



# Country Paper Thailand

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Ministry of Agriculture and Cooperatives  
Thailand**



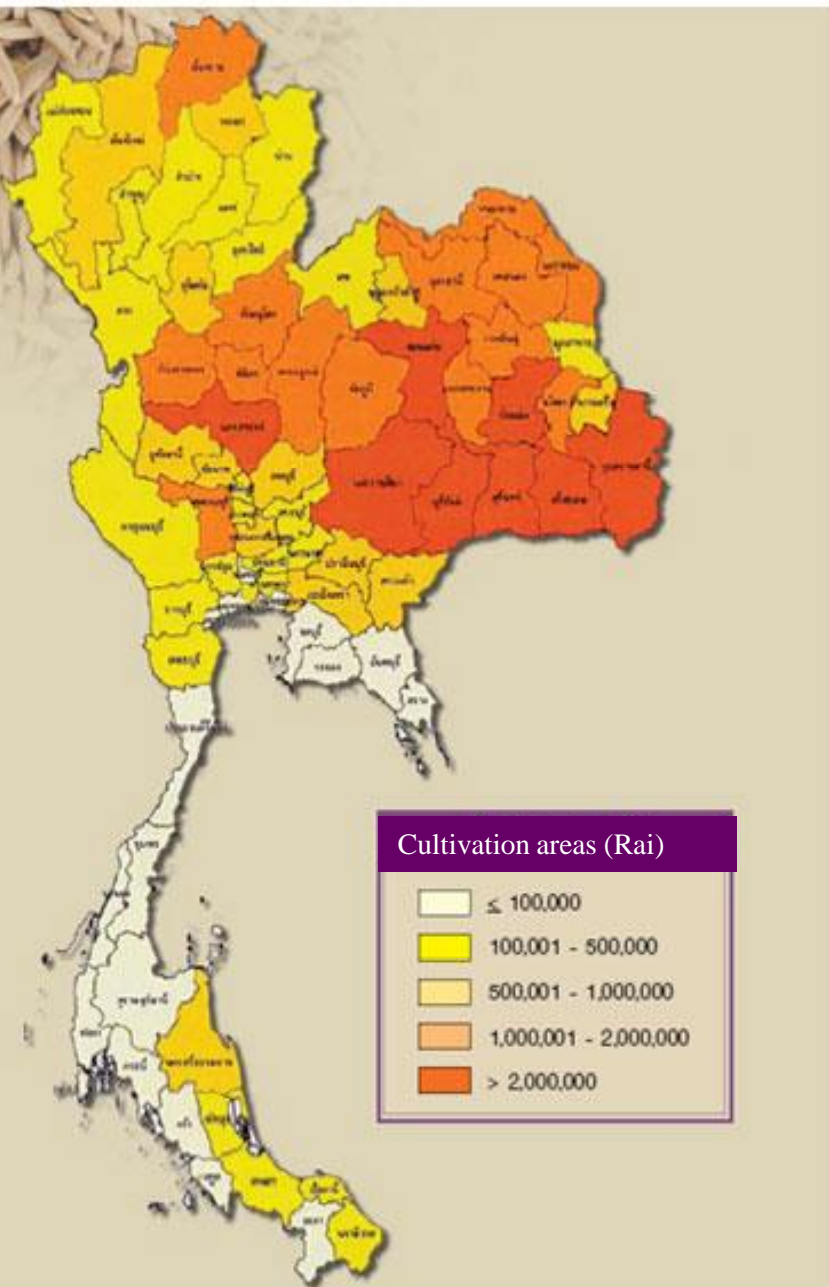
# Content

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- 1. Cultivation areas**
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# Rice Cultivation Areas

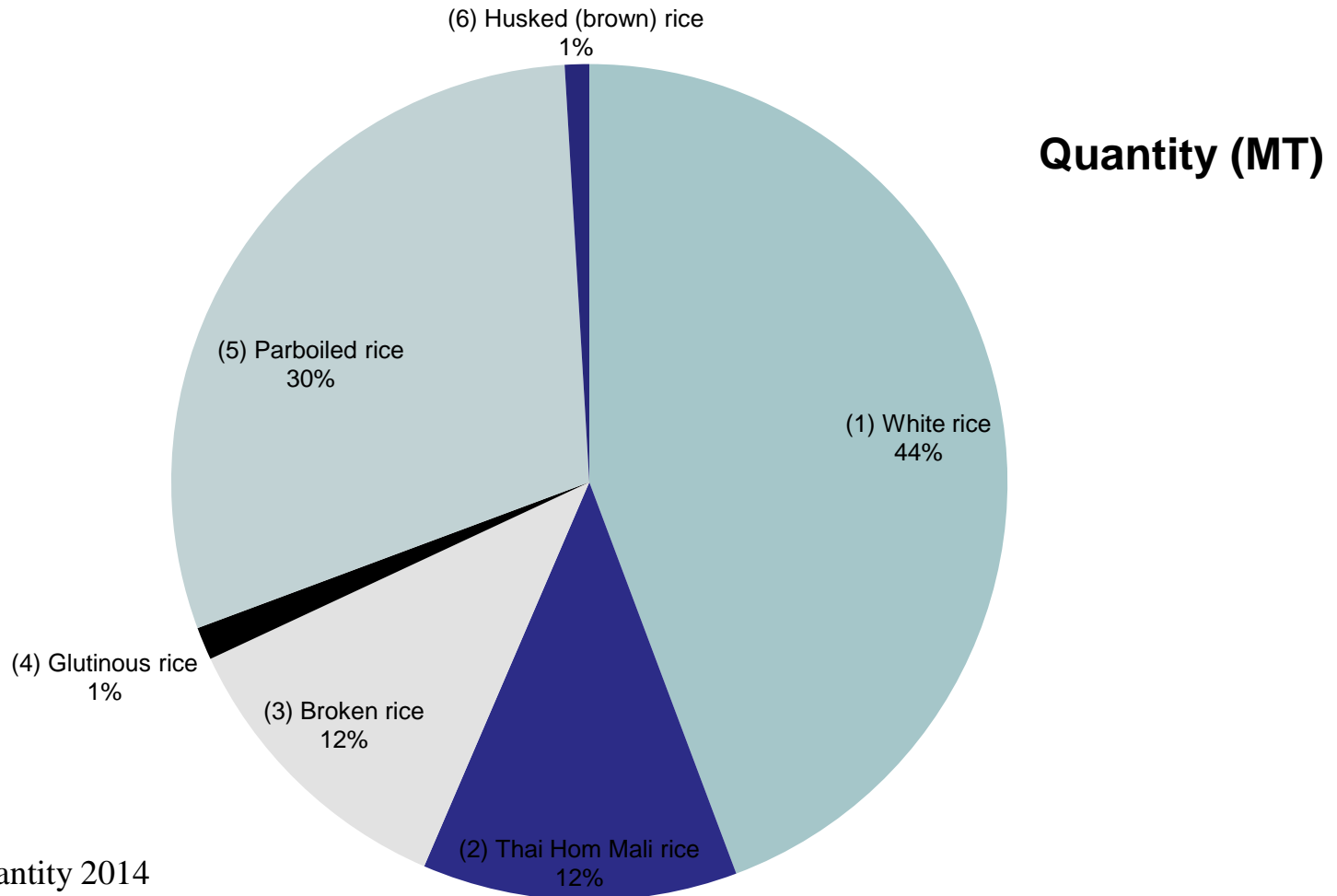
- Rice cultivation spread across rice growing areas in year 2014 was estimated at 12.3 million hectares, the in-season 80 % and the off-season 20 %
- Yields were 36.8 million tonnes (74% in season and 26 % off season).
- The northeastern part was the largest rice growing area or half of the area planted, followed by the northern, central and southern parts, respectively.
- Even though the central rice harvested areas cover only 18 %, output (total yield) was 24 % because of good irrigation.



# Import/Export Statistic

<b>Year</b>	<b>Import</b>		<b>Export</b>	
	Quantity (1,000 ton)	Value (mTHB)	Quantity (1,000 ton)	Value (m THB)
<b>2010</b>	5.35	175.00	8,939.63	168,193.06
<b>2011</b>	10.71	272.96	10,711.55	193,842.52
<b>2012</b>	26.95	362.93	6,734.43	142,976.24
<b>2013</b>	25.02	394.59	6,611.62	133,839.41
<b>2014</b>	6.97	232.05	10,969.34	174,851.09

Of the total Thai rice exported, white rice accounted for 44% followed by parboiled rice (32%), Hom Mali rice (12%), broken rice (12%), glutinous rice (1%) and brown rice (1%).



Rice Export Quantity 2014  
Thai Rice Exporters Association (2015)

# Breeding Activities

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## Rice Cultivars in Thailand

- ❑ **More than 100 rice varieties developed and released to the farmers**
- ❑ **At least 50 recommended cultivars being used, half of which are native varieties while the rest derived from hybridization**

# Breeding Activities

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## Selection criteria for varietal improvement

- **Market quality (domestic consumption or export)**
- **High yield**
- **Resistance to disease and insect pests**
- **Suitable for local climate**
- **Adaptable to climate change**

# Variety Collection

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- **There are ca 24,000 accessions collected in Gene bank of Rice Department. Most of them are traditional or local landraces.**
- **These varieties have been used for genetic resources conservation purpose and also been used for reference varieties in the DUS testing system**



# National Listing

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- **TH doesn't have the national listing system**
- **Under the Plant Act 2518, there are 45 genera listed for controlling of germination and vigor for import and distribution in the market**
- **So far, 120 rice varieties have been recommended for use and 60 varieties have been distributed in the market**

# DUS Testing System

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**Applicants have 2 choices for conducting the test :**

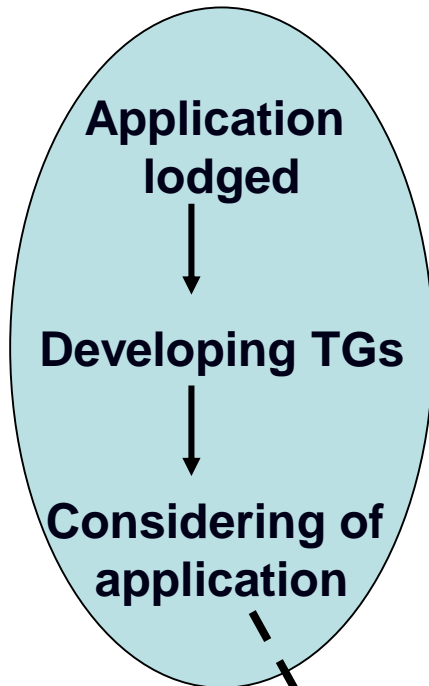
- **conduct by themselves in their own premises**
- **or to have the public institutes to conduct for them. The institutes to conduct the test would be designed by the PVPO.**

# DUS Testing System

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- **most of the applicants from private sector have conducted the test in their own premises**
- **There is a working groups of each crop (consider of draft TG, applications and do examination)**
- **Examiners, not less than 2 persons, one is from the PVPO and other should be an expert of the working group**

# Working Group



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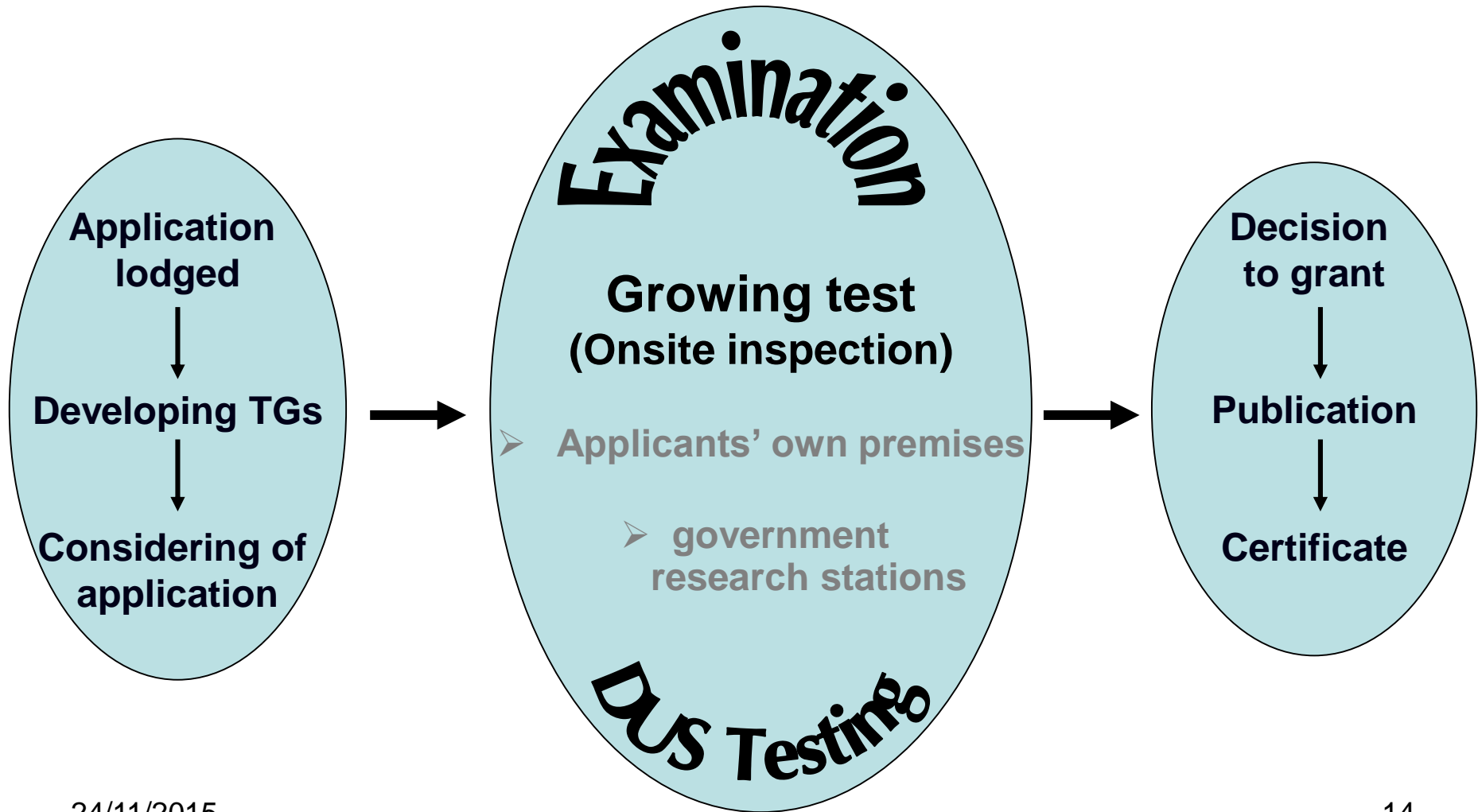
- Denomination
- Selection of similar varieties
- Breeding history
- Planning for DUS test  
(management of reference var.)

# Management of reference collection

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- **Collect as many varieties as possible from the conservation area both private and public sectors**
- **Database for references varieties**
- **The working group considers the similar variety**

# Examination



# DUS testing & examination



**The candidate variety and 2 similar varieties near by.  
Two cycles of DUS testing are required.**



## DUS testing & examination

### Lowland rice

The candidate variety and 3 similar varieties.  
Two cycles of DUS testing are required.





# Application & Registration

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- **38 applications have been applied so far as of 10/2015 (government = 30, private = 6, farmers = 2)**
- **18 varieties were registered as new varieties**



**Thank you for your  
attention**