# Use IFs (Download): Environment

This is the approved revision of this page, as well as being the most recent.

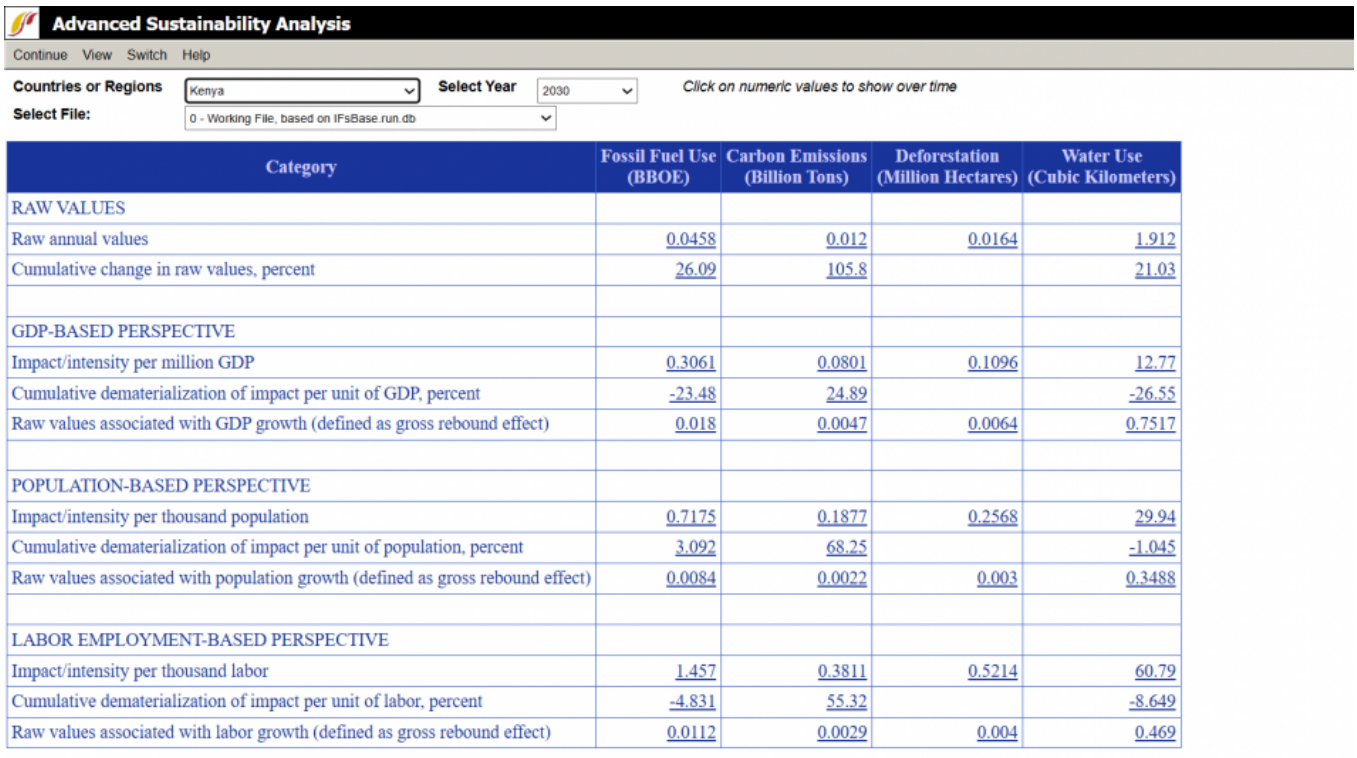
> The printable version is no longer supported and may have rendering errors. Please update your browser bookmarks and please use the default browser print function instead.

Information on the data and equations used in the Environment displays can be found in the wiki page on the Environment sub-module.

# Advanced Sustainability Analysis

The *Advanced Sustainability Analysis* specialized display can be reached from the Main Menu: click the **Display** option, the **Specialized Display** sub-option and then the ***Advanced Sustainability Analysis*** sub-sub-option. It is also located under the Main Menu Map options.

This display shows a matrix of varying human systems use of material inputs and production of emissions. The top of the matrix is material inputs that relate most to environmental systems (fossil fuel use, water use, and deforestation) and carbon emissions. The side of the matrix is three specific human systems: GDP, population, and labor. Each of these systems shows the impact or intensity in the chosen year, the cumulative impact or intensity, and the raw values associated with each human systems growth. Below this matrix there is a table that shows the total value and percent change for GDP, population, and labor.




| Category | Fossil Fuel Use (BBOE) | Carbon Emissions (Billion Tons) | Deforestation (Million Hectares) | Water Use (Cubic Kilometers) |
|---|---|---|---|---|
| RAW VALUES | | | | |
| Raw annual values | 0.0458 | 0.012 | 0.0164 | 1.912 |
| Cumulative change in raw values, percent | 26.09 | 105.8 | | 21.03 |
| | | | | |
| GDP-BASED PERSPECTIVE | | | | |
| Impact/intensity per million GDP | 0.3061 | 0.0801 | 0.1096 | 12.77 |
| Cumulative dematerialization of impact per unit of GDP, percent | -23.48 | 24.89 | | -26.55 |
| Raw values associated with GDP growth (defined as gross rebound effect) | 0.018 | 0.0047 | 0.0064 | 0.7517 |
| | | | | |
| POPULATION-BASED PERSPECTIVE | | | | |
| Impact/intensity per thousand population | 0.7175 | 0.1877 | 0.2568 | 29.94 |
| Cumulative dematerialization of impact per unit of population, percent | 3.092 | 68.25 | | -1.045 |
| Raw values associated with population growth (defined as gross rebound effect) | 0.0084 | 0.0022 | 0.003 | 0.3488 |
| | | | | |
| LABOR EMPLOYMENT-BASED PERSPECTIVE | | | | |
| Impact/intensity per thousand labor | 1.457 | 0.3811 | 0.5214 | 60.79 |
| Cumulative dematerialization of impact per unit of labor, percent | -4.831 | 55.32 | | -8.649 |
| Raw values associated with labor growth (defined as gross rebound effect) | 0.0112 | 0.0029 | 0.004 | 0.469 |

Example of the Advanced Sustainability Analysis specialized display for Kenya in 2030.

There are a few options and features to adjust this display:

- **Continue**: Go back to the previous menu or to the Main Menu of IFs.
- **View**: Click **Normal** or **Percent Change From Base Case** to change the way numbers are displayed. The current selection will have a checkmark next to it.
- **Switch**: To change between countries/regions or groups.
- **Help**: Open the corresponding page in the Pardee Wiki.

Display Option Fields:

- Click on a numeric cell to graph its value over time.
- **Countries or Regions**: Choose the desired country, region, or group.
- **Select Year**: Choose the desired year to display.
- **Select File**: Choose the desired scenario to display.

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