

Read me file: Poverty and Equity Assessment for El Salvador 2024

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I. Overview

The following document provides the necessary information regarding the data processing methods used to calculate the figures and tables included in the report *“Poverty and Equity Assessment for El Salvador 2024.”* The reproducibility package folder contains the following materials:

- Data
- Do files
- Results
- Excel files
- Figures

II. Requirements

1. Computational requirements:

All results were processed using the statistical software STATA and Microsoft Excel.

2. Memory and runtime requirements:

The data was processed on a standard computer. The time required to reproduce the results for each figure or table in the report ranges from 1 to 5 minutes.

III. Folder and contents

1. “.../Data”:

The “Data” folder contains all the datasets used for this report, organized into the following subfolders:

- “/SEDLAC”: This subfolder includes the raw data, all SEDLAC databases for El Salvador’s EHPM from 2000 to 2023, and the 2020 database from ONEC.

The “/SEDLAC” folder contains harmonized databases for El Salvador, prepared by SEDLAC (World Bank and CEDLAS). These databases are of restricted use, with the original source

being the World Bank's datalibweb, intended for internal use only. For El Salvador, these datasets are not publicly available, and authorization is required to access the microdata due to their private nature. While the databases can be used for reproducibility verification, they cannot be shared publicly on any platform.

- “/SLV”: includes all SEDLAC databases for El Salvador EHPM used in this paper, with all poverty variables included. The corresponding databases (.dta) included are:
 - SLV_2000
 - SLV_2002
 - SLV_2003
 - SLV_2004
 - SLV_2005
 - SLV_2006
 - SLV_2007
 - SLV_2008
 - SLV_2009
 - SLV_2010
 - SLV_2011
 - SLV_2012
 - SLV_2013
 - SLV_2014
 - SLV_2015
 - SLV_2016
 - SLV_2017
 - SLV_2018
 - SLV_2019
 - SLV_2020
 - SLV_2021
 - SLV_2022
 - SLV_2023

The “/SLV” folder contains harmonized databases for El Salvador, prepared by SEDLAC (World Bank and CEDLAS). These databases are of restricted use, with the original source being the World Bank's datalibweb, intended for internal use only. For El Salvador, these datasets are not publicly available, and authorization is required to access the microdata due to their private nature. While the databases can be used for reproducibility verification, they cannot be shared publicly on any platform.

- “/IPC SEDLAC”: This subfolder includes the database “ipc_sedlac_wb.dta” from the SEDLAC project. This database contains PPP conversion factors and CPIs (Consumer Price Indexes) for each LAC country, which allow for the estimation of international poverty in the SEDLAC database using the World Bank poverty lines.
 - ipc_sedlac_wb.dta

The “ipc_sedlac_wb.dta” database is also part of the SEDLAC harmonization project (World Bank and CEDLAS) and is of restricted use. While it can be used for reproducibility verification, it cannot be shared publicly on the portal due to its restricted nature.

- “/Latinobarometro”: This subfolder includes the database from the Latinobarómetro project for 2023. This database contains information on public opinion regarding relational deprivations. The data is publicly available and can be downloaded from the official website:

<https://www.latinobarometro.org/latContents.jsp>

- Latinobarometro_2023_Esp_Stata_v1_0.dta

The database “Latinobarometro_2023_Esp_Stata_v1_0.dta” database is publicly accessible. It was downloaded in April 2023.

- “/LAPOP”: This subfolder includes the database from the Latin America Public Opinion Project (LAPOP) for 2023. This database contains information on public opinion regarding relational deprivations. The data is publicly available and can be downloaded from the official website:

<http://datasets.americasbarometer.org/database/login.php>

- SLV_2023_LAPOP_AmericasBarometer_v1.0_w.dta

The database “SLV_2023_LAPOP_AmericasBarometer_v1.0_w.dta” database is publicly accessible. It was downloaded in April 2023.

2. “.../Do files”

This folder contains the do-files with the code used to calculate the results summarized in the figures and tables of the report. The following scripts are included:

- MASTER.do: The main script that organizes the workflow and executes all the sections.
- Poverty_variable.do: Calculates the official poverty variable based on national poverty lines.
- Chapter1.do: Contains the code for all figures and tables in Chapter 1.
- Chapter2.do: Contains the code for all figures and tables in Chapter 2.
- Chapter3.do: Contains the code for all figures and tables in Chapter 3.
- Chapter4.do: Contains the code for all figures and tables in Chapter 4.
- Appendix.do: Includes the code for the appendix figures.
- Tables (LAPOP/Latinobarometro).do: Contains the code used to process the LAPOP and Latinobarómetro data for tables.
- Additional_indicators.do: Contains the code for additional indicators calculated by the team, which may be useful for further research.

3. “.../Excel files”

This folder contains files with data either downloaded from public datasets such as Databank, CEPALSTAT, etc., or prepared as part of a special request. Below is a detailed description of the files:

i. Publicly available files

- “P_Data_Extract_From_Population_estimates_and_projections”: Total population data from the World Bank Databank.
 - Variable name: Population, total
 - Availability: Publicly available
 - Download link:
<https://databank.worldbank.org/source/population-estimates-and-projections#>
 - Downloaded on: May 2024

- “Desigualdad_Datos”: Data on inequality in Latin America and the Caribbean (LAC), measured by the Gini coefficient, sourced from the LAC Equity Lab.
 - Availability: Publicly available
 - Download link:
<https://www.bancomundial.org/es/topic/poverty/lac-equity-lab1/income-inequality/inequality-trends>
 - Downloaded on: May 2024

- “data_1718379487_Public_expenditure”: Data of the public social expenditure according to the classification of the functions of government (as a percentage of GDP).
 - Availability: Publicly available
 - Download link:
https://statistics.cepal.org/portal/cepalstat/dashboard.html?indicator_id=3127&area_id=411&lang=es
 - Downloaded on: June 2024

- “API_NY.GDP.PCAP.PP.KD_DS2_en_excel_v2_442491.xls”: Data of the GDP per capita of various countries, from the World Bank.
 - Variable name: GDP per capita PPP (constant 2021, international \$)
 - Availability: Publicly available
 - Download link:
<https://databank.worldbank.org/metadataglossary/world-development-indicators/series/NY.GDP.PCAP.PP.KD>
 - Downloaded on: June 2024

- “API_SI.POV.UMIC_DS2_en_excel_v2_443853.xls”: Data of the international poverty rates measured by the World Bank.
 - Variable name: Poverty headcount ratio at \$6.85 a day (2017 PPP) (% of population)

- Availability: Publicly available
- Download link:
<https://databank.worldbank.org/metadataglossary/world-development-indicators/series/SI.POV.UMIC>
- Downloaded on: June 2024

ii. Not publicly available files

- “PublicTransfers(LAC,SLV,CENTRAL)_June17_2024.xlsx”: Data of the public transfers as percentage of household's income.
 - Availability: Not publicly available
 - Detail: Special request prepared by the World Bank LAC Stats Team
- “Tables_and_Figures_SLV_update_01Jul2024.xlsx”: Data of the population vulnerable to extreme poverty (see Vuln by groups sheet).
 - Availability: Not publicly available
 - Detail: Special request prepared by the team responsible for the background note 7 “*Vulnerability to Risks*”.

4. “.../Results”

This folder contains files that store intermediate results used to construct the final figures and tables included in this report. All files in this folder are generated by running the STATA scripts. This folder also includes a subfolder named “Additional Indicators,” which contains all the tabs corresponding to the additional indicators calculated in the do-file “Additional_indicators.do”.

5. “.../Figures”

This folder contains the file “**Figures_Tables_PEA_SLV.xlsx**,” which creates the final figures and tables included in the report.

VI. Instructions for Replicators

In order to use the complete package, it is necessary to have access to the EHPM (Encuesta de Hogares de Propósitos Múltiples) databases harmonized by SEDLAC. The EHPM is a national household survey conducted annually to collect data on education, income, employment, and living conditions. The harmonization project by SEDLAC ensures comparability across different years of data and across countries.

The first step in the statistical analysis involves creating the poverty variable in all the databases using the do-file “Poverty_variable.do.” This script calculates the official poverty variable,

measured according to the national poverty lines determined by the consumption baskets for each year.

The report, titled *“Poverty and Equity Assessment for El Salvador,”* is divided into four chapters and an appendix. The do-files have been organized into sections corresponding to these parts, resulting in five do-files. The code for each figure is located in the do-file corresponding to its section. For example, figures in Chapter 1 are coded in the “Chapter1.do” file. The handling of the Latinobarómetro and LAPOP databases has been included in a separate do-file named “Tables_Lapop_Latinobarometro.do”. An extra do-file has been added with additional indicators calculated by the team. This do-file is optional, as it is not used in the creation of any table or figure in the report. However, it has been included in the statistical package as it may be helpful for further research. It is structured by relevant indicators for each chapter, allowing specific sections to be accessed easily when searching for an indicator related to a particular topic.

The “MAIN.do” file serves as the master script, organizing the workflow and ensuring the directories are correctly specified for the entire package. Before running the statistical package, ensure that the directories specified in the “MAIN.do” file align with the folder structure of your local environment. To configure these, modify the lines specifying “global path,” “global data,” “global tabs,” and “global code” in the script. The entire statistical package can be executed by running the “MAIN.do” file, or you can run each do-file individually. Note that the “MAIN.do” file is the only one that includes the specific directories required for the entire package. Please note that the main script does not execute the “Additional_indicators” script.

The results are saved in the “/Results” folder and must be manually added to the Excel file “Figures_Tables_PEA_SLV.xlsx,” located in the “/Figures” folder. This Excel file consolidates all the figures and tables used in the report. Each figure and table in the Excel file is clearly identified by its corresponding number.

The following section provides a detailed description of each figure and table included in the report.

VII. List of Exhibits

Exhibit name	Output filename	Script/Link	Note
Figure 1.	-	-	Figure 1 does not require any data calculations and is therefore not included in the dataset or scripts.
Figure 2.	“Figure2.xls” “P_Data_Extract_From_Population_estimates_and_projections.xlsx”	Do file “Chapter 1”	For Figure 2, the data for poverty rates comes from the “.../Results/Figure2.xls” file, while the population estimates can be downloaded from the Population Estimates and Projections dataset available on the World Bank Databank website. Both datasets should be inserted into the “.../Tables & Figures/Figures_Tables_PEA_SLV.xlsx” file, ensuring

			they are placed in the designated sections of the spreadsheet.
Figure 3.	""API_NY.GDP.PCAP.PP.KD_DS2_en_excel_v2_442491.xls" "API_SI.POV.UMIC_DS2_en_excel_v2_443853.xls"	https://databank.worldbank.org/metadata/glossary/world-development-indicators/series/NY.GDP.PCAP.PP.KD https://databank.worldbank.org/metadata/glossary/world-development-indicators/series/SI.POV.UMIC	For Figure 3, download the data from the World Development Indicators (WDI) Database and the World Bank Poverty and Inequality Platform. Use the following indicators: GDP per capita PPP (constant 2021, international \$) ".../Excel data/API_NY.GDP.PCAP.PP.KD_DS2_en_excel_v2_442491.xls" and Poverty headcount ratio at \$6.85 a day (2017 PPP) (% of population) ".../Excel data/API_SI.POV.UMIC_DS2_en_excel_v2_443853.xls". Then, insert the data for the selected countries into the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring it is placed in the corresponding sections.
Figure 4.	"Figure4.xls"	Do file "Chapter 1"	For Figure 4, open the file ".../Results/Figure4.xls". Each sheet in the file represents a column of information. Insert the data from each sheet into the corresponding year interval column in the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx".
Figure 5.	"Figure5_rural2000.xls" "Figure5_urbano2000.xls" "Figure5_rural2009.xls" "Figure5_urbano2009.xls" "Figure5_rural2019.xls" "Figure5_urbano2019.xls" "Figure5_rural2023.xls" "Figure5_urbano2023.xls"	Do file "Chapter 1"	For Figure 5, open the files ".../Results/Figure5_...xls". Each file represents a column of information that should be inserted into the corresponding row in the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx". The first column in the files ".../Results/Figure5_...xls" represents the mean and should only be inserted once in column B. The second column should be inserted starting from column C.
Figure 6.	"Figure6_rural2019.xls" "Figure6_urbano2019.xls" "Figure6_rural2021.xls" "Figure6_urbano2021.xls" "Figure6_rural2022.xls" "Figure6_urbano2022.xls" "Figure6_rural2023.xls" "Figure6_urbano2023.xls"	Do file "Chapter 1"	For Figure 6, open the files ".../Results/Figure6_...xls". Each file represents a column of information that should be inserted into the corresponding column in the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx". Once inserted, this data will be processed using rolling windows within the file to compute the figures.
Figure 7.	"Figure7_2000.xls" "Figure7_2023.xls"	Do file "Chapter 1"	For Figure 7, open the files ".../Results/Figure7_2000.xls" and ".../Results/Figure7_2023.xls". Insert the information from each file into the corresponding column for each year in the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx".
Figure 8.	-	https://documents1.worldbank.org/curated/en/099447302022329651/pdf/IDU06466952d03db90416e09	Figure 8 corresponds to the poverty map, which was calculated by Robayo, Monica & Rude, Britta (2023) in their paper "Poverty Mapping in El Salvador."

		a3c0d3ba51402688.pdf	
Figure 9.	"Figure9.xls" "Desigualdad_Datos.xlsx"	Do file "Chapter 1" https://www.bancomundial.org/es/topic/poverty/lac-equity-lab1/income-inequality/inequality-trends	Figure 9 is calculated using the LAC Equity Lab Inequality (Gini index) data ".../Excel data/Desigualdad_Datos.xlsx" for all years and all countries, except for the Gini Index of El Salvador in 2023, which is calculated separately in the file ".../Results/Figure9.xls." The information should be inserted into the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx" in the corresponding row for each country.
Table 1.	"Table1_Nonpoor.xls" "Table1_Poor.xls"	Do file "Chapter 1"	For Table 1, insert the data from the files ".../Results/Table1_Nonpoor.xls" and ".../Results/Table1_Poor.xls" into the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring the data is placed in the corresponding columns.
Table 2.	"Table2_latinobarometro.xls" "Table2_lapop.xls"	Do file "Tables_Lapop_Latinobarometro"	For Table 2, insert the data from the files ".../Results/Table2_latinobarometro.xls" & ".../Results/Table2_lapop.xls" in the file .../Tables & Figures/Figures_Tables_PEA_SLV.xlsx" in the corresponding columns
Figure 10.	-	-	Figure 10 does not require any data calculations and is therefore not included in the dataset or scripts.
Figure 11.	"Figure11.xls"	Do file "Chapter 2"	For Figure 11, insert the data from ".../Results/Figure11.xls" into the file .../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring it is placed in the corresponding rows.
Figure 12.	"Figure12.xls"	Do file "Chapter 2"	For Figure 12, insert the data from ".../Results/Figure12.xls" into the file .../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring it is placed in the corresponding columns.
Figure 13.	"Figure13.xls"	Do file "Chapter 2"	For Figure 13, insert the data from ".../Results/Figure13.xls" into the file .../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring it is placed in the corresponding columns.
Figure 14.	"Figure14a.png" "Figure14b.png"	Do file "Chapter 2"	For Figure 14, insert the images ".../Results/Figure14a.png" and ".../Results/Figure14b.png" into the file .../Tables & Figures/Figures_Tables_PEA_SLV.xlsx" in their designated locations.
Figure 15.	"Figure15.xls"	Do file "Chapter 3"	For Figure 15, insert the data from ".../Results/Figure15.xls" into the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring it is placed in the corresponding rows.

Figure 16.	"PublicTransfers(LAC,SLV,CENTRAL)_June17_2024_Statsteam"	-	For Figure 16, insert the data shared by the LAC Stats Team from the file ".../Excel data/PublicTransfers(LAC,SLV,CENTRAL)_June17_2024_Statsteam" into the file ".../Tables & Figures/ Figures_Tables_PEA_SLV.xlsx".
Figure 17.	"Figure17.xls"	Do file "Chapter 3"	For Figure 17, insert the data from ".../Results/Figure17.xls" into the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring it is placed in the corresponding rows.
Figure 18.	"Figure18.xls"	Do file "Chapter 3"	For Figure 17, insert the data from ".../Results/Figure17.xls" into the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring it is placed in the corresponding rows.
Figure 19.	"Figure19-males.xls" "Figure19-females.xls" "Knomad"	Do file "Chapter 3" https://www.knomad.org/data/migration/emigration	For Figure 19a, insert the data from ".../Results/Figure19-males" and ".../Results/Figure19-females" into the file .../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring the data is placed in the corresponding sections for each group. For Figure 19b, migration data was previously available on the KNOMAD (Global Knowledge Partnership on Migration and Development) website at https://www.knomad.org/data/migration/emigration . However, this link is no longer functional, as the initiative ended in 2024, and the website is no longer active.
Figure 20.	"Figure20.xls"	Do file "Chapter 3"	For Figure20, insert the data from ".../Results/Figure20.xls" into the file .../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring it is placed in the corresponding rows.
Figure 21.	"Figure21-data-sr-1.xls" "Figure21-data-sr-0.xls" "Figure21-data-stp-1.xls" "Figure21-data-stp-0.xls"	Do file "Chapter 3"	For Figure 21, insert each data file into the file .../Tables & Figures/ Figures_Tables_PEA_SLV.xlsx", ensuring that the data is placed in the corresponding rows as marked.
Figure 22.	"data_1718379487_Public_expenditure.xlsx"	https://statistics.cepal.org/portal/cepalstat/dashboard.html?indicator_id=3127&area_id=411&lang=es	For Figure 22, access the data on Public social expenditure according to the classification of the functions of government (as a percentage of GDP) from the CEPALSTAT website ".../Excel data/data_1718379487_Public_expenditure.xlsx". Insert the data into the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx", ensuring it is placed in the corresponding sections.
Figure 23.	-	https://documents1.worldbank.org/curated/en/099120924111530595/pdf/P5006561012b9e0b81825f1c557d4877412.pdf	For Figure 23, insert the figure "Vulnerability to poverty and number of disasters" from the Background Note 7: Vulnerability to Risks, "Tables_and_Figures_SLV_update_01Jul2024.xlsx" into the file ".../Tables & Figures/ Figures_Tables_PEA_SLV.xlsx".

Figure 24.	"Figure24.xls" "Tables_and_Figures_SLV_update_01Jul2024.xlsx" see Vulnbygroups sheet	Do file "Chapter 4"	For Figure 24, insert the data of official extreme poverty ".../Results/Figure24.xls" in the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx" in the corresponding rows Also, insert the data of vulnerability to extreme poverty shared by the responsible team of the Background Note 7: Vulnerability to Risks, ".../Excel data/Tables_and_Figures_SLV_update_01Jul2024.xlsx" into the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx".
Figure 25.	"Figure25.xls"	Do file "Chapter 4"	For Figure 25, insert the data ".../Results/Figure25.xls" in the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx" in the corresponding columns.
Figure A.1	"FigureA1.xls"	Do file "Appendix"	For Figure A.1, insert the data ".../Results/FigureA1.xls" in the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx" in the corresponding columns.
Figure A.2	"FigureA2.xls"	Do file "Appendix"	For Figure A.2, insert the data ".../Results/FigureA2.xls" in the file ".../Tables & Figures/Figures_Tables_PEA_SLV.xlsx" in the corresponding columns.

Datalibweb access to data

DATALIBWEB is a data system specifically designed to enable users to access the most up to date versions of non-harmonized (original/raw) and harmonized datasets of different collections across Global Practices. It can perform computations relevant for poverty and shared prosperity analysis based on the microdata from various harmonized collections: EAPPOV, ECAPOV, MNAPOV, SARMD, SEDLAC, LABLAC, SSAPOV, and the global collection GPWG/GMD. It also can help users to have access to the original/raw data for further country-specific analysis.

There is both the STATA program <datalibweb> as well as the website with the furl "datalibweb/" for subscribing.

Each person that wants to download data in Stata using the program code <datalibweb> needs to subscribe personally within the "datalibweb/" website, and sign the General Disclaimer on Terms of Use (see below). To assure that users have the most up to date microdata, and to make sure outputs/projects can be replicated by the original user or others, we highly recommend that people do not download data onto their computers, but rather form the habit of accessing it using the <datalibweb> program in STATA (incorporating it into their do-file codes), as explained further below. Users should always note the vintage of the data.

If you have not installed DATALIBWEB, please follow these instructions:

1. type in the intranet "datalibweb/",
2. go to the tab "about",
3. follow the instructions below "manual installation":
 - a. the "automatic" option is not working, so please follow the instructions related to "manual installation",

- b. follow the steps exactly. If you change the path, or modify the instructions, <datalibweb> may not work,
- c. restart your pc after manual installation of the package,
- d. if you have problems related to the installation, please email the <datalibweb> team at: datalibweb@worldbank.org

After <datalibweb> is installed, you must:

1. accept the General Disclaimer in the datalibweb/ website (the red box in the upper right corner needs to turn green)
2. check if the data you want to access is public or private,
 - a. if public: you have access immediately via STATA,
 - b. if private: you must request access, with an explanation for the use of the data, and the TTL will have to approve (the TTL has the MOU with the country NSO in these cases),
3. please note you can search for SEDLAC or LABLAC data under "Select Server/Country",

In STATA:

1. Once you receive access, you can then use <datalibweb> within STATA to call the microdata.
2. Within STATA, type "help datalibweb" to see examples of the syntax/program code that loads the microdata into STATA.
 - a. Example: `datalibweb, country(ecu) years(2017) type(SEDLAC-03) mod(pov) clear`
 - b. This code opens the POVerty module for Ecuador 2017 from the version 03 of the SEDLAC project.