Reproducible Research Repository

Impact of access to irrigation on agricultural productivity: Evidence from community-led lift irrigation schemes in India

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This review verifies the reproducibility of the exhibits included in the paper *"Impact of access to irrigation on agricultural productivity: Evidence from community-led lift irrigation schemes in India"*.

Contents in this review:

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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 in line 11 of the do-file `master_do_file`, and running it.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 2.5 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on April 23, 2026.
- **Verification Process and Data Handling**:
  - The reproducibility package relies on 1 type of data: restricted data.
  - Reviewers used restricted data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. The data is forthcoming on the World Bank Development Data Hub under a confidential license.
  - *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 not yet publicly available but is expected to be made available through the World Bank Development Data Hub under a confidential license.

- **Code**: All code files are included in the reproducibility package but operate from intermediate data, not raw data.
- **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

- **Figure 1** Reproduced.
- **Figure 2** Reproduced.
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced.

Results in the Annex

- **Figure A.1** Reproduced.
- **Figure A.2** Reproduced.
- **Table A1** Reproduced.
- **Table A2** Reproduced.
- **Table A3** Reproduced.
- **Table A4** Reproduced.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz (2.30 GHz) (2 processors)
- Memory available: 8.15 GB
- Software version: Stata 19.5 MP