





Consumer Preferences Study in Regards to Organic, Clean and Safe (Agroecological) Agri-Food Products in the Greater Mekong Sub-region

Consumer Survey in Yangon, Mandalay, Nay Pyi Taw and Taunggyi in Myanmar

Dr. Theingi Myint, Professor & U Aung Phyo, Assistant Lecturer Department of Agricultural Economics, YAU, Myanmar

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Introduction



- Food consumption patterns are changing as a result of increasing incomes, as well as growing health and environmental issues.
- In the Greater Mekong Sub-region (GMS), the shift from traditional farming systems to commercial agriculture has already translated into a unbridled and unsustainable use of chemicals.
- Analyses conducted on the fresh vegetables sold in various markets in the GMS show that a significant proportion of samples contained pesticide residues, sometimes above accepted safety levels.
- In each country, organic and safe vegetable initiatives are developed through specific mechanisms (e.g., private brands, certifications, short value chains, etc.), and with the involvement of different stakeholders from both the public and the private sector



Introduction



- The rapid development of organic and safe agriculture initiatives at the regional level thus calls for a technically rigorous survey of consumer perceptions and consumption patterns to better understand how these initiatives can be further supported and promoted at both the country and the regional level.
- Such a survey may also provide valuable information to governments willing to fine-tune their policies aimed at supporting and accompanying the involvement of smallholder farmers into high-value and sustainable value chains for domestic and regional markets in the perspective of the AEC (a potential market of 620 million people).
- This is especially true given the lack of official policy framework supporting organic agriculture in Vietnam and Myanmar for instance.



Research Objectives



The general objective

to understand the current knowledge, perceptions, attitudes and behaviors of consumers towards organic/clean/safe food in Myanmar and to contribute to a general understanding across the GMS

The ultimate objectives

- to identify the determinants of consumer behavior towards organic/clean/safe/agroecological food products, and
- to better assess how consumer behavior regarding organic/clean/safe/agroecological products changes over time and space, in order to define relevant policy recommendations for the promotion of organic/clean/safe/agroecological agriculture



Research Questions



- How is food quality perceived by the consumers?
- What are the important food quality attributes for the consumers?
- Who and what do consumers trust when it comes to food quality?
- What are the consumers' current food-related practices (e.g., eating out/at home, cooking and purchasing)?
- The main target group was consumers from different locations (in house, in conventional markets and organic markets, specialized shops, supermarkets, etc.).
- Extensive information about the socio-demographic characteristics (gender, age, household size and composition, level of education, type of job, personal income, and marital status) of the respondents was also collected.



Enumerator Training at Nay Pyi Taw, From 2nd to 5th November 2017



- A four-day intensive training aimed at fine-tuning the questionnaire, checking and correcting the translation, and training the enumerators on the use of the questionnaire, the use of tablets, etc.
- The training involved:
 - 20 enumerators (students from YAU),
 - 5 fieldwork supervisors from the Department of Agricultural Economics of YAU,
 - An ICT specialist from YAU,
 - Mrs. Theingi Myint (YAU),
 - Charlotte Ravaux (GRET),
 - Isabelle Vagneron (CIRAD) and
 - ✤ U Htet Kyu (GRET).



Enumerator Training at Nay Pyi Taw, From 2nd to 5th November 2017



- During the training, time was spared for the enumerators to test the questionnaire with a convenience sample of consumers in Nay Pyi Taw.
- The questionnaires were then reviewed together with the enumerators for final improvements and discussion of the problems encountered (including vocabulary issues).





Enumerator Training at Nay Pyi Taw,

From 2nd to 5th November 2017



Table 1 Organization of training session in Myanmar

DAY 1	 Training of the enumerators: 										
	Share & discuss the questionnaire (e.g., read, explain, discuss each										
	question),										
	Correct and simplify the questionnaire based on feedback.										
	Adjusting the translation.										
	 Uploading new questionnaire onto tablets and checking inconsistencies 										
	 Registering, preparing and distributing the tablets to the enumerators 										
DAY 2	 Training & adjusting the questionnaire 										
	Elaborating Choice Modeling Scenarios and design of CM material										
	Specific training about the Choice Modeling										
	- First testing of questionnaires by the enumerators (target: 2										
	questionnaires each)										



Enumerator Training at Nay Pyi Taw,

From 2nd to 5th November 2017



Table 1 Organization of training session in Myanmar

DAY 3	•	Feedback	from	enumerators	on	questionnaires	(difficulties				
		encountere	ed)								
	•	 Pilot testing of questionnaires (target: 1 questionnaire each) 									
DAY 4	•	Final feedback from enumerators on questionnaires									
		- Final sampling defined (list of districts and number of questionnaires									
		per district									





Choice Modeling



- In Myanmar, the choice modeling was carried out for water morning glory only.
- The design of the choice modeling was drafted by Damien Jourdain (CIRAD).
- Each consumer who mentioned purchasing water morning glory was presented six plasticized sets of three scenarios (hence each consumer saw 18 scenarios).
- Each set presented a different type of water morning glory, which was described by different combinations of five main attributes.
- Consumers were asked to choose the water morning glory they were the most/least willing to purchase.
- Enumerators wrote the answer on the tablets.



Choice Modeling



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Table 2 Choice Modeling attributes for water morning glory in Myanmar

Attribute	Attribute levels	Description
PRICE	PRICE01 (same price)	Price of product (Unit: MMK/batch)
	PRICE02 (+10%)	
	PRICE03 (+20%)	
	PRICE04 (+30%)	
	PRICE05 (-20%)	
	PRICE06 (-10%)	
ORIGIN	ORIGIN01 (countryside)	Place where the product was grown
	ORIGIN02 (peri-urban)	
	ORIGIN03 (unknown)	
LABEL	LABEL01 (no label)	Food quality standard & certification
	LABEL02 (chemical-free)	
FRESH	FRESH01 (1 day ago)	Day of harvest
	FRESH02 (2 days ago)	
	FRESH03 (3 days ago)	
DISTANCE	DIST01 (+25 mn)	Extra time the consumer is willing to spend
	DIST02 (-20 mn)	compared to current time spent (Unit:
	DIST03 (+45 mn)	minutes)



S7E

Choice Modeling



ခရူးချယ်ဝယ်ယူမှု	ကန်စွန်းရွက် ၁	ကန်စွန်းရွက် ၂	ကန်စွန်းရွက် ၃
	မြို့ပြတွင်စိုက်သည်	မြို့ပြတွင်စိုက်သည်	စိုက်သည့်နေရာမသိ
လစိုက်ပျိုးရာဒေသ			?
အညွှန်း	အညွှန်းမပါ	အညွှန်းမပါ	ဓါတုကင်းလွတ်
စူးဆွတ်ခြင်း	ခူးပြီး ၃ ရက်ကြာ	ရူးပြီး ၁ ရက်ကြာ	ခူးပြီး ၂ ရက်ကြာ
ဝယ်သည့်နေရာနှင့်အကွာအစေး	非 :20 20 min	အကွာအစားတူသည်	အကွာအဝေးတူသည်
ငဈးနွှန်း	၁၀%ဈေးကြီး	ဈေးမက္မွာ	၂၀%အဈးရို
အကြိုက်ဆုံး	0		
မကြိုက်ဆုံး	0		



Figure 1 Choice modeling sets for Myanmar



Methodology



Sampling

- The target population of urban consumers of Myanmar
- Two major cities of Myanmar: Yangon and Mandalay as well as two secondary towns: Nay Pyi Taw and Taunggyi
- Purposive sampling was implemented based on the following criteria:
 - Household monthly income level

There are three income levels:

- 1. poor (under 300,000 MMK per month)
- 2. medium (300,000 1,000,000 MMK per month)
- 3. rich (above 1,000,000 MMK per month)
- Districts/residential areas
 - Inside each selected residential area, the consumers were surveyed individually and randomly selected in different selected market places (wet market, supermarket and convenience store).





Table 3 Sampling for the survey for different areas and shopping outlets in Yangon

Name of	Name of	Туре	Number	Wet	Super-	Convenie	Total
city	township			market	market	nce store	
		Rich	1	1	0	0	
	Lanmadaw	Middle	32	18	9	5	55
		Poor	22	13	5	4	
	Dagon Myothit	Rich	6	2	3	1	
	(North)	Middle	36	29	2	5	64
Vangon		Poor	22	19	1	2	
Yangon		Rich	2	1	0	1	
	Dala	Middle	30	21	0	9	80
		Poor	48	44	0	4	
		Rich	9	4	3	2	
	Yangon	Middle	98	68	11	19	199
	Total	Poor	92	76	6	10	(100%)
			199	<mark>148 (74%)</mark>	20 (10%)	31 (16%)	14





Table 4 Sampling for the survey for different areas and shopping outlets in Mandalay

Name of city	Name of township	Туре	Number	Wet market	Super- market	Convenie nce store	Total
		Rich	21	14	7	0	
	Chanayetharzan	Middle	30	25	2	3	59
		Poor	8	6	0	2	
		Rich	8	2	6	0	
	Chanmyatharzi	Middle	42	35	3	4	67
Mandalay		Poor	17	15	0	2	
		Rich	1	0	0	1	
	Patheingyi	Middle	24	15	0	9	57
		Poor	32	29	0	3	
		Rich	30	16	13	1	
	Mandalay	Middle	96	75	5	16	102 (1000/)
	Total	Poor	57	50	0	7	183 (100%)
			183	<mark>141 (77%)</mark>	18 (10%)	<mark>24 (13%)</mark>	15





Table 5 Sampling for the survey for different areas and shopping outlets in Nay Pyi Taw

Name of city	Name of township	Туре	Number	Wet market	Super- market	Convenie nce store	Total
		Rich	1	1	0	0	
	Zeyarthiri	Middle	13	12	0	1	32
		Poor	18	16	1	1	
		Rich	1	1	0	0	
	Pyinmana	Middle	19	16	1	2	40
Nay Pyi		Poor	20	18	0	2	
Taw		Rich	2	1	1	0	
	Ottarathiri	Middle	13	6	7	0	36
		Poor	21	18	3	0	
		Rich	4	3	1	0	
	Nay Pyi Taw	Middle	45	34	8	3	108
	Total	Poor	59	52	4	3	(100%)
			108	<mark>89 (82%)</mark>	13 (12%)	6 (6%)	16





Table 6 Sampling for the survey for different areas and shopping outlets in Taunggyi

Name of city	Name of township	Туре	Number	Wet market	Super- market	Convenie nce store	Total
		Rich	0	0	0	0	
	Hopone	Middle	8	4	0	4	40
		Poor	32	32	0	0	
	Yeayekwin	Rich	6	4	2	0	
		Middle	33	29	1	3	
		Poor	5	5	0	0	44
Taunggyi	Kyaungkyisu	Rich	1	0	0	1	
		Middle	26	24	0	2	
		Poor	8	8	0	0	35
	Tour coui Total	Rich	7	4	2	1	
		Middle	67	57	1	9	119
	Taunggyi Total	Poor	45	45	0	0	(100%)
			119	<mark>106 (89%)</mark>	3 (3%)	10 (8%)	17





Table 7 Total sampling for the survey for different areas and shopping outlets

Total	Туре	Number	Wet market	Super- market	Convenience store	Total
	Rich	50				
Total for four	Middle	306				
cities	Poor	253	484	54	71	609
		609	(80%)	(9%)	(11%)	(100%)



Thanks for your kind attentions!
