Regional Course on Communication and Advocacy
For Agricultural and Rural Statistics

National Agriculture Statistics System in Indonesia
Jointly presented by

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Ministry of Agriculture

Kadarmanto
BPS-Statistics Indonesia

Beijing, 20-24 April 2015

OUTLINE

- Introduction
- National Statistical System and Agricultural Statistics System
- Agricultural Statistics and Indicators
- Communication
- Data Dissemination
  - Data Dissemination at BPS-Statistics Indonesia
  - Data Dissemination at Ministry of Agriculture
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.
LEGAL FRAME WORK

   - BPS-Statistics Indonesia as the coordinator of the implementation of statistics.
   - Basic Statistics was organized by BPS
   - Statistics Sector held by each sector or in cooperation with BPS
   - BPS-Statistics Indonesia as the coordinator of the implementation of statistics
**Types of Data at BPS**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Undertaken by</th>
</tr>
</thead>
</table>
| **Basic Statistics** | • Used for a broad range of purposes  
• Utilized by government and society  
• Characters: cross-sectoral, nationally scale, broadly aggregated | BPS-Statistics Indonesia                |
| **Sectoral Statistics** | • Utilized by several particular institutions to fulfill their main tasks | Govt institutions (independently or in collaboration with BPS) |
| **Special Statistics** | • Utilized to fulfill the specific needs of business, education, socio-cultural, and other purposed | Non-government institutions, organizations, individuals and/or other parts of the society. |
**Census Conducted by BPS (1)**

- Mandate of Law No.16/1997 and an agenda of UN;
- Held every 10 years in years ended with 0;
- The 2010 Population Census was the sixth Population Census in Indonesia after 1961, 1971, 1980, 1990, and 2000;
- The 2010 Population Census was held to collect basic data on housing and population, demographic parameter, data for MDGs evaluation, and program targeting.

[http://sp2010.bps.go.id](http://sp2010.bps.go.id)

**Census Conducted by BPS (2)**

- Used as benchmark data for agricultural sector;
- Conducted every 10 years in years ended with 3;
- The 2013 Agricultural Census was the sixth agricultural census in Indonesia after 1963, 1973, 1983, 1993 and 2003;
- Agricultural characteristics: farmer household, number of livestock, land tenure, etc.

[http://st2013.bps.go.id](http://st2013.bps.go.id)
Census Conducted by BPS (3)

Economic Census
- Conducted every 10 year in years ending with 6;
- The 2006 Economic Census was the third economic census in Indonesia after 1986, 1996;
- Enterprise characteristics: number of enterprises, labor force, etc.

Sectors Enumerated

<table>
<thead>
<tr>
<th>Sector</th>
<th>Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining and Quarrying</td>
<td>Trade, Hotel, and Restaurant</td>
</tr>
<tr>
<td>Manufacturing Industry</td>
<td>Transport and Communication</td>
</tr>
<tr>
<td>Electricity, Gas, and Water Supply</td>
<td>Finance, Real Estate, and Business Services</td>
</tr>
<tr>
<td>Construction</td>
<td>Services</td>
</tr>
</tbody>
</table>

Surveys Conducted by BPS

There were around 68 types of surveys (monthly, quarterly, semestery, and annually) during 2013, among others:

- Susenas (National Economic and Social Survey),
- Sakernas (National Labor Force Survey),
- Price Survey (Consumer, Rural Consumer, Wholesale),
- Crop Cutting Survey,
- Farm Income Survey,
- Etc.
Data Obtained from Compilation of Administrative Records

- Human Development Index,
- Area Planted, Area Harvested on Agricultural Commodities
- export and import,
- transportation,
- flow fund accounts,
- gross domestic product
- tourism

ORGANIZATION OF BPS-STATISTIC INDONESIA

CHIEF STATISTICIAN

- Institute of Statistic
- Education and Training Center
- Inspectorate
- Principle Secretariat
- Deputi Director General (5)

- Province Statistics Office (33)
- Regional Statistics Office (500)
- Sub Districts Statistic Worker
ORGANIZATION OF STATISTICAL SYSTEM WITHIN MOA

MINISTER

Inspectorate General

Directorate General (6)

Secretariat of the Directorate General

Secretariat of The Agency

Statistical Units

Agricultural Statistics and Indicators
**AGRICULTURAL DATA AVAILABLE**

- **Upstream**: Agricultural Input, Machineries, Natural Resources and Capital Resources
- **On-farm**:  
  - Food crops  
  - Horticulture  
  - Livestocks  
  - Estate crops
- **Down-stream**:  
  - Processing, Trading, GNP, Farmer’s Term of Trade, Investment
- **Supporting Data**:  
  - Human resources  
  - Technology resources

**FOOD CROP STATISTICS**

- **Area Planted, Area Harvested, Productivity, Pest and Disease, Land Use and Machinery for Primary Crops**
- **Paddy, Maize, Soybeans, Cassava, Peanut, Mungbeans, Sweet Potatoes**
- **Biweekly, Monthly, Quarterly, Yearly**
- **Available Data: 1970 – 2013**
HORTICULTURE STATISTICS

- Fruits, Vegetables, Ornamental Plant and Medicine Plant
- Area Harvested, Production, Productivity
- Monthly, Quarterly, Yearly
- Available Data:
  - Fruits and vegetables (1970 - 2013)
  - Ornamental Plant and Medicine Plant (2003 - 2013)

LIVESTOCK STATISTICS

- Cattle, Buffalo, Goat, Lamb, Pork, Horse, Native Chicken, Layer, Broiler, Duck, Egg, Milk
- Population, Production, Consumption
- Semi Annually
- Available Data: 1969 – 2013

*) Preliminary Figure
**ESTATE CROP STATISTICS**

- Rubber, Oil Palm, Coffee, Pepper, Clove, Cocoa, Sugarcane, Tobacco
- Bearing, Non Bearing Crops, Production, Productivity
- Semi Annually

**Indicators related to agricultural and rural statistics**

<table>
<thead>
<tr>
<th>No</th>
<th>Indicator Name</th>
<th>No</th>
<th>Indicator Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Productivity (yield per hectar)</td>
<td>8</td>
<td>Index of food crops production</td>
</tr>
<tr>
<td>2</td>
<td>Production indices of agricultural sector by sector</td>
<td>9</td>
<td>Chain index of food crops production</td>
</tr>
<tr>
<td>3</td>
<td>Chain index of GDP</td>
<td>10</td>
<td>Average unhulled rice producer’s price at farmer level</td>
</tr>
<tr>
<td>4</td>
<td>Index of prices received by farmers</td>
<td>11</td>
<td>Average unhulled rice producer’s price at hulter level</td>
</tr>
<tr>
<td>5</td>
<td>Index of prices paid by farmers</td>
<td>12</td>
<td>Weighted average secondary food crops producer’s price</td>
</tr>
<tr>
<td>6</td>
<td>Farmer’s terms of trade</td>
<td>13</td>
<td>Chain index of harvested area of food crops</td>
</tr>
<tr>
<td>7</td>
<td>Average daily wage workers farmer</td>
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</tbody>
</table>
## Indicators related to agricultural and rural statistics

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>14</td>
<td>Chain index of agricultural land area by type of utilization</td>
<td>20</td>
<td>Chain index of vegetables and fruits production</td>
</tr>
<tr>
<td>15</td>
<td>Chain index of wetland area</td>
<td>21</td>
<td>Productivity of vegetables and fruits</td>
</tr>
<tr>
<td>16</td>
<td>Export Volume and FOB Value of food crops</td>
<td>22</td>
<td>Export Volume and FOB Value of horticulture crops</td>
</tr>
<tr>
<td>17</td>
<td>Import Volume and CIF Value of food crops</td>
<td>23</td>
<td>Import Volume and CIF Value of horticulture crops</td>
</tr>
<tr>
<td></td>
<td><strong>HORTICULTURE</strong></td>
<td></td>
<td><strong>ESTATE CROPS</strong></td>
</tr>
<tr>
<td>18</td>
<td>Production index of vegetables and fruits</td>
<td>24</td>
<td>Index of estate crops production</td>
</tr>
<tr>
<td>19</td>
<td>Weighted average vegetables and fruits producer’s price</td>
<td>25</td>
<td>Index of smallholders plantation production</td>
</tr>
<tr>
<td>26</td>
<td>Chain index of estate crops production</td>
<td>32</td>
<td>Chain index of the production of meat, egg, and milk</td>
</tr>
<tr>
<td>27</td>
<td>Chain index of smallholders plantation production</td>
<td>33</td>
<td>Average livestock producer’s price</td>
</tr>
<tr>
<td>28</td>
<td>Export Volume and FOB Value of estate crops</td>
<td>34</td>
<td>Export Volume and FOB Value of livestocks</td>
</tr>
<tr>
<td>29</td>
<td>Import Volume and CIF Value of estate crops</td>
<td>35</td>
<td>Import Volume and CIF Value of livestocks</td>
</tr>
<tr>
<td></td>
<td><strong>LIVE STOCKS</strong></td>
<td></td>
<td><strong>AQUA CULTURE &amp; FISH CATCHING</strong></td>
</tr>
<tr>
<td>30</td>
<td>Index of livestock and its product production</td>
<td>36</td>
<td>Index of aqua culture production by type of culture</td>
</tr>
<tr>
<td>31</td>
<td>Chain index of number of livestock</td>
<td>37</td>
<td>Index of fish catching production by type of fish catching</td>
</tr>
</tbody>
</table>
## Indicators related to agricultural and rural statistics

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<tr>
<td>38</td>
<td>Chain index of estate crops production</td>
<td>44</td>
<td>Chain index of the production of meat, egg, and milk</td>
</tr>
<tr>
<td>39</td>
<td>Chain index of smallholders plantation production</td>
<td>45</td>
<td>Average livestock producer’s price</td>
</tr>
<tr>
<td>40</td>
<td>Export Volume and FOB Value of estate crops</td>
<td>46</td>
<td>Export Volume and FOB Value of livestocks</td>
</tr>
<tr>
<td>41</td>
<td>Import Volume and CIF Value of estate crops</td>
<td>47</td>
<td>Import Volume and CIF Value of livestocks</td>
</tr>
<tr>
<td></td>
<td><strong>LIVE STOCKS</strong></td>
<td></td>
<td><strong>AQUA CULTURE &amp; FISH CATCHING</strong></td>
</tr>
<tr>
<td>42</td>
<td>Index of livestock and its product production</td>
<td>48</td>
<td>Index of aqua culture production by type of culture</td>
</tr>
<tr>
<td>43</td>
<td>Chain index of number of livestock</td>
<td>49</td>
<td>Index of fish catching production by type of fish</td>
</tr>
<tr>
<td></td>
<td><strong>OTHERS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Export Volume and FOB Value of fisheries</td>
<td>56</td>
<td>Terms of Trade for Agriculture</td>
</tr>
<tr>
<td>51</td>
<td>Import Volume and CIF Value of fisheries</td>
<td></td>
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<tr>
<td></td>
<td><strong>OTHERS</strong></td>
<td></td>
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<tr>
<td>52</td>
<td>Producer’s Price Index (PPI) for agricultural commodities</td>
<td></td>
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</tr>
<tr>
<td>53</td>
<td>Farm product price index</td>
<td></td>
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<tr>
<td>54</td>
<td>Wholesale Price Index</td>
<td></td>
<td></td>
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<tr>
<td>55</td>
<td>Consumer Price Index</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Key Stakeholders of Agricultural Statistics

- President
- Vice President
- Ministry of Agriculture
- Ministry of National Planning
- Coordinating Ministry for Economic Affairs
- Coordinating Ministry for Human Development and Culture
- Ministry of Trade
- Ministry of National Development Planning
- Ministry of State Secretary
- Ministry of Finance
- Food Logistics Agency
- Indonesian State Intelligence Agency
- Ministry of Marine Affairs and Fisheries
- Food and Agriculture Organization (FAO)
- US Embassy
- Indonesia Chamber of Commerce and Industry (KADIN)
Coordination with Stakeholders

- For a reliable, effective and efficient National Statistics System, cooperation amongst various stakeholders is necessary
- These includes: BPS-Statistics Indonesia, other government institutions, universities, research institutions, enterprises and individuals
- Activities in Detail:
  - The formation of a statistical inter-personnel forum
  - Persuasion of respondents

Activities in Coordination with Stakeholders

1. The formation of a Statistical Inter-Personnel Forum
2. Persuasion of Respondent
3. Intensifying the Use of Standard Statistical Concepts
4. Increasing the Socialization of Statistics
5. **Improving Services to Users**
6. Developing Positions for Statisticians and Computer Personnel
7. Increasing Cooperation with Government and Private Institutions
8. Increasing Cooperation with Intenntional Donors
Activities in Coordination with Stakeholders: Improving Services to Users

a) Applying the appropriate dissemination technology to improve the quality services to central and regional governments.

b) Improving the quality of statistical information dissemination through statistical publication using national and international guidelines, while maintaining the basic characteristics and the image of BPS.

c) Developing a meta data system which covers information on basic statistics, sectoral statistics and specifics statistics to be used as reference point for national statistical activities.

d) Further improving the library system and developing a reliable statistics documentation system, with the compilation of international and national statistical publication, and book references regarding statistical techniques and methodology.
The role of agricultural and rural statistics

- To create the food balance sheet.
- Used to take decision in importing agricultural commodities
- Used as a basis to make any policy in agriculture development
- To evaluate any program which has been implemented

Strategic Vision and Planning for Agricultural Statistics

There exists a five-year strategic plan for the Indonesian statistics program at BPS-Statistics Indonesia, “the Strategic Plan for Statistical Development”. It includes a brief outline of the program of work for the sub-sectors including agriculture. The plan does not include any mention of statistics Fisheries or Forestry statistics programs. The plan is operational and the current plan is for the years 2010 to 2014. Planning and preparation is underway for the development of the 2015-2019 Plan.
BPS-Statistics Indonesia the nation’s national statistics agency has identified the development of an integrated statistical system for food crops as a high priority in the agency’s short and long term action plan and the December 2013 release of the results of the 2013 Agricultural Census, means that the Census of Agriculture is now available as master sampling frame.

Ministry of Agriculture is the responsible agency for compiling food balance sheets, which were last produced in respect of 2010. At a more aggregate level the Input-Output tables of the National Account’s Production Directorate of BPS-Statistics Indonesia are also a major analytic undertaking by the National Accounts. A number of key data users also use balance sheets, supply and use/consumption or input output table to verify and assess the accuracy and reliability of the food crop estimates.
Key Users of Agricultural Statistics

- Ministry of National Development and Planning:
  - This ministry uses agricultural statistics to prepare a five-year national mid-term development plan (RPJMN)
  - Currently, this ministry prepares 2010-2014 RPJMN for Food and Agriculture

Problems faced in communicating and advocating agricultural statistics

- There is a question about the accuracy of the agricultural data.

- The data users said there are still some imports on agricultural commodities but data shows a surplus on a certain commodity domestic production
Communication

- Communication is crucial for strengthening institutional collaboration and partnership at national and regional levels
  - Daily exchange via email
  - Phone
  - Regular or Coordination Meetings

- Interaction with data users and data producers is enhanced through Social Media

Interaction with data users and data producers through Social Media (1)

BPS Facebook Account:
https://www.facebook.com/pages/Badan-Pusat-Statistik/1394866840805957
Interaction with data users and data producers through Social Media (2)

BPS Twitter Account: https://twitter.com/bps_statistics

Dissemination
Press Release of Official Statistics News

Publicity

- Publicity prior to Censuses
- Press Release/conference (Monthly, Quarterly, Annually, Ad-hoc)
- Workshop and FGD with stakeholders
- Census and Survey Release, prior to Publication
- Statistical Capacity Building for Press, Line Ministries, key users
Press Release of Official Statistics News

- There are 2 types of press release based on the time of release, they are: monthly and quarterly.
- Monthly press release is conducted on the first working day every month, while quarterly release (GDP, Business Tendency Index, and Consumer Tendency Index) is conducted on the fifth of February, May, August, and November (unless it is a holiday, then it will be postponed until the next working day).
- The release starts at 11.00 o'clock (WIB / Western Indonesian Time), except on Friday it starts at 09.00 o'clock (WIB).

Official Statistics News
(Berita Resmi Statistik / BRS)

<table>
<thead>
<tr>
<th>Monthly</th>
<th>Quarterly (Feb, May, Aug, Nov)</th>
<th>Four-monthly, Semesterly, Annually</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inflation/Consumer Price Index</td>
<td>GDP/Economic Growth</td>
<td>Poverty (January and July)</td>
</tr>
<tr>
<td>Export</td>
<td>Business Tendency Index</td>
<td>Employment (May and November)</td>
</tr>
<tr>
<td>Import</td>
<td>Consumer Tendency Index</td>
<td>Forecast:</td>
</tr>
<tr>
<td>Trade Balance</td>
<td>Manufacturing Industry</td>
<td>- Production of Paddy, Maize, and Soybeans Preliminary Figure Year n-1 (March)</td>
</tr>
<tr>
<td>Tourism</td>
<td>- Large and Medium Scale</td>
<td>- Production of Paddy, Maize, and Soybeans Forecast I Year n (July)</td>
</tr>
<tr>
<td>Transportation</td>
<td>- Micro and Small Scale</td>
<td>- Production of Paddy, Maize, and Soybeans Forecast II Year n (November)</td>
</tr>
<tr>
<td>Farmer Terms of Trade</td>
<td>Producer Price Index (Oct '13)</td>
<td></td>
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<tr>
<td>Grain Producer Price</td>
<td></td>
<td></td>
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<tr>
<td>Wage</td>
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<tr>
<td>Wholesale Price Index</td>
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</tbody>
</table>
Quick Wins

BPS has established three quick wins, including:

- Website (www.bps.go.id)
- Integrated Statistical Services
- Advanced Release Calendar (ARC)

The three quick wins must be achieved by each and every representative office of BPS across Indonesia to improve the quality of public services.
Produksi Padi, Jagung, dan Kedelai
(ANGKA SEMENTARA TAHUN 2014)

Produksi padi tahun 2014 (ASEM) sebanyak 70,83 juta ton gabah kering (GKG) atau mengalami...

Download BPS Publication

Berita Resmi Statistik
Badan Pusat Statistik

No. 28/03/Tn. XVIII, 2 Maret 2015
- Internet Use and the Ministry of Agriculture’s Web Site:
- Agricultural Statistical Database.
DAYA SAING PRODUK HORTIKULTURA JIINDonesia LEMAH


Dengan pertumbuhan supermarket yang meningkat 15% pertahun, maka diperhitungkan bahwa barisan produk-produk pertanian negara Saat ini sudah di Indonesia terdapat lebih kurang 100 super market, lebih dari 250 super market, dan lebih dar 1.000 supermarket yang terdiri dari hampir seluruh toko dan holapi di Indonesia. detail...

OUTPUTS/PUBLICATIONS

Pusat Data dan Informasi Pertanian
1. Data and Statistical Services

A. Statistical database for agricultural commodities (Foodcrops, Horticulture, Estate Crops, and Livestock)

B. Statistical database for agricultural infrastructure and social-economics

C. 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
D. 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

E. Crops Statistics Publications

- Agricultural Statistics, yearly
- Foodcrops commodities Outlook, yearly
- Horticulture commodities Outlook, yearly
- Estate crops commodities Outlook, yearly
- Livestock commodities Outlook, yearly
F. Non Crops Statistics Publications

- 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
- Analyisys Farmers Welfare
- Paddy Field Base Map (Java)

G. Electronic Forms for data Entry and Reporting

- E-Form for Food Crops
- E-Form for Horticulture
- E-Form for Estate Crops
- E-Form for Live stocks

Thank You
TERIMA KASIH