Data and Code for: "Conserving Wildlife through Demand Reduction and Supply Alternatives: Two Experiments in Restaurants in Kinshasa"

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Data Availability Statement

The paper uses data collected by the authors in Kinshasa in November 2023. We provide all data necessary for replicating the analysis, with the following single exception. To conceal the identities of participating subjects and the locations of participating restaurants, we have removed identifying information from the data provided here. We provide the scripts that anonymize the data in the scripts/raw_data folder.

Computational Requirements

Software and Hardware Requirements

- Software: R Version 4.1.0 and Stata.

You may also need to install Rtools 4.0: https://cran.r-project.org/bin/windows/Rtools/rtools40.html

- Packages: There are many of them. They are all recorded in renv.lock file. Open the RStudio project and run `renv::init()` to automatically install all of them.

- OS: We used Windows 11 Home. Other versions of Windows, as well as Mac and Linux, should work too.

- CPU: We have Intel(R) Core(TM) i7-8565U CPU @ 1.80GHz 1.99 GHz

- Installed RAM: 8 GB

Description of programs/code

- files in scripts/raw_data prepare the raw data for analysis by removing identifying information. They cannot be run because they depend on confidential data. We have nonetheless included the following three scripts to show how we anonymize our data.

- files in scripts/make_data prepare the anonymized, raw data for analysis. The script make_coupon_data.R creates the data file data/analysis_data/coupon_data.Rdata. The script make_sales_data creates the data file data/analysis_data/sales_data.Rdata. The script treat_restaurants_ano.R is how we chose which restaurants to treat in our supply-side experiment.

- files in scripts/make_data folder make the object(s) described in the title of the script. For example, make_park_shapes.R creates the object park_shapes.Rdata.

- files in scripts/make_figures_tables create the figure(s) and/or table(s) listed in the script name. For example, make_fig_3.R creates fig_3.pdf.

Downloading and opening the replication files

Download the replication files as a zip file, extract them, open RStudio, click File -> Open Project, find access.Rproj among the files on your computer, and click Open.

Installing specific package versions

Open the RStudio project and run `renv::init()`. That will install all R packages you need. It installs the same package versions we used to facilitate reproducibility.

Data preparation

Run the scripts in scripts/make_data folder first. All scripts are fast to run (several minutes or less). All output files from make_data scripts are saved in output/data folder, so you can skip running these scripts if you want and go straight to analysis (make_figures_tables scripts).

Analysis

scripts in the figures and tables folders are fast to run (several minutes or less). They produce their eponymous figure or table.