Reproducible Research Repository

Poverty and Equity Assessment for El Salvador 2024: Improving Lives and Livelihoods

First Submission: FR_SLV_2025_267
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This review verifies the reproducibility of the exhibits included in the paper " *Poverty and Equity Assessment for El Salvador 2024 : Improving Lives and Livelihoods*".

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Main findings

- The code was successfully executed on a new computer after:

  1. Change the paths in the Main do file.

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

- The code takes approximately 15 minutes to run.

- We conducted our reproducibility analysis based on the report available here.

- Every exhibit has been reproduced accurately.

- **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**: Some outputs are not generated by code (created manually in Excel, ArcGIS, etc) but instructions for producing these outputs are included in the README file.

  - **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, but requires manual changes. The figure was constructed manually using Excel using two raw data sources specified in the Excel file. The underlying data matches the sources. Additionally, the figure in the paper differs in format, however, since the numbers match this does not compromise reproducibility. This will be the case for all the figures marked as reproduced but requires manual changes.

- **Figure 3** Reproduced, but requires manual changes.

- **Figure 4** Reproduced, but requires manual changes.

- **Figure 5** Reproduced, but requires manual changes.

- **Figure 6** Reproduced, but requires manual changes.

- **Figure 7** Reproduced, but requires manual changes. The underlying data has minor discrepancies with the main file due to rounding differences. However, this does not compromise reproducibility.

- **Figure 8** Does not show analysis results. This figure shows a map sourced from another paper, referenced in the README file.

- **Figure 9** Reproduced, but requires manual changes.

- **Figure 10** Reproduced, but requires manual changes. The format is different, but this does not compromise reproducibility.

- **Figure 11** Reproduced, but requires manual changes.

- **Figure 12** Does not show analysis results.

- **Figure 13** Reproduced, but requires manual changes.

- **Figure 14** Reproduced. Because of changes in design stage the exhibit is slightly different in format, but this does not compromise reproducibility.

- **Figure 15** Reproduced, but requires manual changes.

- **Figure 16** Reproduced, but requires manual changes. Figure was created manually using Excel with data from SEDLAC. Data is included in the package, 1. PublicTransfers(LAC,SLV,CENTRAL)_June17_2024.xlsx

- **Figure 17** Reproduced, but requires manual changes. The underlying data has minor discrepancies with the main file due to rounding differences. However, this does not compromise reproducibility.

- **Figure 18** Reproduced, but requires manual changes. The underlying data has minor discrepancies with the main file due to rounding differences. However, this does not compromise reproducibility.

- **Figure 19 a** Reproduced, but requires manual changes. The underlying data has minor discrepancies with the main file due to rounding differences. However, this does not compromise reproducibility.

- **Figure 19 b** Reproduced, but requires manual changes. The data for this figure was available on a website that has been deactivated.

- **Figure 20** Reproduced, but requires manual changes.

- **Figure 21** Reproduced, but requires manual changes.

- **Figure 22** Reproduced, but requires manual changes.

- **Figure 23** Does not show analysis results. This figure shows a map sourced from another paper, referenced in the README file.

- **Figure 24** Reproduced, but requires manual changes.

- **Figure 25** Reproduced, but requires manual changes.

- **Table 1** Reproduced, but requires manual changes.

- **Table 2** Reproduced, but requires manual changes.

  Results in the Annex

- **Figure A.1** Reproduced, but requires manual changes.

- **Figure A.2** Reproduced, but requires manual changes.

Reproduction Environment

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

  - OS: Windows 10 Enterprise

  - Processor: Processor Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz, 2900 Mhz, 16 Core(s), 16 Logical Processor(s)

  - Memory available: 15.7 GB

  - Software version: Stata version 18 MP