Efforts to improve rice quality both on-farm (small holder) and down the value chain

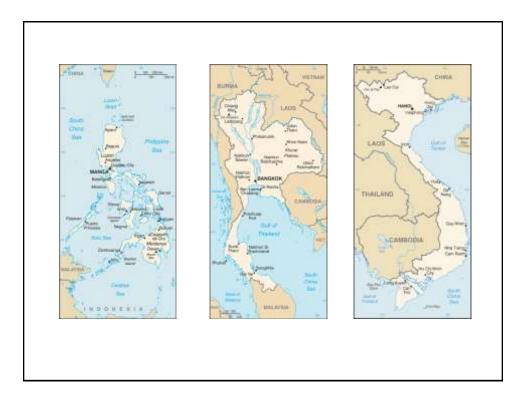
CARD Seminar via video conferencing Seminar #2 October 19, 2012

1. Summary of Rice farming in Thailand

Rice is the most important crop in Thailand The rice production policy is to produce for self-sufficiency and surplus for export.

The total cultivation area of rice production Is about 12.1 million hectares, 9.20 m ha for the main rice crop and 1.44 m ha for the second rice crop.





1. Summary of Rice farming in Thailand

Approximately 80% of rice area is under rainfed conditions where rice is usually grown only once a year in the wet season, that the monsoon rain is the single source of water supply for rice cultivation.

Another 20% of rice area is irrigated conditions where rice can be grown not only in the wet season but also in the dry season, because irrigation water supply is available. Major production comes from the wet season.

White rice6.316.2Domes. 61Export38Hom mali3.34.1Domes. 43	
rice Export 56	
Total 9.6 20.3 Domes. 58 Export 41	

2. Rice varieties produced in Thailand

Mostly of Thai rice varieties divided by amylose content :

Low amylose content ; Khao Dawk Mali 105 and

Pathumthani 1

Native varieties

High amylose content; Chainat 1

Phitsanulok 2

RD6

Native varieties

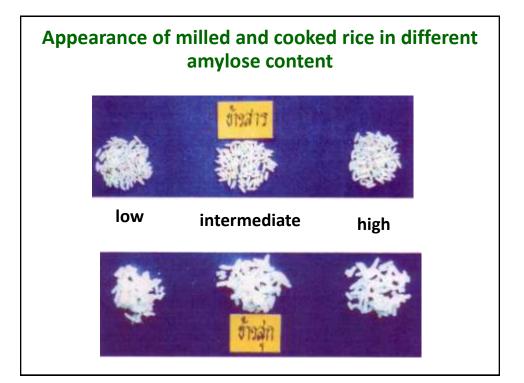
✤ Glutinous rice ;

Native varities

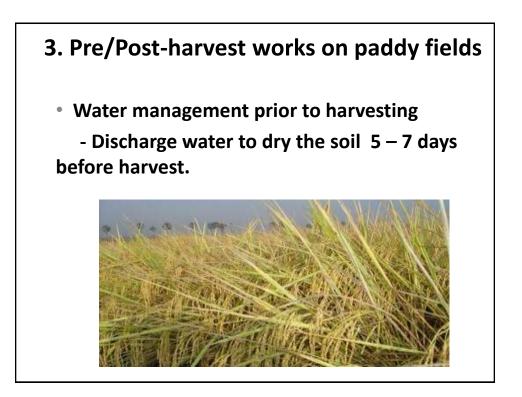
2. Rice varieties produced in Thailand

- This is the typical of Thai rice, both Hom Mali rice and White rice.
- Hom Mali rice, main usage is table rice.
- White rice, main usage is table rice and rice product.









3. Pre/Post-harvest works at paddy field (cont)

Harvesting

- When to start harvesting

It is essential to harvest the crop on time, both early and late harvest are detrimental to the grain yield and milling of rice. The harvesting date is about 4 weeks after flowering date.

3. Pre/Post-harvest works at paddy field (cont)

- Is machine used for harvesting?

The mechanized harvesting has begun to develop during recent years, because of farm labor shortages at harvesting time, especially where the crop is produced not for self-consumption but rather for commercial purpose



3. Pre/Post-harvest works at paddy field (cont)

Manual harvesting

The manual harvesting, rice stems are cut by sickle and tighted into small bundles, placed on the top of stubble for sun drying about 1-7 days before threshing



3. Pre/Post-harvest works at paddy field (cont)

Nevertheless, the farmer in the South cut individual panicles by knife instead of sickle. The small bundles of individual cut panicles are also sun dried by their farm







3. Pre/Post-harvest works at paddy field(cont.)

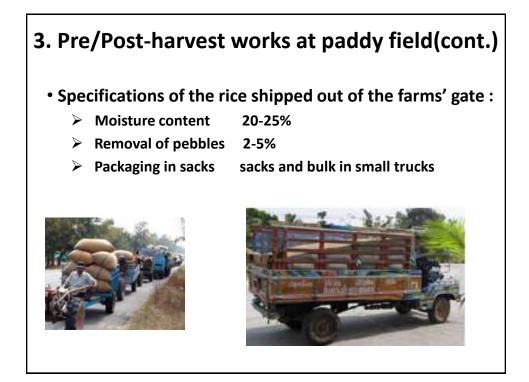
Mechanical drying

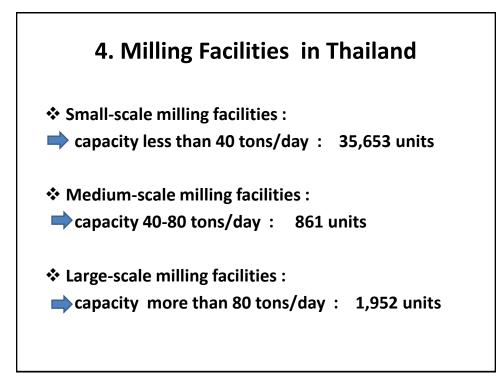
The alternative to sun-drying is mechanical drying, which uses mechanical equipment for holding the paddy, blowing air through the grain mass and heating air.



Mostly of dryers belong to medium/large company.









4. Milling Facilities in Thailand

• Transport to the milling station Transported by farmers and brokers







