



## *Exports, Labor Markets, and the Environment: Evidence from Brazil*

*Second Submission: RR\_BRA\_2025\_384*

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This review verifies the reproducibility of the exhibits included in the paper “*Exports, Labor Markets, and the Environment: Evidence from Brazil*”.

### **Contents in this review:**

1. Main findings
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### *Main findings*

- **Every exhibit has been reproduced accurately.**
- The code was successfully executed on a new computer after:
  1. Change the file paths in the main do file
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 3 hours to run.
- We conducted our reproducibility analysis based on the paper published here
- **Verification Process and Data Handling:**
  - The reproducibility package relies on open, accessible (public but not included in the reproducibility package) and restricted data (available only from the authors).
  - Open data is included in the public reproducibility package.
  - Reviewers used data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package.
  - *data\_hash\_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the accessible/restricted data can use this file to verify that the data has not been altered.

### List of exhibits and reproducibility status

#### Results in the Main Section of the Paper

- **Figure 1 Reproduced** This exhibit was compared against *timeSeriesReal.pdf*.
- **Figure 2 Reproduced** This exhibit was compared against "map VL FOBrpc 2000.pdf" and "map VL FOBrpc 2010.pdf".
- **Figure 3 Reproduced.** This exhibit was compared against *unemployment.pdf*.
- **Figure 4, Panel A Reproduced.** This exhibit was compared against *map emp alto risco shr 2000.pdf* and *map emp alto risco shr 2010.pdf*.
- **Figure 4, Panel B Reproduced.** This exhibit was compared against *map emp economia verde shr 2000.pdf* and *map emp economia verde shr 2010.pdf*.
- **Figure 5 Reproduced.** This exhibit was compared against *mun-first-stage-comtrade.pdf*
- **Figure 6, Panel A Reproduced.** This exhibit was compared against *emp alto risco shr.pdf* and *emp economia verde shr.pdf*.
- **Figure 6, Panel B Reproduced.** This exhibit was compared against *emp alto risco shr f 2000.pdf* and *emp economia verde shr f 2000.pdf*.
- **Figure 7 Reproduced.** This exhibit was compared against *mirf giv comtrade employment.pdf*
- **Figure 8 Reproduced.** This exhibit was compared against *mirf giv comtrade w.pdf*
- **Figure 9 Reproduced.** This exhibit was compared against *mgiv comtrade green.pdf*
- **Figure 10 Reproduced.** This exhibit was compared against *mgiv comtrade green2.pdf*
- **Table 1 Reproduced.** This exhibit was compared against *mun-census.tex*

#### Results in the Annex

- **Figure A1 Reproduced.** This exhibit was compared against *mgiv comtrade college.pdf*.
- **Figure A2 Reproduced.** This exhibit was compared against *mgiv comtrade male female.pdf*.
- **Figure A3 Reproduced.** This exhibit was compared against *mun-first-stage.pdf*.
- **Figure A4 Reproduced.** This exhibit was compared against *mun-iv-hist.pdf*.
- **Figure A5 Reproduced.** This exhibit was compared against *mun-first-stage-ivs.pdf*.
- **Figure A6 Reproduced.** This exhibit was compared against *mirf giv employment.pdf*.
- **Figure A7 Reproduced.** This exhibit was compared against *mirf giv w.pdf*.

*Reproduction Environment*

Paper exhibits were reproduced on a computer with the following specifications:

- OS: Windows 11 Enterprise
- Processor: Intel(R) Core(TM) i5-1145G7 CPU @ 2.60GHz
- Memory available: 1.62 TB
- Software version: Stata 18.0 MP, Python 3.13.5