Dataset Title:

Grand Staircase Escalante Economic Effects Data

PI:

Paul M. Jakus
Dept. of Applied Economics
UMC 4835
Utah State University
Logan, UT 84322-4835
paul.jakus@usu.edu

ORCID: 0000-0001-9261-3709

Co-PI

Sherzod B. Akhundjanov
Dept. of Applied Economics
UMC 4835
Utah State University
Logan, UT 84322-4835
shwerzod.akhundjanov@usu.edu
ORCID: 0000-0003-3372-3574

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Abstract

The designation of landscape-scale national monuments has generated intense debate as to whether their regional economic effects are positive or negative. National monuments can restrict land uses, thus favoring economic development based on the low-wage tourism industry relative to higher-wage extractive industries. Utah's Grand Staircase-Escalante National Monument has been managed for landscape-scale conservation whilst protecting existing valid uses. We assess post-designation trends in the ranching, mining, and tourism industries, after which pre- and post-designation paths of per capita income are examined using difference-in-differences and synthetic control methods. We conclude that monument designation had no effect on regional per capita income.

Brief description of collection and processing of data

County-level economic data were collected from the interactive files maintained by the Bureau of Economic Analysis. Census data were downloaded from the Minnesota Population Center. Beef cattle data were obtained from USDA Agricultural Census; missing beef cattle values were filled in from Utah Agricultural Statistics annual reports.

Description of files (names, or if too numerous, number of files, file type(s):

- 1. Beef cattle inventory Utah Garfield Kane.csv
- 2. Billed AUM and Drought data.csv
- 3. Stata Data file for GSENM-National Park Annual Visitation.dta
- 4. Stata data for GSENM D-in-D.dta
- 5. Stata code file for D-in-D models.do
- 6. UT_synthcontroldata 6-9-17.csv
- 7. Rcode.txt

Description or definition any other unique information that would help others use your data:

"Beef cattle inventory" and "Billed AUM and Drought" files were used for Figure 2 and Figure 3. Figures were generated in R by Rcode.txt file. Difference-in-Difference modeling (Table 4) was estimated in Stata 15 with the .dta and .do files. Synthetic control analysis was estimated in R using the ""UT synthcontroldata" file and Rcode.txt.

Descriptions of parameters/variables

Stata data file GSENM-National Park Annual Visitation.dta
Stata data file for GSENM D-in-D.dta
The State data files include variable labels that provide full variable names

The Stata .dta files include variable labels that provide full variable names and define variable coding.

Beef Cattle Inventory Utah Garfield Kane.csv

Year

UTHerd "Utah beef cattle herd, head"
GarfHerd "Garfield county beef cattle herd, head"
KaneHerd "Kane county beef cattle herd, head"
UT net "Utah herd net of Garfield and Kane"
GarfKaneHerd "Garfield + Kane beef cattle herd"

Billed AUM and Drought Data.csv

Year

Billed "Annual billed AUMs on GSENM"
Annpdsi "Annual Palmer Drought Severity Index"
Lnbilled "natural log of billed"
Zbilled "Normailized billed AUMs"

UT_synthcontroldata 6-9-17.csv Id "Simple state/county code" Name "Name of state or county"

Year

Femalepct "Percent female" Nwpct "Percent non-white" Marriedpct "Percent married"

Collegepct "percent college graduates"

Lforcepct "percent of working age population in workforce"

Povertypct "Percent of population living in poverty"

Indmix "Industrial mix, calculated as described in text"

Popdens "population density, people/squaremile"

Pcinc15D "Real Per capita income (\$2015), adjusted by GDP deflator"

Farmpct "Percent of total income earned by farms"

Growthallemp "Annual growth rate, all employment"

Growthfarmemp "Annual growth rate, farm employment"

Growthnfemp "Annual growth rate, private non-farm employment"

Growthgovtemp "Annual growth rate, government employment"

Farmemppct "Percent, farm employment/total employment"

nfemppct "Percent, private non-farm employment/total employment"

govtemppct "Percent, government employment/total employment"

unemprate "Unemployment rate" beefcattledens "beef cattle per square mile"

Special software required to use data:

Stata 15

R

Publications that cite or use this data:

"Neither Boon nor Bane: The Economic Effects of a Landscape-Scale National Monument" Re-submitted to *Land Economics*, October 17, 2017.