Power BI Report: Global Food Production Analysis (1961–2023)

Objective:

To analyze the global trends in food production across various categories such as rice, wheat, maize, coffee, tea, and fruits from **1961 to 2023**, categorized by country (entity) and year.

Dataset Description:

Columns in the dataset:

Column Name	Description
Entity	Country or region where food production is recorded
Code	Unique identifier for each entity
Year	Year of record (from 1961 to 2023)
Apples_Production (tonnes)	Annual apple production
Avocados_Production (tonnes)	Annual avocado production
Bananas_Production (tonnes)	Annual banana production
Coffee_green_Production (tonnes)	Annual green coffee production
Grapes_Production (tonnes)	Annual grape production
Maize_Production (tonnes)	Annual maize production
Oranges_Production (tonnes)	Annual orange production
Rice_Production (tonnes)	Annual rice production
Tea_Production (tonnes)	Annual tea production
Wheat_Production (tonnes)	Annual wheat production

Key Visuals and Insights:

(1) Dashboard 1: Summary View (1961–2023)

- 269bn tonnes Total rice production globally
- 282bn tonnes Total wheat production globally
- 2bn tonnes Total tea production globally
- Top coffee producers: Africa, followed by America and Asia

- Line chart: Shows wheat, maize, and rice production trends steadily increasing over time.
- Donut chart: Distribution of maize production across years.

Dashboard 2: Fruit Production Comparison

• Grapes: 43bn tonnes – highest among fruits

Apples: 39bn tonnesBananas: 32bn tonnesOranges: 26bn tonnes

Additional Visuals:

- Bar charts comparing food categories across countries/entities
- Time series showing growth patterns in food production
- KPI cards highlighting total quantities

Report Summary:

- Wheat, maize, and rice have shown a steady growth trend over the decades, with wheat showing the highest increase.
- Africa, America, and Asia lead in green coffee production
- Fruits like apples, bananas, oranges, and grapes are produced widely, with top outputs from Europe and Asia.
- Maize production shows consistent growth with notable jumps in the late 1980s and early 2000s.
- Tea production remains comparatively smaller (2bn tonnes), though steady.

Tools Used:

- Power BI Desktop
- Data modeling using CSV format
- Visualizations: Bar charts, Line charts, Donut charts, Cards, Gauge

Suggested Improvements:

- Add slicers for year and region filtering
- Include forecast visuals for next decade
- Integrate population or consumption per capita for deeper insight

Final Output



