

# Business Question and Visualization Report

---

Date	25 june 2025
Team ID	38
Project Name	Global Food Production Trends and Analysis
Project Title	Power BI Dashboard
Maximum Marks	5 Marks

Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. The goal is to transform complex datasets into visual formats that are easy to interpret, enabling users to gain insights and make informed decisions. Visualization development involves selecting appropriate visual elements, designing layouts, and using interactive features to enhance the user experience. This process is commonly associated with data visualization tools and platforms, and it plays a crucial role in business intelligence, analytics, and reporting.

## Business Questions and Visualizations

1. The process involves defining specific business questions to guide the creation of meaningful and actionable visualizations in Power BI. Well-framed questions help in identifying key metrics, selecting relevant data, and building visualizations that provide insights.

What is the total rice production from 1961 to 2023

- Visualization: Use a KPI card to effectively highlight the total rice production, which is 269 billion tonnes.



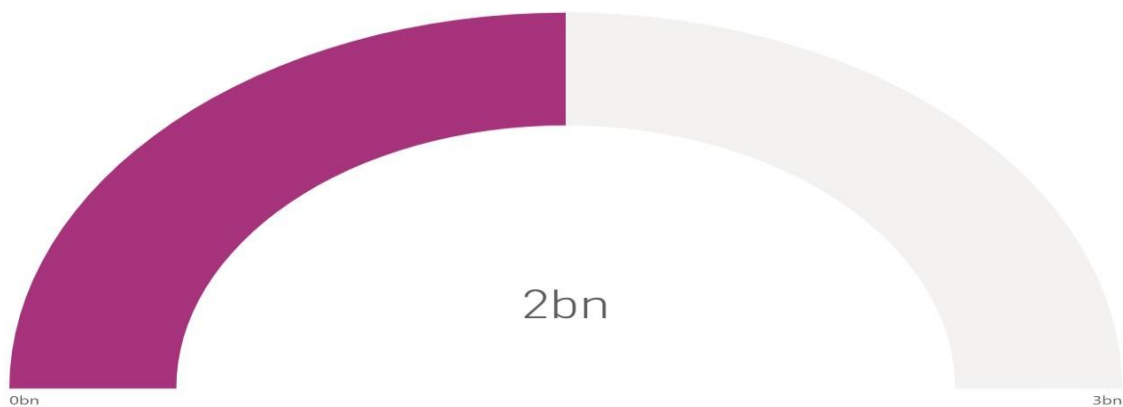
2. What is the total wheat production during the analysis period?

- Visualization: Use a KPI Card to visual to clearly present the wheat production total of 282 billion tonnes.



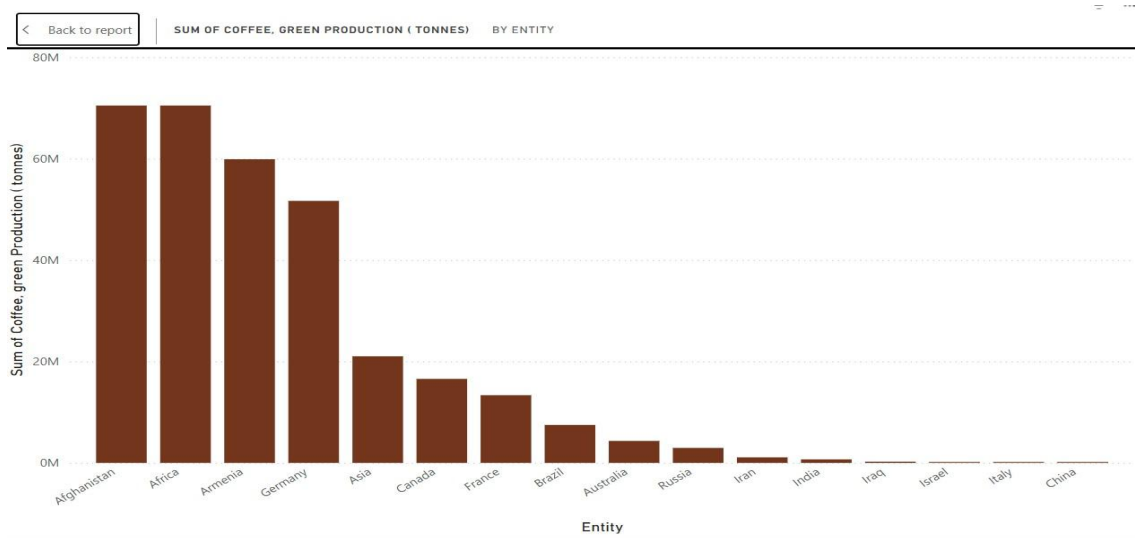
3. How much tea was produced globally between 1961 and 2023?

- Visualization: Use a Gauge Chart to visually represent the global tea production, which amounts to 2 billion tonnes.



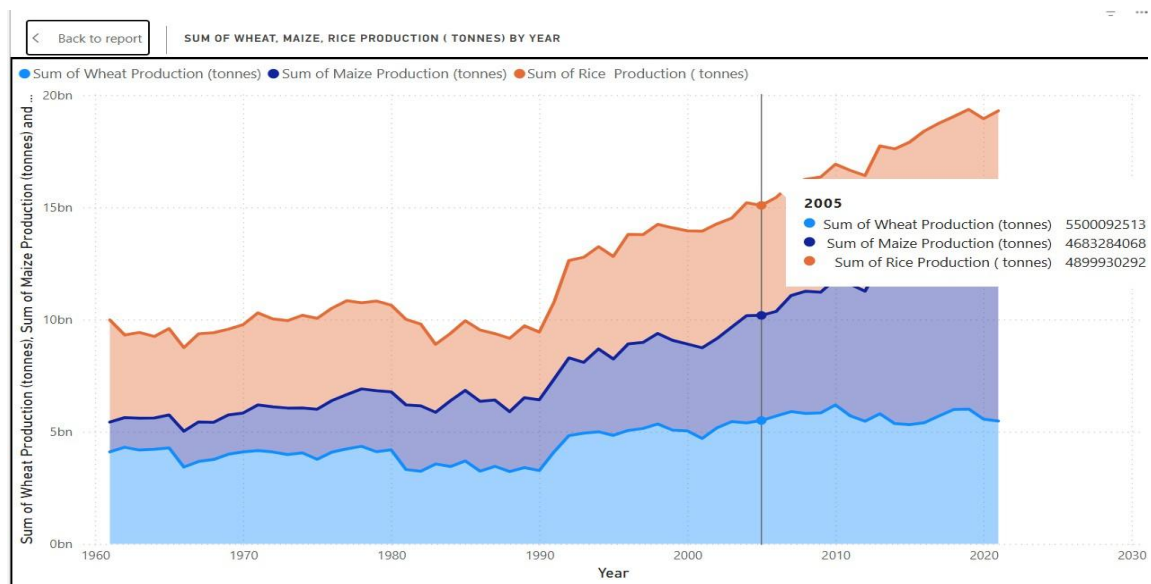
4. Which entities contributed the most to green coffee production?

- Visualization: Use a Bar Chart to compare green coffee production across major entities such as Africa, Asia, and America.



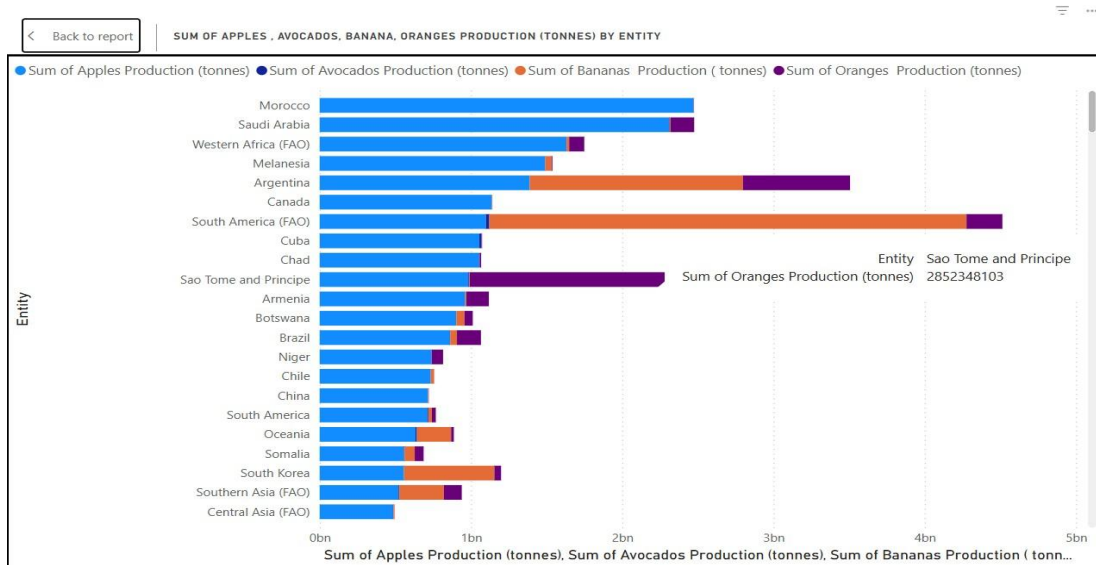
5. How have wheat, maize, and rice production changed over the years?

- Visualization: Use an Area Chart to depict production trends for wheat, maize, and rice from 1961 to 2023.



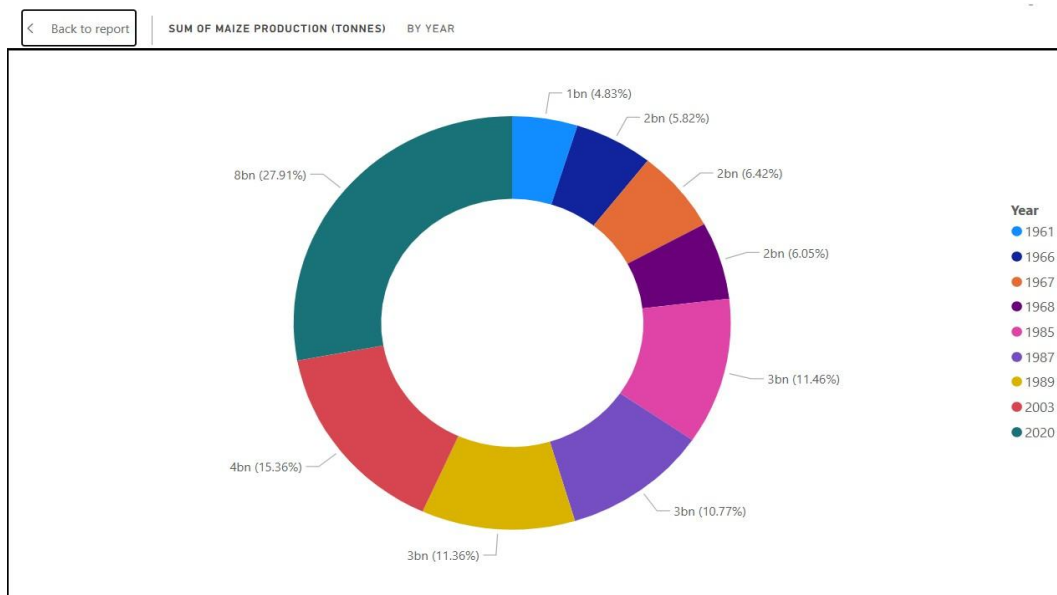
6. Which regions produced the most apples, avocados, bananas, and oranges?

- Visualization: Use a Stacked Bar Chart to compare fruit production by region across different from its categories



7. What is the annual trend in maize production over the years?

- Visualization: Use a Donut Chart to illustrate the yearly distribution pattern of maize production over the years.



8. Which fruits had the highest total production globally?

- Visualization: Use a Bar Chart to compare the global production volumes of grapes, apples, bananas, and oranges.

