



STUDY THE FACTORS OF DECISION TO GROW VETIVER GRASS AMONG FARMERS IN THE NORTH AND THE NORTHEAST REGIONS IN THAILAND



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INTRODUCTIONS



The north



The northeast

THE PURPOSE OF THE RESEARCH PROJECT IS TO STUDY



1. Basic economic and social conditions of farmers



2. Conditions of Vetiver Planting of Farmers



3. Factors for farmer's decision to grow vetiver grass



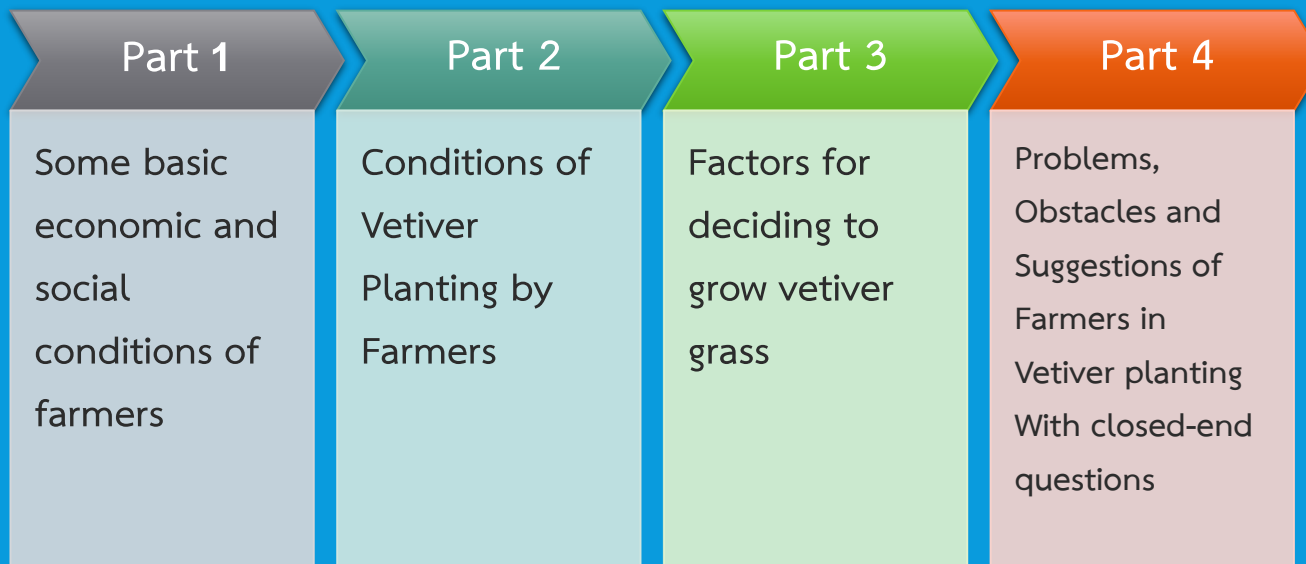
4. Problems, obstacles and suggestions to grow vetiver grass for farmers

PROCESSING PERIOD
PLACE OF OPERATION

PERIOD AND PLACE OF OPERATION
BEGINNING OCTOBER 2016 END OF SEPTEMBER 2018.
THE NORTH AND THE NORTHEAST REGION

Equipment and methods

Creating interview forms



RESEARCH METHODOLOGY

1. Select area the target population used in this research is 150 farmers who grow vetiver grass in the north (Chiang Mai and Nan province), 150 farmers who grow vetiver grass in the northeast (KhonKaen and Ubonratchathani province).

2. Data collection The researchers conducted data collection using the sampling group interview method based on the interviews conducted.

3. Data analysis using percentage method, arithmetic mean, maximum, and minimum data display

















EXPERIMENTAL RESULTS

Social condition	Percentage	
	Farmers in the north	Farmers in the Northeast
The gender		
male	70.0	30.0
female	30.0	70.0
Age		
not over 35 years old	20.0	10.0
36-45 years old	40.0	26.36
older than 45 years old	72.0	63.64
Education		
primary school	50.0	54.54
secondary school	20.0	27.27
high school	20.0	18.19
other levels of education. (Diploma or equivalent certificate, Diploma or equivalent, Bachelor degree)	10.0	9.10

- 1. Some basic social and economic conditions of farmers



Social condition	Percentage	
	Farmers in the north	Farmers in the Northeast
Number of family		
less than 4 people	65.0	45.45
5-6 people	25.0	36.36
more than 6 people	10.0	18.19
Agricultural training*		
non training	20.0	10.0
general knowledge	96.0	48.0
knowledge of vetiver	88.0	44.0
the others (Green manure, large-scale fertilizer method)	52.0	26.0

Percentage

Social condition	Farmers in the north	Farmers in the Northeast
Sources of information and knowledge about vetiver grass		
Land Development Department officers	48.0	54.54
volunteer soil doctors	36.0	28.0
local leaders. (Village chief, village headman)	28.0	9.09
agricultural extension officers	24.0	9.09
neighbors	18.0	9.09
officers from local government organizations	8.0	-
The other sources (staff from private / companies etc.)	2.0	-



Economic conditions	Percentage	
	Farmers in the north	Farmers in the northeast
Land ownership documents		
land as title deeds	64.0	54.45
SorPorKor.4-01	16.0	30.45
Nor Sor 3 Kor	12.0	9.10
The others (none, rented by others)	8.0	6.0
a reserve form	2.0	-
the size of the holding area		
do not have a land area	8.0	4.0
have a land area	92.0	96.0
Number of holdings		
- less than 10 rai	10.0	8.3
- 11-20 rai	76.0	81.25
- more than 20 rai	14.0	10.42

1.2 SOME BASIC ECONOMIC CONDITIONS

Economic conditions	Percentage	
	Farmers in the north	Farmers in the northeast
Agricultural land		
- There is no agricultural land	-	10.00
- With agricultural land holdings	100.0	90.00
- less than 10 rai	10.0	11.11
- 11-20 rai	76.0	84.40
- more than 20 rai	14.0	15.5
Number of agricultural labors in the household		
- 1-2 people	33.0	81.82
- 3-4 people	52.0	18.18
- more than 4 people	15.0	-
Income from agriculture in the past year		
do not have income	4.0	9.09
have income	96.0	90.91
- less than 30,000 baht	10.42	12.50
- 30,001- 50,000 baht	33.33	35.42
- more than 50,000 baht	56.25	52.08

Economic conditions	Percentage	
	Farmers in the north	Farmers in the northeast
Credit sources*		
- relatives	6.0	18.18
- neighbor	-	-
- loan merchant	-	-
- village funds	24.0	27.27
- agricultural cooperatives	26.0	27.27
- baac	42.0	45.45
- commercial Bank	-	-
- The others (savings cooperatives)	4.0	9.09

2. CONDITIONS OF VETIVER CULTIVATION

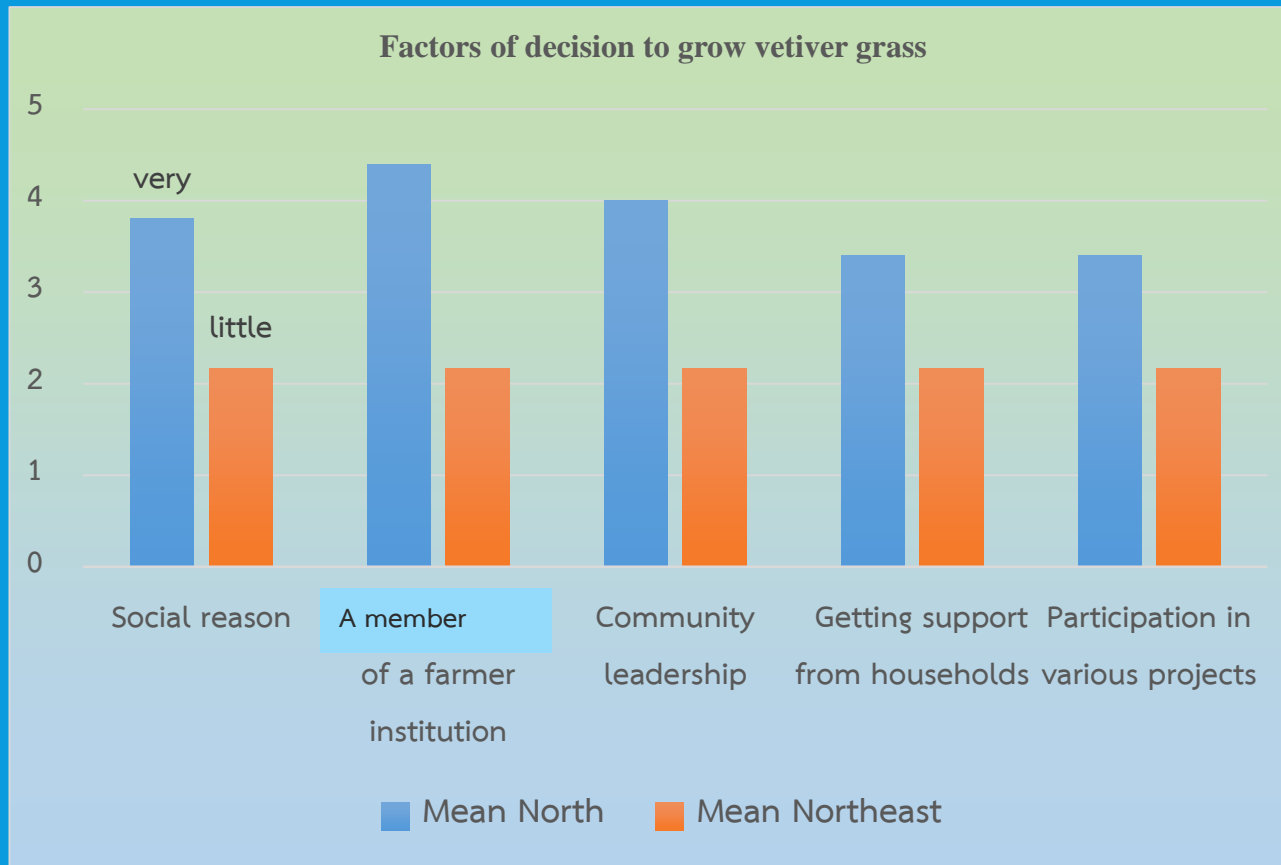


Conditions of Vetiver Planting	Percentage	
	Farmers in the north	Farmers in the northeast
The area for planting vetiver grass		
less than 1 rai	25.00	60.40
1-2 rai	42.00	20.00
more than 2 rai	33.00	19.60
vetiver grass seedlings		
bare roots	100.00	100.00
vetiver grass seedlings in plastic bags	-	-
Received vetiver grass from		
Land Development Department	67.00	85.71
volunteer soil doctor	36.00	14.29
own propagation plots	2.00	-
other places	5.00	-

Conditions of Vetiver Planting	Percentage	
	Farmers in the north	Farmers in the northeast
Objectives of planting vetiver grass		
prevent soil erosion	86.00	79.20
prevent soil sediments to reservoirs	60.00	82.00
improve the soil and maintain moisture	44.00	25.00
revive soil resources	20.00	-
preserve the environment	7.00	-
sell	30.00	20.80
The amount of vetiver grass for planting per hole		
1 vetiver seedlings	26.00	-
2 vetiver seedlings	47.00	76.90
3 vetiver seedlings	27.00	3.90
4 or more vetiver seedlings	-	19.20

Conditions of Vetiver Planting	Percentage	
	Farmers in the north	Farmers in the northeast
Adding fertilizer to the bottom of the hole		
apply	12.00	9.20
did not apply	88.00	90.80
Watering vetiver grass		9.20
rarely	92.00	93.8
regularly	8.00	6.2
During the month of vetiver cultivation		
January - March	-	16.67
April - June	25.00	33.33
July - September	74.00	50.00
October - December	1.00	-
repairing vetiver grass		
Did not repair	58.00	66.90
repair	42.00	33.10

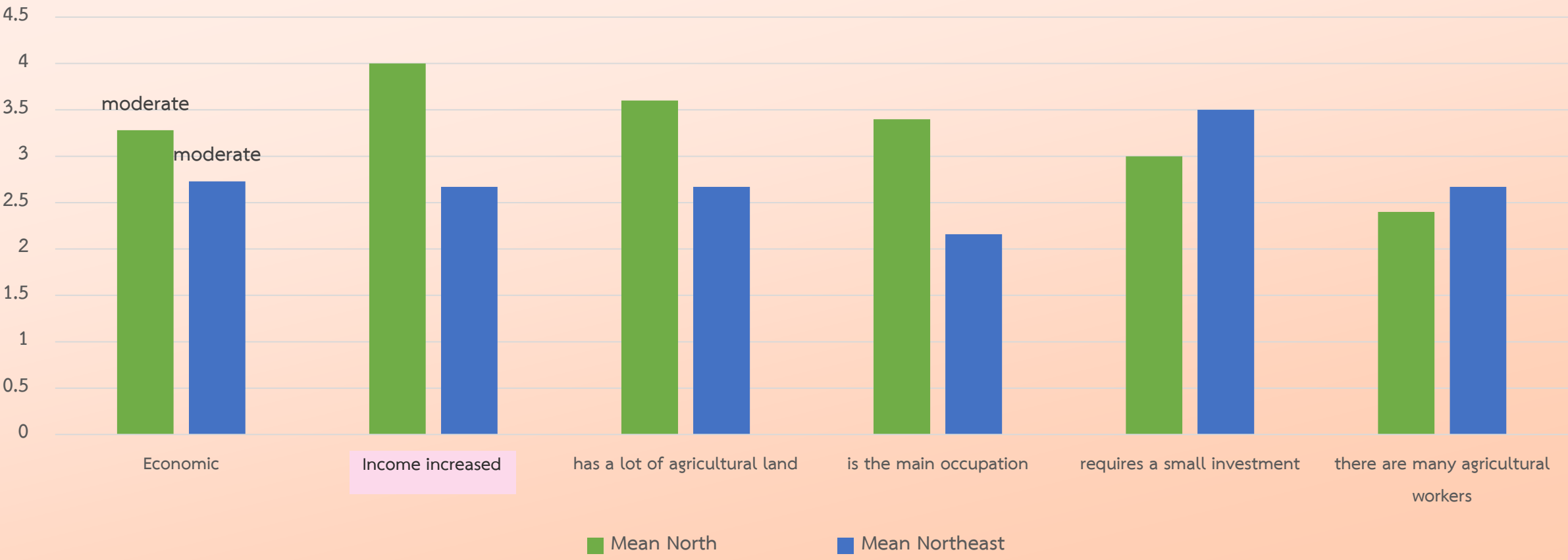
Conditions of Vetiver Planting	Percentage	
	Farmers in the north	Farmers in the northeast
Vetiver grass leaves cutting		
no cutting	14.00	12.30
not often	48.00	42.30
cut regularly	38.00	45.40
Propagation of vetiver grass		
no propagation	58.00	67.70
propagation of vetiver grass into plots	42.00	32.30



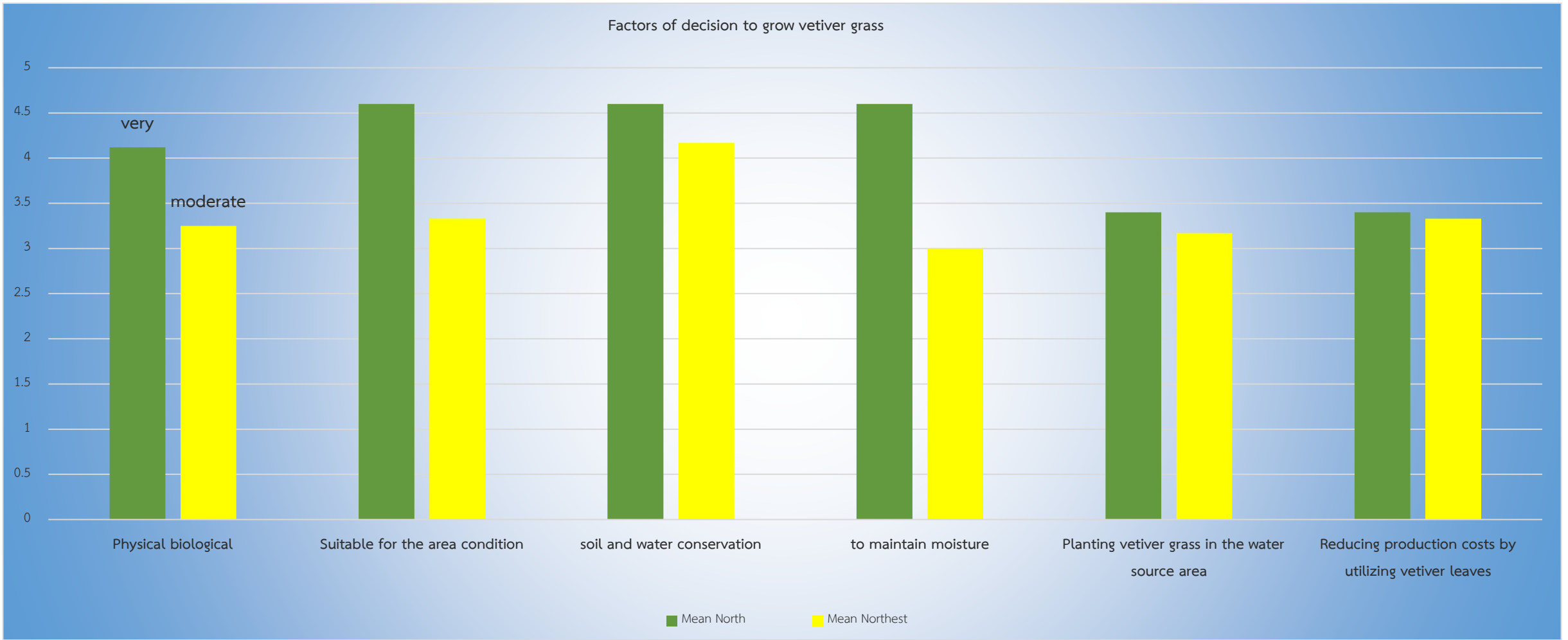
- 3. Factors of farmers' decision to grow vetiver grass

- 3.1 Society

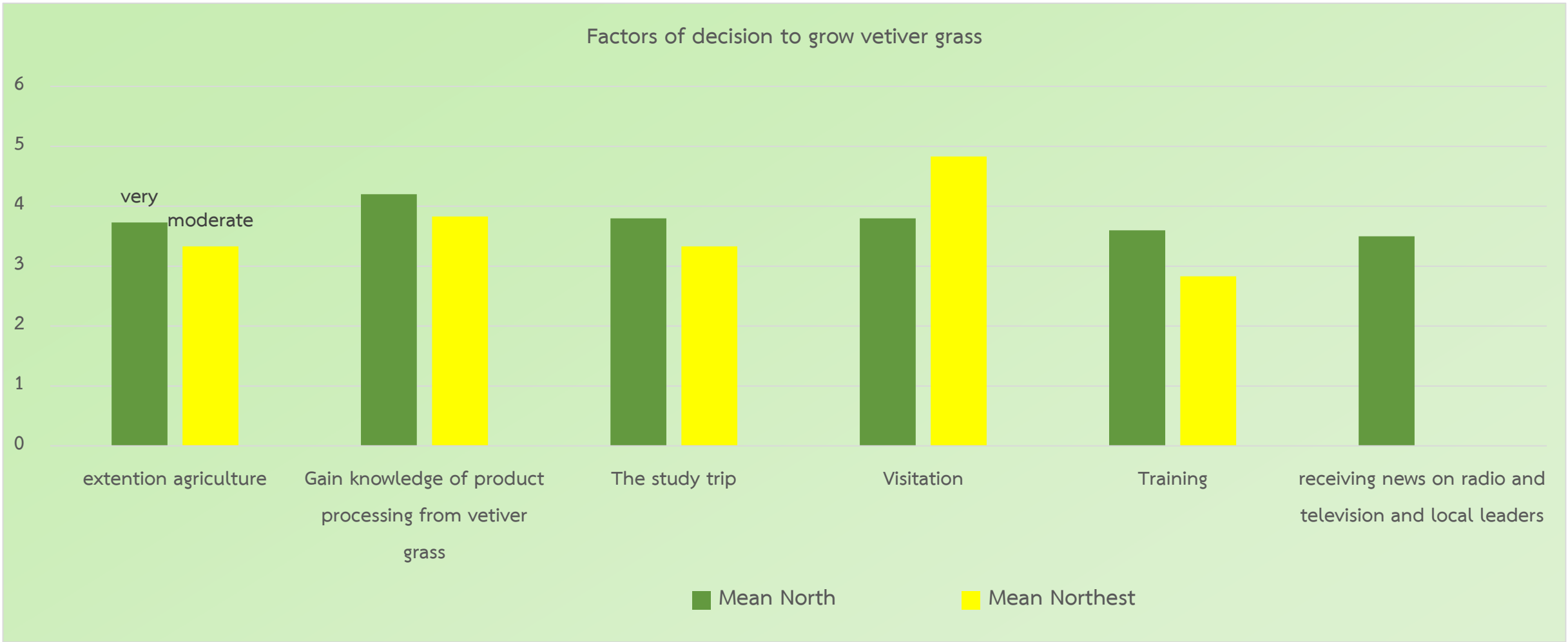
Factors of decision to grow vetiver grass



3.2 ECONOMIC

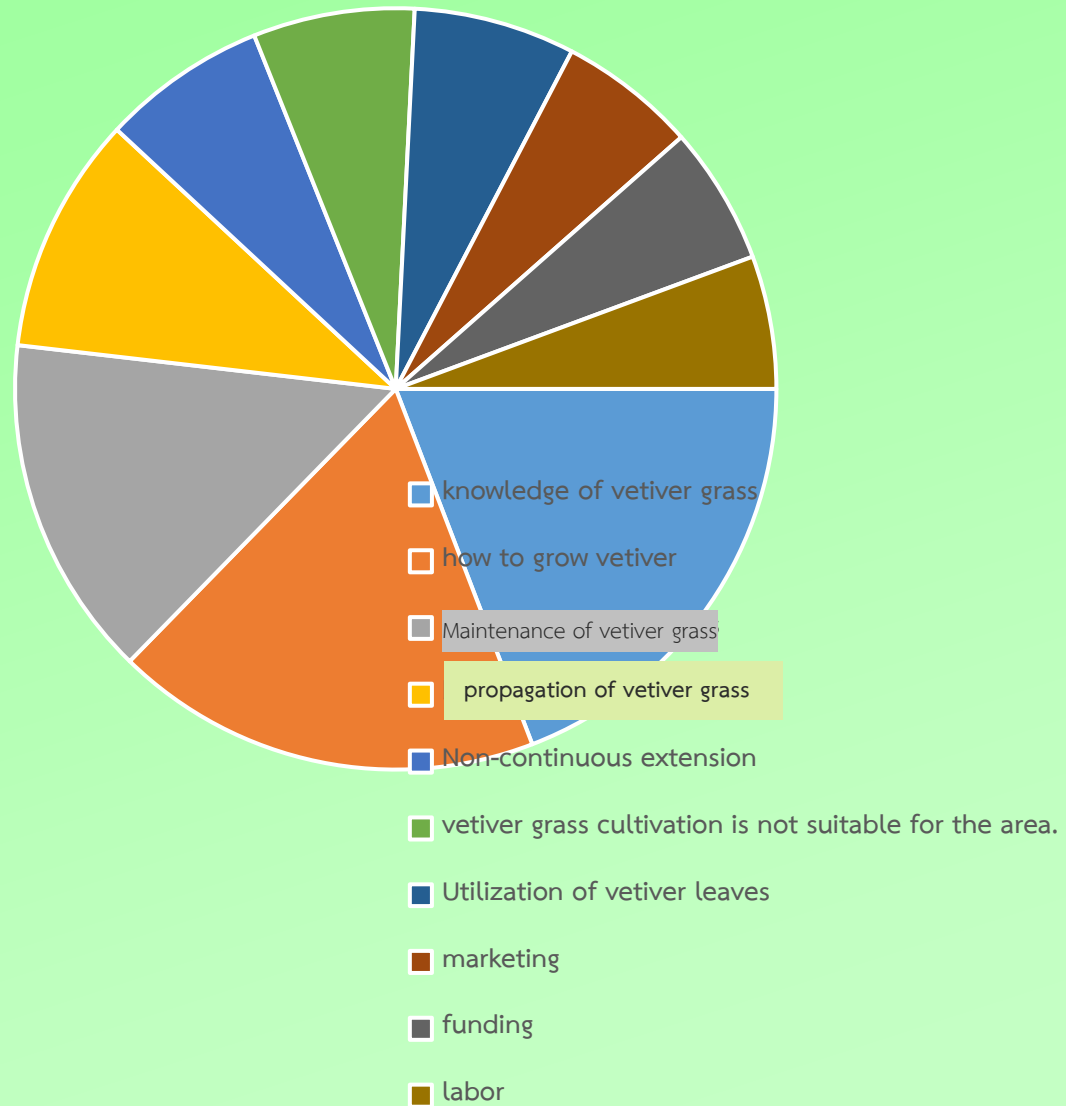


3.3 PHYSICAL AND BIOLOGICAL



3.4 EXTENSION AGRICULTURE

Problems and obstacles



4. Problems and obstacles

4.1 Farmers in the north

Problems and obstacles



Maintenance of vetiver grass

how to grow vetiver

marketing

propagation of vetiver grass

Non-continuous extension

funding

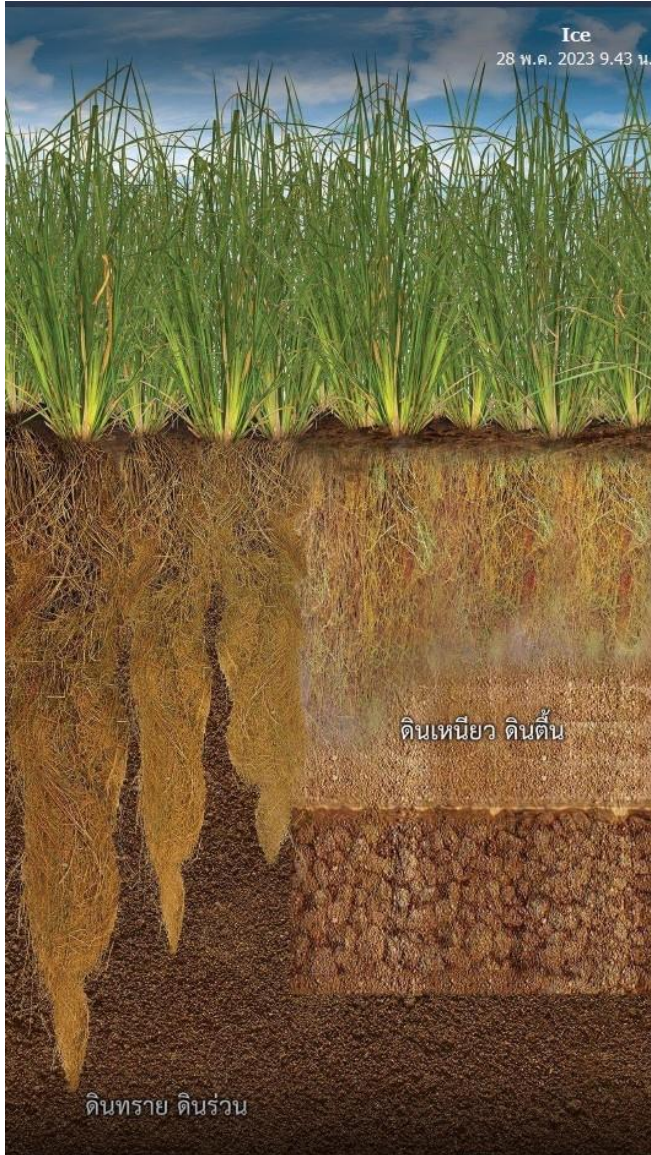
vetiver grass cultivation is not suitable for the area.

knowledge of vetiver grass

labor

Utilization of vetiver leaves

4.2 FARMERS IN THE NORTHEAST



IN CONCLUSION

Factors of farmer's decision to grow vetiver grass

- The most important factors in the north are social factor, physical and biological factor, extension agriculture factor but economic factor is moderated.
- On the other hands, In the northeast social factor is less important and for economic factor, physical - biological factor and extension agriculture factor are moderated

Problems and obstacles

The biggest problem in the north is the knowledge of vetiver grass whereas the biggest problem in the northeast is the maintenance of vetiver grass.

Suggestions



1. Economic factors for vetiver grass is moderate importance for decision making in both regions. Therefore, the staff should point out that vetiver can increase its income. By promoting and supporting the processing of products from vetiver grass and cultivating vetiver grass for distribution, with market support and continuous extension agriculture.



2. The problem of vetiver grass among the farmers in both regions the biggest problems are the knowledge of vetiver grass and the maintenance of vetiver grass. Therefore, the staff should give advice and further training to farmers in planting and caring for vetiver so that farmers can operate and use the vetiver effectively.



3. Further studies on the factors of decision-making of vetiver grass among farmers in other regions which will be the information to plan for the promotion of vetiver grass in the future.



Thank you very much
for your attention

