



Reproducible Research Repository

Bottom-coding for the measurement of global poverty and inequality

Second Submission: RR_WLD_2026_579

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March 6, 2026

This review verifies the reproducibility of the exhibits included in the paper “Bottom-coding for the measurement of global poverty and inequality”.

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 working directory
- The code takes approximately 17 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors .
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 2 types of data: open, and limited-access (available to World Bank staff after permission and approval).
 - Open data is included in the public reproducibility package.
 - Reviewers used limited-access 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 forthcoming/accessible/limited-access/restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**
 - **Data:** Some data is limited-access 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.
- **Table 5** Reproduced.
- **Table 6** Reproduced.
- **Table 7** Reproduced.
- **Table 8** Reproduced.
- **Table 9** Reproduced.
- **Table 10** Reproduced.
- **Table 11** Reproduced.
- **Figure 1** Reproduced.
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.
- **Figure 4** Reproduced.
- **Figure 5** Reproduced.

Results in the Annex

For the Appendix, we reviewed all the 5 tables

- **Table D1** Reproduced.
- **Table D2** Reproduced.
- **Table D3** Reproduced.
- **Table D4** Reproduced.
- **Table D5** Reproduced.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: INTEL(R) XEON(R) PLATINUM 8562Y + 2.80 GHz (2 processors)
- Memory available: 128 GB
- Software version: Stata 18.0 MP