). Nashville, TN: American Economic Association [publisher], 2022. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2022-06-15. https://doi.org/10.3886/E128442V1

## Access Procedures for Restricted Use Data

The restricted-use data sets used are only accessible within the Federal Statistical Research Data Center (FSRDC) system (https://www.census.gov/about/adrm/fsrdc.html). In order to share our files for replication, researchers must request the following source data sets (listed by their names in the Census Bureau's Data Management System, DMS):

- Current Population Survey March Supplement
- BOC PIK Crosswalk Current Population Survey-ASEC (CPS)
- SSA Detailed Earnings Record (DER) CPS Extract
- IRS Individual Master File (see https://www.census.gov/library/working-papers/2024/econ/newly-available-individual-level.html for information on the available years)
- 1940 IPUMS Research (Note that our extract was created before the availability of that file and used on earlier processed version)
- BOC Crosswalk 1940 IPUMS Research
- Decennial Census (2000)
- BOC PIK Crosswalk Census Unedited File (CUF)
- Business Register (BR)
- BOC Census Numident

In order to request access to the data, an application can be submitted at https://www.researchdatagov.org/.

## Computational and Software Requirements

The portions of the analysis using publicly-available data were executed using Stata 18.0. The included build and analysis codes launched by ***master_build.do*** and ***master_analysis.do*** have a combined run time of less than one hour on a personal laptop.

The Stata code requires various packages installed during ***master_build.do***, including:

- reghdfe (requires ftools package)
- coefplot
- maptile (requires installation of spmap and 1990 county geography)
- schemepack
- strip

All required Stata packages are installed during data construction.

The portions of the analysis using restricted-access data were run on the computing environment in the Federal Statistical Research Data Centers using Stata Version 18. Due to data restrictions, the codes in /RDCfiles/ can only be run on FSRDC systems. The total runtime for the build and analysis codes in /RDCfiles/ is about 24 hours. These codes require various packages which are all included in the /RDCfiles/Utilities folder.

## List of Exhibits and Programs

Please see ***/Codes/master_analysis.do*** and ***/RDCfiles/Analysis/master_rdc_analysis.do*** which launch all analyses codes using public-access and restricted-access data (respectively) and each document which exhibits are produced by which component codes.