READ-ME Peace vs. Profit: Rebel Fragmentation & Conflict Resurgence in Colombia

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1 Replication File Contents

- PvP_r_code contains the R code necessary for producing all tables and figures in the paper from the cleaned data, with the exception of maps produced with QGIS.
- PvP_data contains the data necessary for the figures and tables produced in R.
- PvP_plots contains the figures produced in R.
- PvP_gis_figures contains the data and QGIS files used to produce the maps in Figures 2, A3, and A4.

2 Tools

2.1 Software Versions

- With the exception of the QGIS maps, all figures and tables were produced using R version 4.3.2.
- QGIS (Figures 2, A3, and A4) were produced using QGIS version 3.22.4.

2.2 R Package Versions

- *Base packages*: base, datasets, graphics, grDevices, methods, stats, utils
- *Other packages*: cobalt 4.5.2, conleyreg 0.1.7, dplyr 1.1.4, estimatr 1.0.0, forcats 1.0.0, ggplot2 3.4.4, ggtext 0.1.2, ivmodel 1.9.1, kbal 0.1, lubridate 1.9.3, MatchIt 4.5.5, purrr 1.0.2, readr 2.1.4, sensemakr 0.1.4, sf 1.0-16, stringr 1.5.1, texreg 1.39.3, tibble 3.2.1, tidyr 1.3.0, tidyverse 2.0.0, WeightIt 0.14.2, xtable 1.8-4
- *Loaded via a namespace (and not attached)*: backports 1.4.1, chk 0.9.1, class 7.3-22, classInt 0.4-10, cli 3.6.2, coda 0.19-4, codetools 0.2-19, colorspace 2.1-0, commonmark 1.9.0, compiler 4.3.2, crayon 1.5.2, data.table 1.14.10, DBI 1.1.3, digest 0.6.33, dreamerr 1.4.0, e1071 1.7-14, emmeans 1.8.9, estimability 1.4.1,

evaluate 0.23, fansi 1.0.6, farver 2.1.1, fastmap 1.1.1, fixest 0.12.0, foreach 1.5.2, Formula 1.2-5, generics 0.1.3, glue 1.6.2, grid 4.3.2, gridtext 0.1.5, gtable 0.3.4, hms 1.1.3, htmltools 0.5.7, httr 1.4.7, iterators 1.0.14, KernSmooth 2.23-22, knitr 1.45, labeling 0.4.3, lattice 0.22-5, lifecycle 1.0.4, lmtest 0.9-40, magrittr 2.0.3, markdown 1.12, Matrix 1.6-4, munsell 0.5.0, mvtnorm 1.2-4, nlme 3.1-164, numDeriv 2016.8-1.1, parallel 4.3.2, pillar 1.9.0, pkgconfig 2.0.3, plyr 1.8.9, proxy 0.4-27, R6 2.5.1, rbibutils 2.2.16, Rcpp 1.0.11, RcppParallel 5.1.7, Rdpack 2.6, reshape2 1.4.4, rlang 1.1.2, rmarkdown 2.25, rstudioapi 0.15.0, s2 1.1.5, sandwich 3.1-0, scales 1.3.0, stringi 1.8.2, stringmagic 1.1.2, tidyselect 1.2.0, timechange 0.2.0, tools 4.3.2, tzdb 0.4.0, units 0.8-5, utf8 1.2.4, vctrs 0.6.5, withr 2.5.2, wk 0.9.1, xfun 0.41, xml2 1.3.6, yaml 2.3.8, zoo 1.8-12

3 Replication Instructions

- Each .R code file in the PvP_r_code folder is labelled with the figure it reproduces. Open the .R code file, set the working directory to the location of PvP_replication, load the packages, and run the code sequentially.
- Each folder within the PvP_gis_figures is labeled with the figure(s) it reproduces. Each folder contains the shapefiles required to reproduce the figures, as well as project files (.qgz) labeled with the name of the corresponding figure. Open the project file in QGIS, click on the layers that are loaded, and select "zoom to layer", to view the resulting map.

4 Main Dataset Variables and Description

Variable Name	Description
deptcode	Code for Colombian Department
municode	Code for Colombian Municipality
deptname	Name of Colombian Department
muniname	Name of Colombian Municipality
sqkm	Size of Colombian Municipality in square kilometers
hectares	Size of Colombian Municipality in hectares
farc_presence	FARC presence in municipality in 2012
dissident_presence	FARC splinter group presence in municipality by 2020
dissident_presence_2017	FARC splinter group presence in municipality by 2017
maxcult	Maximum annual coca cultivation (ha.) between 1999-2012
pop14	Municipal population in 2014
ruralpop14	Municipal population residing in rural area
elev_stdev	Standard deviation of elevation in municipality
hwylengthkm	Kilometers of highway in municipality
distCali	Distance of municipality centroid from Cali
distBogota	Distance of municipality centroid from Bogotá
distMedellin	Distance of municipality centroid from Medellín
lit_ratio	Ratio of literate to illiterate population

electric_ratio	Ratio of households with electricity to households without
PHAQ	Soil PH
TOTN	Soil Nitrogen
TOTC	Soil Carbon
DRAIN	Soil Drainage
raintot_me	Average annual rainfall
sun_mean	Average sunlight
humid_mean	Average humidity
maxtemp	Maximum annual temperature
mintemp	Minimum annual temperature
floodalertmean	Average annual flooding incidents
maxallcrops	Maximum annual hectares of legal crops
maps_control_prop	MAPS survey proportion of respondents reporting FARC splinter group presence in municipality
milcentdist	Municipality center distance from nearest military base
farcprop18	Votes for the FARC political party in the 2018 Senate elections
up_pres_pct_86	Votes for FARC political wing (UP) in 1986 presidential election
left_pres_pct_10	Votes for left's presidential candidate in 2010 presidential election
left_pres_pct_14	Votes for left's presidential candidate in 2014 presidential election
left_pres_pct_18	Votes for left's presidential candidate in 2018 presidential election
traffic_hub_ct	Number of simulated trafficking hubs
placebo_hub_ct	Number of simulated placebo hubs
paste_kg_tot	Max annual coca paste seized (in kg.)
rugged_mean	TRI terrain ruggedness measure

5 Data Files and Description

PvP_data_main.csv	Main dataset
cnmh_full.csv	Center for Historical Memory Data on Conflict Incidents used in Appendix Table A.2
splinter_groups.csv	List of major FARC splinter groups formed by 2020 used in Figure 1
end_points_18.csv	Ports and border crossings for use in Figure A.5
coca_clusters	Folder containing spatial data on coca cultivation used in Figure A.5
country_shapefile	Folder containing national boundaries used in multiple figures
military_base_shapefile	Folder containing spatial data on Colombian military bases used in Figure A.6
placebo_trafficking_routes	Folder containing spatial data on placebo trafficking routes used for Figure 3
trafficking_routes	Folder containing spatial data on trafficking routes used for Figures 3 and A.5

municipality_shapefile	Folder containing spatial data on municipality boundaries used for Table A8

6 Questions

Please contact Frank Wyer with any questions at < frank [dot] wyer [at] nps [dot] edu > or alternatively < frank [dot] wyer [at] gmail [dot] com >.