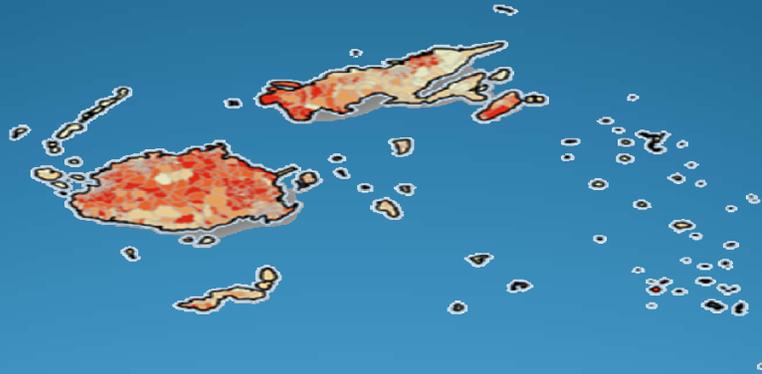


Fiji Bureau of Statistics

Country Report



Regional Training Course on Costs of Agriculture Production Statistics,
Communication and Advocacy for Statistics

26 June – 30 June, 2017, Daejeon, Republic of Korea

Outline



- Overview
- Import and Export of Agriculture Commodities
- Cost of Agricultural Production Statistics – FBoS
- Estimation Method - FBoS
- Weaknesses in Current Methods
- Way Forward

Overview – Republic of Fiji

Location?

- Fiji is in the heart of the Pacific Ocean
- Spread over 700,000 square km of the Pacific Ocean between longitudes 175° and 178° west and latitudes 15° and 22° south.

Population?

- 869,458 (Est.2015)
- 2 major ethnic groups: Fijians (52.6%) and Indians (41%), Others (7%)

Total Area?

- Covers a total area of 194,000 square kilometers of which 10% is land
- Land Area: 18,270km².

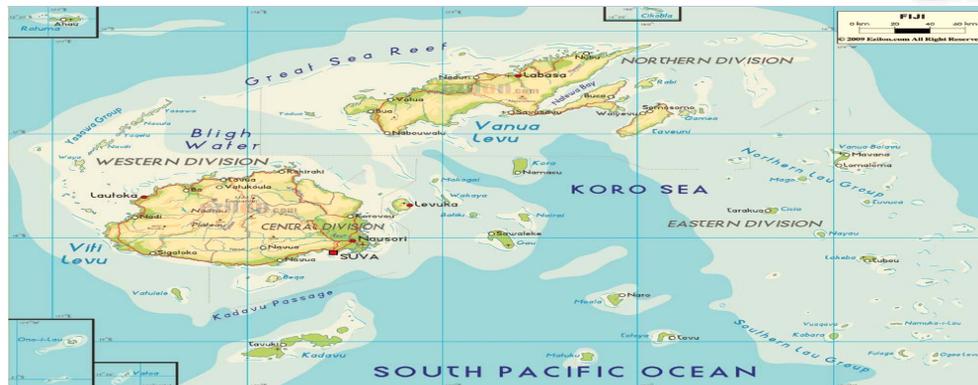
Climate ?

- Wet Seasons – November to April
- Dry Season- May to October
- Annual Rainfall in the dray zone averages around 2000mm, wet zone 3000mm.

Government?

- Parliamentary Republic (General Election –Sept. 2014)

Overview – Republic of Fiji



Country: A country in the South Pacific with an archipelago of more than 300 islands. It's famed for its rugged landscape of blue lagoons and palm-lined beaches, and eco-activities from mountain climbing and surfing to soft-coral diving and zip-lining. Its major islands, Viti Levu and Vanua Levu.

Capital: Suva (4 Divisions, 15 Provinces and 19 Urban Centers / 7 Central Div, 7 Western Div, 4 Northern Div and 1 Eastern Div.)

Currency: Fijian dollar

Continent: Oceania

Official languages: English, Fijian and Fiji Hindi



History of Studies Undertaken

- This report contains the results of the 2014 study on the Agriculture, industries taking place in Fiji together with other relevant information on the industry.
- It was an ad hoc study and now conducted by the Fiji Bureau of Statistics (FBoS) annually because of the need by its National Accountants to re-base the constant price Gross Domestic Product (GDP) for Agriculture Industries.



Statistics Relating to Agriculture

- Agriculture is widely scattered in the country and the economic function they perform in channeling the flow of goods from the producers to the consumers is of great importance.
- These agriculture contribution account for a substantial proportion of the total economic activity pertaining to Agriculture sector, in terms of GDP or in terms of its share of total employment and Gross Fixed Capital Formation(GFCF).
- These Agriculture Statistics are used to construct the input-output table that shows the inter-connection of the Agriculture sector with other industries.
- Policy makers require the data for formulating sound economic and social policies that augment capital formation.

Overview – Agriculture Sector in Fiji



- Agriculture contributed 8.1% to National GDP
- Major sector within Agriculture – Subsistence (2.3%)
- Total Agriculture Land – 2,358 km²
- Total No. Farms – 65,033 (2009 Agriculture-Census)
- 43.9% have farm size of < 1 hac [Communal land]



Major Trading Countries For “Imported” Agricultural Commodities



- Rice – Singapore, Thailand & Vietnam
- Fruits & Vegetables - New Zealand & Australia
- Potato – New Zealand
- Beef – New Zealand, Australia & Vanuatu
- Sheep – New Zealand & Australia
- Dairy Products – NZ & Australia
- Wheat – Australia



Major Trading Countries For “Exported” Agricultural Commodities



- Sugar – Europe & USA
- Taro - New Zealand, Australia, Canada & USA
- Assorted Vegetables - New Zealand & Australia
- Ginger – Australia, New Zealand, US, UK, Netherlands & Canada
- Cassava - New Zealand, Australia, Canada & USA
- Pawpaw - New Zealand & Australia
- Kava - New Zealand, Australia, Europe, & USA



Costs Of Agriculture Production Statistics



Type of Costs	Scope	Source	Frequency	Quality Check
Seeds	Face to Face	Farmers	Annually	Field Visit
Fertilizers	Face to Face	Farmers	Annually	Field Visit
Chemical	Face to Face	Farmers	Annually	Field Visit
Weedicides	Face to Face	Farmers	Annually	Field Visit
Feeds	Face to Face	Farmers	Annually	Field Visit
Fuel, Electricity & Water	Face to Face	Farmers	Annually	Field Visit
Repair and Maintenance	Face to Face	Farmers	Annually	Field Visit
Travel Expenses	Face to Face	Farmers	Annually	Field Visit
Audit, Accounting & Legal Fee	Face to Face	Farmers	Annually	Field Visit
Postage and Telecommunication	Face to Face	Farmers	Annually	Field Visit
Rent Paid for Hire	Face to Face	Farmers	Annually	Field Visit
Rent Paid for Rent	Face to Face	Farmers	Annually	Field Visit
Interest Paid	Face to Face	Farmers	Annually	Field Visit
Business License and Rates	Face to Face	Farmers	Annually	Field Visit
Insurance Paid	Face to Face	Farmers	Annually	Field Visit
Depreciation	Face to Face	Farmers	Annually	Field Visit
Compensation of Employees	Face to Face	Farmers	Annually	Field Visit
Consumption of Fixed Capital	Face to Face	Farmers	Annually	Field Visit



Estimation Methods

- Find the ratio for the total cost of production.

$$\text{Ratio} = \frac{\text{Cost of production of the selected farmers}}{\text{Gross Output of the selected farmers}}$$

- Apply the ratio to the total production data provided by the data source to estimate the total cost of production of all the farmers.



Ratio Calculation

1. IC Ratio = $\frac{\text{Total Farm IC}}{\text{Total Farm GO}}$

3. COE Ratio = $\frac{\text{Total Farm COE}}{\text{Total Farm GO}}$

4. CFC Ratio = $\frac{\text{Total Farm IC}}{\text{Total Farm GO}}$

Macro Component Calculation



1. $GO = \text{Total Production} * \text{Farm Gate Price}$

2. $IC = \frac{GO * \text{IC Ratio}}{100}$

4. $COE = \frac{GO * \text{IC Ratio}}{100}$

5. $CFC = \frac{GO * \text{IC Ratio}}{100}$

Weaknesses in Current Methods



- No updated Farmers list are available.
- Budget Constrain.
- Lack of public awareness.
- Data quality.
- Standardized survey design & methodology.
- Capacity building.



Way Forward

- Media awareness on the importance of data.
- Statistics Act (CAP. 71 Ed.1978) needs to be revised.
- Cost effective.
- Intensive Capacity Building on Statistical Concepts.
- Identification of a standard Enumeration boundary – Locality officers allocated boundary.
- Regularly updated organised and standardised Frame.
- Well co-ordinated and organised statistical reporting system .
- More Collaboration between NSO and MOA.



