

# Organic Sericulture in Thailand : Current State and Future Developments



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# Presentation Outline

Background – importance, principles

World situation- production, marketing

Thai organic sericulture- standard, principles ,  
situation

Future direction

# 1. Background

In the past, developing countries focused on industrial production and trade. Allow the farmers to agricultural monoculture. And agricultural chemicals that used chemicals more than necessary. Impact on global warming. As a result, farmers are aware of the problem. This organic agricultural, it is a potential for the development of sustainable agriculture.



# The Definition of Organic Agriculture

- ❖ International Federation of Organic Agriculture Movements
- ❖ Ministry of Agriculture and Cooperatives has announced standards for agricultural products.



# The Importance of Organic Agriculture



- ❖ Awareness of the health of consumers.
- ❖ Awareness of the environmental.
- ❖ Awareness of the finding alternatives farming to avoid from the cycles of chemicals agriculture.
- ❖ Organic Agriculture is the production system that considered about the environment.



# Organic Agricultural Principles



INTERNATIONAL FEDERATION OF  
ORGANIC AGRICULTURE MOVEMENTS

IFOAM, specify principles the importance of organic agricultural production in 4 principles are followings ;

- ❖ Health
- ❖ Ecology
- ❖ Fairness
- ❖ Care





# 2. World's Organic Agricultural Situation



## 2.1 Production

Table 1 : Organic agriculture areas in the world in 2011

Country	Organic Agricultural area (Rai)	Ratio organic agricultural areas on the agricultural areas of the country (Percentage)
<b>Top 15, the country has a largest organic agricultural area.</b>		
1. Australia	75,010,775	2.93
2. Argentina	23,725,850	2.70
3. United States of America	12,180,915	0.60
4. China	11,875,000	0.36
5. Spain	10,136,865	6.52
6. Italy	6,855,557	8.61
7. India	6,776,663	0.60
8. Germany	6,347,663	6.01
9. France	6,064,631	3.55
10. Uruguay	5,818,531	6.29



Table 1 : Organic agriculture areas in the world in 2011 (continue)

11. Canada	5,257,600	1.24
12. Brazil	4,293,998	0.27
13. England	3,990,800	3.60
14. Poland	3,808,825	3.94
15. Austria	3,390,956	19.65
<b>Countries in Asia</b>		
42. Philippines	601,980	0.81
44. Indonesia	461,716	0.14
55. Thailand	217,683	0.18
<b>Total (156 countries)</b>	<b>232,785,535</b>	<b>0.86</b>

Ref : The World of Organic Agriculture 2013



## 2.2 Marketing

Value of organic agriculture products in the world market in 2011 reached 1.88 trillion baht. Increased by an average of 10 percent per year.

1. North America market with value 0.94 trillion baht. Market share is 50 percent.

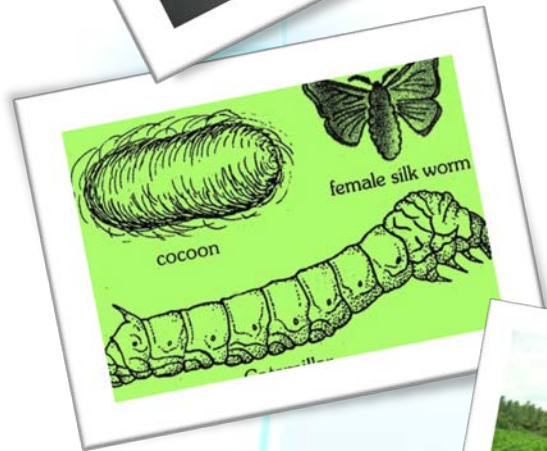
2. Europe market with value 0.86 trillion baht. Market share is 46 percent.

3. Asian and other market with value 0.07 trillion baht.



# 3. Organic Sericulture in Thailand

- 3.1 Background : Type of Sericulture Business in Thailand
  - 1. Mulberry leaf production
  - 2. Cocoon production group
  - 3. Silk yarn production
  - 4. Silk fabric production



## 3.2 Organic Sericulture Standards

### ❖ Mulberry

#### Domestic standard

1. Organic Thailand Standard certified by department of Agriculture, Ministry of Agriculture and Cooperatives.

2. Organic Standard certified by Organic Agriculture Certification Thailand (ACT)

#### International standard

1. Organic standard certified by IFOAM

2. Organic standard certified by USDA





## ❖ Silk Yarns/Silk Fabrics

- Global Organic Textile Standard (GOTS)
  - (1) Label – grade 1 : “ Organic”
    - $\geq 95$  % certified organic fibers,
    - $\leq 5$  % non-organic natural or synthetic fibers
  - (2) Label–grade 2 :“ made with X % Organic”
    - $\geq 70$  % certified organic fibers,
    - $\leq 30$  % non-organic fiber but a maximum of 10% synthetic fibers



## 3.3 Development of organic Silk Yarns/ Fabrics production

- ❖ The initiation Phase
- ❖ The Expansion Phase



## 3.4 The Principle of Organic Sericulture Production in Thailand

### ❖ Organic Mulberry Planting

1.1 Land selection

1.2 Variety of Mulberry

1.3 Soil Improvement

1.4 Prevention and Control of Disease, Insect and Weed

1.5 Protection of Contamination

1.6 Packaging and Transportation





❖ Organic Silkworm Rearing

1. Rearing house
2. Silkworm Rearing
3. Prevention and Control of Disease and insect



❖ Silk Cocoon and Silk Reeling

1. Silk Cocoon Management
2. Process of Silk reeling



❖ Silk Fabrics

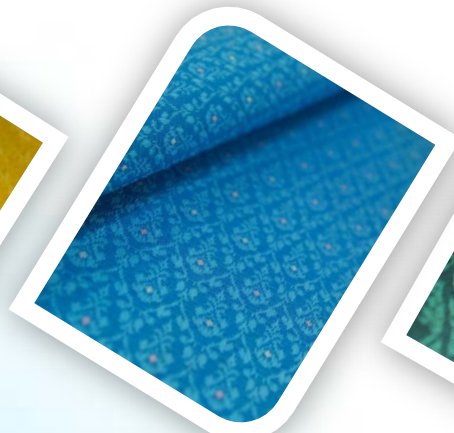
1. Silk Bleaching, Dyeing, and Printing

❖ Other Key Criteria of Silk Productin

1. Environmental Criteria

2. Technical Quality and Human Toxicity Criteria

3. Minimum Social Criteria



## 3.5 The Current Situation of Organic Sericulture in Thailand

Organic Sericulture Certification	2014	2015
Good Agricultural Practices (GAP)	120 Rai	140 Rai
Organic Mulberry Farm	251 Rai	442 Rai
Organic Silk Cocoon	138 Kg.	200 Kg.
Organic Silk Yarns	1.9 tons	4.6 tons
GOTS: Organic Textile	4 companies	4 companies
Eco Label: Carbon footprint	5 companies	10 companies

Table 2 : Organic Sericulture in Thailand between 2014 and 2015

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- ❖ Expected outputs
  - ❖ Obstacles
  - ❖ Policy Supports

## 4. Future Direction

- ❖ Develop local standards
- ❖ Expanding the area
- ❖ Awareness building
- ❖ Cooperation with concerning party





Thank you  
for your attention