



Property Rights, Agricultural Technology Adoption, and Investment: Experimental Evidence from Mozambique

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This review verifies the reproducibility of the exhibits included in the paper “*Property Rights, Agricultural Technology Adoption, and Investment: Experimental Evidence from Mozambique*”.

Contents in this review:

1. Main findings
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Main findings

- **Every exhibit in the main section of the paper and 10 randomly selected exhibits in the appendix were reproduced accurately**
- The code was successfully executed on a new computer after:
 1. Updating the working directory in line 17 of "o_master.do", 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 minutes 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 embargoed (Treatment dataset embargoed until journal publication).
 - Open data is included in the public reproducibility package as well as available on the World Bank Microdata Library.
 - Reviewers used embargoed data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. The data will be available in the World Bank Microdata Library in the future.
 - *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 embargoed but is expected to be made available through the World Bank Micro-data Library in the future.
- **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 reproduced an existing environment for dependencies using dependency files or an environment metadata file provided by the authors.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure 1** Does not apply. The exhibit does not show analysis.
- **Figure 2** Reproduced.
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced.

Results in the Annex

For the Appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits from the remaining datasets to assess the appendix. Our review was based on those 10 exhibits. Since they were chosen randomly, we are operating under the assumption that if all randomly selected exhibits are reproducible, then the rest should be as well. The seed used to generate the random selection was 661581, the Stata version used was 19, and the exhibits selected were: Table A4, Table A8, Table A9, Table A12, Table A14, Table A15, Table A16, Table A17, Table A18 and Table A21.

- **Table A4** Reproduced.
- **Table A8** Reproduced.
- **Table A9** Reproduced.
- **Table A12** Reproduced.
- **Table A14** Reproduced.
- **Table A15** Reproduced.
- **Table A16** Reproduced.
- **Table A17** Reproduced.
- **Table A18** Reproduced.
- **Table A21** 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) (4 processors)
- Memory available: 32.0 GB
- Software version: Stata 19.5 MP