



Food and Agriculture Organization
of the United Nations

>> FAO Statistics Division

The FAO use of HCES for computing food and nutrient statistics

Ana Molledo (ana.molledo@fao.org)

Food Security and Nutrition Statistics team

UN-CEAG Task Team meeting on "Food consumption statistics from household consumption and expenditure surveys (HCES)

Rome 14th October 2022



Background

Despite the existence of several initiatives for improving access to, and use of, dietary statistics, there is still a great need for more high quality, timely and granular food and nutrition statistics

There is also a need to improve:

- data harmonization (before and after data collection) within a given data type
- harmonization of definitions and processing techniques across different data types
- the use, interpretation, and communication for effective policies and programs

FAO Food and Diet (F&D) domain

To address the gaps, the FAO is working on a Food and Diet domain to be published on its corporate database FAOSTAT.

The domain will publish food and nutrient statistics from:

- Supply Utilization Accounts
- Household Consumption and Expenditure Surveys
- Individual quantitative dietary data

And the Minimum Dietary Diversity for Women indicator (MDD-W)

FAO Food and Diet (F&D) domain

- Within each data type, the statistics are harmonized based on standard procedures after data collection.
- Across data types, the harmonization of the statistics includes the definition and selection of nutrients, and the use of a nutrition-sensitive food group classification
- The domain include capacity development activities on the use, interpretation, and communication of the statistics from the different data types for effective policies and programs

**Food and nutrient consumption statistics
from
Household Consumption and Expenditure
Surveys
within the F&D domain**

HCES component within the F&D domain

Main data sources are:

- LSMS microdata available at the World Bank Microdata Library,
- Regional institutions like the Pacific Community, and
- Microdata from National Statistical Offices (official websites or obtained under specific agreements)

HCES component within the F&D domain

The HCES component covers countries from different regions, starting with:

- 4 countries from Latin America and the Caribbean,
- 12 countries from Africa
- 5 countries from Asia, and
- 4 countries from the Pacific

Main steps on data harmonization within HCES data type

Step 1. Create a well documented survey-specific nutrient conversion table based on national/regional food composition tables and on INFOODS food matching guidelines.

Step 2. Process the HCES data to prepare the food consumption/acquisition data, household and individual characteristics data

Step 3. Detect and impute food quantity and monetary values outliers

Step 4. Produce food and nutrient statistics using standardized scripts

Template of the HCES component

Household Consumption and Expenditure Survey data

[↶ Back to domains](#)

[DOWNLOAD DATA](#) [VISUALIZE DATA](#) [METADATA](#)

SURVEY

🔍 Filter results e.g. afghanistan-2020

- Pakistan-2014
- Pakistan-2019
- Peru-2019
- Samoa-2018
- Senegal-2019
- Solomon Islands-2013
- Tonga-2016

Select All
Clear All

INDICATOR

🔍 Filter results e.g. apparent calcium consumption

- Apparent dietary energy consumption
- Apparent dietary fiber consumption
- Apparent fat consumption
- Apparent iron consumption
- Apparent magnesium consumption
- Apparent phosphorus consumption

Select All
Clear All

ITEMS

🔍 Filter results e.g. all food groups (gift)

- All food groups (GIFT)
- Cereals and their products (GIFT)
- Roots, tubers, plantains and their products (GIFT)
- Pulses, seeds and nuts and their products (GIFT)
- Milk and milk products (GIFT)
- Eggs and their products (GIFT)

Select All
Clear All

ELEMENTS

🔍 Filter results e.g. value

- Value
- Confidence interval

Select All
Clear All

Household Consumption and Expenditure Survey data

The food and nutrient apparent consumption statistics were computed by the FAO Food Security Statistics Team from Household Consumption and... [Show More](#)

Food and Agriculture Organization of the United Nations (FAO)

Bulk Downloads

[All Data Normalized](#) 4.11 MB

Last Update
June 23, 2022

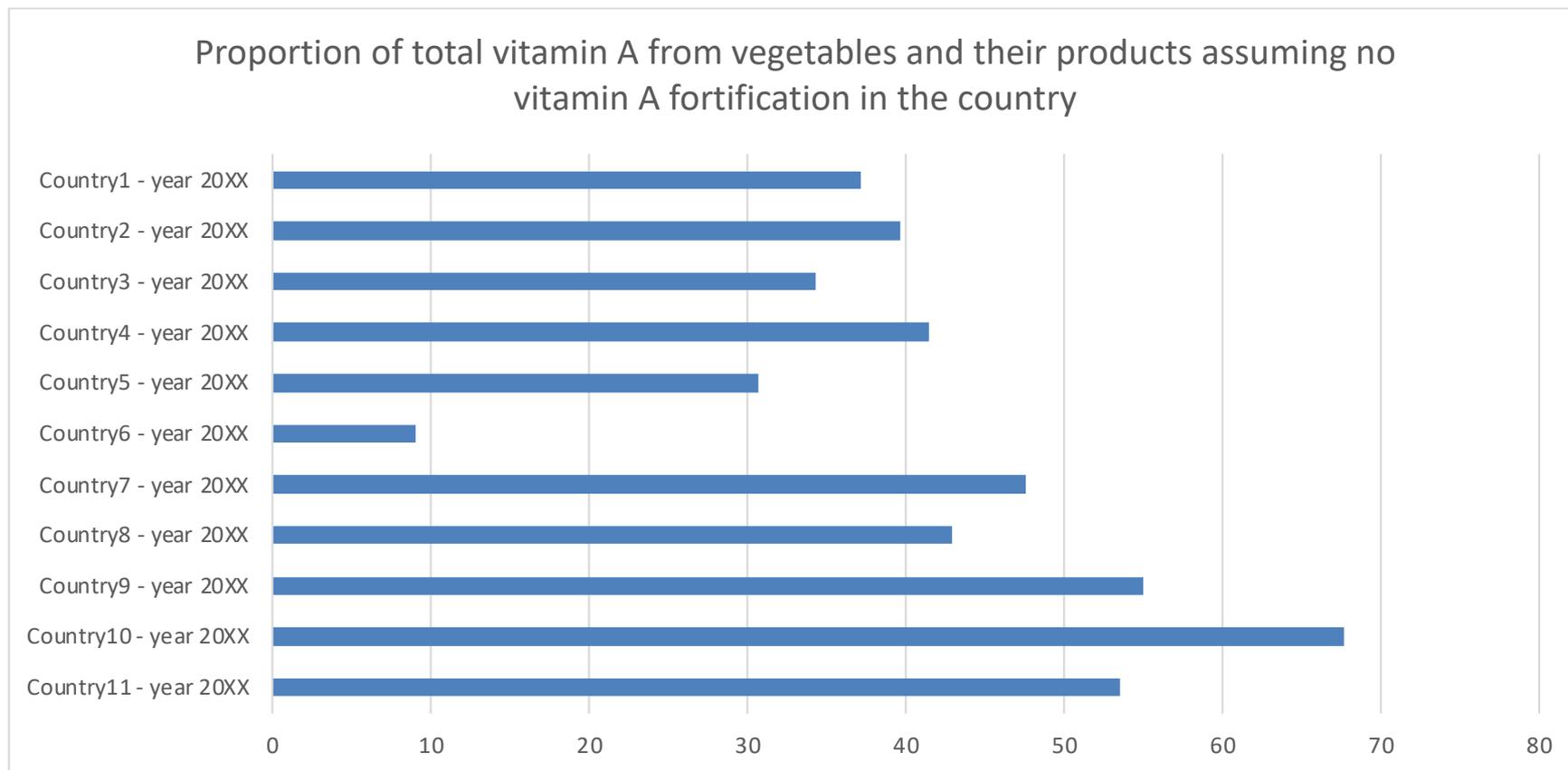
Related Documents

- [Update history internal](#)
- [Metadata](#)
- [Technical notes](#)

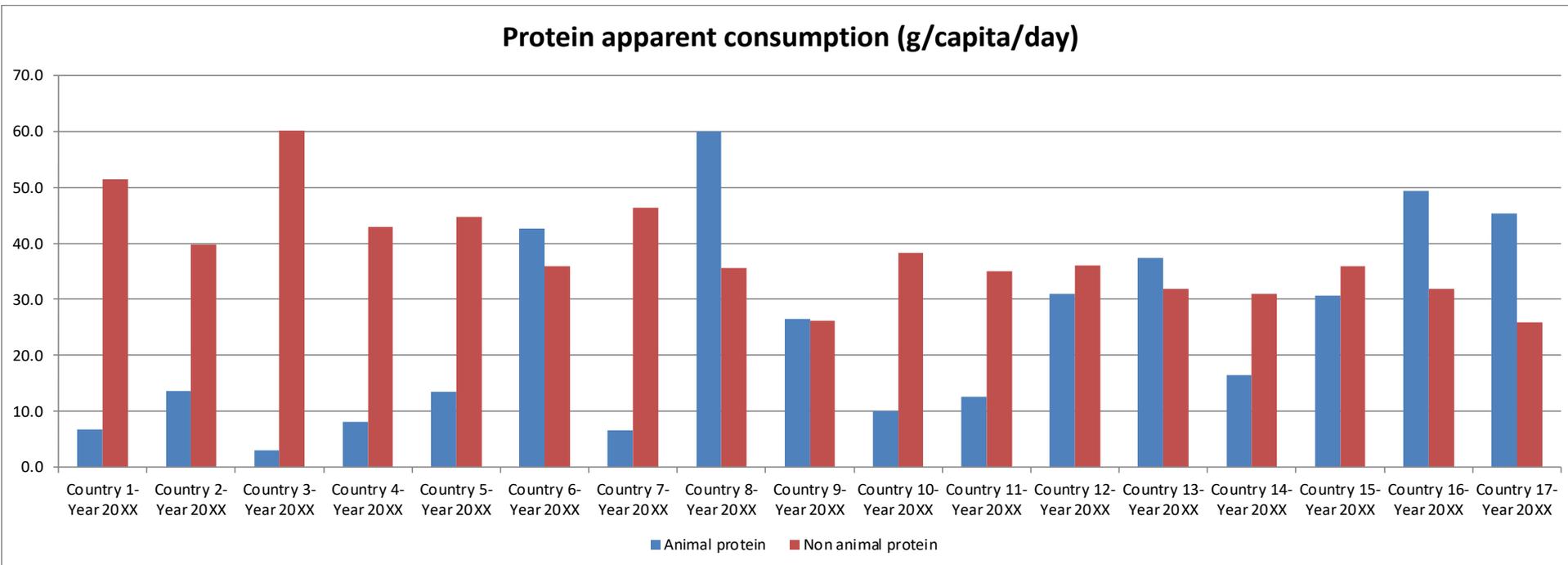
Definitions and standa...

Metadata

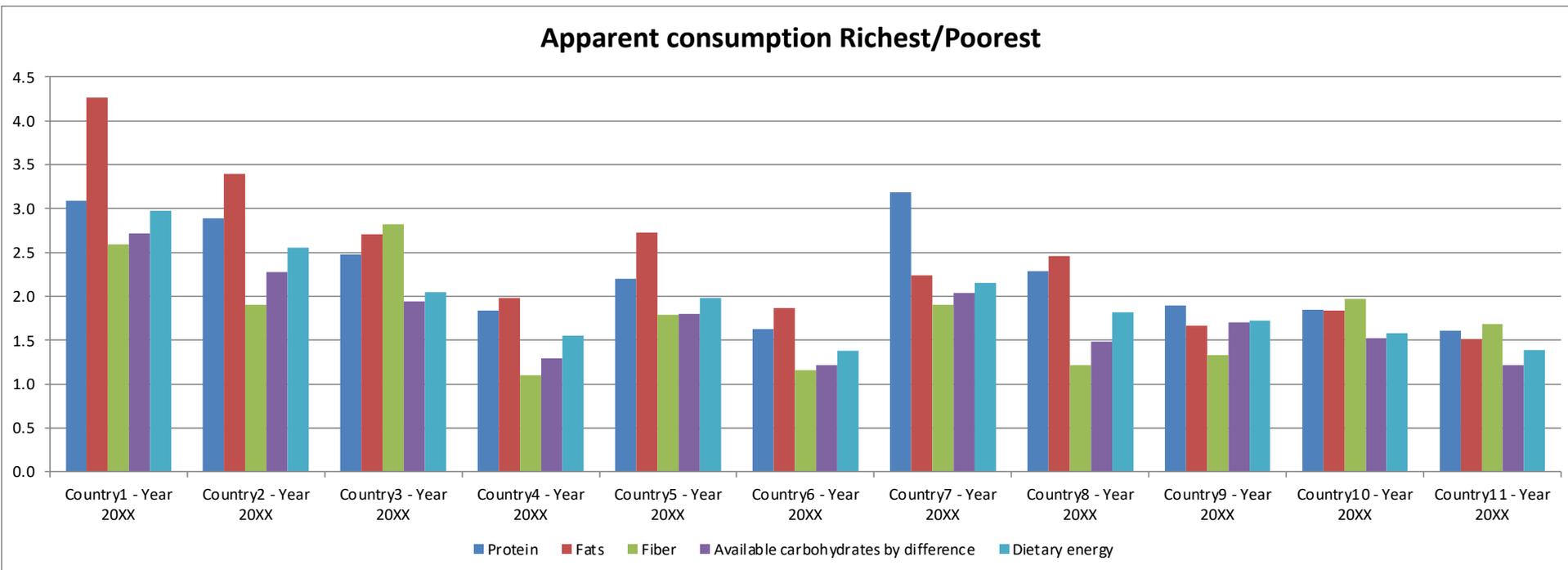
Example of analysis 1



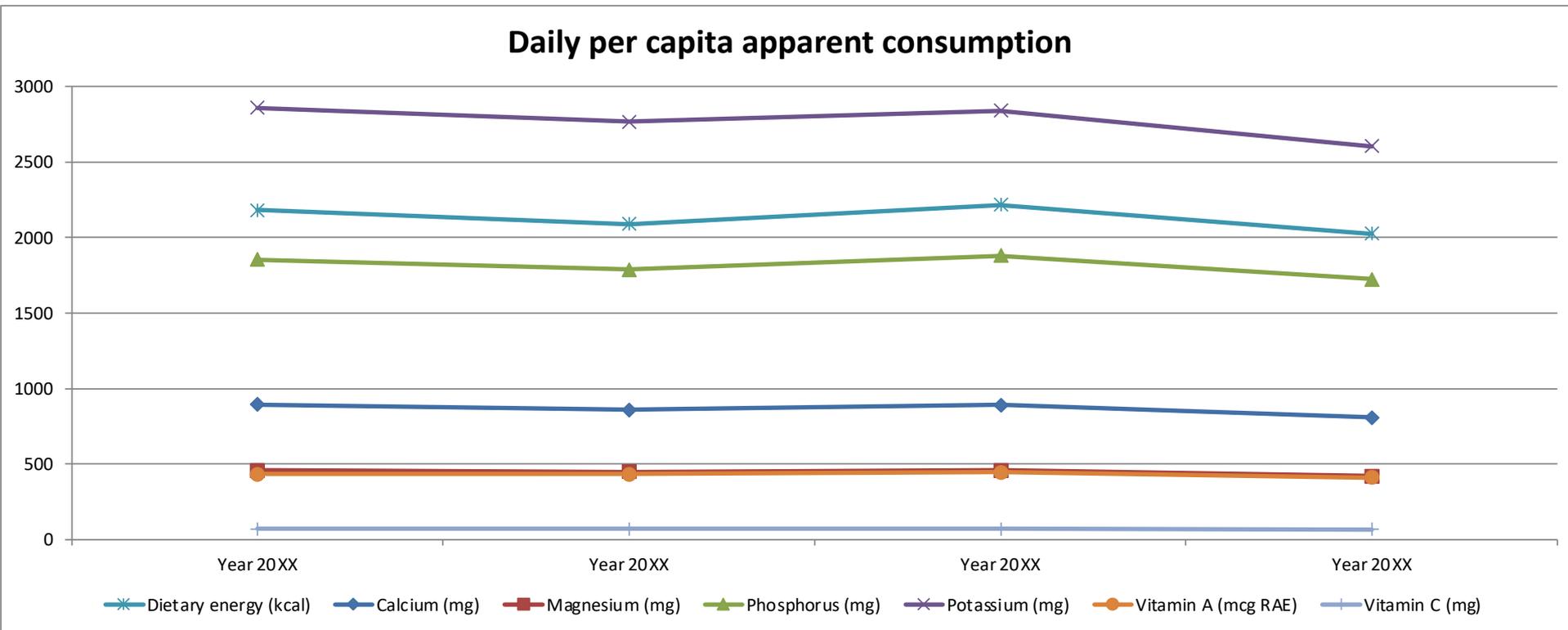
Example of analysis 2



Example of analysis 3



Example of analysis 4, when the survey design is standardized across the years



Thank you