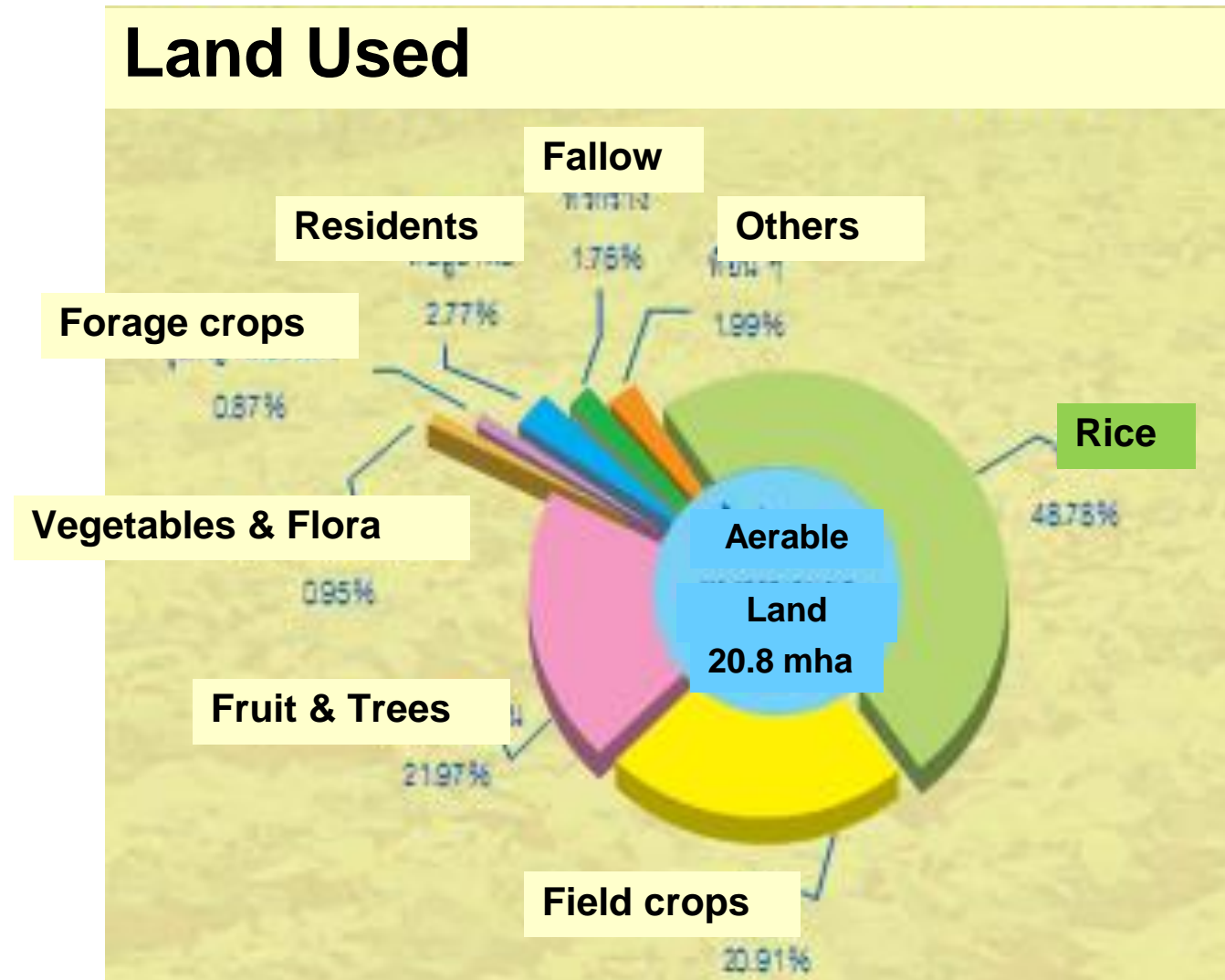


# **Situation on Breeding and Production of rice in Thailand**

**Mr. Pan Pankhao  
Plant Varieties Protection Office  
Department of Agriculture**

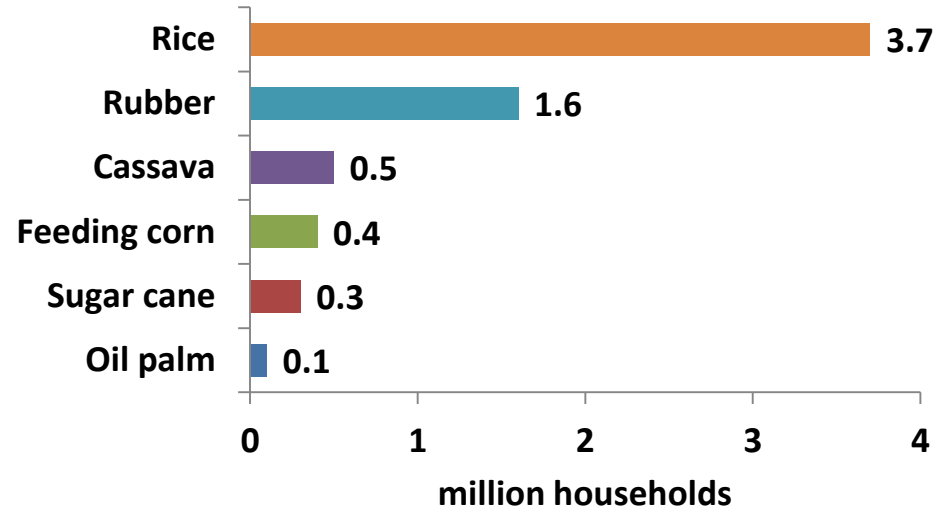
**September 30, 2014  
Hanoi, Vietnam**

# Introduction: Current status rice sector

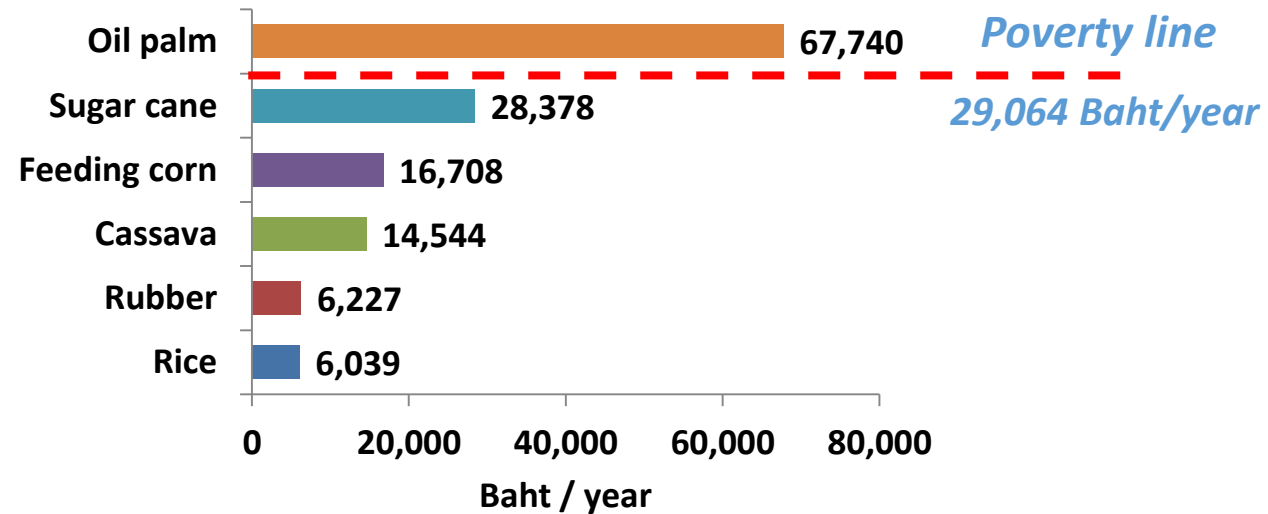


Source: Presentation by Suniyom Taprab Rice Department, MOAC 6-7 May, 2014 Kuala Lumpur

## Number of farmers growing each cash crops



## Farmers' annual income (Baht)



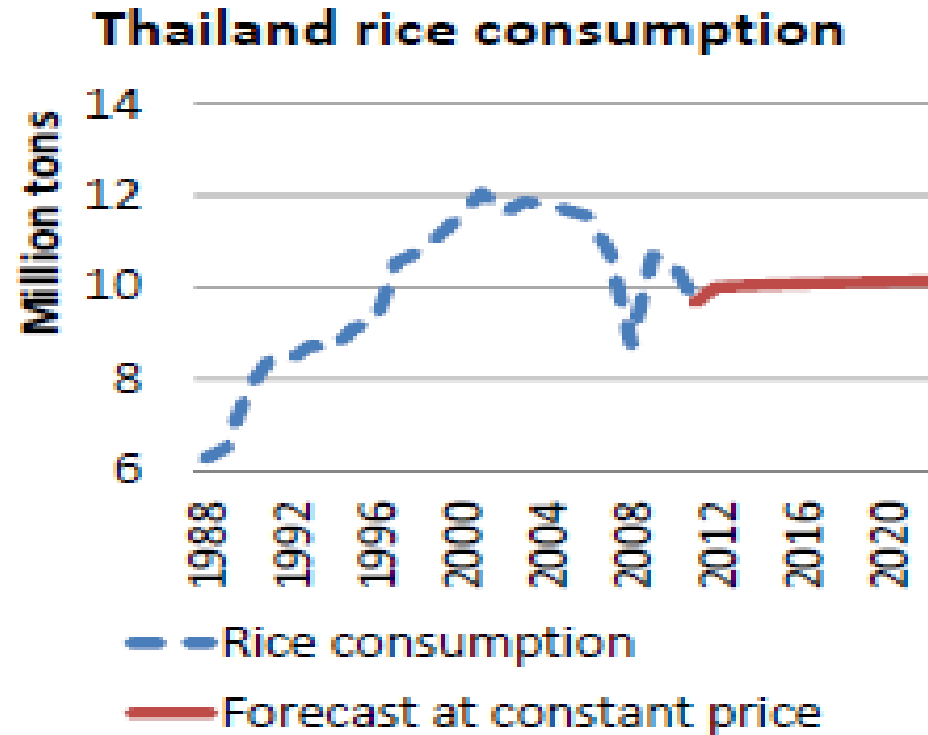
# Value of cash crops, ratio to GDP and labor employment in 2013

Cash crops	Value (million Baht)	Ratio to GDP (%)	Labor employment (million person)
Rubber	294,672	2.6	4.5 (11%)
Rice	644,875	5.7	10.7 (27%)
Cassava	79,891	0.7	1.5 (4%)
Sugar cane	109,753	1.0	0.8 (2%)
Oil palm	13,742	0.1	0.4 (1%)
<b>Total</b>	<b>1,142,934</b>	<b>10.1</b>	<b>~ 45%</b>

Source: Presentation by Suniyom Taprab Rice Department, MOAC 6-7 May, 2014 Kuala Lumpur

# Rice consumption

Thailand rice consumption in the next 10 years is increasing slowly.



Source: TDRI 2012.

[www.tdri.or.th](http://www.tdri.or.th)

# Rice Situation 2013

Number of rice farmer	16,243,000 / 3.7 million households
Total crop area (, 000 ha)	20,900
Total rice area (,000 ha)	10,400
Average rice yield (t/ha)	3.13
Rice production (million tons) - <i>paddy</i>	38.8
Rice Import (tons)	1,500
Rice Export (million tons)	6.97

Source: Presentation by Suniyom Taprab Rice Department, MOAC 6-7 May, 2014 Kuala Lumpur

# Rice Breeding in Thailand

- Rice Department
- University
- Private sector
- Farmers

# Rice Varieties in Thailand

- New plant varieties
- Registered variety
- Varieties of common knowledge



# Rice Production in Thailand

## CROPING SEASONS :

- ❑ **Wet Season (Major rice)**

**July ~ November**

**Photoperiod sensitive varieties**

- ❑ **Dry Season (Second rice)**

**January ~ May**

**Photoperiod insensitive varieties**

# Rice Production 2012-2014

<b>Total production</b>	<b>2012</b>	<b>2013</b>	<b>2014*</b>
<b>Planting area (m ha)</b>	13.29	12.97	12.88
<b>Harvesting area (m ha)</b>	12.28	12.37	12.38
<b>Total production (m tons)</b>	39.44	38.77	38.83
<b>Yield (t/ha)</b>	3.21	3.13	3.14
<b>* estimation from data of Jan-Mar 2014</b>			

# Rice Production 2012-2014

<b>Major Rice production</b>	<b>2012</b>	<b>2013</b>	<b>2014*</b>
<b>Planting area (m ha)</b>	<b>10.39</b>	<b>10.40</b>	<b>10.34</b>
<b>Harvesting area (m ha)</b>	<b>9.40</b>	<b>9.82</b>	<b>9.94</b>
<b>Total production (m tons)</b>	<b>27.2</b>	<b>28.0</b>	<b>28.6</b>
<b>Yield (t/ha)</b>	<b>2.62</b>	<b>2.69</b>	<b>2.76</b>
<b><i>* estimation from data of Jan-Mar 2014</i></b>			

# Rice Production 2012-2014

Second Rice production	2012	2013	2014*
Planting area (m ha)	2.90	2.57	2.54
Harvesting area (m ha)	2.88	2.55	2.44
Total production (m tons)	12.24	10.77	10.23
Yield (t/ha)	4.23	4.18	4.03
<i>* estimation from data of Jan-Mar 2014</i>			

# Problems

1. **>70% of rice area is in rain-fed condition, low fertile soil, inland salinity**
2. **Continuous rice growing causes outbreak of disease and insect pest, moist paddy, low grain quality**
3. **Low production efficiency -> low yield**
4. **High production cost**
5. **Insufficient good quality seeds**
6. **Value adding is not prevalent**
7. **Farmer organizations are not united, aged farmers**
8. **Inadequate researcher**

# **Rice Research Scheme of Rice Department 2011-2015**

- 1. Increase yield potential and productivity**
- 2. Stabilize yield and productivity**
- 3. Develop production technology harmonized with climate change**
- 4. Develop and continual research for commercialization**
- 5. Utilize advance technology for research**
- 6. Capacity building for food security in specific areas**
- 7. Enhance capability potential of farmers and farmer organizations**

I would like to express my appreciate thanks to

- ❑ **TDRI** (Thailand Development Research Institute)
- ❑ **DFT** (Department of Foreign Trade), Ministry of Commerce
- ❑ **OAE** (Office of Agricultural Economics), MOAC
- ❑ **DOA** (Department of Agriculture), MOAC
- ❑ **Mr.Suniyom Taprab and Rice Department, MOAC**

for very useful information and slides