Reproducible Research Repository

The earlier the better? Cash transfers for drought response in Niger

Second Submission: RR_NER_2024_212
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This review verifies the reproducibility of the exhibits included in the paper " *The earlier the better? Cash transfers for drought response in Niger*".

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. Change the path on the main do file "master.do".

- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.

- The code takes approximately 16 minutes to run.

- We conducted our reproducibility analysis based on the paper shared by the authors by mail on May 16th, 2025.

- **Reproducibility Summary**:

  - **Data**: All data is not yet publicly available but is expected to be made available through the World Bank Microdata 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.

  - **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 reviewers did not verify if publicly available data matches the data provided by the authors.

  - **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** Does not show analysis results.

- **Figure 2** Reproduced. Verified against indices-plot-1,2,3,4.

- **Table 1** Reproduced. Verified against baseline-balance

- **Table 2** Reproduced. Verified against primary-panel

- **Table 3** Reproduced. Verified against mhealth-panel

- **Table 4** Reproduced. Verified against loans-panel

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 exhibits selected were: 2 (Figure 4) 3 (Figure 5), 11 (Table A10), 12 (Table A11), 16 (Table A15), 21 (Table A20), 22 (Table A21), 23 (Table A22), 25 (Table A24), 28 (Table A27).

- **Figure 4** Reproduced. Verified against millet-price

- **Figure 5** Reproduced. Verified against maize-price

- **Table A10** Reproduced. Verified against fcs-cohortwise

- **Table A11** Reproduced. Verified against fcons-cohortwise

- **Table A15** Reproduced. Verified against remittances-panel

- **Table A20** Reproduced. Verified against inputs-endline-index

- **Table A21** Reproduced. Verified against outputs-index

- **Table A22** Reproduced. Verified against business-index-components

- **Table A24** Reproduced. Verified against livestock-index-components

- **Table A27** Reproduced. Verified against outputs-index-components

Reproduction Environment

- Paper exhibits were reproduced in a computer with the following specifications:

  - OS: Windows 11 Enterprise
  - Processor: Intel(R) Core(TM) i5-1145G7 CPU @ 2.60GHz
  - Memory available: 15.7 GB
  - Software version: Stata version 18 MP