AGRICULTURAL STATISTICS SYSTEM IN INDONESIA

Center For Agriculture Data and Information Systems, Ministry Of Agriculture
Indonesia
Introduction

Organization Of The Agricultural Statistics System

Main Output

Resources

Metodology

Desimulation of Agricultural Statistics
INDONESIA IN THE WORLD MAP
THE FIVE LARGEST ISLANDS OF INDONESIA

1. Sumatera 473,606 km² = 47.36 million ha
2. Java 132,107 km² = 13.21 million ha
3. Kalimantan 539,460 km² = 53.95 million ha
4. Sulawesi 189,216 km² = 18.92 million ha
5. Papua 421,981 km² = 42.20 million ha
Area : Land 1.9 millions Sq. Km; Sea 8 millions Sq. Km (including EEZ)

Population : 252, 434 Millions (2014)  
50.21% live at rural area

Location : 6°08' North - 11° South 
94°45' - 141° longitude

Dry Season : April - September 
Wet Season : October - March.
Total GDP : 8,241 Million Rupiah
Share of Agric : 14.44%

Agric Households : 26.1 million (2013)
Total Employment : 118 million
Agric. Employment : 35.09%

Agriculture Export : US $ 33,690 million
Agriculture Import : US $ 15,337 million
ORGANIZATION OF AGRICULTURAL STATISTICS SYSTEM

2. Act No: 14/2008 for Public Information Openness

   - NSO (BPS-Statistics Indonesia) as the coordinator of the implementation of statistics.
   - Basic Statistics was organized by NSO
   - Sectoral Statistics, responsibility of each sector or in cooperation with NSO

   - NSO as the coordinator of the implementation of statistics
Over View of the Statistical System

- The Statistics Law, Act No. 16, 1997 provides the legal basis for statistical activities in Indonesia and mentions the BPS-Statistics Indonesia (BPS) as the executive agency for statistical activities.

- The Act also mandates BPS to assist all ministries including Ministry of Agriculture (MoA), Ministry of Marine Affairs and Fisheries, and Ministry of Forestry in conducting their sectoral statistics, and ministries are empowered to collect and compile their sectors for monitoring and evaluating their policies programs.

- Base on Act No 22, 1999, MoA could not directly manage its data collection from the district/municipality. Therefore, BPS, the MoA, and the autonomous local government authorities have made an agreement in providing sustainable agriculture data, especially food crops and horticulture crops.
**Over View of the Statistical System**

- The local government must continually collect data of planted and harvested areas for food crops and horticulture crops. Also the local government’s staffs have to work together with BPS’ staffs in sub district to collect a crop cutting survey for estimating productivity of food crops. Production and harvested areas of horticulture crops have to be collected by the local government.

- BPS is responsible to process and disseminate data food crops and horticulture crops.

- BPS conducts a press release every four months to disseminate the food crops estimates and every year for special horticulture crops, i.e. red chili and shallot.

- BPS collects data of estate crops from all establishments with legal entity by mailing system. The filled questionnaires should be returned monthly to BPS. BPS also collect more detail annually by interviewing them. This method is also used for collecting establishment with legal entity for horticulture crops, livestock, and fishery.
Institutional Set Up
Organization Of NSO-Indonesia (Agricultural Related)

DIRECTOR GENERAL

Deputy Director General of Methodology & Information

Directorate of Census and Survey Methodology Development (25)

Directorate of Dissemination (25)

Directorate of Information System (25)

Provincial Statistics Offices (33)

Districs Statistic Offices (500)

Sub Districc Statistic Officer (6600)

Deputy Director General of Production

Directorate of Foodcrops, Horticulture and Plantation Statistics (25)

Directorate of Forestry, Animal Husbandry and Fishery Statistics (25)
Organization of Agricultural Statistic at Ministrial Level

Ministry (MOA, MMAF, MOF)

Data/IS Center

Directorate Generals (Central Office)

Statistics Unit

Provincial Agricultural Service Offices

Statistics Unit

District Agricultural Service Offices

Statistics Unit

Sub District Agriculture Officers
Integration and Coordination of Agricultural Statistics

1. NSO
   • Census
   • Surveys
2. MINISTRIES
   • Surveys
   • Administrative Reports
3. LOCAL AGRICULTURAL SERVICE OFFICES
   • Surveys
   • Administrative Reports
Agricultural Statistics System In Indonesia

CENSUS ONCE EVERY TEN YEARS

1. Census of Population (in the year ending 0 (zero))

2. Census of Agriculture (in the year ending 3)

3. Census of Economy (in the year ending 6)
   - Identify the population of economic activities
   - Update the directory
   - Create a map of economic activities distributions

- Agriculture Statistics
- Fisheries Statistics
- Forestry Statistics
- Agriculture Household
- Agriculture Establishment
- Characteristics of Agriculture Activities
Remarks:
- Active Coordination
- Reporting
- Data collection

Fields / Farmers
MAIN OUTPUT OF AGRICULTURAL STATISTICS SYSTEM
Agricultural Data Classification

- **Upstream/Input Data:**
  - Machineries, Fertilizer, Pesticide, Seed, Natural Resources and Capital Resources

- **On-farm/Production Data:**
  - Food crops
  - Horticulture
  - Livestocks
  - Estate crops

- **Down-stream Data:**
  - Processing, Trading, GNP, Farmer’s Term of Trade, Investment

- **Supporting Data:**
  - Human resources
  - Technology resources
<table>
<thead>
<tr>
<th>No</th>
<th>Indicator</th>
<th>Responsible Agency</th>
<th>Level</th>
<th>Most Recent Data</th>
<th>Source of data</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Agricultural Input</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Agricultural land</td>
<td>National Land Agency</td>
<td>Regional</td>
<td>2010</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Land Use</td>
<td>NSO</td>
<td>Regional</td>
<td>2010</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Fertilizer</td>
<td>MOA</td>
<td>National</td>
<td>2012</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Pesticides</td>
<td>MOA</td>
<td>National</td>
<td>2012</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Machinery</td>
<td>MOA</td>
<td>National</td>
<td>2012</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Agricultural Credit</td>
<td>MOA</td>
<td>National</td>
<td>2012</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Seeds</td>
<td>MOA</td>
<td>National</td>
<td>2012</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Breeds</td>
<td>MOA</td>
<td>National</td>
<td>2012</td>
<td>Administratif</td>
</tr>
<tr>
<td>II</td>
<td>On Farm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Harvested Areas</td>
<td>MOA</td>
<td>Province</td>
<td>2013</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Yield</td>
<td>MOA</td>
<td>Province</td>
<td>2013</td>
<td>Survey</td>
</tr>
<tr>
<td></td>
<td>Production</td>
<td>MOA</td>
<td>Province</td>
<td>2013</td>
<td>Counting</td>
</tr>
<tr>
<td></td>
<td>Fishery Product</td>
<td>Ministry of Fishery</td>
<td>Province</td>
<td>2012</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Forestry Product</td>
<td>Ministry of Forestry</td>
<td>National</td>
<td>2012</td>
<td>Administratif</td>
</tr>
<tr>
<td>III</td>
<td>Consumption</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Agricultural Consumption</td>
<td>NSO</td>
<td>National</td>
<td>2012</td>
<td>Survey</td>
</tr>
<tr>
<td>IV</td>
<td>Trade</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Export and Import</td>
<td>NSO</td>
<td>nasional</td>
<td>2013</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Producer and Wholesale Prices</td>
<td>MOA</td>
<td>Regional</td>
<td>2013</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Market Prices</td>
<td>Ministry of Trade</td>
<td>Regional</td>
<td>2013</td>
<td>Administratif</td>
</tr>
<tr>
<td>V</td>
<td>Other Indicator</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pests and diseases</td>
<td>MOA</td>
<td>Province</td>
<td>2013</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Climate</td>
<td>BMKG</td>
<td>National</td>
<td>2012</td>
<td>Administratif</td>
</tr>
<tr>
<td></td>
<td>Number of Household</td>
<td>NSO</td>
<td>Province</td>
<td>2013</td>
<td>Census</td>
</tr>
<tr>
<td></td>
<td>Agricultural Employment</td>
<td>NSO</td>
<td>Province</td>
<td>2013</td>
<td>Survey</td>
</tr>
<tr>
<td></td>
<td>Poverty in Agriculture</td>
<td>NSO</td>
<td>Province</td>
<td>2013</td>
<td>Survey</td>
</tr>
<tr>
<td></td>
<td>Agricultural Income</td>
<td>NSO</td>
<td>National</td>
<td>2003</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Agricultural Term of Trade</td>
<td>NSO</td>
<td>National</td>
<td>2013</td>
<td>Counting</td>
</tr>
<tr>
<td></td>
<td>Agricultural GDP</td>
<td>NSO</td>
<td>National</td>
<td>2013</td>
<td>Counting</td>
</tr>
<tr>
<td></td>
<td>Agricultural Cost Structure</td>
<td>NSO</td>
<td>National</td>
<td>2010</td>
<td>Survey</td>
</tr>
</tbody>
</table>
RESOURCES OF THE AGRICULTURAL STATISTICS SYSTEM
A. Human Resources

- Central Office (± 250 People)
- Provincial Office (± 400 People)
- District Office (± 6000 People)
- Sub-District Official (± 26,400 People)

B. Financial Resources

- In NSO, Budget for Statistics was prepared centralized
- In Ministries and local offices, each institutional unit has their own budget. Ministries prepared the financial guideline.

C. Physical Resources

- Computer is provided for each Statistics Official at Central and Province
- Each district Office has two computers
METHODOLOGY USED IN AGRICULTURAL STATISTICS
1. Census
   - Agricultural Census : NSO

2. Survey
   - Sampling Frameworks : NSO
   - Household Wage Structure : NSO
   - Agricultural Commodities Cost Structure : NSO
   - Consumption Survey : NSO
   - Agriculture Workforce : NSO
   - Livestock Parameter Survey : MOA
   - Yield Survey : NSO
   - Marine Fisheries Survey and Aquaculture Survey : MMAF

3. Administrative Reports
   - Planted Area : MOA
   - Harvested Area : MOA
   - Agricultural Input : MOA
   - Livestock Population : MOA
   - Forestry Production : MF
   - Price : MOA, MOT
   - Ekspor – Impor : CUSTOM
International Classification Adopted

- ISIC (International Standard Industrial Classification)
- CPS (Central Product Classification)
- HS (Harmonized System Classification)
DISSEMINATION OF AGRICULTURAL STATISTICS
Agricultural Statistical Publication
<table>
<thead>
<tr>
<th>Name</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Area by Utilization</td>
<td>yearly</td>
</tr>
<tr>
<td>Agriculture Indicators</td>
<td>yearly</td>
</tr>
<tr>
<td>Production of Food Crops</td>
<td>yearly</td>
</tr>
<tr>
<td>Statistics of Annual Fruits and Vegetables Plants</td>
<td>yearly</td>
</tr>
<tr>
<td>Statistics of Seasonal Fruits and Vegetables Plants</td>
<td>yearly</td>
</tr>
<tr>
<td>Statistics of Ornamental Plants</td>
<td>yearly</td>
</tr>
<tr>
<td>Statistics of Medical Plants</td>
<td>yearly</td>
</tr>
<tr>
<td>Statistics of Horticulture Establishment</td>
<td>yearly</td>
</tr>
</tbody>
</table>
### NSO Agriculture Statistics Publications

<table>
<thead>
<tr>
<th>Name</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indonesian Oil Palm Statistics</td>
<td>yearly</td>
</tr>
<tr>
<td>Indonesian Rubber Statistics</td>
<td>yearly</td>
</tr>
<tr>
<td>Indonesian Tea Statistics</td>
<td>yearly</td>
</tr>
<tr>
<td>Indonesian Sugar Cane Statistics</td>
<td>yearly</td>
</tr>
<tr>
<td>Directory of Oil Palm Plantation Establishment</td>
<td>yearly</td>
</tr>
<tr>
<td>Directory of Rubber Plantation Establishment</td>
<td>yearly</td>
</tr>
</tbody>
</table>
A. Methodologies for crops data collection:

- Methodology for Foodcrops data collection
- Methodology for Horticulture data collection
- Methodology for Estate crops data collection
- Methodology for Livestocks data collection

B. Methodology for non crop data collection:

- Methodology for farmer welfare survey
- Methodology for stock and consumption survey
- Methodology for paddy field mapping by GPS
- Methodology for Paddy field Mapping by using satellite imagery
C. *Statistical Publications and database for agricultural commodities (Foodcrops, Horticulture, Estate Crops, and Livestock)*

- Agricultural Statistics, yearly
- Foodcrops commodities Outlook, yearly
- Horticulture commodities Outlook, yearly
- Estate crops commodities Outlook, yearly
- Livestock commodities Outlook, yearly
D. Statistical Publications and databases for agricultural infrastructure and social-economics

- Agricultural macro-economic Indicators, yearly
- Bulletin of agricultural Gross Domestics Product (quarterly)
- Bulletin of agric. export/import (monthly)
- Bulletin of agric. commodities price (monthly)
- Bulletin of internasional price (semesterly)
- Agricultural macro-economic indicators Pocket Book (Quarterly)
- Analysis of agricultural trade performance
- Analisys Farmers Welfare
- Paddy Field Base Map (Java)
## PUBLICATION OF MARINE FISHERIES STATISTICS

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>THE TYPE OF DATA COLLECTED</th>
<th>DATA COLLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ECONOMY UNITS</strong></td>
<td>Households or establishments capture fisheries according to the size of the business categories</td>
<td>Annual</td>
</tr>
<tr>
<td><strong>INPUT</strong></td>
<td>• Fishing vessels by type and size</td>
<td>• Annual</td>
</tr>
<tr>
<td></td>
<td>• Fishing units by type of equipment and vessel size</td>
<td>• Annual</td>
</tr>
<tr>
<td></td>
<td>• Fishing trips by type of equipment and vessel size</td>
<td>• Quarterly</td>
</tr>
<tr>
<td><strong>OUTPUT</strong></td>
<td>• Production by type of fishing gear and fish species</td>
<td>Quarterly</td>
</tr>
<tr>
<td></td>
<td>• Production values by type of fishing gear and fish species</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Production by type of fishing gear of fish seed and fish species</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Value of fish seed production by type of equipment catching fish fry fish</td>
<td></td>
</tr>
</tbody>
</table>
## PUBLICATION OF AQUACULTURE STATISTICS

<table>
<thead>
<tr>
<th>DETAILS</th>
<th>THE TYPE OF DATA COLLECTED</th>
<th>DATA COLLECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ECONOMY UNITS</strong></td>
<td>Households or establishments aquaculture use form SB-2a (broodstock) and form SB-H1 (ornamental fish data) ➔ area of aquaculture (wide effort)</td>
<td>Annual</td>
</tr>
<tr>
<td><strong>INPUT</strong></td>
<td>• Means of production&lt;br&gt;• Production&lt;br&gt;• Value of production</td>
<td>Quarterly</td>
</tr>
<tr>
<td><strong>OUTPUT</strong></td>
<td>• Estimation production by type of aquaculture&lt;br&gt;• Values of production by type of aquaculture&lt;br&gt;• Estimation production by fish species&lt;br&gt;• Value of production by fish species</td>
<td>Quarterly</td>
</tr>
</tbody>
</table>
Data Dessimination through Website

- BPS-Statistics Indonesia Website: [www.bps.go.id](http://www.bps.go.id)
- Ministry of Agriculture’s Web Site: [www.pertanian.go.id](http://www.pertanian.go.id)
- Ministry of Marine Affair and Fishery: [www.kkp.go.id](http://www.kkp.go.id)
- Ministry of Forestry: [www.dephut.go.id](http://www.dephut.go.id)
Berita Resmi Statistik

03 Maret 2014
- Februari 2014, Harga Grosir Naik 0,48 Persen dibandingkan Bulan Sebelumnya (Hits : 4447)
- Produksi Padi Tahun 2013 (Angka Sementara) Naik 3,24 Persen (Hits : 4435)
- NTP Februari 2014 Turun 0,16 Persen Dibandingkan NTP Bulan Sebelumnya (Hits : 4133)
- Januari 2014, Jumlah Wisman Naik 22,59 Persen Dibanding Tahun Sebelumnya (Hits : 4321)
- Januari 2014, Ekspor Indonesia Turun 14,63 Persen dan Impor Turun 3,50 Persen (Hits : 4570)
- Inflasi Februari 2014 Sebesar 0,26 Persen (Hits : 4498)

05 Februari 2014
- Kondisi Bisnis dan Ekonomi Konsumen Triwulan IV/2013 Meningkat dari Triwulan Sebelumnya (Hits : 4243)
- Pertumbuhan PDB 2013 Mencapai 5,78 Persen (Hits : 5346)

03 Februari 2014
- Januari 2014, Harga Grosir Naik 1,81 Persen dibandingkan Bulan Sebelumnya (Hits : 4282)
Mentan: Hadapi AEC 2015, Pemerintah Dorong Perkuat Daya Saing

Jakarta – Dalam menghadapi ASEAN Economic Community (AEC) 2015, sektor pertanian didorong untuk memperkuat perdagangan intra dan ekstra ASEAN dan daya saing produk. "AEC merupakan tantangan sekaligus peluang" ujar Menteri Pertanian, Suswono dalam sambutannya dalam acara “Gelar Penerapan Teknologi Pengolahan Hasil Pertanian” (19/03/2014).

Berita Utama Lainnya / More Headline

- Mentan: Waspadai Sepak Terjang Pihak Tertentu yang menimbulkan Dampak Hukum (20-Mar-2014)
- Wamentan: (20-Mar-2014)
KKP-KPK SEPAKATI CEGAH GRATIFIKASI

2014/03/27 - Kategori : Siaran Pers

SIARAN PERS No. 36/PDSI/HM.310/III/2014 KKP-KPK
SEPAKATI CEGAH GRATIFIKASI Komitmen
Kementerian Kelautan dan Perikanan (KKP) untuk
mewujudkan...

REALISASI KUR PERIKANAN DIATAS RP 800
MILIAR »

Pemantauan Ekosistem Terumbu Karang
Stasiun PSDK Pual »

SI MUTIARA HIJAU DARI KABUPATEN POLEWALI
MANDAR DAPAT MENGATUR TANAMAN...

+ index

LPSE-KKP

Lembaga Pengadaan Secara Elektronik
Kementerian Kelautan dan Perikanan

3 JI. Jenderal Sudirman Kav. 86 Jakarta Pusat.
: Saksikan III tayangkan Parodi Beranda "Anti Korupsi" Kementerian Kelautan dan Perikanan di MetroTV pada Hari Jumat, 20 D
:: Info Terkini ::

21-03-2014
Pelatihan Tenaga Lapangan (Penyelia Operasional) Badan Layanan Umum Pusat Pembiayaan Pembangunan Hutan


20-03-2014
Realisasi pelepasan kawasan hutan dan Rekapitulasi persetujuan prinsip pencadangan kawasan hutan Februari 2014

Data Realisasi pelepasan kawasan hutan dan Rekapitulasi persetujuan prinsip pencadangan kawasan hutan Februari 2014.

19-03-2014
TIGA DESA DI KABUPATEN KAPUAS Menerima IZIN PENETAPAN AREAL KERJA HUTAN DESA

Thank You

TERIMA KASIH