

**Improving the
Statistical
Capacity of the
Agriculture
Sector –
Malaysia
Experience**

Prepared For :

**3rd MEETING OF THE COMCEC
AGRICULTURE WORKING GROUP**

PRESENTATION OUTLINE

- Introduction
- Organization of The Agricultural Statistic System
- Main Outputs of the Agricultural Statistics System
- Methodology Used
- Main Agricultural Surveys & Data Sources
- Dissemination/ Accessibility
- Conclusion: SWOT & Need Analysis

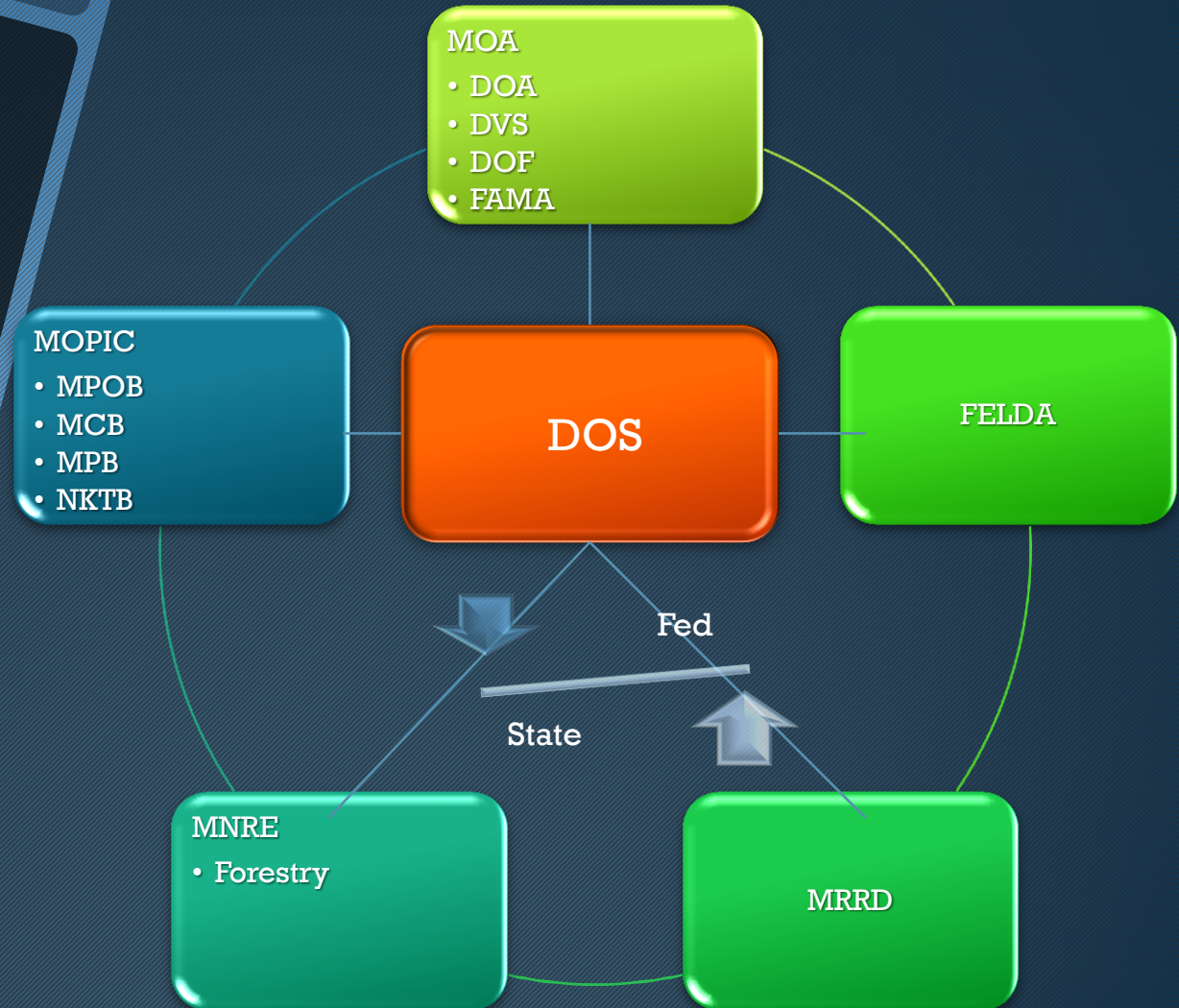


INTRODUCTION

- Population 30 Million
- 329,847 square kilometres
- 13 States and 3 Federal Territories
- Ranked 5th in East Asia and Pacific region by World Bank Statistical Capacity Indicator of 2013

ORGANIZATION OF THE AGRICULTURAL STATISTIC SYSTEM

- ❖ Legal Framework
- ❖ Institutional Set Up
- ❖ Integration and Coordination



MAIN OUTPUTS OF THE AGRICULTURAL STATISTICS SYSTEM

Statistical Domain	Most recent data	Source of Data	Geographical Coverage	Responsible Agency
PRODUCTION STATISTICS				
Crop production	2013	Survey	National	DOA
Harvested area	2013	Survey	National	DOA
Yield per hectare	2013	Administrative	National	DOA
Livestock production	2013	Administrative	National	DVS
Forest products	2013	Administrative	Regional	Forestry Department Peninsular Malaysia Sabah Forestry Department Forests Department Sarawak
Fishery products	2013	Survey	National	DOF
AGRICULTURAL TRADE STATISTICS				
Agri. export value	2013	Administrative	National	DOSM
Agri. import value	2013	Administrative	National	DOSM
AGRICULTURAL PRICE STATISTICS				
Producer prices	2013	Administrative	National	MOA Federal Agricultural Marketing Authority (FAMA)
Agric. input prices	2013	Administrative	National	MOA-DOA
FOOD CONSUMPTION STATISTICS				
Quantity	2013	Administrative	National	DOSM
RESOURCES STATISTICS (INPUT STATISTICS)				
Land use	2010	Administrative	Only for Malaysian Peninsular	DOA
Rural population	2010	Census	District	DOSM
Active population (in agriculture)	2012	Survey	State	DOSM
Labor force (in agriculture)	2012	Survey	State	DOSM
Machinery	2010	Census	National	DOSM
Fertilizers	2012	Administrative	National	DOA
Pesticides	2011	Administrative	National	DOA

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Statistical Domain	Most recent data	Source of Data	Geographical Coverage	Responsible Agency
RURAL SERVICES STATISTICS				
Rural Infrastructure	2010	Survey	State	Ministry of Rural and Regional Development
Rural Employment	2010	Survey	State	Ministry of Rural and Regional Development
Agricultural Credit	2012	Administrative	State	Agrobank_Credit Guarantee Corporation_Small and Medium Enterprises Development Bank Malaysia Bhd. (SME Bank)
OTHER INDICATORS				Latest Year Available
Agricultural GDP				2012
Rural Income				2012
Agricultural terms of trade				2012
Index of Agricultural Producer Prices				2013
Agricultural/Rural income Distribution				2012
Land Distribution				2010

METHODOLOGY

Sampling Framework (usually adopts probability sampling methods)

Data Collection

Commodity Classification

Classification	Version
ISIC (International Standard Industrial Classification)	Version 1 (4 digits)
MSIC (Malaysia Standard Industrial Classification) - National	2008 (Verion 1)
MCPA (Malaysia Classification of Products by Activity) - National	2005, 2009
CPC (Central Product Classification)	CPC 2 (4 digits)
SITC (Standard International Trade Classification)	Version 4 (9 digits)
HS (Harmonized System Classification)	HS 2012 (9 digits)
SNA (System of National Accounting)	SNA2008

MAIN AGRICULTURAL SURVEYS AND DATA SOURCES

- Agricultural Census
- Annual Production Surveys
- Annual Production Censuses
- Surveys of Prices of Agricultural Products
- Other Surveys/Censuses by the DOA, DOSM (Irregular)

Survey	Coverage	Frequency	Publication of Results
Agricultural Land Use	Main Crops	Every 2 years	Peninsular Malaysia /DOA
Crop Cutting (Paddy)	Paddy	Every season (2 season per year)	Peninsular, Sabah & Sarawak/DOA
Crop Production	Fruits and Vegetables	Annually	Peninsular, Sabah & Sarawak/DOA
Livestock Population	Types, breed, sex and age groups	Annually	National /DVS
Meat Production	Livestock by sector	Annually	National/DVS
Fish Landing	National	Monthly	National/DOF
Aquaculture	National	Monthly	National/DOF
Major exporters and importers of natural fiber	Trade	Monthly	National/NKTB
Pepper	Production	Annually	National/MPB

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Census	Coverage	Frequency	Publication of Results
Palm Oil Planted Area	Mature and immature	Monthly	National/MPOB
Palm Oil Production	Crude Palm Oil(CPO), CPKO, Palm Kernel	Monthly	National/MPOB
Palm Oil Yield	Fresh fruit bunch	Monthly	National/MPOB
Palm Oil Stock	Palm oil, palm kernel oil, palm kernel	Monthly	National/MPOB
Palm Oil Export	Palm Oil, Palm Kernel Oil, Palm Kernel Cake, Oleochemicals, Biodiesel, Finished Products	Monthly	National/MPOB
Palm Oil Import	Palm oil and palm kernel oil	Monthly	National/MPOB
Palm Oil Area	Planted area	Annually	State/MPOB
Palm Oil Production	CPO Production	Annually	State/MPOB
Palm Oil Processing Sector	Number and capacity of processing sector	Annually	National/MPOB
Palm Oil Yield	Fresh Fruit Bunches(FFB) and oil yield	Annually	National/MPOB
Palm Oil Export	Volume and value of palm oil products	Annually	National/MPOB
Palm Oil Prices	Palm oil price	Annually	National/MPOB
Cocoa Estates	Area, age profile, usage of inputs, capital expenditure & employment	Annually	National/MCB
Cocoa Smallholder	Area, age profile, usage of inputs, capital expenditure & employment, level of technology used	Every 2 years	National/MCB
Rubber Cost Production-Smallholder	Production	Annually	National/MRB
Rubber Cost Production-Estate	Production	Annually	National/MRB
Labour Survey-Estate	Rubber	Annually	National/MRB
Rubber Estate	Production, consumption, stocks, planted area, tapped area, number of workers	Monthly	National/MRB-DOSM
Rubber Estate	Planted area, production, yield, employment, salaries & wages	Annually	National/DOSM
Agricultural Establishments-Crops	Income, production, stocks, number of persons engaged, salaries & wages, fixed assets	Annually	National/DOSM
Agricultural Establishments-Livestock	Income, production, stocks, number of persons engaged, salaries & wages,	Annually	National/DOSM
Agricultural Establishments-Fisheries	Income, production, stocks, number of persons engaged, salaries & wages,	Annually	National/DOSM

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Survey	Coverage	Frequency	Publication of Results
Producer Prices (Ex-Farm)	Selected crops and livestock commodities	Weekly	National/ Federal Agricultural Marketing Authority (FAMA)
Wholesale Prices	Selected crops and livestock commodities	Weekly	National/ FAMA
Retail Prices	Selected crops and livestock commodities	Weekly	National/ FAMA
Wholesale and Retail Prices	Selected fisheries	Weekly	National/ Fisheries Development Authority (LKIM)
Price Information	All palm oil products (except biodiesel)	Daily/Monthly/Yearly	National/MPOB

MAIN AGRICULTURAL SURVEYS AND DATA SOURCES

➤ Agricultural Census

➤ Annual Production Surveys

➤ Annual Production Censuses

➤ Surveys of Prices of Agricultural Products

➤ Other Surveys/Censuses by the DOA, DOSM (Irregular)

- Paddy Production Survey carried in 2009 (DOA)
- Good Agriculture Practices for Paddy Cultivation Survey in 2009 (DOA)
- Fishermen Socio-Economic and Household Data in 2007 (DOSM)
- Post-Harvest Losses for Paddy Survey in 2007 (Malaysia Agricultural Research and Development Institute and Lembaga Pertubuhana Peladang)
- Livestock Main Survey was conducted in 2010 (DVS)
- Aquaculture Practices Survey in 2005 (DOF)
- Wild Honey Bees Survey in 2007 (MNRE)
- Elephants Survey in 2008 (MNRE)
- Wild Ornamental Plants Survey in 2011 (MNRE)
- Pepper Production Survey in 2010 (MOPIC)
- Tobacco Production Survey in 2009 (MOPIC)
- Cocoa Yield Survey in 2011 (MOPIC)
- Palm Oil Production Cost Survey in 2011 (MOPIC)
- Rubber Production Cost Survey in 2009 (MOPIC)
- Cocoa Production Cost Survey in 2011 (MOPIC)
- Economic Census-Agriculture Census in 2011 (DOSM)

DISSEMINATION/ ACCESSIBILITY

- Hardcopy
- Websites-limited functionalities and online database capabilities
- MOA produces yearly publications of statistics-planted area, harvested area, yield, production of crops, livestock production, fisheries production and the number of fisherman and culturists, and publishes through its website.
- FAMA disseminates the agricultural prices at the ex-farm, wholesale and retail levels for selected crops and livestock through its website.
- The Agricultural GDP, annual/monthly rubber statistics, SUA, trade, consumer price index on food items, producer price index on agriculture, labour force, agriculture census (crops, livestock, fisheries and agriculture services), economic census (crops, livestock, fisheries and forestry & logging) are disseminated to the public in hardcopy
- Forestry statistics are produced by the Forestry Departments only for Peninsular Malaysia, and the states of Sabah and Sarawak-disseminated upon request

SWOT & NEED ANALYSIS

STRENGTHS

- Existence of legal and institutional infrastructure for statistics
- Use of up to date methodology and classifications
- Traditional domains (Production, International Trade data)
- Physical infrastructure for statistics
- Good English knowledge
- Supply and Utilization Accounts
- Strong commitment of staff

**INFRASTRUCTURE
METHODOLOGY
HUMAN RESOURCE
CAPABILITY**

WEAKNESSES

- Lack of a consolidated database
- Limited electronic dissemination
- Poor methodology design
- Poor communication between agencies
- Limited methods
- Lack of metadata and documentation
- Data kept for internal not external use
- Lack of an objective
- Limited physical infrastructure, (Agro-processing)

**COORDINATION
METHODOLOGY
DESIGN
INTERNAL
DISSEMINATION**

OPPORTUNITIES

- Leadership in the developing world in agricultural statistics especially New Census of Agriculture in 2000
- Adoption of satellite system
- Young and dynamic team
- LISM training centre exits

**LEADERSHIP
NEW CENSUS**

THREATS

- Limited physical infrastructure, (Agro-processing)
- Data and kept for internal use
- Poor coordination

**DECENTRALIZATION
INTERNALIZATION**

SWOT & NEED ANALYSIS

Human Capacity Building

Coordination

Communication

System

Stronger ICT

Cooperation

THANK YOU