AGRICULTURAL MECHANIZATION DEVELOPMENT IN THAILAND

Viboon Thepent

SENIOR AGRICULTURAL ENGINEERING SPECIALIST

AGRICULTURAL ENGINEERING RESEARCH INSTITUTE (AERI)
DEPARTMENT OF AGRICULTURE (DOA)
MINISTRY OF AGRICULTURAL AND COOPERATIVE (MOAC)
THAILAND
October 2013

Thailand is an agricultural country Approximately 21 million

ha or 40.9% of the total area is used for agricultural production.



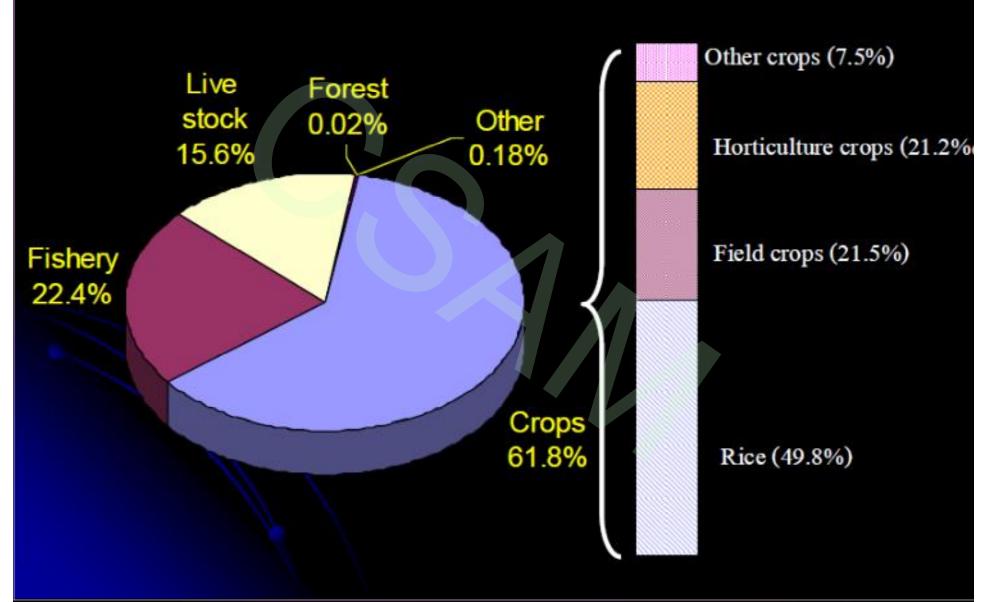
Location: Thailand is located in the
center of peninsular Southeast
Asia. Myanmar is to the west,
Laos to the north and east,
Cambodia to the southeast,
and Malaysia to the south.
The south coast of Thailand
faces the Gulf of Thailand.

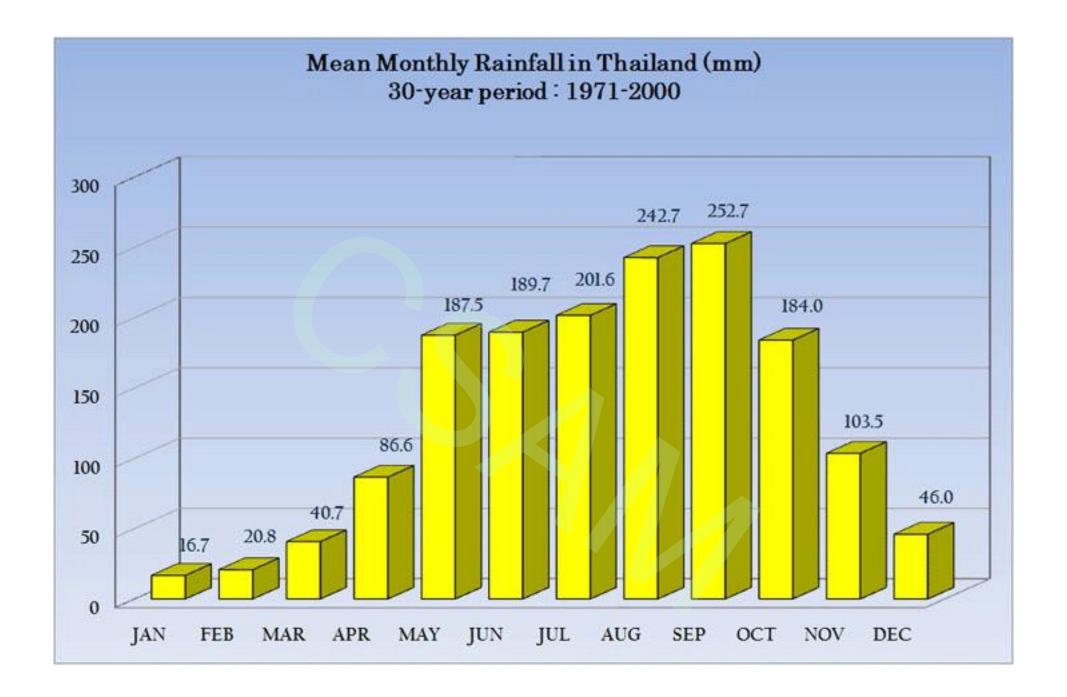
Size Total of 514,000 square kilometers (51.4 million ha)

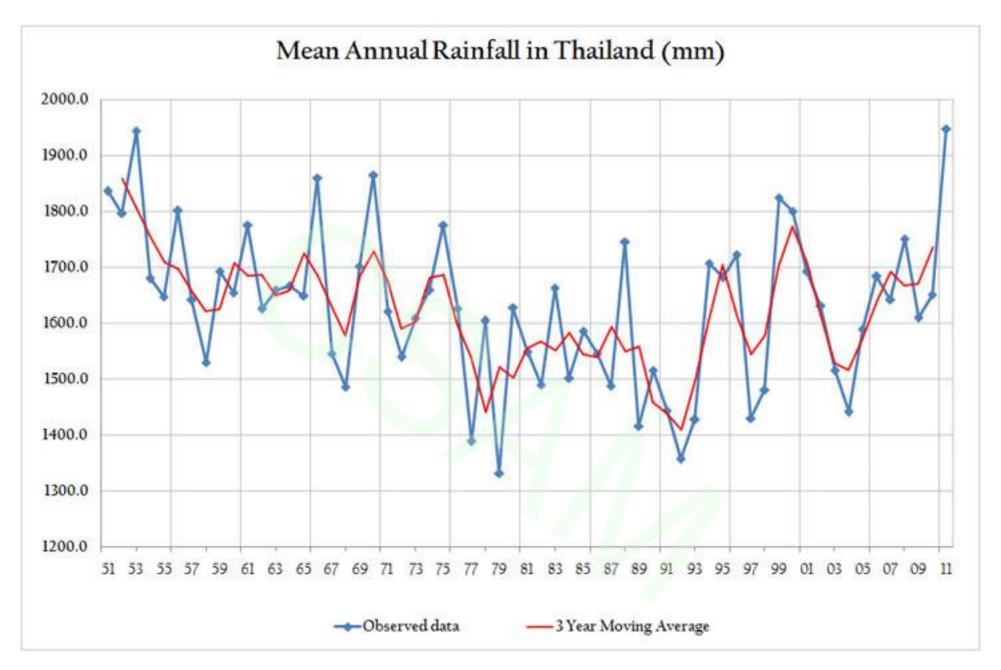


- 46.6% of population engage in agricultural sector.
- The world largest rice exporter
- Income 10.1% of GNP









Mean annual rainfall in Thailand from 1951 to 2011



Total population in Thailand during the last 50 years.

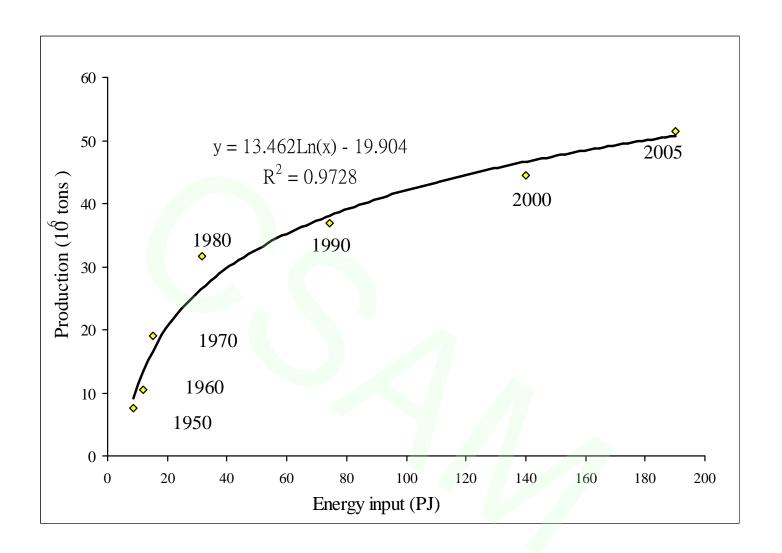
Thailand is a newly industrialized country. Its economy is heavily export-dependent, with exports accounting for more than two thirds of its GDP.

In 2012, Thailand had a GDP of THB11.375 trillion (US\$366 billion). Per-capita GDP was \$5,390. Thailand's agricultural sector produces 8.4 percent of the GDP.

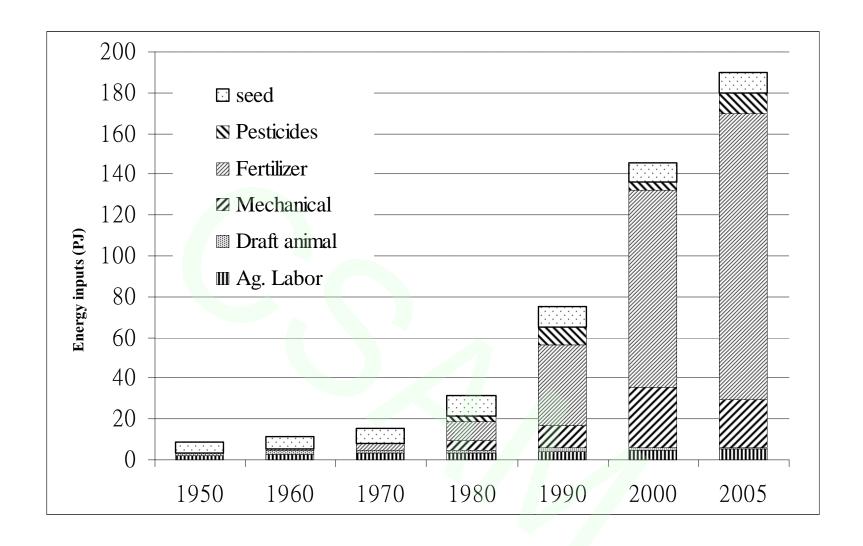
The Thai economy grew by 6.5 percent, inflation rate of 3.02 percent. In 2013, the Thai economy is expected to grow in the range of 3.8-4.3 percent.

Major crops: Rice, maize, sugarcane, soybean, cassava, rubber, horticulture crops, oil palm





Relationship between energy input and crop production in Thailand during 1950-2005



Contribution of different energy inputs in crop production in Thailand during 1950-2005

Thailand has developed it's own range of agricultural machinery and agricultural equipment to suit the special needs and pockets of it's mainly agrarian population. Rice production is the foremost user of this equipment.

Planting machinery, Rice threshers, tractors and walking ploughs and nowadays machines that help with the cultivation, caring and harvesting of other crops such as fruit, rubber and cassava.

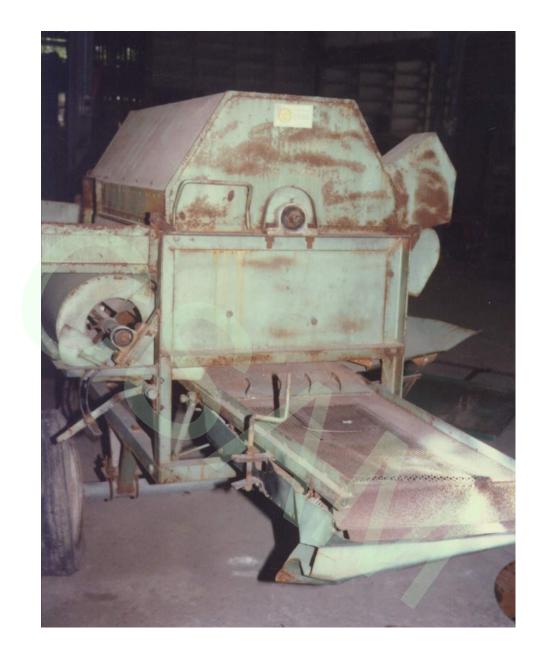




Track tractor 175 Hp



2000- Rotary cultivator



1973 -IRRI Thresher

Page 17 of 29



Thai thresher in Agrimach Exhibition



Maize combine harvester



Exhibition in Khon Kean province 2013







Regional Forum 2013 (un-csam.org)

Page 23 of 29



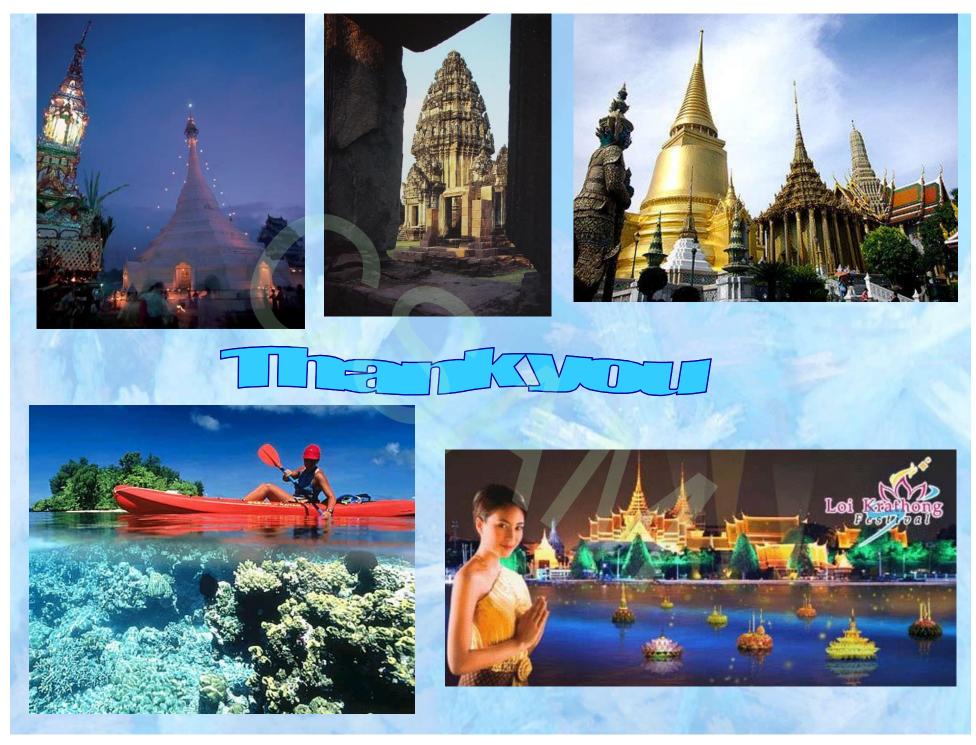


Regional Forum 2013 (un-csam.org)









Regional Forum 2013 (un-csam.org)