Status of Agricultural mechanization and Testing machine in Vietnam

Present by: Tran Duc Tuan
Deputy Director
Research center of Agricultural Machinery & Air-Hydraulic
Vietnam Institute of Agricultural Engineering & Post harvest Technology
Ductuanvcd@yahoo.com, Ductuanvcd@gmail.com

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Contents

1. Vietnam General Introductions

2. Status of Agriculture mechanization

3. Testing machinery

4. Problems
1. Introduction

<table>
<thead>
<tr>
<th><strong>Land Area</strong></th>
<th>330,951sqkm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capital City</strong></td>
<td>Hanoi</td>
</tr>
<tr>
<td><strong>Population</strong></td>
<td>87,262,356</td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td>Vietnamese (official),</td>
</tr>
<tr>
<td><strong>Religion</strong></td>
<td>Buddhism, and Catholic.</td>
</tr>
<tr>
<td><strong>Climate</strong></td>
<td>North Vietnam has Southern Mediterranean type climate. South Vietnam has a tropical monsoon climate.</td>
</tr>
<tr>
<td><strong>Local Time</strong></td>
<td>GMT +7</td>
</tr>
<tr>
<td><strong>Currency</strong></td>
<td>Vietnamese Dong (VND)</td>
</tr>
</tbody>
</table>

**Agriculture produces:** Rice, maize, coffee, tea, cashewnut, rubber, fishesies, shrimp, ..
1. Introduction

- Agricultural production land: 10,151,100 ha
- Forestry land: 15,373,100 ha
- Specially used land: 1,846,800 ha
- Homestead land: 690,900 ha
- Unused land: 3,074,000 ha

(Statistical Yearbook of Vietnam, 2012)
1. Introduction

Climate (World Atlas)
Vietnam locates between 8° 30' to 23° 22' latitudes in the north tropic latitudes; therefore it belongs to the tropical area. Climate in Vietnam is mostly warm all year round. The southern part is full with sunshine; the northern part is also covered with ever sunny months. Average air temperature is 22° - 28° C but this air temperature in a year is quite different between the north and south region. The southern part is characterized by two seasons, a wet season from May to October and a dry season for the rest of the year. The northern part has four seasons summer, autumn, winter and spring separately. Average air humidity reaches to 70%-80%, and average of rainfall is about 1500-2000 mm some high mountainous areas could the over 2500-3000 mm a year as. Annual rainfall, frequently causing floods.
1. Introduction
1. Introduction

Land area
The country has a total area of about 32 million hectares, the cultivable land is about 22% of the total area, and paddy field area is achieved about 85% of this cultivable land.

Land area by land classification
1. Introduction

Planted area of paddy in 2011 are 7,484,600 ha of food crop-growing areas in the whole country. Rice areas are focused in the Red River Delta (1,202.5 thousands ha) and Mekong River Delta (3,781 thousands ha). Food capacity by paddy reaches to 39 million tons per year.

<table>
<thead>
<tr>
<th>Unit: Thous. ha</th>
<th>2005</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fruit crops</td>
<td>767,4</td>
<td>775,5</td>
<td>774,0</td>
<td>779,7</td>
<td>780,7</td>
</tr>
</tbody>
</table>

Of which:

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grape</td>
<td>1,9</td>
<td>1,2</td>
<td>1,2</td>
<td>0,9</td>
<td>0,8</td>
</tr>
<tr>
<td>Mango</td>
<td>80,1</td>
<td>86,4</td>
<td>87,6</td>
<td>87,5</td>
<td>86,3</td>
</tr>
<tr>
<td>Orange, mandarin</td>
<td>85,6</td>
<td>80,1</td>
<td>77,4</td>
<td>75,3</td>
<td>70,3</td>
</tr>
<tr>
<td>Longan</td>
<td>115,1</td>
<td>95,6</td>
<td>90,7</td>
<td>88,4</td>
<td>87,6</td>
</tr>
<tr>
<td>Litchi, rambutan</td>
<td>115,9</td>
<td>108,6</td>
<td>103,4</td>
<td>101,7</td>
<td>99,7</td>
</tr>
<tr>
<td>Cashew nut</td>
<td>348,1</td>
<td>406,7</td>
<td>391,4</td>
<td>379,3</td>
<td>360,3</td>
</tr>
<tr>
<td>Rubber</td>
<td>482,7</td>
<td>631,5</td>
<td>677,7</td>
<td>748,7</td>
<td>834,2</td>
</tr>
<tr>
<td>Coffee</td>
<td>497,4</td>
<td>530,9</td>
<td>538,5</td>
<td>554,8</td>
<td>570,9</td>
</tr>
<tr>
<td>Tea</td>
<td>122,5</td>
<td>125,6</td>
<td>127,1</td>
<td>129,9</td>
<td>126,3</td>
</tr>
<tr>
<td>Pepper</td>
<td>49,1</td>
<td>50,0</td>
<td>50,6</td>
<td>51,3</td>
<td>55,4</td>
</tr>
</tbody>
</table>
2. Agricultural mechanization

A lot kinds of machines for land preparation for rice, maize, sugar cane and industrial crops
2. Agricultural mechanization

Machines made in Vietnam (less than 30 HP)
53% tractor <12HP
35% 12-35HP
12% > 35HP
Capacity of machine increase ____
2. Agricultural mechanization

Conservation tillage
(Direct seeder)
2. Agricultural mechanization

SOME ACTIVITIES IN CUBA
2. Agricultural mechanization

40% of agricultural machines are made in Vietnam.
2. Agricultural mechanization

Rice (maize) Dry 10 tan/time

Food processing machine for fish
3. Testing Agricultural machines

Testing combine harvest rice
3. Testing Agricultural machines

- Testing Power of tractor
- Clear pond (canal)
- Testing rice mill machine
4. Problems

- Small size of field
- Policy for testing Agri. machine is not clearly
- Employments not too strong
- Low invest
- Old equipments
  
  The establishments also do testing alone and announce that their products are suitable to the fundamental standards;

  however, the formation and application of standards are still very limited.
Thanks for your attention