

South-south cooperation in West Africa : Thailand

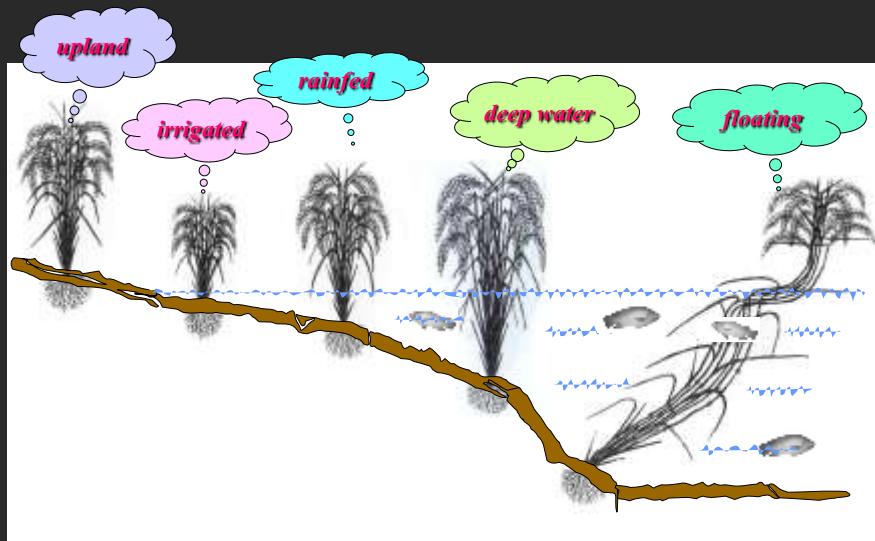
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Geography and ecology of Thailand rice area



Deep water 0.5-1.2 m.



Rainfed low land < 0.5 m.

Floating 1.0-2.0 m.



Irrigated area 5-30 cm.



Upland rice



How can we increase rice yield ?

- improved variety 10-15%
- **land preparation 10-20%**
- protection from pests 20-30%
- **fertilizer 15-20%**

How can we increase rice yield ?

- improved variety 10-15%

Rice Department work for 67 years
released new varieties from 1969-2012
about 120 improved varieties

increase rice yield

from 10 to 30 million tons/year

Average rice yield

non-photosensitive varieties

about 4.7 tons/hectare (7.8)

photosensitive varieties

about 2.8 tons/hectare (3.9)

How can we increase rice yield ?

- protection from pests 20-30%

Weeds

- upland rice broadcast, sow dry seeds

- pre-germinated seed broadcasting

How can we increase rice yield ?

- fertilizer 15-20%

Respond to nitrogen fertilizer

non-photosensitive variety

traditional variety

How can we increase rice yield ?

Crop intensity in Thailand

in some area : central plain

5 crops in 2 years = 2.5 crop/year

120, 120, 60 = 300 days

There are 65 days left.

Land preparation for each crop is 20-30 days

How can West Africa increase rice yield ?

The problem of rice production in Senegal

Crop intensity

The rainy season crop

June-September

The dry season crop

March-June

How can West Africa increase rice yield ?

The problem of rice production in Senegal

Crop intensity

**Overlapping cause some area
can not grow two crops.**

How can West Africa increase rice yield ?

The problem of rice production in Senegal

Crop intensity

Suggestions :

- grow the dry season crop earlier

February-May

How can West Africa increase rice yield ?

The problem of rice production in Senegal

Crop intensity

Suggestions :

- Delay growing in wet season crop

July-October

How can West Africa increase rice yield ?

The problem of rice production in Senegal

Crop intensity

Suggestions :

- use the 95-110 days varieties

How can West Africa increase rice yield ?

Rice production of West and Central Africa

Alternative suggestions :

-land preparation

small or big tractor 1-5 hectare/day

-harvesting

combined tractor 5 hectares/day

-method of planting : **transplanting**

Using proper equipment

pre-germinated seed broadcasting



1 hectare/hour

Using proper machine transplanting seedling



2-3 hectare/day

Using proper machine land preparation



2-3 hectares/day

Using proper machine combined harvester



3-5 hectares/day

Areas of Cooperation Thailand has provided to Africa

- Rice Production
- Sufficiency Economy
- Integrated Farming
- Agricultural Extension

Technical Cooperation Thailand provides to Africa

- Training/ Study Visits in Thailand
 - Third Countries Training Programme (TCTP) on
 - Enhancing Women's Role in Rural Development
 - Training of Trainers (TOT) on Agricultural Extension and Development for Africa
 - Advanced Freshwater Aquaculture
 - High-level Officials from Africa visiting Thailand
 - Thai Experts Dispatches

Thailand's Technical Cooperation to African Countries

- Rice Production
 - Training on Rice Production International for Senegal (Aug- Sept 2007)
 - Training/study visit on Rice Production for Mozambique and Sudan

Thailand's Technical Cooperation to African Countries

- **Agriculture Extension/ Integrated Farming**
 - Study visit on Agriculture for Botswana, Senegal
 - Sustainable Agricultural development Project in Lesotho
 - Buakeaw Roundtable International for high-level officials from African countries
 - Study visit on Sufficiency Economy for high-level officials from African countries