

Analyze Across Countries (Cross Sectional)

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This option can be accessed from the Main Menu: choose **Data Analysis**, then click **Analyze Across Countries (Cross-Sectional Analysis)**.

Use this option to analyze variables across countries at a given point in time. Explore the relationships between two or more variables by selecting the variables of interest from the drop-down. First, click the bubble below the drop-down to select either the **Dependent Variable** or an **Independent variable** for the analysis, then choose the desired variable from the drop-down. Type into the search bar above the variable dropdown to quickly find a variable. Then use the options and features described below to plot and further explore relationships between variables.

Select Variables to Analyze Across Countries (with Scattergram)
Select Independent Variable and Data Table (e.g. GDP - Economic):

%boys(15-19)marriedorunion - Percentage of boys aged 15-19 years who are currently married or in union before 18 - Tonnes
%girls(15-19)marriedorunion - Percentage of girls aged 15-19 years who are currently married or in union before 18 - Tonnes
%men(20-24)marriedorunionbefore18 - Percentage of men (aged 20-24 years) married or in union before 18 - Tonnes
%women(20-24)marriedorunionbefore15 - Percentage of women (aged 20-24 years) married or in union before 15 - Tonnes
%women(20-24)marriedorunionbefore18 - Percentage of women (aged 20-24 years) married or in union before 18 - Tonnes
AGCropCalPerCapPerDayFAO - Total Crops used for Calories/capita/day (kcal/capita/day) - kcal/capita/day
AGCropDomesticSupplyFAO - Domestic Supply Quantity of Crops (Tonnes) - Tonnes
AGCropExportsFAO - Total Crop Exports (Tonnes) - Tonnes
AGCropFatPerCapPerDayFAO - Total grams of fat consumed from crops per capita per day (g/capita/day) - g/capita/day
AGCropFoodSupplyPerCapPerDayFAO - Total Crops used for Food Supply/capita/day (g/capita/day) - g/capita/day
AGCropImportsFAO - Total Crop Imports (Tonnes) - Tonnes
AGCropProductionFAO - Total Domestic Crops Production (Tonnes) - Tonnes
AGCropProteinPerCapPerDayFAO - Total Crops used for Protein/capita/day (g/capita/day) - g/capita/day
AGCropStockVarFAO - Total Crop Stock Variation (tonnes); New methodology begins at 2010 - Tonnes
AGCropToFeedFAO - Total Crops used for Feed (Tonnes) - Tonnes
AGCropToFoodFAO - Total Crops used for Food (Tonnes) - Tonnes

Show Variable Name Subset:
All
Other Filters
ALL
Analysis
None

None
None
None
None
None
None

☒ Dependent Variable
☐ Independent
☐ Independent
☐ Independent
☐ Independent
☐ Independent

Plot
Computations

Statistics
Search

Continue
Help

An example of the Analyze Across Countries page.

These options and features include:

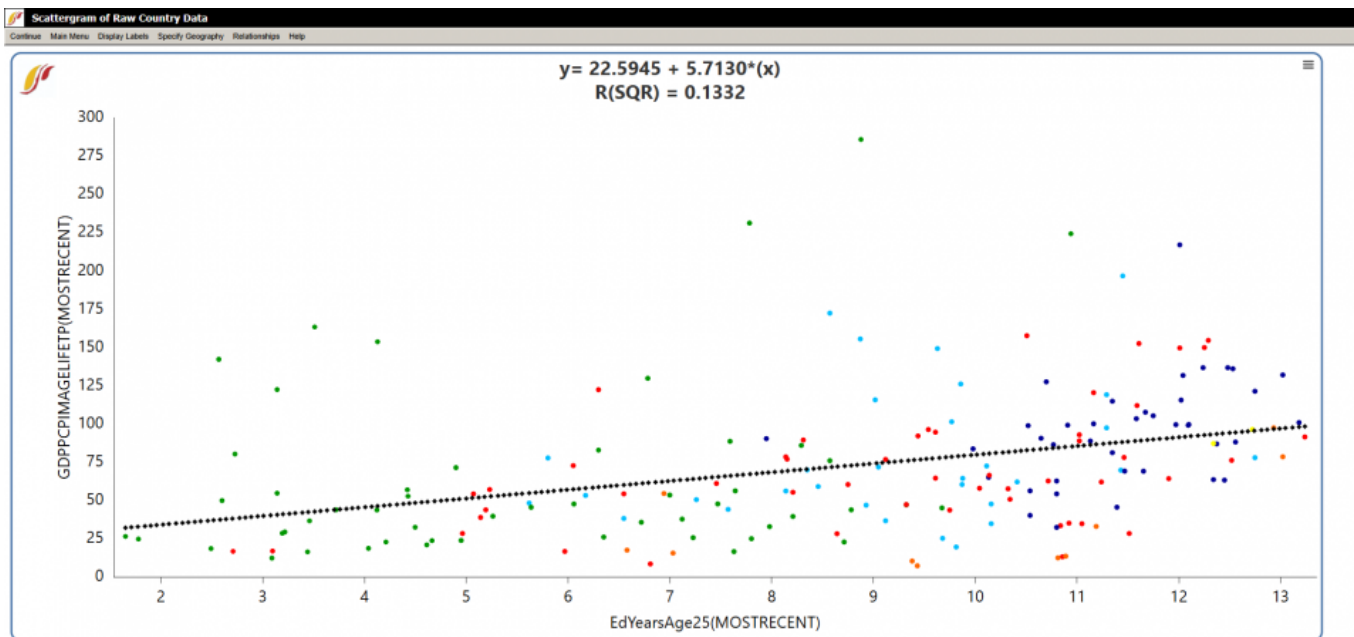
- **Show Variable Name Subset:** Choose the variable category, like **Health** or **International Politics**, to refine the search.
- **Other Filters:** Choose **Used for Initialization** to only select variables that are used in the model preprocessor, choose variables with **At least 10 Data Points**, choose

variables with data **At least through 2020**, or choose **All** to display all variables.

- **Analysis:** Choose to **Use All Years (In Statistics)**, **Use All Years and Time (In Statistics)**, or **None** to only choose one year.
- **Plot:** Create a plot of the chosen variables. IFs will only plot the relationship between up to three variables. The plot option is explained further below.
- **Statistics:** Generate statistics for the chosen variables' relationships. This is explained further below.
- **Continue:** Go back to the previous menu or to the Main Menu of IFs.
- **Computations:** Create a computation for a new variable list to use for data analysis. Follow the steps from the Computations section of Self Managed Display except choose a year when prompted.
- **Search:** Open a search page to search and choose variables. The search option is explained further below.
- **Help:** Open the corresponding page in the Pardee Wiki with the current feature or display they are using.

Plot

Use the **Plot** option to visualize relationships between up to three variables. When plotting three variables, one of the variables will be represented by dot size.



An example of the Plot option from the Analyze Across Countries page. This example is for Education Years of 25 plus and GDP per capita, with a linear relationship chosen.


Options and Features on the Plot page include:

- **Continue:** Go back to the previous menu or to the Main Menu of IFs.
- **Main Menu:** Go back to the Main Menu of IFs.
- **Display Labels:** Choose **Country Names** or **Country Codes** to display them on the plot. Choose **No Labels** to display none, or choose one of the other two options:

- **Axis Labels:** Edit the text of the Axis Labels, add a title, or add a subtitle to the plot.
- **Axis Points and Labels:** Choose which countries to display points or labels for; all countries' points are displayed by default.
- **Specify Geography:** Change which set of countries or year is displayed; the selected option will have a checkmark next to it.
 - **Countries:** Display all countries; selected by default.
 - **Select Geographic List:** Choose a geographic list to display only the countries in that list. Click **Select** once the desired list is clicked, or **Continue** to go back.
 - **Select Group:** Choose a group to display only the countries in that group. Click **Select** once the desired group is selected, or **Continue** to go back.
 - **Add Geographic List or Add Group:** Select a second or multiple geographic lists or groups to plot, in order to display multiple lists or groups in the same plot.
 - **Add Year:** Choose an additional year to display on the plot.
- **Relationships:** Choose from a statistical relationship (function) to estimate the relationship between the chosen variables. Once chosen, a line of the relationship and the relationship equation will be displayed on the graph like above.
 - Relationship options include: **Linear, Logarithmic, Exponential, Power, Polynomial Second Degree, Polynomial Third Degree, Logistic, and No Regression.**
- **Help:** Open the corresponding page in the Pardee Wiki with the current feature or display they are using.

Statistics

Use the **Statistics** option to explore the relationship between chosen variables. Click on any of the Transformation options to transform a variable in the relationship function.


Transformation Options

VARIABLES CHOSEN		TRANSFORMATION OPTIONS								
	NONE	LOG	X^2	X^b	e^X	Logistic	X^2 (Pol)	X^3 (Pol)	b	
Dependent = GDPPCP9MAGELIFETP	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Independent1 = EdYearsAge25	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		

Return To Variable Selection

Compute and Show Statistics

Help


An example of the Statistics option from the Analyze Across Countries page, for GDP per capita and Education Years 25+.

Some Options and features within the Statistics option include:

- **Return to Variable Selection:** Go back to the previous page.
- **Compute and Show Statistics:** Show statistics and the function equation based upon the selected variables and transformations.
- **Help:** Open the corresponding page in the Pardee Wiki with the current feature or display they are using.

Search

Similar to the Parmeter Search option, use the variable **Search** option to search, explore, and choose variables for data analysis. Type the known name for the variable, then hit Enter or click **Search**; a list of variables will appear in the drop-down. From the drop, select the desired variable, then use the options to the right to load or find out more about it.

 **Search Variables to Analyze Across Countries**

Type Variable name or description and click Search

GDPPCP

Select one and click Load to return to Cross-Sectional Analysis

GDPPCPIMAGELIFETP - GDP per capita in PPP - Thousand USD

GDPPCPIMAGEREF1P5C - GDP per capita at PPP - Thousand USD

GDPPCPIMAGEREFETP - GDP per capita at PPP - Thousand USD

GDPPCPIMAGETECHTP - GDP per capita at PPP - Thousand USD

GDPPCPPPCUR2005ICP - GDP per capita at PPP (current international dollars based on

GDPPCPPPCUR2011ICP - GDP per capita at PPP (current international dollars based on

GDPPCPPPCurDol - GDP per capita, Purchasing power parity, (current international \$) - C

RelativePowerGDPPCPPP - GDP (PPP) per Capita - Dollars, thousands

RelativePowerGDPPCPPPtimesGDPMER - GDP (PPP) per Capita multiplied by GDP (ME

Search

Load

Data Analysis

Continue

Help

An example of the Search variable option showing GDP per capita, from the Analyze Across Countries page.

The options on the Search Variables page include:

- **Search:** Click to search for variables.
- **Load:** Load this variable as an independent or dependent variable on the *Analyze Across Countries* page.
- **Data Analysis:** Open information on the data source and the availability of the data in different years.
- **Continue:** Go back to the previous menu or to the Main Menu of IFs.
- **Help:** Open the corresponding page in the Pardee Wiki with the current feature or display they are using.

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