



中国农业科学院  
CHINESE ACADEMY OF AGRICULTURAL SCIENCES



มหาวิทยาลัยสุโขทัยธรรมมาธิราช  
Sukhothai Thammathirat Open University

## Organic Rice in Thailand



# The Evaluation Management of Organic Rice Production by Farmers in Yasothon Province, Thailand

By  
Nalun Panpluem & Changbin Yin



# Agenda

- **Introduction**
- **Scope of Study**
- **Methodology**
- **The General Conditions of Farm Operations of Certified Organic Rice Producers**
- **Main Conclusions**

# Introduction



- Rice farming plays a significant role in Thailand's economic, social and cultural norms.
- Majority of the workforce involved in agriculture are engaged in rice farming in Thailand.
- World's 6th largest rice producer and the single largest exporter.
- Organic agriculture in Thailand has expanded by 21% in 2017 of which organic rice production comprise 28% and other integrated farming by 128%.
- Largest organic rice cultivations are conducted in Northeast region (Yasothon province).

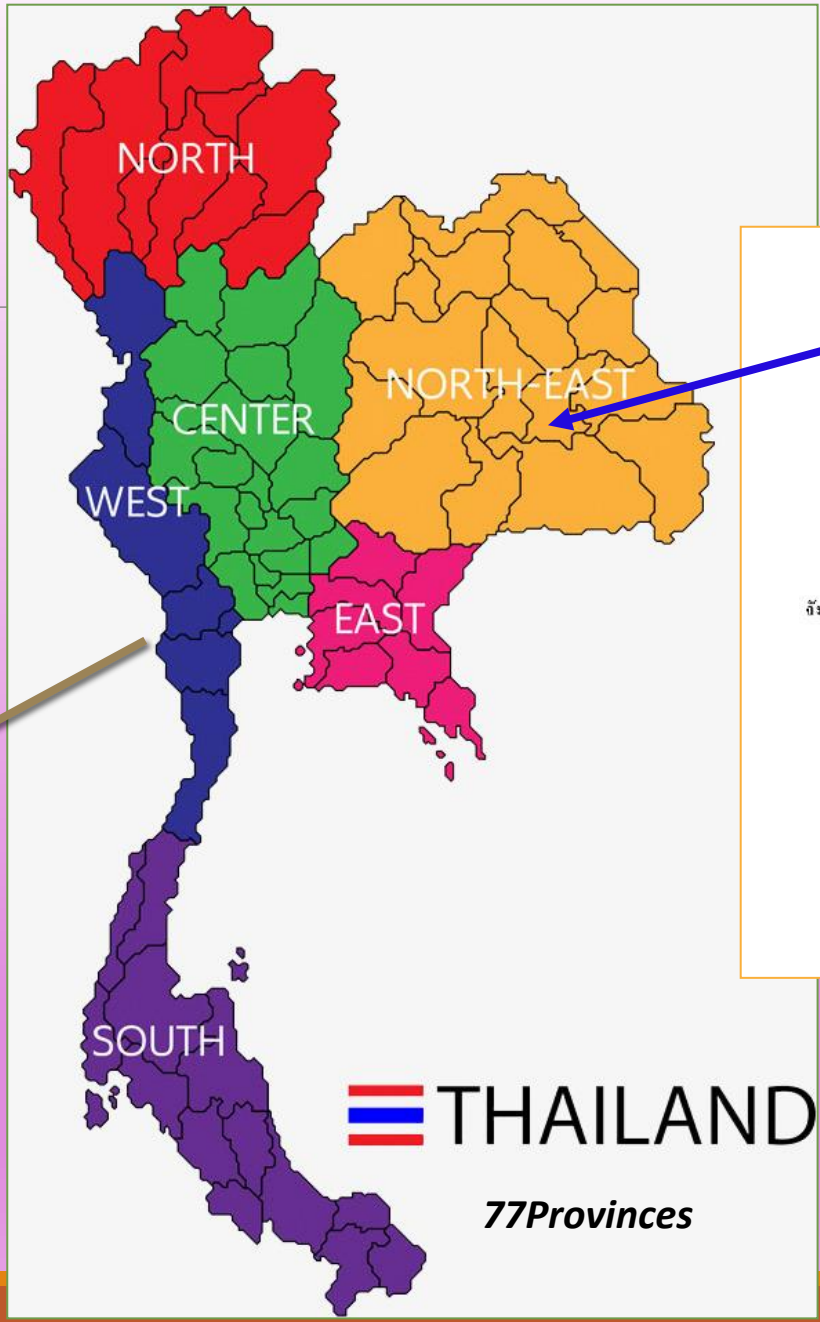
# Background



## Problems in Thai rice production

- ❖ Trade barriers
  - Tax measures for high import tariffs
  - Non-tariff measures such as quota restriction and strict residue monitoring
- ❖ Lack of finance causes the buyer to not pre-order
- ❖ The export competition with other countries such as Vietnam, India and Pakistan





# Government policy of Thailand

## ➤ *Yasothon the first model of organic agriculture*

❖ The Twelfth National Economic and Social Development Plan in 2017-2021 of Thailand "Organic Agriculture City "

❖ Minister of Agriculture and Cooperatives and Yasothon Governor Signed MOU to Build "Yasothon Model" as Organic Farming Province to World Market Targeted areas nationwide. Minimum increase should not be less than 10%

❖ Yasothon is expected to be able to develop into an organic farming system, from 40,000 rai to 100,000 rai in 2017.

**Key words**



Thailand has 224,550.56 ha of organic farmland (2023). The target was set to increase organic farmland to 320,000 ha in 2027 under the Organic Farming Action Plan 2023-2027.



# Proposed Resolving

- When organic rice grows, does the amount of export increase?
- What are the crucial factors that affect the development of model system of organic farming in Thailand?
- Re-evaluation of Yasothon Model in focused area







## Research Aims

- I. To study the general conditions of farm operations of certified organic rice producers
- II. To study about costs and return of organic rice production

## Methodology

- The general conditions of operation: In-depth interview, Focus Group Discussion, Questionnaires and Observation

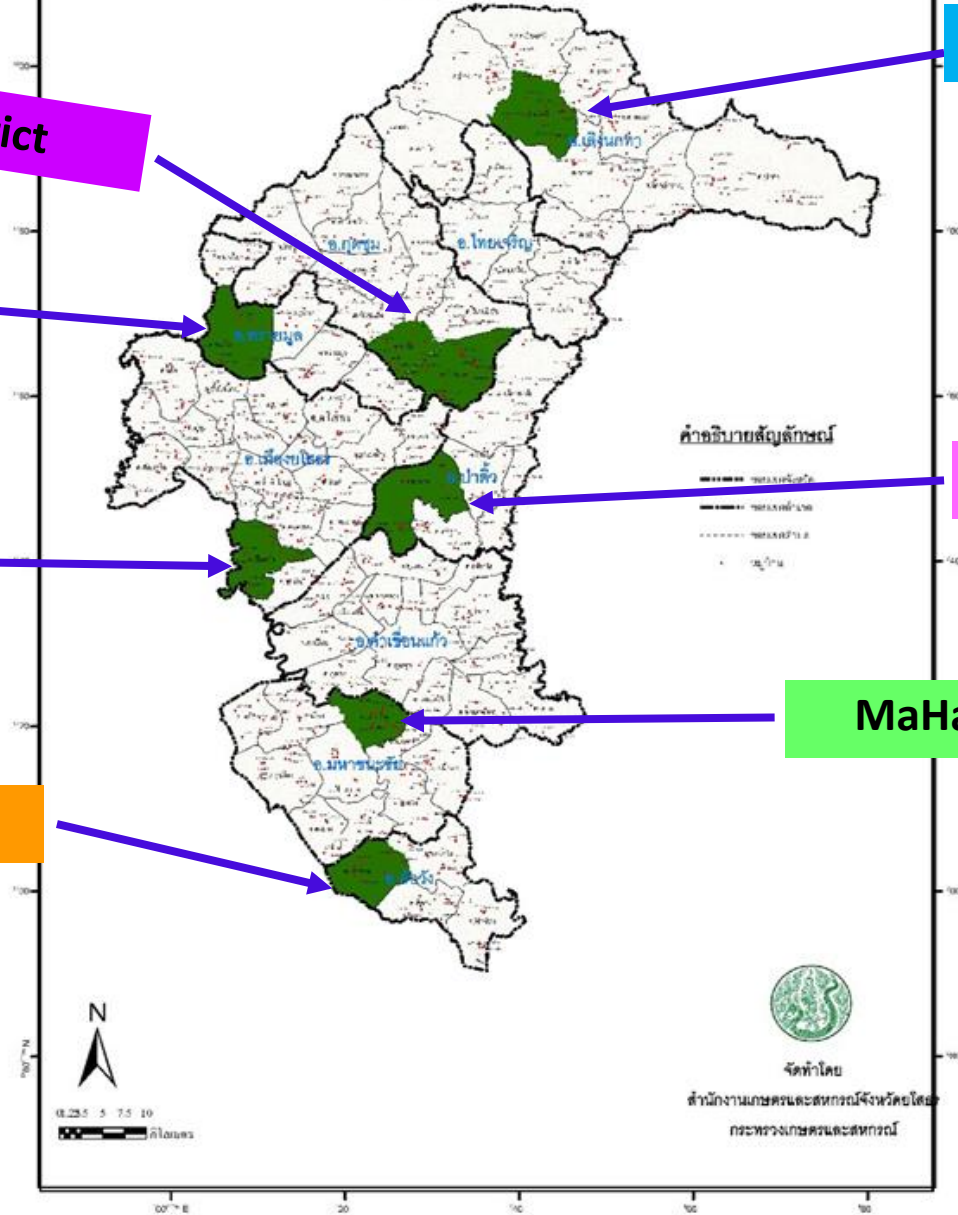
## Scope of study

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- ❖ **Data:** Study of social and economic conditions of organic rice farming and organic rice export market
- ❖ **Area:** Yasothon province in Thailand
- ❖ **Time:** 8 months ~1 year
- ❖ **Sample:** Certified organic rice Farmer groups in Yasothon province of Thailand



# Map of organic rice producer groups



Loei Nok Tha District

Kut Chum District

Sai Moon District

Pa Tiew District

Muang District

MaHaChaNaChai District

Kor Wang District

Number of members 11 groups  
1,811 person and area 2,488.48 ha

(Yasothon Provincial Office, 2018)

# RESULTS



## Descriptive Statistics of Farm Operations

By interviewing 328 samples of organic rice producers in Yasothon province, the following information was collected;

- ❖ Part 1: Basic social and economic conditions of farmers
- ❖ Part 2: Costs and benefits for organic rice production
- ❖ Part 3: Various problems in the production and distribution of organic rice in 2017-2018
- ❖ Part 4: Information on health and environmental impacts



## Some basic social conditions of farmers

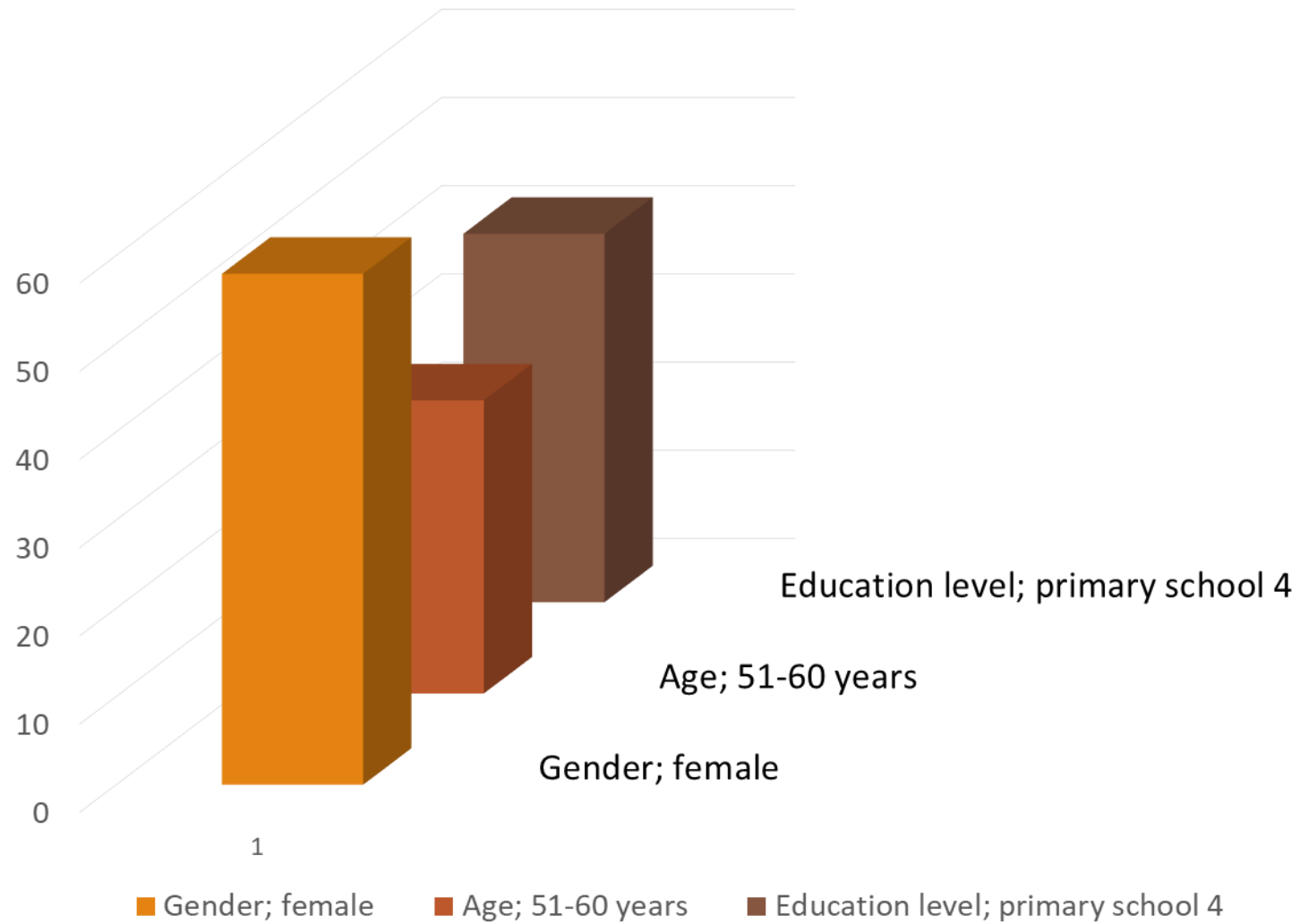


Table 1. Some basic economic conditions of farmers

Issues	Organic rice farmers	
	Frequency	Percentage
<b>Household size</b> 3-4 people	108	32.93
<b>Experience in farming</b> 21-30 years	106	32.32
<b>Experience in organic rice production</b> More than 7 years old	173	52.74
<b>Secondary occupation</b> * none	180	54.88
<b>Farm size</b> 0.96-1.60 ha	<b>85</b>	<b>25.91</b>
<b>Balance between income and expenditure</b> Most of the remaining income is paid	195	59.45
<b>Source of found</b> Self-finance	323	98.48
<b>Self-finance (n = 323)</b> Less than 20,000 baht per year	199	61.61
<b>Mean</b>	21,531.46	
<b>Regular workers (n = 321)</b> 1-2 person	<b>303</b>	<b>94.39</b>
<b>Mean</b>	1.72	
<b>Receiving agricultural knowledge news</b> almost everyday	194	59.15
<b>Receiving help from government officials</b> Was assisted infrequently	279	85.06

**Part 2****Table 3. Cost and Return from organic rice production planting year  
2017-2018**

<b>List</b>	<b>Amount of input</b>
Yield (kg/ha)	2,011.98
Paddy Price (baht/kg)	14.77
Total Revenue (baht/ha)	29,716.94
Average Total Cost (baht/ha)	4,329.32
Average Net profit (baht/ha)	25,387.62
Average Net Revenue (baht/ha)	26,929.00
Net Revenue Overhead Variable Cash Cost (baht/ha)	643.81
Average Break-even yield	293.12
Break-even price (baht/kg)	2.15

**Part 3****Table 4. Various problems in the planting cycle and the sale of organic rice (2017-2018)**

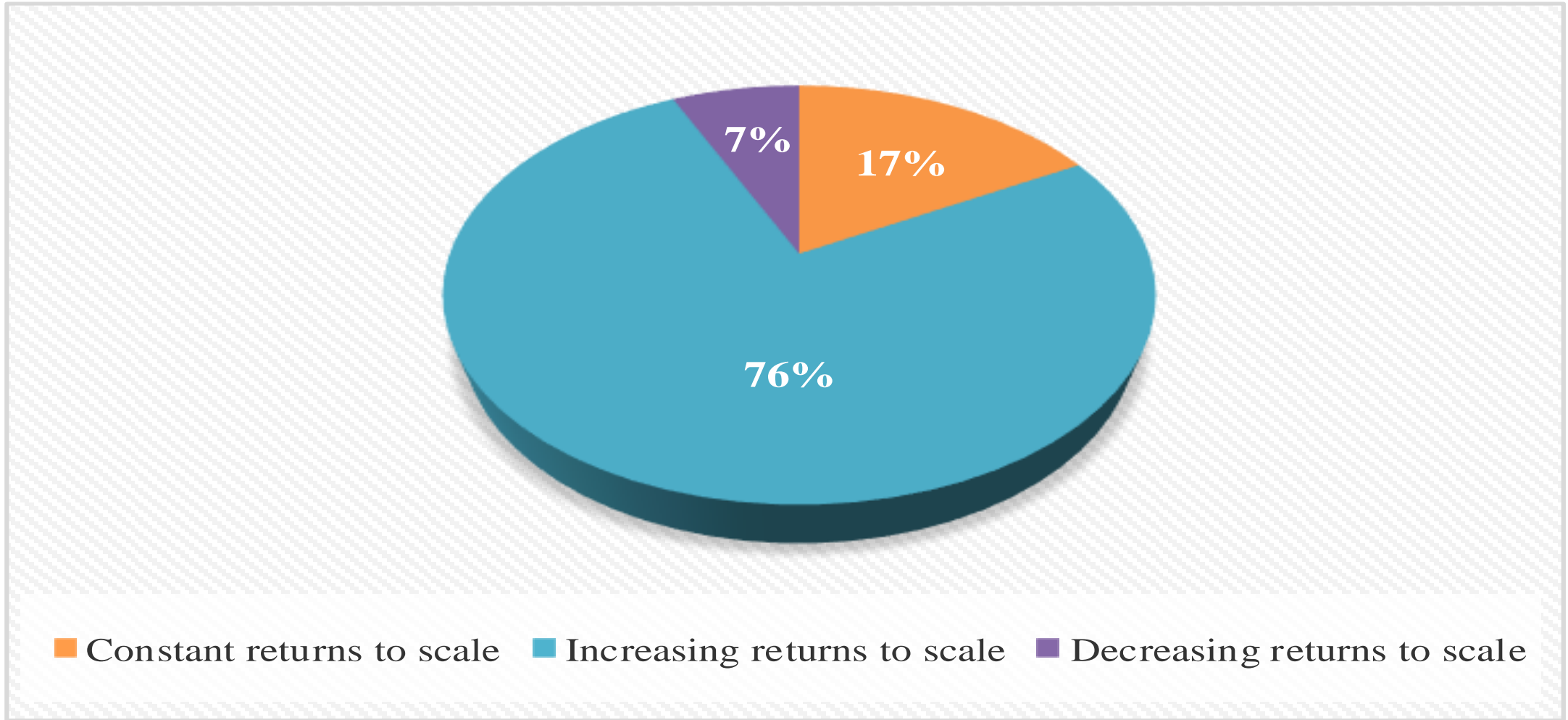
issue	Organic rice farmers	
	Frequency	Percentage
<b>Production problems *</b>		
Face problems	280	85.37
Uncertain weather conditions	280	100
<b>Production cost problems *</b>		
Face problems	189	57.62
High wages	189	100
<b>Marketing issues *</b>		
none	182	55.49

Note: \* Farmers can choose more than one item



**Part 4****Table 5. Health and environmental impacts data**

<b>Issues</b>	<b>Organic rice farmers</b>	
	<b>Frequency</b>	<b>Percentage</b>
<b>Soil condition problems</b>		
none	325	99.09
<b>Water source problems</b>		
none	185	56.41
<b>Symptoms of chemical allergies</b>		
Never had symptoms	326	99.39



**Figure 2: The returns to scale of certified organic rice producing farms in Yasothon province**

# Conduct Focus group

## Upstream

### Contact farming

- NaSoe
  - NonYang
  - Chawna Khunnatham Community Enterprise
  - KhomKhorTa
  - BakReux
  - Project Group, Bank for Agriculture and Agricultural Cooperative
  - KaowKhunNaTham
  - NamOm\*
- 72.73%**

### Independent farmers group

- NongYo
  - LoengNokTha (PGS)
  - TanRak (Adjustment period)
- 27.27%**

## Middle stream

### Mill of farmers group Collectors of groups and exporters

- Green Net Cooperative Ltd. (2)
  - MorKeaw (1)
  - The Red Bull Beverage Co., Ltd. (1)
- 100%(21.82+19.09)=40.91

### Mill exporter/contractors

- Rai Thong Organic Farm Co. Ltd. (1)
  - Ban TonKaow Organic Farm Co., Ltd. (3)
  - Yasothon Organic Co., Ltd.\*\*
- 50%(36.37)

### General Mills / Others

(Ordinary rice)  
50%(14.55+8.18)=22.73

## Downstream

Export  
70%

99% Jasmine rice

Europe, USA\*, Singapore

Domestic  
30%

Tops supermarket, Lemon Farm, Hotel, Restaurant, School, Consumers in upcountry, Factory / Establishment, Dharma Practice Center

General rice  
-Export  
-Domestic

30% (21.82)

50% (36.37)

20% (14.55)

70% (19.09)

30% (8.18)

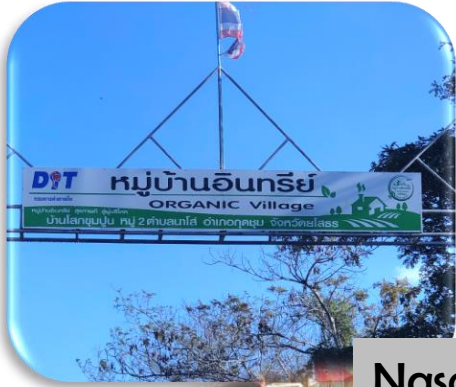
70% (28.63)

30% (12.27)

100% (36.37)

100% (22.73)

# Farmer/Producer (farmers group leader)



Nasoe



NongYo



Khunka Chawna Khunnatham



NonYang



Khunka Chawna Khunnatham,  
Community Enterprise

Farmer/Producer (farmers group leader)



Project Group,  
Bank for Agriculture and Agricultural Cooperatives



Bakreux



NamOm



KhamKhorTa

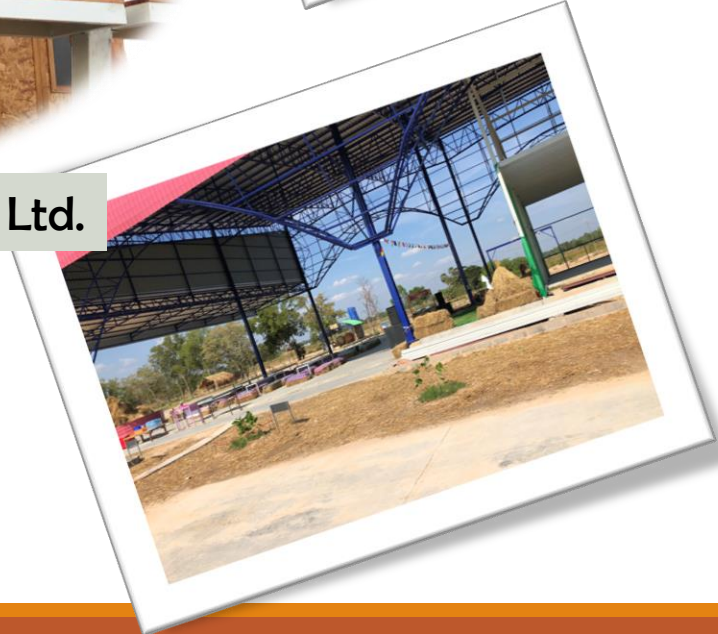


TanRak

# Collector/ Processors



Yasothon Organic Co., Ltd.



# Exporter



Rai Thong Organic Farm Co. Ltd.



Top Organic Products and Supply Co. Ltd.



Green Net Cooperative Ltd.



# Conducted In-depth interview with Stakeholder



Member of the farmer group



Deputy Governor



farmer sage



Standard Auditor (ACT)



# Guidelines for driving the organic rice production system of Yasothon Province



29 January 2019

At the conference room, PraSom Yasothon City Hall



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# Thank you



*Any questions and suggestions are warmly welcomed*



**ORGANIC  
IS BETTER**

ORGANIC SOAP EXPLAINER