



Survey-to-Survey Poverty Monitoring under Economic Shocks: The Role of Proxies and Model Flexibility

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This review verifies the reproducibility of the exhibits included in the paper “*Survey-to-Survey Poverty Monitoring under Economic Shocks: The Role of Proxies and Model Flexibility*”.

Contents in this review:

1. Main findings
2. List of exhibits and reproducibility status
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Main findings

- **Every exhibit of the paper has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Updating the path in the do-files and running them
 2. Restoring the environment in "requirements.txt" and running the python scripts
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 6 hours to run.
- We conducted our reproducibility analysis based on the paper in the reproducibility package.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 1 type of data: restricted data (available only from the authors).
 - Reviewers used restricted 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 restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**

- **Data:** All data is restricted and has not been included in the reproducibility package. For more details, please refer to the README file.
- **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.
- **Outputs:** All outputs are generated by code included in the reproducibility package.
- **Dependencies environment:** The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.

Results in the Annex

- **Annex A1** Does not show analysis results
- **Annex A2** Does not show analysis results
- **Annex A3** Does not show analysis results
- **Annex A4** Does not show analysis results
- **Table A5** Does not apply Source "Yoshida et al. (2022)"
- **Annex A6** Does not show analysis results
- **Table A7.1** Reproduced.
- **Table A8** Reproduced.
- **Annex 9:AFG no proxy** Reproduced.
- **Annex 9:AFG with proxy** Reproduced.
- **Annex 9:RWA no proxy** Reproduced.
- **Annex 9:RWA with proxy** Reproduced.
- **Annex 9:UGA no proxy** Reproduced.
- **Annex 9:UGA with proxy** Reproduced.

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: 15.7 GB
- Software version: Stata 19.5 MP, Python 3.10