Exploring Tea Production and Nutritional Context through Data Analysis

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Contents

Card ID

Primary Dataset	FAO Tea Production Dataset
Description	Contains yearly country-level tea production quantities reported to the Food and Agriculture Organization (FAO), which shows global tea production trends over decades
Secondary Dataset	Daily Food & Nutrition Dataset
Description	Dataset contains daily dietary intake records, and this includes nutritional values for foods and drinks such as tea

Add more rows to the above table for each additional supplemental dataset.

Datasets at a glance

FAO Tea Production Dataset

Dataset contains yearly tea production quantities reported by countries to the Food and Agriculture Organization (FAO) of the United Nations.

Fields (if applicable)

Field name	Data Type	Description
Country	Categorical (String)	Short description, value range, and example values
Year	Numerical (Integer)	Year reported
Production_Quantity	Numerical (Decimal)	Tea production quantity (typically measured in metric tonnes)

Daily Food & Nutritional Dataset

The supplemental dataset contains generated daily dietary records representing food and drink consumption, including nutritional values for tea and other drinks as well. The dataset does not correspond to real individuals and is mainly used for analysis.

Field name	Data Type	Description
Food_Item	Categorical (String)	Short description, value range, and example values
Category	Categorical (String)	Food category
Calories	Numerical (Float)	Energy content per serving
Protein	Numerical (Float)	Protein content per serving
Sugar	Numerical (Float)	Sugar content per serving
Meal_Type	Categorical (String)	Meal context

Additional notes

- This dataset does not differentiate between tea subtypes

Usage information

Use(s)

- Analyzing global trends in tea production
- Comparing tea production across regions
- Giving context for tea as a drink

Licensing

- FAO Tea Production Dataset: FAO Open Data License (free to use with attribution)
- Daily Food & Nutrition Dataset: Kaggle Dataset License (non-commercial, attribution required)

Privacy considerations

- The FAO dataset contains no personal or biased data, pretty much only statistics and numbers
- The nutrition dataset also contains no personal data or PII

Format

The primary dataset is in a [**CSV file** | JSON file | …].
The supplemental dataset is in a [**CSV file** | JSON file | …].].

Source and collection process

Origin

- The FAO Tea Production dataset is from the FAO database
- The nutrition dataset was generated using publicly available food references

Original datasets author/publisher

- FAO Tea Production: Food and Agriculture Organization of the United Nations
- Nutrition Dataset: Kaggle Contributor

Original datasets point of contact

- FAO Statistics Division
- Kaggle dataset discussion page

- FAO metadata available via FAOSTAT documentation
- Dataset description available on Kaggle dataset page

Collection process

FAO: National agricultural reporting -> FAO standardization
Nutrition dataset: Simulation based on typical nutrition ranges

Collection or access date

FAO dataset downloaded: 1/29
Nutrition dataset downloaded: 1/29

Refresh date/schedule

FAO dataset: Updated yearly
Nutrition dataset: One-time synthetic release (no refresh schedule)

Exploration

Questions driving the exploration study

1) What countries have been the leading producers of tea over the period of time?
2) How has tea production changed over time across different regions?
3) How does tea compare nutritionally to other low-calorie drinks?
4) How does the distribution of tea production differ across countries with different economic situations?
5) What is the nutritional profile of tea (overall)?
6) Is tea production correlated or linked to population or land size in a region?
7) What tea types are grown the most?
8) What problems might happen when combining tea production data with nutrition data?

Section

Add more sections if needed.