## ASIA AND PACIFIC COMMISSION ON AGRICULTURAL STATISTICS

**TWENTY-SEVENTH SESSION**

Nadi, Fiji, 19 – 23 March 2018

Agenda Item 7.3a

**PHILIPPINES: FOOD BALANCE SHEETS**

Contributed by: Philippine Statistics Authority
OUTLINE OF PRESENTATION

1. BACKGROUND/ACTIVITIES

2. DATA COMPILATION ISSUES AND CHALLENGES

3. FBS OUTPUTS

4. WAY FORWARD
BACKGROUND

SUA of Selected Agricultural Commodities
- 82 agricultural commodities
- Bureau of Agricultural Statistics (BAS)
- Philippine Statistics Authority (2013-present).

SUA/FBS of FAO
- 760 commodities
- Excel Program
- 2009-2016 SUA/FBS
2014-2016 SUA of the Philippines

From 2014 to 2016, rice production averaged 11.9 million metric tons. It declined by an average rate of 3.60 percent yearly. From 12.4 million metric tons in 2014, it went down to 11.9 million metric tons in 2015 and further dropped to 11.5 million metric tons in 2016. Total supply decreased by an average of 0.86 percent per year. It was highest at 16.0 million metric tons in 2015 and lowest at 15.3 million metric tons in 2016.

Rice imports, which shared an average of 6.75 percent in the total supply, fluctuated during the three-year period. From 1.1 million metric tons in 2014, it rose to 1.5 million metric tons in 2015 but declined to 0.6 million metric tons in 2016. Exports averaged 1 thousand metric ton during the reference period.

The total net food disposable posted a decreasing trend from 11.4 million metric tons in 2014 to 11.1 million metric tons in 2016. It averaged 11.3 million metric tons. Likewise, the per capita net food disposable recorded continuous reduction from 114.35 kilograms in 2014 to 107.94 kilograms in 2016. On the average, the annual per capita net food disposable was estimated at 111.27 kilograms.
To attain the project’s objective of “enhancing the analytical skills of the countries to produce quality and timely food security and nutrition information for the assessment and monitoring progress toward achieving national policy objectives as well as international commitments and goals
First Regional Training/Workshop on Supply Utilization Accounts/Food Balance Sheets (SUA/FBS), March 3-7, 2014, Pattaya, Thailand

Objective

To train national experts in the preparation of the Supply Utilization Accounts for the compilation of country’s yearly Food Balance Sheets.

Output

Two (2) national experts were capacitated in the SUA/FBS systems developed by FAO.
Objective
To equip the participants in analyzing available food and agriculture data and using standardized methodologies and tools to produce quality and timely food security and nutrition statistics for sound decision making.

Output
Prepared FBS FAO-based system covering the period 2009 to 2012.
Second National Training/Workshop on Supply Utilization Accounts/Food Balance Sheets (SUA/FBS), March 16-20, 2015, Philippines.

Objective
To provide training on the concepts and definitions of SUA/FBS and their compilation procedures to learn and understand the current SUA and FBS system based on the recommendations of the FAO.

Output
Updated SUA/FBS using the FAO-based system for the years 2009 to 2013.

Objective
To train participants in testing the integrity and reliability of food and nutrition data that have been updated, revised and compiled into the SUA for 2009-2013.

Output
Updated and revised SUA/FBS for 2009-2013 based on the comments and statistical discrepancy checks for Nepal, Lao PDR and Philippines.
Objective
To validate the specific commodities/items included in the SUA/FBS.
To discuss and resolve issues in the compilation of the preliminary 2009-2013 Food Balance Sheet.

Output
Validated the SUA/FBS list of commodities for crops, livestock, poultry and fisheries vis-à-vis trade commodities.
Regional Training Workshop on Food Security Statistics, September 21 to 23, 2015, Bangkok, Thailand.

Objective

To compile, verify and validate country Supply and Utilization Accounts (SUA) and generate Food Balance Sheets (FBS).

Output

Validated SUA/FBS
Regional Training Course of Supply Utilization Accounts/ 
Food Balance Sheet Methodology and Compilation Tool, 
November 20-24, 2017, South Korea

Objective

To provide developing countries with the methodological framework and tools to compile high quality Food Balance Sheets.

Output

Updated and revised SUA/FBS for 2014 to 2016 based on the suggestions/learnings from the training.
ISSUES AND CHALLENGES IN DATA COMPILATION

- Some local commodities do not fall on the same category with the FAO list.
- Data gaps
  - No data on production for the processed commodities and some commodities in raw forms
  - With production but no corresponding parameters for utilization
- FAO data grouping on fisheries (demersal, pelagic, marine, freshwater, crustacean, mollusks, cephalopods, aquatic) while Philippine data by species
ISSUES AND CHALLENGES IN DATA COMPILATION

- Matching of commodity items and trade data.
- Outdated technical conversion ratios and parameters.
- The nutrient factors of some commodities are disaggregated by parts.
- For further review of commodities under Not Elsewhere Specified.
- Institutionalization of the new SUA/FBS Methodology and Compilation Tool
I. FOOD BALANCE SHEET (FBS)

The Food Balance Sheet (FBS) presents a comprehensive picture of the pattern of a country's food supply during a specified reference period. It shows for each food item (primary and processed) the quantity available for human consumption. FBS is also useful for analyzing the country's overall diet and estimates the country's overall Dietary Energy Supply (DES) and micronutrient availability like fats and proteins. DES series assesses whether sufficient food is available nationally. Other indicators derived from FBS data include the self-sufficiency ratio, which compares the magnitude of a country's agricultural production to its domestic utilization and the import dependency ratio, which compares the magnitude of a country's imports to its domestic utilization.

The Philippines is one of the beneficiaries and key partners in the Food and Agriculture Organization (FAO) Regional Project (TCP/RAS/3469), “Building Statistical Capacity for Quality Food Security and Nutrition Information in Support of Better-Informed Policies.” Thru this project, the Philippines participated in the series of capacity building on the compilation of FBS. FAO provided an accelerated compendium in processing the FBS tables. This project generated preliminary estimates which served as benchmark data for the compilation of the 2014-2016 Philippine Food Balance Sheet (PhilFBS).

II. FOOD SUPPLY SITUATION IN THE PHILIPPINES

Table 1. Per Capita Supply of Food, Calories, Proteins and Fats, Philippines, 2014-2016

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## 2014-2016 Supply Utilization Accounts/ Food Balance Sheet (SUA/FBS)

### PER CAPITA SUPPLY

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<tr>
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### Notes
- Data includes Grand total, vegetable products, animal products, cereals (excluding beer), starchy roots, sugar crops, sugar & sweeteners, pulses, treenuts, oilcrops, vegetable oils, vegetables, fruits, stimulants, spices, alcoholic beverages, meat, offals, animal fats, milk (excluding butter), eggs, fish & sea food, and miscellaneous products.
- The table provides data on grams, kg, calories, grams, and k/cal per capita for each category.
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<td>100.00</td>
<td>100.00</td>
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<td>0.02</td>
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Per Capita Supply of Food

Commodity Groups

- Cereals (excl. beer): 163.32 kg
- Starchy roots: 15.25 kg
- Sugar crops: 2.17 kg
- Sugar & Sweeteners: 28.79 kg
- Pulses: 1.14 kg
- Treenuts: 0.38 kg
- Oilcrops: 56.56 kg
- Vegetable oils: 2.59 kg
- Vegetables: 26.84 kg
- Fruits: 113.44 kg
- Stimulants: 5.66 kg
- Spices: 0.49 kg
- Alcoholic beverages: 15.14 kg
- Meat: 34.07 kg
- Offals: 5.55 kg
- Animal fats: 3.46 kg
- Milk (excluding butter): 32.92 kg
- Eggs: 4.55 kg
- Fish & sea food: 35.40 kg
- Miscellaneous: 0.19 kg

in kilograms
Per Capita Supply of Calories

- Cereals (excl. beer), 1,521.72 (54.13%)
- Sugar & Sweeteners, 271.28 (9.65%)
- Fruits, 195.45 (6.95%)
- Vegetable oils, 62.68 (2.23%)
- Vegetable oils, 30.54 (1.09%)
- Meat, 186.33 (6.63%)
- Alcoholic beverages, 36.35 (1.29%)
- Spices, 1.81 (0.06%)
- Stimulants, 20.47 (0.73%)
- Milk (excluding butter), 31 (1.12%)
- Animal fats, 68.06 (2.42%)
- Offals, 21.77 (0.77%)
- Fish & sea food, 95.86 (3.41%)
- Miscellaneous, 1.95 (0.07%)

in kilocalorie
Per Capita Supply of Protein

Cereals (excl. beer), 32.29 (39.75%)
Fish & seafood, 17.35 (21.36%)
Meat, 16.70 (20.55%)

- Eggs, 1.54 (1.89%)
- Milk (excluding butter), 2.78 (3.42%)
- Animal fats, 0.41 (0.51%)
- Offals, 2.43 (3.00%)
- Alcoholic beverages, 0.09 (0.11%)
- Spices, 0.06 (0.07%)
- Stimulants, 0.43 (0.53%)
- Fruits, 1.92 (2.36%)
- Starchy roots, 0.34 (0.42%)
- Sugar crops, 0.01 (0.01%)
- Sugar & Sweeteners, 0.01 (0.01%)
- Pulses, 0.43 (0.53%)
- Treenuts, 0.08 (0.10%)
- Oilcrops, 3.24 (3.99%)
- Vegetable oils, 0.00%
- Vegetables, 1.10 (1.35%)
Per Capita Supply of Fats

- **Oilcrops**, 16.86 (29.59%)
- **Meat**, 13.19 (23.15%)
- Animal fats, 7.36 (12.93%)
- Vegetable oils, 7.09 (12.45%)
- Vegetables, 0.22 (0.38%)
- Fruits, 1.13 (1.98%)
- Stimulants, 1.27 (2.23%)
- Spices, 0.06 (0.10%)
- Alcoholic beverages, 0.00 (0.00%)
- Treenuts, 0.21 (0.37%)
- Pulses, 0.02 (0.04%)
- Sugar crops, 0.01 (0.02%)
- Sugar & Sweeteners, 0.01 (0.01%)
- Starchy roots, 0.11 (0.19%)
- Cereals (excl. beer), 3.76 (6.61%)
- Miscellaneous, 0.02 (0.03%)
- Fish & sea food, 2.67 (4.69%)
- Eggs, 1.39 (2.44%)
- Milk (excluding butter), 0.47 (0.83%)
- Offals, 1.13 (1.98%)
Import Dependency Ratio and Self-Sufficiency Ratio

<table>
<thead>
<tr>
<th>Year</th>
<th>Import Dependency Ratio</th>
<th>Self Sufficiency Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>15.01</td>
<td>89.34</td>
</tr>
<tr>
<td>2015</td>
<td>19.57</td>
<td>81.71</td>
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<tr>
<td>2016</td>
<td>20.73</td>
<td>78.69</td>
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</tbody>
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Way Forward

- Capacity Building (workshop/training) for SUA/FBS compilers.
- Updating of parameters through field visits and research (desktop and library)
- Regular compilation of Philippine SUA/FBS developed by FAO.
- Refinement of FAO FBS Excel based system
- Advocacy program to promote the usefulness and utility of FBS.
Thank you