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# Questionnaire

# Farmers' Perception and Adaptation of Organic Vegetable Farming in Chiang Mai Province

By

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No.:	Date of Interview:
Name of informant:	61818169
Address:	300 000
Name of enumerator	

### A. GENERAL INFORMATION

1. Farmers and family member's age, education, and involvement in organic vegetable farming activity

No.	Head of HH and family member	Relation with HH	Age (year)	Gender <sup>(a)</sup>	Education	Status (b)	involvement in organic vegetable farming activity (c)
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<sup>(</sup>a) 1 = Male, 2 = Female; (b) M: Married, S: Single, W: Widow; 1 = >10yrs, 2 = 5-10yrs, 3 = 1-4 yrs.

# 2. Condition of Farming System and Land Tenure Status

No.	Land	Land status (rai)						
	owned (rai)	Owned	Rented	Mortgaged	Rent out	share	Others	

Note: Others, such as: plantation crops, ponds, fisheries, etc.

# 3. Cropping pattern

3. Cr	opping p	attern			90	181	21	16	(F)						
Plot No.	Total Land		2	Time											
	Used (rai)	Crops	J	F	Ma	A	M	7	Ju	Ag	S	o	N	D	Remarks
		- Sign				7		3					2		
		3	\			Z	Ÿ	( }		D.		736			
			4				760	1			A				

#### 4. Labor utilization

	Total	0 6		0	Labor need
Plot No.	Land Used (rai)	ed Crops	Activity  Code (1)	Family	Labor Hired
	/\		5 11 1 3	103	CIVCU

<sup>(1)</sup> Code of Activity: P1 = Plough; P2 = weeding; P3 = fertilizer used management; P4 = pest and diseases management; P5 = watering; P6= harvesting; P7 =; P8 =; P9 = irrigation process; P10 = others, please specify

5.	Yield	and	output	distri	bution
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Plot		Production		For Co	onsume	For Sale		
No.	Crops	Yield	Total	Yield	Total	Yield	Total	
		(Kg/ha)	(Baht)	(Kg/ha)	(Baht)	(Kg/ha)	(Baht)	
			201	61912				
			dias	n will	2/5			

6. Soil fertility		30
( ) Very good ( ) Goo	d ( ) Poor	3
204	(3/2)	202
7. Livestock data	2	785   F

No.	Kind of livestock	Amount	Income (baht)
	11 1 1	MAXA	181
	1/2/	11311	A //
	10	Grand Control	
		AI UNIVER	
	ลินสิทธิ์มห	าวิทยาลัยเ	สียอใหม่
8. Cre	alt		

No.	Sources	Amount	Mai University
	Allr	ights r	eserved
			<u>-</u>
			- -

# 9. Cost

No.	Activities	Cos	Total (baht)	
110.	receivines	Labor	Tool	Total (bant)
1	Soil preparation			
2	Seeding			
3	Planting			
4	Weeding			
5	Pest management	1010		
6	Harvest	Janes	00 9/	

10. Current household have debt or not	.031
( ) have ( ) Don't have	\ 3\\
11. Resource of debt and how much?	
( ) Neighbor amount	ТНВ
( ) Local merchant amount	ТНВ
( ) Bank for agriculture and agricultural cooperat	tives
======amount	ТНВ
( ) Organic agricultural cooperative	<i>A</i> //
amountTHB	`//
( ) Urban community fund amount	ТНВ
( ) Other (if any) amount	ТНВ
	ซียงโหม
( ) Yes ( ) Village chief	( ) Headman
=( ) The village committee municipality	( ) Council district /
=( ) Youth leaders	( ) Agricultural
Leadership	
=( ) Paraprofessionals	( ) Other (if
any)	
( ) No	

13. Status of Agricultural membership	
( ) No	
( ) Yes ( ) Agricultural group	( ) Agricultural Housewife
Group	
( ) Farm youth	( ) BAAC group
( ) Agricultural cooper	rative ( ) Organic agricultural group
( ) Other (if any)	
14. Have you ever participated in organic	training matter in some of the following?
( ) Organic rice production	( ) Organic vegetable
production	00-40
( ) Organic Integrated farming	( ) Bio-extract
( ) Bio-fertilizer	( ) Green manure
15. Resource of Organic agricultural prod	luction
( ) Department of Agriculture	( ) Center of new theory farming
( ) Agricultural Extension Office	er ( ) Farmers Promotion and
Development Group	Y 2)   Z
( ) NGO	( ) Volunteer soil technicians
( ) Neighbors and relatives	( ) Documents
( ) Radio/TV campaign	( ) Organic farming organizer day
campaign	MINE
16. How to gain organic agricultural know	wledge?
( ) Training	ายาลัยเซียงใหม
( ) Documents reading	hiang Mai University
( ) Agricultural Extension Office	er advisement
( ) Listen to TV programs such	as agriculture
( ) Visiting the farmer who prod	luced successful
( ) Other (if any)	
17. How often do you contact with agriculture of the second of the secon	ultural extension officer?
( ) 1 - 2 times per year	( ) 3 - 4 times per year
( ) 5 - 6 times per year	( ) more than 6 times per year

	Level of	Farmers' practice	
	knowledge		
Detail of practice	know Don't know	Past	Present
1.Cultivated field background	// 65 /	118:	
1.1 Duration of chemical disuse	1/3:/		
- An area where chemicals have never	10/2	Christian 7	
been used in order to perform organic	696	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	
agriculture for at least 6 months.	500		
- In the annual crop field, the duration of	161	N 2) / 2/	
chemical disuse must be longer than 12	11 = 1	100/5/	
months.	117	A DIA	
- In the perennial field, the duration of	CA	251	
chemical disuse must be longer than 18		AI UNIVER	
months.			
- A farmer must perform organic	นสิทธิ์มห	าวิทยาลัยเหียงให	11
agriculture for 36 months in order to be	povright©	by Chiang Mai Universit	
approved as an organic agriculture (Since	ppyright	by Chiang Mai Universit	
the time applying for approval). It is a	ii rig	hts reserve	a
standard for the transition period.			
1.2 Regulations after approval acquired			

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- The approved farmers must convert all	
cultivated areas to organic agriculture	
within 4 years. A written plan of	
conversion is required.	MRING
2. Overall condition of the fields	20 20
2.1 Deforestation	1 311
- Do not encroach on forest area. If the	
cultivated area is in the forest area,	10 1 2 minum
document of right is required (e.g. a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
document which is approved by the	
government or local administration	10 \ WW / Z /
organization).	1131 1171/2/
2.2 Soil conservation and soil erosion	NE AND A
prevention	OSI)
- Ground cover plants are needed to help	AI UNIVER
prevent soil erosion in the steep slope	
area.	เสิทธิ์มหาวิทยาลัยเชียงใหม่
2.3 Distance from an agrochemical field	
- Vegetable garden and fruit orchard must	pyright <sup>©</sup> by Chiang Mai University II rights reserved
be located at least 1-8 meters away from	ii rights reserved
farm field under agrochemical use.	
- Rice field must be located at least 1-8	

meters away from a farm field under agrochemical use.

# 2.4 How to prevent chemical contaminants via wind

- Vegetable garden and fruit orchard must have plants as a windbreaker or barrier at least 1-8 meters wide.
- Rice field must have plants barrier at least 1-8 meters wide.

# 2.5 Insect attractant and repellent plants

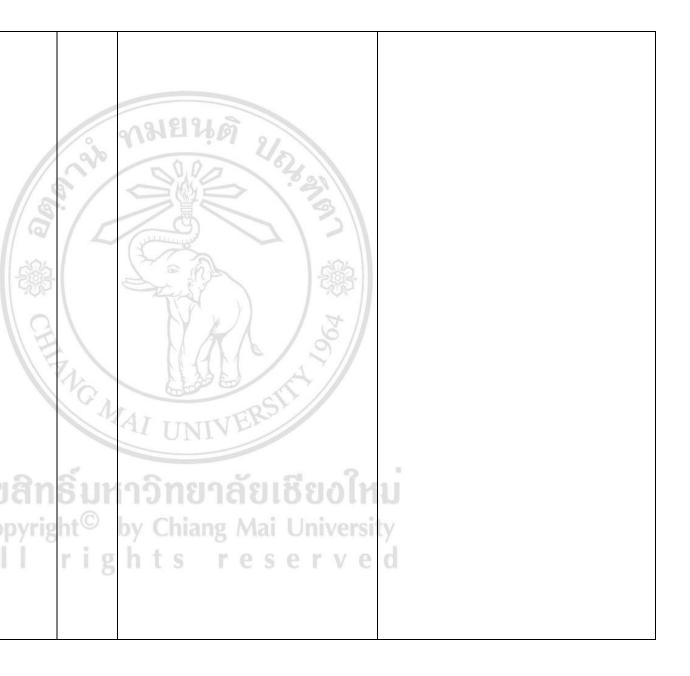
- Plant insect attractant and repellent plants spreading throughout 1% of the field.

### 2.6 Biodiversity

- There must be at least 10 types of plants and living organisms that are useful in the area proposed for approval.

# 2.7 Collection, selection, and improvement of native plants

- Collect, select, and improve native plants continuously.



2.8 Genetically Modified Organisms	
- Do not plant, raise, or use genetically	
modified organisms in the field.	
3. Soil	90818186
3.1 Soil improvement	20 20 20
- Use only organic fertilizers for	321
plantation.	
- Raise animals to use as an organic	a Lamina I
source with the appropriate number that	
balance with the farming area.	
- Record purchase confirmation of	
organic matter supplement on the farm	
account.	A A A A
- Always ferment organic matters before	251
using	AI UNIVER
- Planting crop for soil fertility.	
- Planting cover crops to improve soil.	สิทธิ์มหาวิทยาลัยเชียงไหม
- Soil preparation as well as the plow and	avright hv Chiang Mai University
harrow.	pyright <sup>©</sup> by Chiang Mai University I rights reserved
3.2 Soil conservation	l rights reserved
- Do not use chemical fertilizers.	
- Do not burn dead plants/ organic matters	

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in the farm.

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municipality.	
- Do not use excrement.	
- Do not blend slick or inked paper in	
organic fertilizer.	กมยนต์ - กมยนต์
- Do not use waste from industrial factory	30
5. Weed and pest	301
5.1 Weed management	// 多: / 多量 / 多
- Do not cover soil with biodegradable	
plastic.	
- Do not use weed control chemicals or	
herbicide.	
5.2 Plant diseases and pest	ME \ MAKISI
- Restore agricultural environment by	
planting attractant and repellent plants	CA SI
and crop rotation.	AI UNIVER
- Do not use herbal extracts and	
prohibited substances according to	สิทธิ์มหาวิทยาลัยเชียงใหม่
transitory provision.	nuricht <sup>©</sup> by Chiana Mai University
- There should be a biodiversity all over	pyright <sup>©</sup> by Chiang Mai University I right reserved
the area.	ll right reserved
- Do not use detergents or synthetic	
chemical sticking agent or synthetic	

chemical hormones.

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chemical inputs were applied.	
- Rice field requires water clarifier or use	
buffer garden as a water clarifier.	
- Waste water treatment system is	01818186
required.	90 30
- Do not use sewage treatment residues	311
8. Harvesting and marketing	/S:/
8.1 Harvesting	a Lamina
- Do not use harvest equipment that was	
used in chemical garden. In case of	
necessity, decontamination is needed.	10 1 2 2
- Keep harvested products, containers,	
and storage clean.	A Baba A
8.2 Storage and curing	Ar RST
- Do not use shared storage with	AI UNIVE
harvested chemically tainted products	
- Do not use curing accelerators	สิทธิ์มหาวิาาลัยเชียงใหม่
8.3 Transportation	
- Do not share equipment and truck with	yright <sup>©</sup> by Uniang Mai University  I rights reserved
chemical products. In case of necessity,	rights reserved
one must prevent contamination.	
8.4 Post harvesting	

Source: The North Organic Standard Association (NOSA), 2008.



# C. ADAPTATION ON ORGANIC VEGETABLE FARMING (LIVELIHOOD ASSET)

		Level	
Adaptation	Much	Fair	Less
1. Human capital			
1.1 An area away from the road with a			
vehicle density			
1.2 Specific areas for organic production			
1.3 A remote area of space with the use of	นดี		
chemicals	0 = 40	2. 1	
1.4 Labor in organic vegetable production		31/	
1.5 farmers' health			
2. Natural capital		1 - 1	
2.1 Soil fertility	n)	582	
2.2 Water resources	4	205	
2.3 Biodiversity		121	
2.4 Organic vegetable area	11/6	1911	
3. Social capital	30 6	4//	
3.1 Farmers' group	TERS	-	
3.2 Knowledge sharing between farmers	AIAE		
3.3 Participation in organizations		- 9	
3.4 Support from the community	ยาลัยเ	ซียงโท	IJ
4. Physical capital	ang Mai	Universi	tv
4.1 Transportation	FAS	erve	d
4.2 Electricity systems	1 6 5	CIVC	CI
4.3 Plumbing			
4.4 Communication			
5. Financial capital			
5.1 Total income			
5.2 Amount of saving			
5.3 Amount of loans			

### **CURRICULUM VITAE**

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### **Educational Background**

- Lower secondary school: The Prince's Royal College, Chaing Mai (2000)
- Upper secondary: Sacred Heart College, Chaing Mai (2003)
- Bachelor's degree in Agricultural Extension, Chiang Mai University (2007)
- Master's degree in Agricultural Extension, Chiang Mai University (2009)

