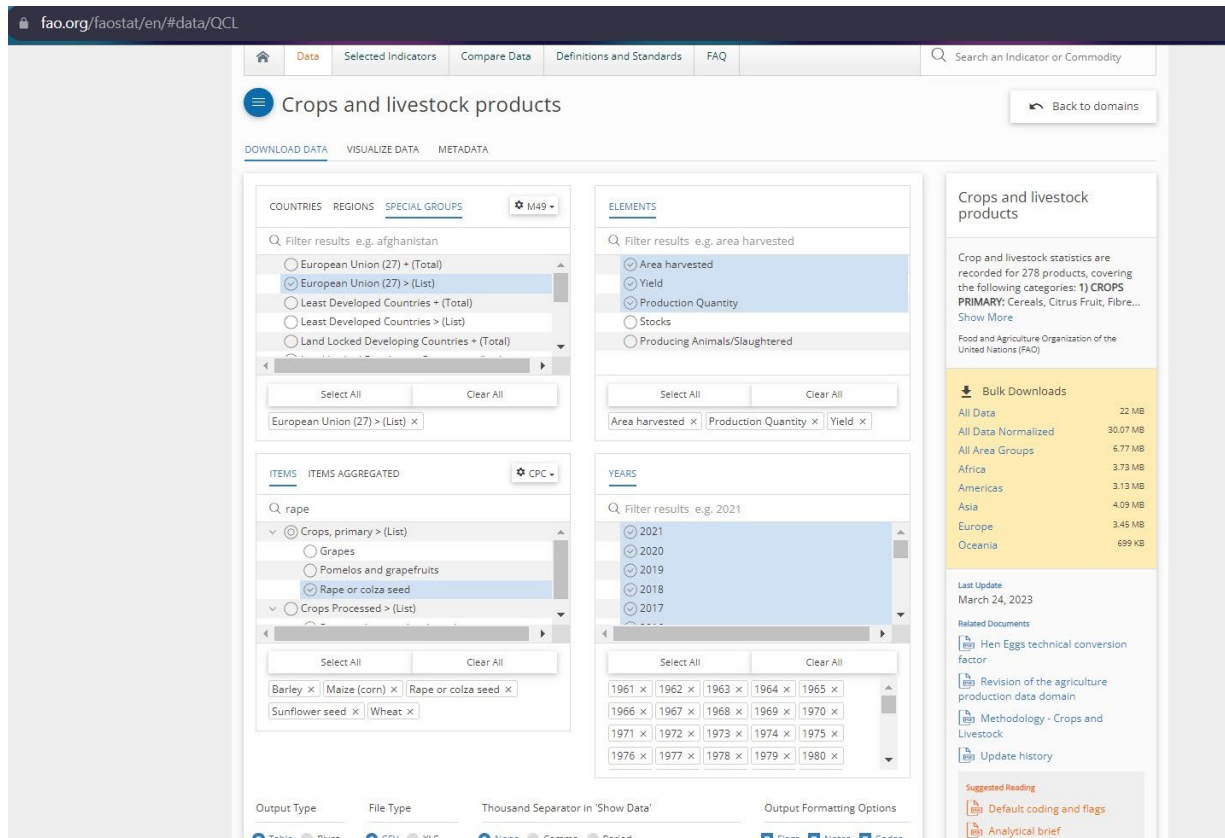


- The dashboard uses the FAOSTAT database, which is the official database of Food and Agriculture Organization of the United Nations. Link: <https://www.fao.org/faostat/en/#data/QCL>

The website was filtered in the following way:

- Countries:
 - EU countries (by selecting special groups)
- Items:
 - only primary crops: Corn, Wheat, Barley, Sunflowerseed, Rapeseed.
- For elements:
 - Area harvested, Yield and Production Quantity
- For years I did not use any filtering.

Here is a screenshot for further confirmation:



Data Source

The dataset is about the Agriculture of the EU. Each row describes one country's values for a given year for a given element:

- Area fields identify the country (Austria, Belgium, Bulgaria, etc.)
 - 28 distinct values
- The element field identifies the category. (Yield, Area Harvested, Production)
- Item field specifies the crop (Barley, Wheat, Corn, Sunflowerseed, and Rapeseed)
- Year (from 1961 to 2021)
- Unit: defines the unit of measurement (ha, mt, 100g/ha)
- Value: shows the values for the given element.

Calculated fields

Using MS Excel I had to modify the Value column as this was the only way to make the charts interact with each other. New columns include:

- Area Harvested Value:
 - uses the value field's value only if the element is Area Harvested
 - `=IF('Element' = "Area Harvested", 'Value', "")`
- Yield
 - uses the value field's value only if the element is Yield
 - divides it by 10 000 and rounds up to 2 decimals so the original 100g/ha is converted into mt/ha
 - `=IF('Element' = "Yield", 'Value/10000', "")`
- Production
 - uses the value field's value only if the element is Production
 - `=IF('Element' = "Production", 'Value', "")`

Dashboard Layout

The dashboard consists of 3 main areas, in the following vertical order:

- Header area (Title & subtitle)
- KPI and filter area
- Main charts area

The main charts

- **Crop Yields (mt/ha) vs. Harvested Area (ha):** A line chart showing the aggregated values of yield and harvested areas using two y axes over time (x axes)
- **Total Production (mt):** A bar chart displaying the Top 5 countries in the category of total produced quantity.
- **Total Harvested Area (ha):** A column chart displaying the Top 5 countries in the category of total harvested area.

KPI Cards

There are 3 KPI cards on this dashboard:

- **Total Harvested Area (ha):** the total area harvested for the selected filtering
- **Total Production (mt):** the total production for the selected filtering
- **Average Yield (mt/ha):** the average yield for the selected filtering

Slicers

There are 3 Slicers on this dashboard:

- Crop: is a dropdown slicer with multi-select for the Item field
- Country: is a dropdown slicer with multi-select for the Area field
- Year: is a „between” slicer for the Year column

Non-visible filters

- The **Total Production** and **Total Harvested Area** charts feature a Top N filtering for the Top 5 by value of sum of Production and sum of Harvested Area respectively.