

Children in monetary poor households: global, regional, and select national trends on the progress against child poverty – README

Purpose

This package reproduces the figures and tables in the child poverty analysis using a one-button Stata run. Code writes the data to an Excel workbook, which then renders all figures and tables via formulas (no manual edits).

Folder structure

```
ChPov_rep_package/
├── 01.code/
│   ├── 00-Master.do                # One-button orchestrator (EDIT maindir
only)
│   ├── 01-Process_input_data.do    # Cleans/merges inputs; builds master data
│   └── 02-Export_data_for_figures.do # Exports figure/table source sheets to
Excel
├── 02.input/                       # Input data (read-only to the code)
│   ├── Class.dta                  # Country classification + WB names
│   ├── UNDESA_pop_data.dta        # UNDESA population numbers
│   ├── unicef_regional_class.xlsx  # UNICEF regional classifications
│   └── pip_prod_Oct_2025/          # Folder
│       ├── PIP2021_allyears_300.dta # PIP national poverty numbers at $3.00
line
│       ├── PIP2021_allyears_420.dta # PIP national poverty numbers at $4.20
line
│       └── PIP2021_allyears_830.dta # PIP national poverty numbers at $8.30
line
└── 04.Final_output/
    └── figures_prod.xlsx           # Excel workbook that renders all
exhibits
```

Data Availability Statement

Some data is restricted and not included in the reproducibility package.'

1. lineup23_countries_v01

- **Source:** Datalibweb. The full list of surveys is documented in `data_hash_report.csv`.
- **URL:** [<https://github.com/worldbank/datalibweb>][<https://github.com/worldbank/datalibweb>]
- **Accessible:** Limited-access; available only to World Bank staff.

2. Income Classification Data (CLASS.dta)

- **Source:** World Bank – Global Poverty & Inequality Data team (GPID).
- **URL:** <https://github.com/GPID-WB/Class/blob/master/OutputData/CLASS.dta>
- **Accessible:** Publicly available and included in the package.

3. UNICEF Regional Classification

- **Source:** <https://data.unicef.org/regionalclassifications/>
- **Accessible:** Licensed under Creative Commons Attribution–NonCommercial 3.0 IGO (CC BY-NC 3.0 IGO).

4. UNDESA Population Numbers

- **Source:** United Nations Department of Economic and Social Affairs (UNDESA), Population Division.
- **URL:** <https://population.un.org/wpp/>
- **Accessible:** Available under a Creative Commons license CC BY 3.0 IGO: <http://creativecommons.org/licenses/by/3.0/igo/> Citation: United Nations, Department of Economic and Social Affairs, Population Division (2024). World Population Prospects 2024, Online Edition.

Restricted data

1. Microdata used to produce the figures: GTSD folder.
2. Intermediate sheets from the `figures_prod.xlsx`: `countries`, `povrates`, `povnums`, `intermediate_tables`.

Final output to be published

From the `figures_prod.xlsx`:

- 01-Main_Figures_Tables
- 02-Appendix_Tables_Figures

Software & environment

- Do not run on OneDrive as user might experience errors.
- Stata (v16+ recommended; developed/tested with v18)
- Microsoft Excel (2019 or Microsoft 365 recommended)
- OS: Windows/macOS
- Required access: WB GTSD folder (for microdata files).

How to run (one-button)

1. Open 01.code/00-Master.do.
2. Set the project root path by editing the single line for maindir, then run the do-file, e.g.:

```
global maindir "C:/path/to/ChPov_rep_package"  
cd "$maindir"
```

3. 00-Master.do will call:
 - 01-Process_input_data.do
 - 02-Export_data_for_figures.do
4. After the run finishes, open 03.Final_output/figures_org.xlsx to view the updated figures/tables. Allow 5–10 minutes for Excel to recalculate.
If Excel does not auto-recalculate, use **Data → Refresh All**.

Script overview

00-Master.do

- Sets the project root (maindir) and working directories.
- Calls the processing and export scripts in order.

01-Process_input_data.do

- Reads inputs from 02.input, performs cleaning/merges, harmonizes classifications.
- Produces the master dataset and saves in temporary files.

02-Export_data_for_figures.do

- Loads the master dataset and exports the source sheets used by Excel to 03.Final_output/figures_prod.xlsx:
 - povrates = poverty rates (2014–2024) by UNICEF region and global
 - povnums = poverty numbers (2014–2024) by UNICEF region and global
 - countries = country-year (2014–2024) poverty rates and numbers

Excel workbook (figures_org.xlsx)

Purpose

Reproduce all paper exhibits from the code-generated source sheets.

Source sheets

(these are written by 02-Export_data_for_figures.do)

- povrates
- povnums
- countries

Calculation/output sheets

(Formula-driven; no static values)

- 01-Main_Figures_Tables
- 02-Appendix_Tables_Figures
- Intermediate_tables (helper transformations for the charts)

Important: None of the three calculation/output sheets contain static, hard-coded numbers, except for the reference years.

All values and charts are derived from the source sheets exported by the code. The workbook does, however, contain reference years and country names to be able to import numbers from the source sheets (povrates, povnums, countries).

Data access

- **Microdata:** Access required to the WB GTSD folder to read the appended microdata. Request access via GTSD procedures.
- **Public inputs in 02.input:**
 - `Class.dta` – WB country names and classification
 - `UNDESA_pop_data.dta` – UNDESA population numbers
 - `unicef_regional_class.xlsx` – UNICEF regional classifications

Rights statement: Authors had legitimate access to all data under applicable terms of use.

What gets reproduced

- All figures and tables used in the paper are reproduced by opening `figures_org.xlsx` after running the code.
- The code regenerates the three source sheets (`povrates`, `povnums`, `countries`) that drive every chart/table.

Troubleshooting

- **Path errors:** Ensure `maindir` points to your local folder.
- **Missing data:** Ensure you have permission to the GTSD folder.
- **Excel display:** If charts look stale, use **Data → Refresh All**, or close/re-open the workbook.
- **Locked workbook:** If `figures_org.xlsx` is open in Excel, close it before re-running the Stata export.

Repro notes & good practices

- Do not manually edit numbers or charts in the Excel workbook; use formulas/macros only.
- Keep `02.input` read-only to the code.

- Avoid adding extraneous files not used in the paper to keep the package lean.
- Optionally record Stata version and OS in a small run-info file for QA.

Contact

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