



Temperature Anomalies as an Obstacle to Women's Rights and Economic Empowerment?

Second Submission: RR_WLD_2025_404

Mer Reyes Retana, Christian Walker

reproducibility@worldbank.org

September 1, 2025

This review verifies the reproducibility of the exhibits included in the paper “*Temperature Anomalies as an Obstacle to Women's Rights and Economic Empowerment?*”.

Contents in this review:

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

- **Every exhibit has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Changing the directories in the main do-file *o.main.do*, located in the *_dofiles* folder.
 2. Running *o.main.do*. This do-file installs all of the necessary packages and executes additional do-files in the order outlined in the README.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 5 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on August 7th.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on two types of data: Open and accessible data.
 - Open data is 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 when users acquire the accessible data.

- **Reproducibility Summary:**

- **Data:** All data sources are publicly available but not all are included in the reproducibility package.
- **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

The exhibits were compared with the output generated by Computer 2. Table exhibits were compared with outputs generated by Computer 1. This is due to the package using a scheme that is only available in Stata version 18 or later.

- **Figure 1** Does not apply.
- **Figure 2** Reproduced.
- **Figure 3(a)** Reproduced.
- **Figure 3(b)** Reproduced.
- **Figure 4** Reproduced.
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced. Output includes results that aren't present in the paper version of the table. As the results that are in the paper were reproduced successfully, this is considered fully reproducible.

Results in the Annex

- **Annex 1** Does not apply.
- **Annex 2** Does not apply.
- **Annex 3** Reproduced. This exhibit was compared with an updated version shared by the authors.
- **Annex 4** Reproduced. Output includes results that aren't present in the paper version of the table. Results that are in the paper were reproduced successfully.
- **Annex 5** Reproduced.
- **Annex 6** Reproduced.
- **Annex 7** Reproduced.
- **Annex 8** Reproduced.

Reproduction Environment

Paper exhibits were reproduced on 2 computers with the following specifications:

Computer 1's Specifications:

- OS: macOS Sequoia 15.1.1
- Processor: Apple M2
- Memory available: 16 GB
- Software version: Stata 16.0 MP

Computer 2's Specifications:

- OS: Windows 11 Enterprise
- Processor: Intel(R) Core(TM) i5-1145G7 CPU @ 2.60GHz
- Memory available: 15.7 GB
- Software version: Stata 18.0 MP