

Business Question and Visualization Report

Date	05 OCTOBER 2025
Team ID	SWUID20250213607
Project Name	Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023 Using Power BI
Maximum Marks	5 Marks

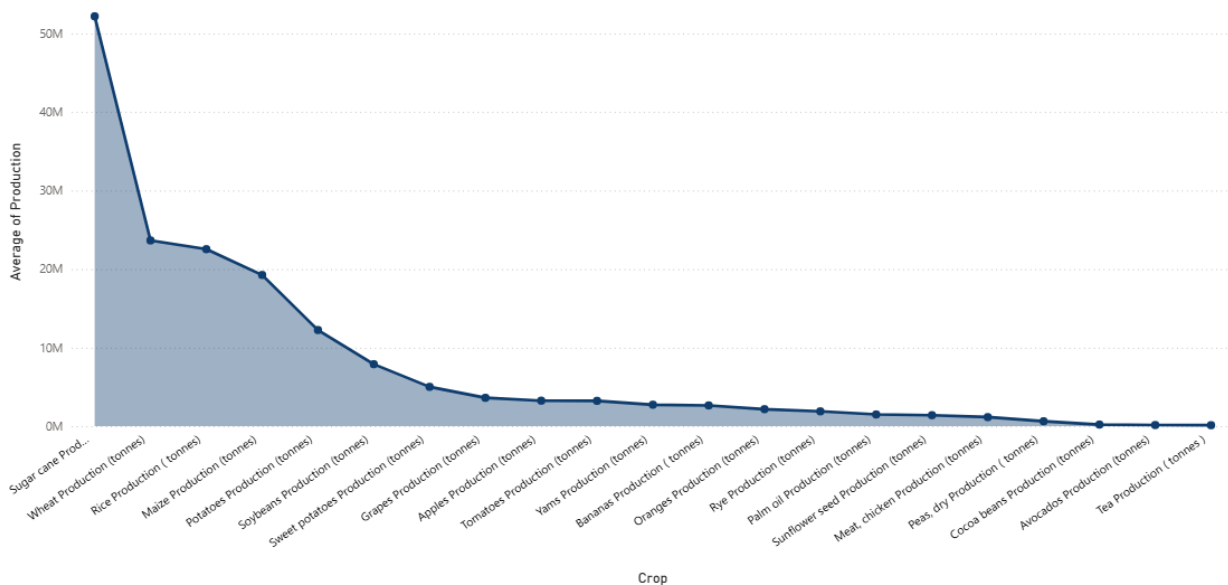
Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. The goal is to transform complex datasets into visual formats that are easy to interpret, enabling users to gain insights and make informed decisions. 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 Visualisation

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 visualisation that provide insights.

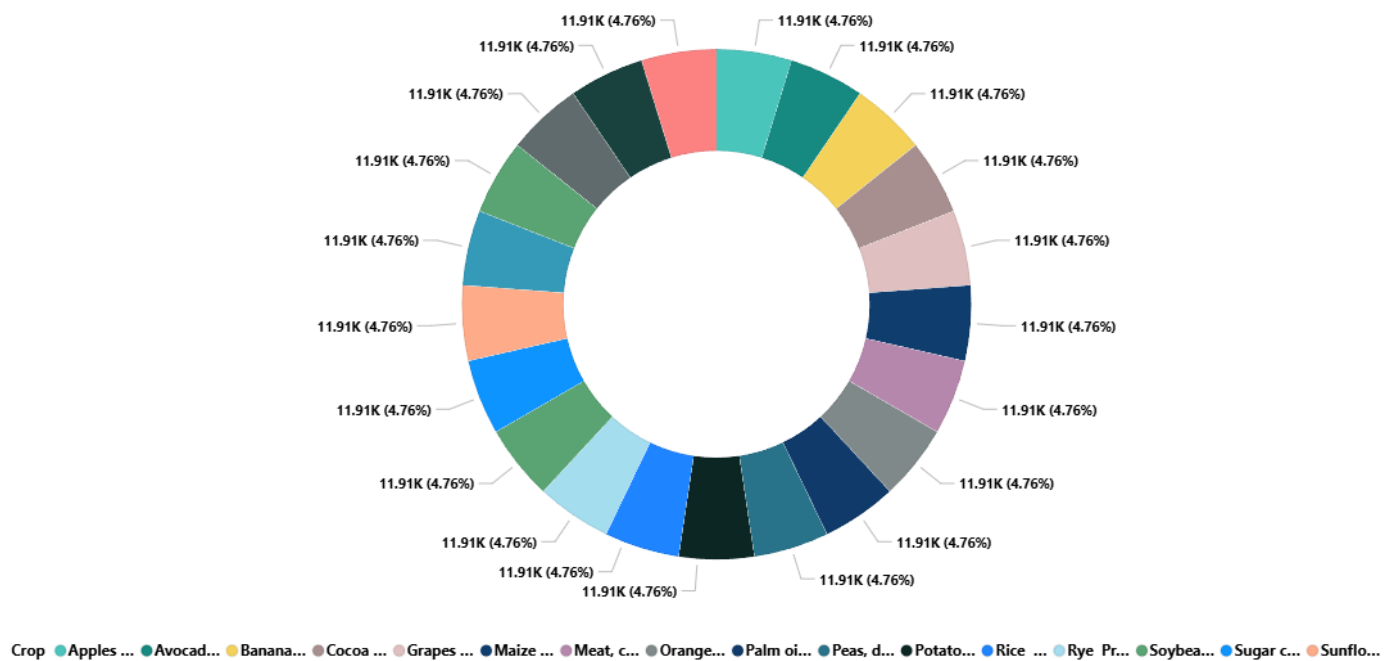
1. Which crops show the highest average production over time?

Visualization: Line/area chart of average production by crop.



2. What is the distribution of crop entities globally?

Visualization: Donut chart showing count of entities for each crop.



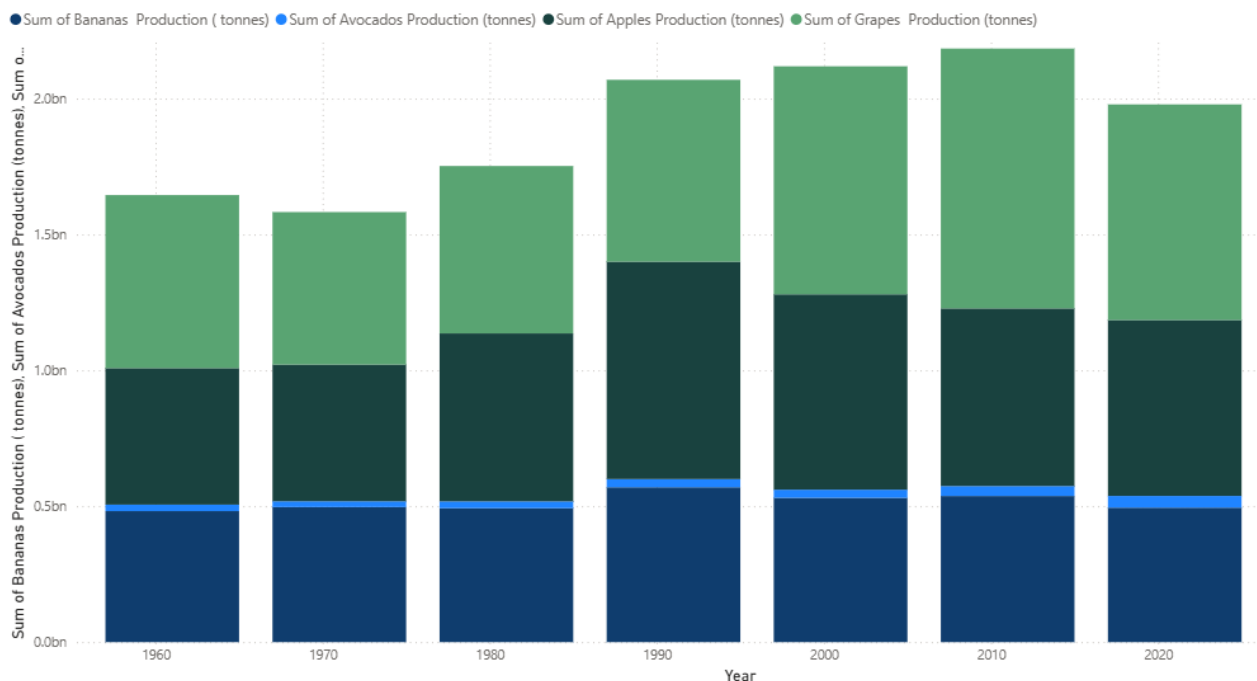
3. Where are major crops produced geographically?

Visualization: Map visualizing entity and crop locations across the world.



4. How have the production volumes of bananas, avocados, apples, and grapes changed over decades?

Visualization: Stacked bar chart displaying crop production by year



5. What is the average global production of crops?

Visualization: Card displaying the average production value.

Average Production

7.98M

Average of Production

6. What is the total maize production globally?

Visualization: Tree map showing sum of production by entity and region.

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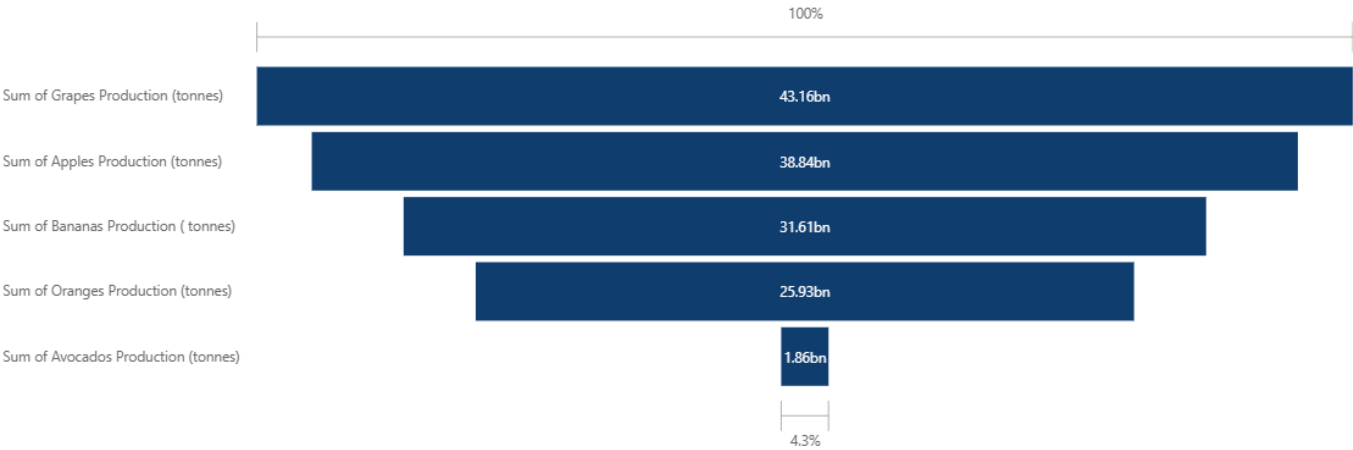
Sum of Maize Production (tonnes)

7. How does crop production vary by entity and region?
Visualization: Tree map showing sum of production by entity and region.



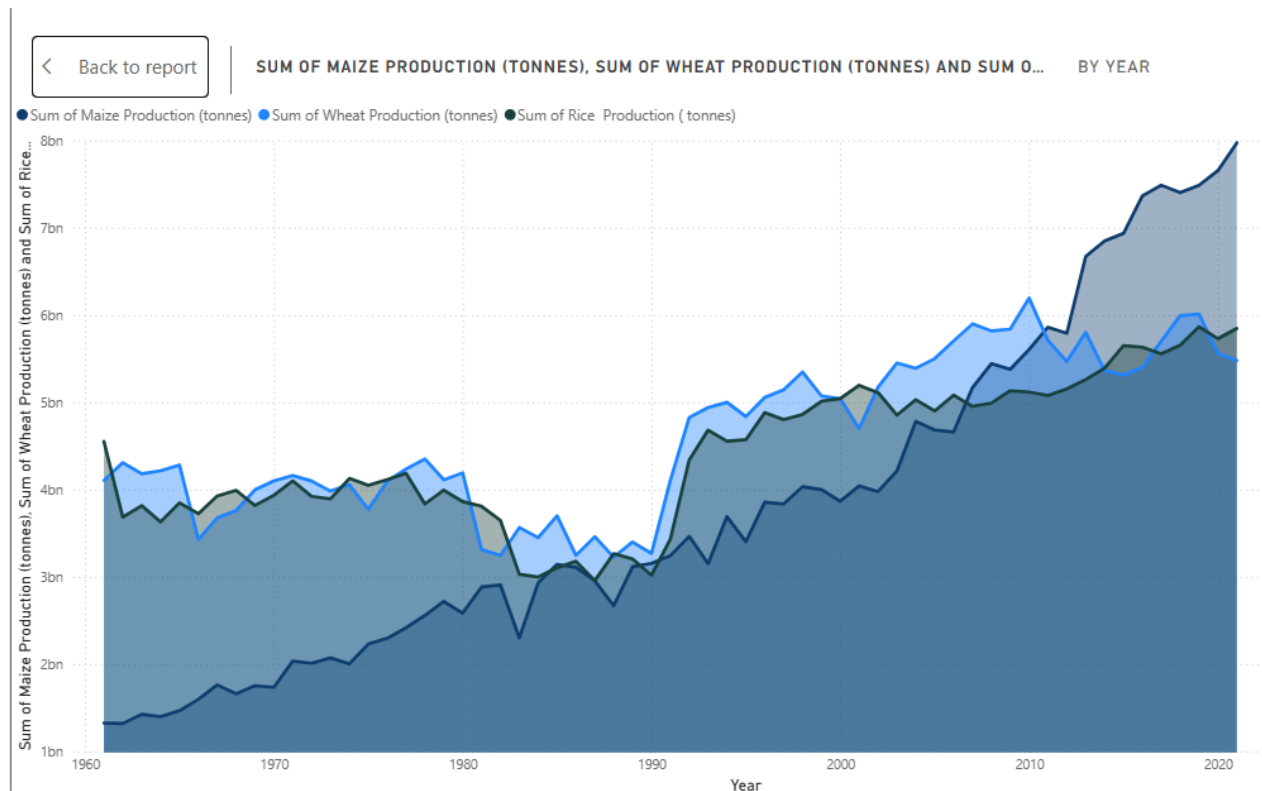
8. What are the production volumes of grapes, apples, bananas, oranges, and avocados?
Visualization: Horizontal bar chart comparing production in tonnes for these crops.

[Back to report](#) | SUM OF GRAPES PRODUCTION (TONNES), SUM OF APPLES PRODUCTION (TONNES), SUM OF...



9. How do maize, wheat, and rice productions trend over the years?

Visualization: Line/area chart displaying annual production of maize, wheat, and rice.



10. Which entities lead in soybean and meat production?

Visualization: Horizontal bar chart showing sum of soybeans and meat production by entity.

