#### **APPENDIX A: QUESTIONNAIRE**

# MENDEL UNIVERSITY FACULTY OF REGIONAL DEVELOPMENT AND INTERNATIONAL STUDIES

### HOUSEHOLD SURVEY QUESTIONNAIRE

## THE EFFECTS OF INCOME OF SMALL SCALE FARMERS ON HOUSEHOLD FOOD SECURITY

This questionnaire is designed to collect data for a research project, the title of which is given above. Your participation or otherwise in this study will not affect you in any way as this is solely for research purposes. The answers provided will be confidential and for that matter secured. Your name and any identification information will be accessible only to the researcher and will never appear in any sort of report that might be published.

Thank you.	
SECTION A: General information	
Region:	<b>Community name:</b>
District:	Household No:
Name of interviewer:	Date of interview:
Name of household head:	Contact Number:

#### **SECTION B: Household profile**

1. Gender of respondent	[] Male [] Female
2. Age of respondent	
3.What is your relationship to current HH	[ ] Household Head [ ] Spouse [ ] Child
head	[ ] Other relative
4. What is the highest level of education	[ ] Primary [ ] JHS/JSS [ ] SHS/SSS
that you have completed (circle one)	[ ] Tertiary [ ] None [ ] other
	(specify)
4a Education level (yrs of schooling)	
5. What best describes your current marital	[ ] Single/never married [ ] Married
status	[ ] Widowed/ widower
	[ ] Divorced/separated

6. What best describe your religious	[ ] Christi	anity [ ] Islam [ ] Traditional		
denomination	[ ] No rel	igion [ ] Other (specify)		
7. To what ethnic group does your	[ ] Akan	[ ] Ga-Dangbe [ ] Ewe		
household belong to?	[ ] Gurma	[ ] Mole-Dagbani		
	[ ] Mande	e [ ] Other (Specify)		
8. How many people are in your household?				
9. How many years have you been engaged	in farming			
10. What is the total size of all land that is	s available	to		
household members for growing crops (in ac	cres)			
11. Is the household head the owner of the la	and?	[ ] Yes [ ] No		
12. Farmer Based Organization (FBO) mem	bership	[ ] Yes [ ] No		
12a. If yes, what is the name of the FBO				
13. Access to extension service		[ ] Yes [ ] No		
14. Access to credit service		[ ] Yes [ ] No		
15. Does this household have any saving	s either at	[ ] Yes [ ] No		
home or in an institution?				
15a. if YES, how much in total have you saved		(GH¢)		
16. What is the size of your farm (in acres)				
17. What is your present occupancy of this h	ouse?	[ ] owned [ ] Rent		
		[ ] Rent free		
18. Is there anyone in this household	who was	[ ] Yes [ ] No		
engaged in any non-farm enterprise in the	ne past 12			
months?				
19. What is your household's main source	of income			
throughout the year? Use codes below				
20. Who makes decisions on how the resor	urces from	[ ] Head of the Household only		
this activity are used?		[ ] Spouse of HH head only		
		[ ] Household head and spouse		
		[ ] Household head, spouse and		
		children		
	_			

- 1. Formal salary or wages 2. Remittances 3.Pension 4.Food crop production/ sales
- 5. Livestock production/ sales 6.Fishing 7.Petty trade (firewood sales, etc) 8.Food assistance/gift
- 9. Institution/organizational assistance (Government LEAP, NGO, Religious organization)
- 10. Other assistance/ begging/ gifts

#### **SECTION C: Sources of Revenue**

## Part A: Crop/livestock sales

## 0. Does anyone in this household engage in crop/livestock production?

Yes (1)	No (2)

## I Revenue from crop production and livestock for the past farming season

Crop/livestock	Value of sales of crop/livestock (GH¢)
Livestock (cattle, sheep, goats, pigs, rabbits,	
chickens, guinea fowls etc.)	
Maize	
Beans	
Millet	
Yam	
Soya beans	
Cassava	
Rice	
Guinea corn/sorghum	
Okro	
Pepper	
Groundnut	
Other crop	
Total	

#### **PART B: Sales from other produce**

Now I would like to ask you about other household sales of produce during the past 12 month

Item	How much was your sales (GH¢)
Fishing	
Hunting	
Fruits	
Milk from cow	
Eggs	
Mushroom	
Shea nut	
Other (specify)	

## **PART C: Farming Costs**

In the past 12 months, how much, if any, did the household pay for the following items

Item	Value incurred by farmer (GH¢)
Cost of maintaining livestock (feed/fodder,	
veterinary expenses, shelter, other expenses)	
Seeds/planting material	
Fertilizer	
Pesticides	
Herbicides	
Other farming materials	
Wages for workers who helped with farming	
Farm land that was rented from someone else	
Various services, for example for tractors,	
oxen which were used for ploughing	
Any other costs (describe)	
Total	

## PART D: Non- farm household income sources in the last 12 months

Sources of income (Non-farm income sources)	Amount (GH¢)
Total income from trading/ other non-farm business	
Value of gifts	
Buildings rented out income	
Land rented out income	
Other structures rented out income	
Transfer earnings from relatives, sons, daughters etc	
Sales of household assert e.g. land, vehicle, bicycle,	
etc	
Other income	
Total	

## **SECTION D: Food Security**

## PART A: Food purchasing in the past 30 days

Now I'd like to ask you about your spending on food and your food shopping patterns.

household spend on foodstuff?  D2. Did anyone else spend money on foodstuff for you and your household in the past 30 days?  D3. In the past 30 days, how much did you and the others in your household spend on eating out, for example, take out, at restaurants, cafeterias, etc.?  D4. Are there foods that you buy or that you would like to buy that you find difficult to get in your neighbourhood?  D5. In the past 30 days, did you or anyone in the household borrow money for food from friends or relatives?  D5a. If YES, How much did you borrow (GH¢)  D6a. If YES, How much (GH¢)  D7. Do you currently owe money for food?  D8. Do you have reliable transportation to and from the food market that you want to buy foodstuffs?  D9. Overall, what do you think about how you get food in your community?  D10. Overall, what do you think about the cost of food in your community?  D11. Do you choose foods based on cost rather than leave the past 30 days. How how how you get food in your community?  D12. Somewhat difficult leave your community?  D13. Somewhat expensive leave your community?  D14. Somewhat leave your community?  D15. In the past 30 days, did you or anyone in the household buy food leave your community?  D16. In the past 30 days, did you or anyone in the household buy food leave you how leave may be your community?  D16. In the past 30 days, did you or anyone in the household buy food leave you how leave may be your community?  D17. Yes leave your leave you may you get food in your community?  D18. D0 you have reliable transportation to and from the food leave your	D1. In the past 30 days, how much did you and the others in	n your	(GH¢)
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I I	nutritional value?	2.	No

## **SECTION E:** Food availability in the past 7 days

Did you or anyone else in the household **eat** ..... **in the past 7 days**? [INTERVIEWER: read out each food group below]

	Food group	Examples	Last days	e it in 7	2. Number of days food was consumed in past 7 days	3.Main source of food consumed	4.Average expenditure per month (GH¢)
			Yes	No	0 to 7	CODE	
E1	Cereals	Maize, wheat,					
		rice, millet,					
		breakfast					
		cereals,					
		sorghum, beans					
		etc.					
E2	Roots and	Yam, cassava					
	tubers	potatoes, sweet					
		potatoes etc.					
E3	Vegetables	Tomatoes,					
		onions, pepper,					
		kontomire,					
		cabbage, garden					
- T-4		eggs etc.					
E4	Fruits	Mango,					
		pawpaw,					
		oranges, banana,					
F.5	D. I.	apple etc.					
E5	Red meat	Beef, mutton,					
Ε.	D 1	goat etc					
E6	Poultry	Chicken					
E7	Fish	Fresh, canned,					
		frozen, dried					
E8	Eggs	fish					
	Eggs	Eggs					
E9	Dairy	Milk, yoghurt, condensed milk,					
		powdered milk, cheese					
E10	Oils and fat	Palm oil,					
EIO	Ons and rat	coconut					
		oil, palm kernel					

		oil, groundnut
		oil, other
		vegetable
		oil
E11	Sugar	sugar, sweets,
	products	honey,
		chocolate
		etc
E12	Beverages	Tea, coffee, cool
		drink, fruit
		juice, beer etc

CODE: Main source of food consumed

Code	Source
1	Purchase
2	Own production
3	Hunting
4	Gift
5	Exchange
6	Food Aid

## **SECTION F: Food security statements**

The following statements are about the food eaten in your household in the past 12 months, and whether you were able to have or afford the food you needed (Response categories for the first questions: 0. No 1. Yes; Response categories for subsequent questions: 0- Rarely 1-Sometimes 2- Often)

Statement	Code
F1 Were you at any time in the past 12 months worried that food would run out	
before more could be obtained?	
F1a. How often did this occur? 0. Rarely 1. Sometimes 2. Often	
F2. In the past 12 months, was any adult household member not able to eat the	
preferred kinds of foods due to lack of resources?	
F2a. How often did this occur? O. Rarely 1. Sometimes 2. Often	
F3. In the past 12 months, did any adult household member have to eat a	
limited variety of foods due to lack of resources?	
F3a. How often did this occur? 0. Rarely 1. Sometimes 2. Often	
F4. In the past 12 months, did adults in the household reduce the size of meals	
because there wasn't enough food?	
F4a. How often did this occur? 0. Rarely 1. Sometimes 2. Often	

F5. Did any adult skip some of the daily meals because there wasn't enough	
food for 3 or more months?	
F5a. How often did this occur? O. Rarely 1. Sometimes 2. Often	
F6. In the past 12 month months, did adults in the household ever eat less than	
they felt they should because there wasn't enough food?	
F6a. How often did this occur? O. Rarely 1. Sometimes 2. Often	
F7. Did adults in the household ever fail to eat for a whole day because there	
wasn't enough food	
F7a. How often did this occur? 0. Rarely 1. Sometimes 2. Often	
F8. In the past 12 months, was any adult ever hungry and did not eat because	
there wasn't enough food?	
F8a. How often did this occur? O. Rarely 1. Sometimes 2. Often	
F9. In the past 12 months, did any adult in this household lose weight because	
there wasn't enough food?	
Questions $10-15$ are about children living in the household who are under $10-15$	18 years old.
Do not ask if the household does not have children under 18	
F10. Did you fail to feed the children a balanced meal most of the time because	
there wasn't enough food?	
F11. Did you regularly fail to give the children enough food to eat because	
there wasn't enough food?	
F12. Did you regularly reduce the size of the meal for any child in the	
household because there wasn't enough food?	
F13. Did any child skip a meal because there wasn't enough food in the	
household for 3 or more months?	
F14. Was any child ever hungry and did not eat because there wasn't enough	
food?	
F15. Did any child in the household ever fail to eat for a whole day because	
there wasn't enough food for 3 or more months?	

## **SECTION G: Ranking of Constraints**

What are the main shocks faced by your households; Assess how big a problem the below mentioned constraints constitute for your household and your community as a whole in relating to food security? Rank the following constraints on a scale of one (1) to ten (6), with one (1) as the most important

Constraints	Ranking
Unfavourable climate	
High food prices	
Debts to reimburse	
Death or sickness in the household	
High fuel costs	
Destruction of farm harvest	

## **SECTION H: Coping Mechanism**

If your household **does/did not have enough food available,** how **will/did** your household **cope** with this? Rank the following coping mechanisms on a scale of one (1) to ten (10), with one (1) as the most important

Coping Mechanism	Rank
Reduce the number of times meals are eaten	
Reduce the quantity of meals eaten	
Reduce the quantity of adult meal so children can have food to eat	
Purchase cheaper food	
Buy food on credit	
Exchange one type of food for another	
Borrowing of food	
Sell household assets to buy food	
send children to relatives house for eating food	
Borrowed money to buy food	

#### **APPENDIX B: REGRESSION ANALYSIS**

Logistic regression Number of obs = LR chi2(10) = 50.05 Prob > chi2 = 0.0000 Pseudo R2 = 0.2452 Log likelihood = -77.0199

Food_security	Coef.	Std. Err.	z	P>   z	[95% Conf.	. Interval]
B1 Gender	-1.255752	.5155619	-2.44	0.015	-2.266235	2452692
B2_Age	.0075987	.0190113	0.40	0.689	0296628	.0448603
B8_HHsize	.0129777	.0371894	0.35	0.727	0599121	.0858675
B12_FBO	-1.340541	.6662589	-2.01	0.044	-2.646385	0346978
B14_Credit_service	1.756547	.5656509	3.11	0.002	.647892	2.865203
B15_HH_savings	7867002	.4633207	-1.70	0.090	-1.694792	.1213916
B16_Size_of_farm	.0283502	.0555239	0.51	0.610	0804747	.1371751
B18_HH_non_farm_enterprise	-1.008547	.4601326	-2.19	0.028	-1.91039	1067035
TR2	.000326	.0001819	1.79	0.073	0000306	.0006825
B2_Formal_Education	.0880928	.5367828	0.16	0.870	9639822	1.140168
_cons	2430746	1.263051	-0.19	0.847	-2.718609	2.23246

Marginal effects after logit y = Pr(Food\_security) (predict) = .4032339

variable	dy/dx	Std. Err.	Z	P> z	[ 95%	C.I. ]	Х
B1 Gen~r*	275765	.09798	-2.81	0.005	467806	083724	.286667
B2_Age	.0018285	.00458	0.40	0.690	007149	.010806	40.2
B8_HHs~e	.0031229	.00894	0.35	0.727	014406	.020651	10.5333
B12_FB0*	3226456	.14628	-2.21	0.027	609347	035944	.853333
B14_Cr~e*	.3620152	.09416	3.84	0.000	.177472	.546559	.733333
B15_HH~s*	1888878	.10988	-1.72	0.086	404247	.026471	.566667
B16_Si~m	.0068221	.01337	0.51	0.610	019389	.033033	6.16
B18 HH~e*	2406607	.10661	-2.26	0.024	449622	031699	.56
TR2	.0000784	.00004	1.78	0.075	-8.1e-06	.000165	1348.27
B2_For~n*	.0212867	.13021	0.16	0.870	233921	.276494	.24

<sup>(\*)</sup> dy/dx is for discrete change of dummy variable from 0 to 1