

Analyze Across Time (Longitudinal)

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Use the *Analyze Across Time* feature to analyze a variable or a few variables across time for one or a few countries. From the *Main Menu*: choose **Data Analysis** then click **Analyze Across Time (Longitudinal)**.

There are a number of options and features that alter how the Analyze Across Time feature is used. Always select at least one variable and one country or there will be not data to plot. Choose a variable (or two if you are using **As Points** or **As Time**) from the variable drop down then click **Select**, then select at least one country using the **Select Countries** button, and lastly click **Plot** to analyze. When selecting a variable prior to clicking **Select** another option **Data Information** will be available; click to open information on the data source and availability of the data in different years.

Select Variables to Analyze Across Time

Select Dependent Variable:

%boys(15-19)marriedorunion - Percentage of boys aged 15-19 years who are currently married or in
%girls(15-19)marriedorunion - Percentage of girls aged 15-19 years who are currently married or in
%men(20-24)marriedorunionbefore18 - Percentage of men (aged 20-24 years) married or in union be
%women(20-24)marriedorunionbefore15 - Percentage of women (aged 20-24 years) married or in ur
%women(20-24)marriedorunionbefore18 - Percentage of women (aged 20-24 years) married or in ur
AGCropCalPerCapPerDayFAO - Total Crops used for Calories/capita/day (kcal/capita/day) - kcal/cap
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
AGCropFoodSupplyPerCapPerDayFAO - Total Crops used for Food Supply/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
AGCropStockVarFAO - Total Crop Stock Variation (tonnes); New methodology begins at 2010 - Tonn
AGCropToFeedFAO - Total Crops used for Feed (Tonnes) - Tonnes
AGCropToFoodFAO - Total Crops used for Food (Tonnes) - Tonnes

Show Variable Name Subset: All

Other Filters: ALL

Dependent Variable: None

Treatment of Time: ☒ As Independent Variable ☐ As Points ☐ As Time

Countries Selected? None

☐ Use Nulls as Zeros ☒ Ignore Nulls

Select Countries Plot Continue

Use Groups Computations Table

Search Help

An example of the Analyze Across Time page.

Use these features and options to assist in analysis:

- **Treatment of Time:** Choose how to treat time and whether to display more than one variable
 - **As Independent Variable:** Plot one variable across time.
 - **As Points:** Plot two variables, with x and y axis representing one variable, and each point representing a year. Points will be numbered with the first year as 1 and each year after increasing by one.

- **As Time:** Plot two variables across time. This feature is most useful when variables share similar units.
- **Independent Variable** and **Dependent Variable:** Click on desired choice before choosing a variable; only one option will be shown when using **As Independent Variable**.
- **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.
- **Use Nulls as Zeros** or **Ignore Nulls:** Choose to display years with no available data as zero or to ignore those years.
- **Select Countries** or **Select Groups:** Choose groups or countries to display data for. This option is explained further below.
- **Plot:** Create a plot of the chosen variables. The plot option is explained further below.
- **Continue:** Go back to the previous menu or to the Main Menu of IFs.
- **Use Groups** or **Use Countries:** Switch between using groups or countries; the option to switch to will be displayed.
- **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.
- **Table:** Open a Table Display of the currently selected variable for the selected countries or all countries if non are selected. This feature is only available when using the **As Independent Variable** option of **Treatment of Time**.
- **Search:** Open a search page to search and choose variables. The search option is explained further in the Analyze Across Countries page.
- **Help:** Open the corresponding page in the Pardee Wiki with the current feature or display they are using.

Select Countries or Groups

Use this option to choose the country(s) and or group(s) to display. Choose the desired country or group to display then use the arrow pointing toward the selections box to add it as a selection. Click on a country or group in the selections box and use the arrow pointing away to remove a selection. Add both countries and groups to the selection box by clicking on an option below the selection box: **Country/Regions**, **Groups**, or **Decomp. Groups**; this will change the selection choices box.

Select Country(ies)

Countries: Select Choices

ACC Forecast Group

ACC High Income

ACC Low Income

ACC Middle Income

AFP Central Africa

AFP East/Horn Africa

AFP Northern Africa

AFP Southern Africa

AFP Western Africa

Afr-Eastern

Afr-Middle

Afr-Northern

Afr-Southern

Afr-SS Coastal Collier

Afr-SS ResRich Collier

Afr-SubSahar

Afr-SubSahar wo SAfrica

Afr-Western

AfrAEZ-Central

AfrAEZ-CoastalWest

Selections:

>

<

☐ Country/Regions

☒ Groups

☐ Decomp. Groups

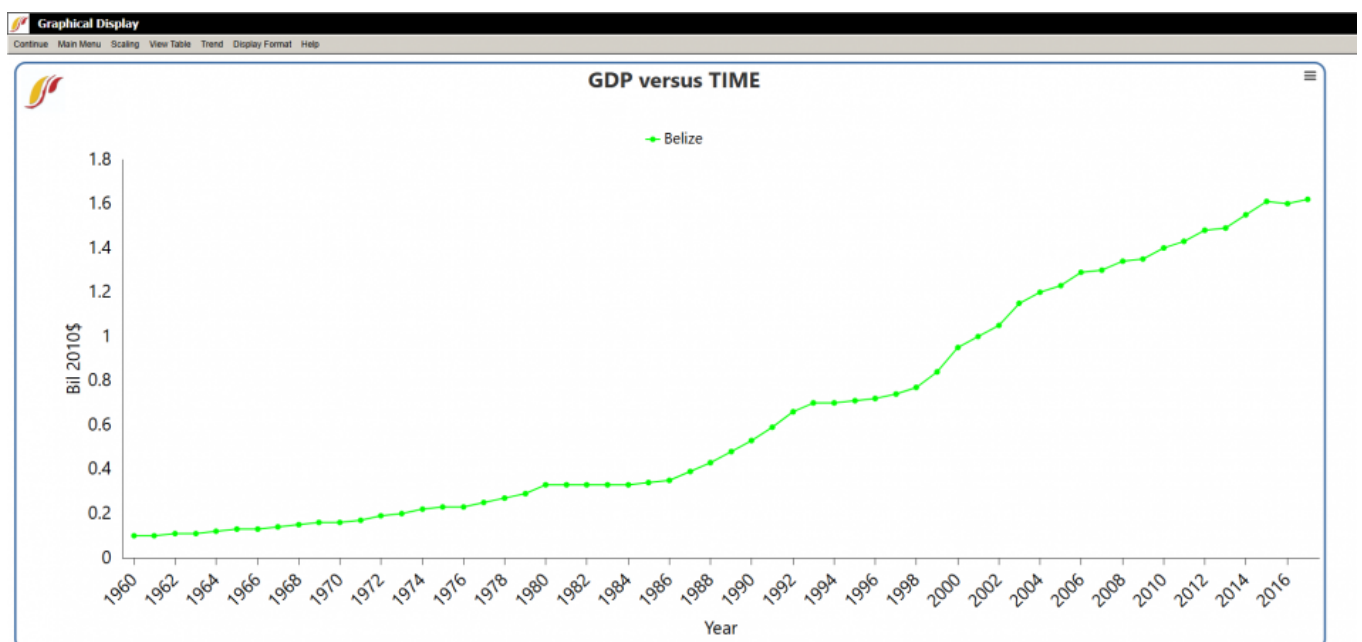
Continue

Clear

An example of the Select Countries option from the Analyze Across Time page.

Plot

Use the *Plot* option to visualize how variables change overtime and their relations with each other. Depending on the choice of **Treatment of Time** the plot option will look different. Some plots may have variables on both the X and Y axis, others may have time on the X axis and variables on the other. All plots have options and features that can alter the way data is displayed.



An example of the Plot option from the Analyze Across Time page, for Belize and GDP.

These options and features vary between plot but may 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.
 - **Scaling:** When plotting two variables use this option to set the scaling between variable units.
 - **Common:** Scales to a common measure, with 1 representing the largest observation of both variables.
 - **Scale:** Scales to the most recent variable chosen.
 - **View Table:** Open the data displayed on the plot in table display.
 - **Trend:** Add a trend line to fit the data being plotted.
 - Choose between **Linear**, **Polynomial**, **Logarithmic**, **Exponential**, **S-Curve**, or **Extrapolation Setup** to customize the function relationship.
 - **Display Format:**
 - **Set Title, Display Interval, or Year:** Edit specific display features for the plot such as axis titles and ranges.
 - **Format Legend Labels:** Change the legend format or labels.
 - **Help:** Open the corresponding page in the Pardee Wiki with the current feature or display they are using.
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