

Self-Managed Display (Download)

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The *Self-Managed Display* can be accessed from the Main Menu: click Display then **Self-Managed Display (Complete Flexibility)**. This display first opens to a page titled: *Full Variable/Parameter Selection*.

Full Variable/Parameter Selection

On this page use the display option fields and other options in the menu bar to select particular scenarios and variables or parameters to display, or create new variable lists and new G-lists using the **Variable Selection Options**.

In the center of the page there is a search bar and a dropdown. First, choose whether you would like to view variables by Country/Region, by Group, by Decomposed Groups, or by Geography-Lists by selecting the respective option. Second, use the *lower* selection box, Files Available for Display, to select one or more scenarios from the scenario list. Then choose the variable or parameter to display: use the search bar to select particular variables or parameters to display and click the desired choice or scroll and click on a desired choice from the dropdown. Once a parameter or variable is clicked, a dropdown with countries or groups will appear; choose from the dropdown or select **All** to choose all countries or groups. If the chosen variable has dimensions (ex. Male, Female, and Total) a dropdown with these will appear choose from the dropdown or select **All** to choose all dimensions.

After choosing the desired countries or groups, and dimensions the original *Full Variable/Parameter Selection* page will open again but with a selection box showing the current choices at the bottom of the screen. Select another variable or parameter from the search bar or dropdown to add more to the selection box. Below this box are four display option buttons; click on a particular button depending on the intended use of *Self Managed Display*.

Full Variable/Parameter Selection

Continue Scenario Output Files Variable Selection Options Open IFsBaseHist Variable Search Help

Country/Regions Groups Decomposed Groups Geography-Lists

Type name or click on name; then touch Enter key

actreaon - Action/Reaction Switch (1=On, 0=Off) - Switch

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agconv - Agricultural demand convergence time to function - Years

AGDEM - Agricultural demand - Mil Met Tons

AGEOFMARRIAGE - Age of Marriage - Years

ageofmarriagem - Age of Marriage Value, multiplier - Mul Base 1

ageofmarriagelfvalue - Elasticity of age of marriage to total fertility rate - No Units

Files Available for Display (the active file is in the Text Box):

To Show a Subset of Names:

0 - Working File, based on IFsBase.run.db

1 - IFsBase.run.db

All

An example of the Self-Managed Display when first opened.

Display Option Buttons:

- **Clear Select:** Clear current variable or parameter choices from the selection box.
- **Computations:** Create a unique variable from a computation of existing variables. See the section below for more information.
- **Go to Display:** Open *Display Menu* page and from here choose desired display format.

Other Display Options:

- Choose **Countries/Regions**, **Groups**, **Decomposed Groups**, or **Geography Lists** (G-lists) to display desired groupings.
- **Type name or click on name; then touch Enter key:** Select desired variable or parameter from search results or scroll in drop down.
- **Files Available for Display (the active file is in the Text Box):** Select the desired scenario(s).
- **To Show a Subset of Names:** Choose a particular display category from the dropdown, to only show variables and parameters within that category.

The *Full Variable/Parameter Selection* page has a few other options and features from the menu bar:

- **Continue:** Go back to the previous menu or to the Main Menu of IFs.
- **Scenario Output Files:**
 - **Explain File Numbering:** Open a pop-up with explanation to scenario numbering.

- **Explain Scenario Analysis:** Open a pop-up with an overview of scenarios and their use in IFs.
- **Variable Selection Options:**
 - **Explain Names:** View an explanation of the difference between variable and parameter naming.
 - **Show Variables:** Only show variables and no parameters. Will have checkmark next to it if selected.
 - **Show Variables and Parameters:** Show both variables and parameters and is chosen by default. Will have checkmark next to it if selected.
 - **Show Variable and Display Lists:** Show both variable and variable-lists (a pre-set list of certain variable(s) to display). Will have checkmark next to it if selected.
 - **History plus Forecast:** Display the historical data for variables when available. Will have checkmark next to it if selected.
 - **Create variable list from selection status box:** Create a unique variable list. See the section below for more information.
 - **Create G-list from selection status box:** Create a new G-list based upon the chosen group(s) and country(s) in the selection box. Enter a name when prompted, and the Edit G-List page will open.
 - **Edit G-list:** Edit, import, and export different G-lists. Same process as the **Edit Group or Country/Region Members** page.
 - **Use estimation to complete data:** Extrapolate the historical data to fill in any holes that may exist. Will have checkmark next to it if already being used.
 - **Use estimation to complete data (only holes no extrapolation):** Fill any holes that may exist with estimations but does not extrapolate between holes.
 - **Use all available Historical Data:** provide the most up to date historical data available. Will have checkmark next to it if selected.
 - **Exclude Total when using All Dimensions:** When choosing **All** dimensions the total dimension will not be chosen.
 - **Group Aggregation:** Choose how to aggregate from the country to group level for variables that have an aggregation rule.
- **Open IFsBaseHist or Open IFsBase:** Click **Switch** to access historical empirical data and the historical forecasts. Use this feature to see historical forecasts using IFs from 1960 to 2020 for variables to fill in missing data. Or use this feature to validate past forecasts against empirical historical data. If **IFsBaseHist** is currently selected then **Open IFsBase** will be shown and vice versa.
- **History Variable Options:** Only available when **Open IFsBaseHist** is clicked first.
 - **Select from Forecasted Historical Variables:** Display variables that are forecasted from 1960-2020.
 - **Select from Empirical Historical Variables:** Display all empirical data from 1960-2020 where available.
 - **Select for Validation:** Feature is no longer available or outdated in the model.
 - **Open for Validation:** Feature is no longer available or outdated in the model.
- **Variable Search:** Click **Search** to open a *Variable/Parameter Search* page to search for a

certain variable or parameter.

- **Help:** Open the corresponding page in the Pardee Wiki.

Computations

Click on the **Computations** button at the bottom of the page. A new screen will appear as displayed below. In the box, type in a formula for IFs to calculate. For example, the number of literate people within a country will be $a*b/100$; "a" represents the percent of literate people variable LIT, and b represents population in millions variable POP (the use of "a" and "b" are arbitrary and other letters can be used). Use standard symbols in order to distinguish different mathematical functions. Use * for multiplication, / for division, + for addition, - for subtraction, () to group terms, etc. After typing in this formula, click **SelectVars** to select input variables or **Exit** to return to the previous page.

The screenshot shows a web-based application for performing calculations. At the top, there is a logo of a stylized orange and red 'P' and the word 'Computations'. Below the title, there is a text input field with the placeholder 'Type your formula using any variable names' and an example 'a/b'. To the right of the input field is a 'Help' button. Below the input field are two buttons: '(S)elect Vars.' and 'E(x)it'. At the bottom of the page, there are three input fields: 'Formula Name?' with 'Number of Literate People' entered, 'Units?' with 'Millions of People' entered, and 'Dimensionality?'. There is also a checkbox labeled 'Use (N)ulls as Zeros'.

An example of the Computations page for creating a number of literate people variable.

The screenshot shows a web-based application for defining a new variable. At the top, there is a logo of a stylized orange and red 'P' and the word 'Computations'. Below the title, there is a 'Help' button. The main area contains three input fields: 'Formula Name:' with 'Number of Literate People', 'Dimension Name (optional):' (empty), and 'Units Name (optional):' with 'Millions of People'. At the bottom is a button labeled '(O)k'.

An example of the Computations page prompt to enter and formula for the number of literate people.

Formula Name, Dimensions Name, and Units Name: These three naming options are available but only the Formula Name is required. The Dimensions Name could be used to describe, for example, the geographic bounds of the formula. The Units Name could be used to describe the units being displayed in the formula (e.g. Millions of People). Once the preferred names are entered click **OK**. The original *Computations* page will open but with a small table added at the bottom. The variables used in the formula will be displayed in this table.

Click on a letter in the table, then select the desired variable to be used for that letter in the formula from the search and dropdown box. When prompted to select dimension, click the desired dimension or **All** to create a variable with these multiple dimension. When prompted to select a Country or Group choose whichever, but ensure the same choice across all variables. Do this for each letter/variable.

The screenshot shows the 'Computations' page interface. At the top, there is a search bar with the placeholder 'Type your formula using any variable names' and an example 'a/b'. Below the search bar is a formula input field containing 'A/B*100'. To the right of the input field is a 'Help' button. Below the input field are two buttons: '(S)elect Vars' and 'E(x)it'. Further down, there are two input fields: 'Number of Literate People' and 'Millions of People', both set to 'Afghanistan'. A checkbox labeled '□ Use (N)ulls as Zeros' is also present. At the bottom is a table titled 'CodeVar VarName' with two rows. The first row, for 'A', has a blue background and contains 'LIT[0] Afghanistan'. The second row, for 'B', contains 'POP[0] Afghanistan'.

Code	Var	VarName
A		LIT[0] Afghanistan
B		POP[0] Afghanistan

An example of the Computations page with the variables selected for the number of literate people.

Once each letter has a variable next to it, click **Exit** to return to the original *Self-Managed Display* page. The new variable based upon the newly created formula will now be in the section box. Click **Go to Display** to visualize this new variable or click **Create variable list from selection status box** to create a new variable list from the **Variable Selection**

Options dropdown.

Click **Help** on any page to be brought to the corresponding wiki.

Create Variable List from Selection Status Box

Use the **Create variable list from selection status box** option to create new variable lists, which can be accessed from other parts of IFs such as in *Flexible Displays*. Variable lists can be sets of variables for displaying together such population and percent of literate people, or new **Computations** made from multiple variables, such as number of literate people.

First, ensure the desired variables for a new list from the variable drop down or from the **Computations** option are in the selection box. Then click Variable **Selection Options** and **Create Variable list from selection status box**. Enter the desired variable list name then click **Save List** or click **Cancel** to be brought back to the Self-Managed Display screen. The *Edit List* page opens once **Save List** is clicked; shown below.

The screenshot shows the 'Edit List' page with the following interface elements:

- List Name:** A text input field containing "Literate People".
- Lists:** A dropdown menu listing various variables and computations, including "Land per Capita", "Land Use All Types and Total", "Life Expectancy", "Literacy Rate", and "Number of Literate People".
- Variables:** A dropdown menu showing "Number of Literate People".
- Message:** A red warning message: "You Have Unsaved Changes. If you close IFs now, all unsaved changes will be lost."
- Buttons:** A row of buttons including "Save Changes", "Exit", "Export Selected Lists", "Delete Lists", "Delete Variable", "Import Selected File", "Choose File" (with "No file chosen"), "Update List Name", and "Edit Units (Y axis label)".
- Category:** A section with "Category" and "Education" dropdowns, and "Update Category" and "Education" buttons.

An example of the Edit List page when creating a new variable for the number of literate people.

Choose the desired category for the new variable list from **Category** dropdown, then click **Update** to ensure this category is updated with the new variable list. Finally click **Save Changes** and **OK** on the warning prompt. A message should appear saying the variable list was successfully saved.

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