Readme: Property Rights without Transfer Rights: A Study of Indian Land Allotment

Currently Runs on Stata version 18.0. Approximate runtimes reported for extended runtime processes.

Stata requires the following ado packages

Confirmdir	(Version 1.1)
Vselect	(Version 1.2.0)
Reghdfe	(Version 6.12.4)
Ftools	(Version 2.49.1)
Unique	(Version 1.2.4)
Estout	(Version 3.31)
Mmerge	(Version 2.5.0)
Kmatch	(Version 1.1.5)
Psacalc	(Version 2.1)
ols_spatial_hac	(Version 3 from Hsiang 2010)
Reg2hdfespatial	(Version from 4/2015)
Statastates	(Version 1/2018)
Geo2xy	(Version 1.0.1)
Sg162	(Version 1.0) [includes spatcorr spatgsa]
Gr0002_3	(Latest Version) [includes scheme_lean]
Parmby	(Version Dec 2020)
Ppmlhdfe	(Version 2.3.0)

Data Files:

Main Paper Exhibits:

Cross-Sectional Analysis Dataset:

DFL_CrossSectionData.dta

Panel Analysis Dataset:

DFL_PanelData.dta

Randomized Inference Datasets:

Code is provided to create these from Cross-Sectional Dataset
However, Build_SpatialPermutations.do takes multiple days to run
DFL_MoransI_Townships.dta
DFL_Appended_Spatial_Permutations.dta

Appendix Exhibits:

Cross-Sectional Analysis Dataset: [Same as above]

Reservation Level Dataset:

DFL_ReservationLevelPanelData.dta

Allotment Age from ICR

DFL_NormalizedAllotmentAge.dta

Directory Structure:

1. Replication folder is separated into three folders: Data, Scripts, and Exhibits.
2. Scripts folder contains all necessary .do files.
3. Building spatial permutations requires two additional subfolders within the Data folder; 'town_spat_perms' and 'town_spat_perms_complete'.

Main Paper Exhibits:

1. Run_MainCrossSection.do
    a. Stata do file loads the cross-sectional dataset and executes the variable selection model before moving to creating the following exhibits:
        i. Table 1: Baseline Differences and Variable Selection Model
        ii. Table 2: Transfer Restrictions and Land Use Estimates
        iii. Table 3: Adding Fixed Effects for Allottees' Family Names
        iv. Table 5: The Fractionation Channel
2. Build_SpatialPermutations.do & Run_RandomizedInference.do
    a. These files can be run sequentially, or you can run the Run file using the provided data.
    b. The Build file calculates the Morans I statistic for each township to measure the spatial correlation. Next it creates several copies of placebo townships with similar levels of spatial correlation to the true township. The final step appends these placebo townships together.
        i. Runtime is 1-2 days
    c. The Run file loads the cross-sectional dataset and joins on the placebo township data. It then runs the variable selection model before creating the Randomized Inference plots in Figure 3.
        i. Runtime is 7-8 hours
3. Run_MainPanel.do
    a. Stata do file loads the panel dataset and executes the variable selection model before defining necessary variables and estimating the following exhibits:
        i. Table 4: Banking Deregulation and Collateralizability
            1. Stata places 0 & (.) in omitted category, manually removed

Appendix Exhibits

1. Run_MainCrossSection.do
    a. Stata do file loads the cross-sectional dataset and executes the variable selection model before moving to creating the following exhibits:
        i. Figure A4: Fee-Simple Conversion Time Horizon
        ii. Figure A5: Distribution of Land Use by Major Type
        iii. Table A1: Land Use Differences in 2012
        iv. Table A2: Addressing Spillovers Between Tenure Types
        v. Figure A6: Share of Plots with Residual Variation in Fee Simple, by Reservation
        vi. Table A3: Transfer Restrictions and Agricultural Land Use

vii. Figure A8: Relating Reservation Reported Fractionation to Latent Fractionation
viii. Figure A9: Relating Allotment Year to Fractionation Intensity

2. Run_Appendix_Reservation.do
    a. Stata do file first loads the reservation-level panel dataset and constructs the following exhibits:
        i. Table A4: Bank Access Within Reservations Following Deregulation
        ii. Table A5: Bank Access and HMDA Credit Use on Reservations
    b. In Step 3, the file loads the allotment age dataset and constructs the following exhibit:
        i. Figure A7: Original Allottees' Age and Sequential Allotment Number