



## *Forward-Looking Household Climate Vulnerability Curves to Inform Poverty Reduction Policy*

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This review verifies the reproducibility of the exhibits included in the paper “*Forward-Looking Household Climate Vulnerability Curves to Inform Poverty Reduction Policy*”.

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### *Main findings*

- **Every exhibit has been reproduced accurately.**
- The code was successfully executed on a new computer after:
  1. Updating the working directory.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 10 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors in the package.
- The package includes three types of data: public, limited-access (available to World Bank internal users), and restricted data (available only from the authors). Publicly available data is included in the public reproducibility package.

Reviewers verified that the limited-access data matches what was provided by the authors; results of this verification are documented in `comparison_report.csv`, which is included in the package. Additionally, `data_hash_report` lists hashes of all files in the `Input_Data` folder to support data integrity checks. Users who request the restricted data from the authors can use this file to verify that the data has not been altered.

- **Reproducibility Summary:**

- **Data:** Some 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.
- **Reproducibility verification:** Reviewers used data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. The package includes a `data_hash_report` file, which lists hashes of all input data files to support verification and ensure data integrity.
- **Dependencies environment:** The reviewers created a new environment for dependencies using the latest versions available for each dependency at the moment of the review.

### *List of exhibits and reproducibility status*

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

- **Figure 1** Reproduced.
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.
- **Figure 4** Reproduced.
- **Figure 5** 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: 32.0 GB
- Software version: Stata 18.0 MP