APENDICES

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Appendix 1: Questionnaire for farmers

Questionnaire

Topic: Assessment of the competiveness of cassava production in Ghana a case of the Birim South District. Hello, my name is Ophelia Acheampong from the Department of Sustainable Rural development in Tropics and sub-tropics at the Czech University of Life Sciences. Your opinions and experiences are very important for this study. Your participation is voluntary. Data collected in this study is strictly confidential and for academic purpose.

Section 1: Personal Information

1. Name of Interviewer	
2. Name of Region	
3. Name of District	
4. Name of Community	
5. Name of Respondent	
6. Gender Male [] Female []	
7. Age 18-30 [] 31-40 [] 41-50 [] Above 50 []	
8. Marital status: Married [] Single [] Divorced []	
9. Religion. [] Christianity [] Moslem [] Traditionalist	
10. What is your household size?	
A. below 5 B. 5-10 C.11-15 D. Above 15	
11. Level of education	
No formal education [] Junior high school/Middle school [] senior secondary school []
Tertiary education []	

Section 2: Farming and Production System

12. How long have you been a farmer?
13. Do you do any other job in addition to farming? Yes [] No [] Please specify
14. What cropping pattern do you practice?
A. Mono-cropping [] B. Inter-cropping [] C. others []
15. How do you prepare your land for cassava cultivation?
[] Tractor Service [] Bullock Service [] Hoe/Cutlass [] Weedicides [] Other (specify)

16. What cassava variety do you cultivate in a year? How much was consumed, sold and the value

Стор	No of acres	Total yield per acre (local unit)	Total sale (local Unit)	Value of sale (¢)	Total consumed (local units)	Total produce left unconsumed /Sold	Total Spoilage

17.	. Why do you choose a particular variety? high yielding[] don't know of any
	others [] high quality for my purpose[] ready market [] early maturing [] disease
	and pest resistant[] Adaptability to environment[]stems readily available and cheap[

18. How do you plant the cassava stalks?
Direct planting in soil [] Moulds or Ridges [] C. Others
19. What length do you usually measure the cassava stalks you plant?
20. How many buds are present on the cassava stalk you plant?
1-4[] 5-8[] Do not count[] others
21. How many stalks of cassava do you plant per acre?
22. Where do you get your planting material (stalks) from?
From previous year [] Buy from other farmers [] Input shops [] others (specify)]
23. What depth do you plant your cassava plant?
24. How long do you store cassava stalks before planting
Up to one month [] More than one month [] Two months [] Do not consider [] others []
25. Where do you store them? Under a shade [] In the open [] others []
26. How did you acquire the land you use for cultivation?
Inheritance [] Rent/Lease [] Outright buy [] Gift []
27. How long have you been using this land for cultivation?
Below 3 [] 3-5 [] 6.10 [] above 10 years []
28. Which cropping system do you practice?
Long rotation [] Short rotation [] Continuous Cropping [] others []
29. How long do you leave land before cultivating it again after harvest
30. What is the total Size of your farm plot?
Acres/Hectares

ecify			
32. How much time d	lo you s	spend on working on the fa	arm yourself per week?
		ually use more hands to he	
Activity		Number of days/acre	Gender of labour used
Land clearing	[]		
Routine weeding	[]		
Agro-chemicals			
Harvesting	[]		
Transporting	[]		
planting			
34. Within the cassav	_		nes do you weed the farm a
35. Are you willing t	o acqu	ire additional land to exp	and your cassava producti
Yes [] No [] Pleas	se give	reasons for your	
36. If yes, what is the	bigges	t setback to land acquisition	on in your area?
A. Scarcity of land	d		
B. Preference for	other C	Competing crops	
C. Land owners u	nwillin	g to sell their lands	
D. Land owners le	ease/rer	nt conditions not favourable	

37. Do you apply	fertilizer to your cassava farı	m? Yes/no
If No ask why and con	ntinue with question 58	
Why		
38. What type of	fertilizer did you use in the la	st cropping season?
[] organic % []	inorganic %	
Fertilizers	Quantity used (kg)	Price (GH¢)
Organic		
Inorganic		
39. At what stage	of the farm do you apply the	fertilizer?
		•••••
Section 3: Technolog	y and Financial Support	
40. Which of the	below listed areas have you ro	eceived training?
Production [] Proces	ssing [] Marketing [] Storage	e [] Others []
41. If you have, w	ho gave you this training?	
42. If no what are	ea would you like to receive tr	raining?
[] Production[] Proc	essing [] Marketing [] storage	[] Others []
43. Would you be	willing to pay for the trainin	g yourself? [] Yes [] No
44. Have you rec where	-	oast 2 years? [] Yes [] No. If yes from
45. If no have you	ı visited the agriculture office	yourself? No[] yes []
46. If yes was the	ir reception helpful? Yes[] N	No []

47. How often did Extension Officers visit you?	
Once a week [] Once a month [] once a year [] others (specify)	
48. Were their visits helpful? Yes [] No []	
49. Are you aware of some cassava projects implemented in your district?	
Yes [] No []	
51. Which government program apart from extension have you benefited from?	
RTMIP, [] WAAPP [] others specify []	
52. Have you ever visited a demonstration /exhibition farm in your district?	
[] Yes [] No	
53. Have you ever received cassava stem cuttings for free? Yes [] No[]	
54. Are you currently benefitting from any assistance from government in terms Capital [] Seeds [] Fertilizer [] Marketing [] Machinery [] Extension [] Other	
55. If yes how regular is the support?	
56. If you are not, and have never benefitted from any cassava intervent programe why? No money to pay for the subsidized cost [] don't belong t cooperative. [] I don't depend on the programme for inputs [] There is no go programme I know of. [] Others	o a
57. If yes is the support sufficient for your required production? [] Yes [] No	
58. Do you belong to a farmer association? [] Yes [] No	
59. What benefits do you derive from the group as a member?	
Financial support [] group labour, [] available market, [] fair price, [] other input support others specify	t []
60. What are the farm machineries, equipment and implements used on your far	m?

Please complete the following table about your use of farm implements in 2017

production year

Tool /equipment	Owned	Hired	Unit price (¢)	
Vehicles				
Motorcycle				
Bicycle				
Tractor				
Plough yoke				
Ное				
Cutlass				
Axe				
Dryer				
Knapsack chemical sprayer				
Others(specify)				
harvester				
Measuring tape				
61. What is the source of water for the farm?				
Rainfall only [] Irrigation [] Both []				
62. How many people do you employ on your farm per season?				
63. Do you store some o	f your cassava prod	duce? Yes [] No []		
If the answer to question 39 is NO ask why and continue from Question 48				
Why				
64. How do you store it	?			

	burry it in the soil [] un-uprooted [] Other [] specify
	why you store your crop[s]
Unavailable marke (specify)	t [] To process it later [] to get a good price [] Kept as food [] Other
66. How long do y	ou store this quantity?
Less than 3months	[] more than 3months but less than 6months [] more than 6 months [
67. Do you have a	ny storage facility for your harvested cassava? Yes [] No []
If the answer to this que	estion is "YES", which type?
68. If no what are	the reasons for not having a storage facility?
Expensive to const	ruct [] I don't produce enough to store [] other []
69. What is the sta	te of the produce after storage?
Very good []	Good [] Bad [] Worse []
70. Which of the st	torage methods seems to be the best for you?
Place it in water [] 1	ourry it in the soil [] un-uprooted [] store room [] other [] specify
71. What are the s	torage problems you face? Please tick applicable ones
Pest	[]
Rodents	[]
Thieves	[]
Post storage losses	[]
Others (specify)	[]

72. Where do you prefer to sell your produce?

	(Km)	ton/bag/basket	per ton/bag/basket		
At farm gate					
Village market					
Town market					
Central market					
Others (Specific)					
Please explain your answer					
Cutlass [] Hoe [] Mechanical Harvester [] Others [] specify					
Sacks []	Basket [] other [] spec	cify			
75. How do you	75. How do you transport the cassava from the farm?				
Carrying on l	Carrying on head [] wheelbarrow [] truck [manual] [] vehicle [] other []				
76. In what form do you prefer to sell your produce and why					
Raw uprooted tubers acre []	s [] Process to other forms	s (Gari, Tapioca) [] sell u	in-uprooted fields per		
Other Specify []					
Explain your answe	er				

Distance from Farm Harvest cost

Location

Transportation cost

per

Gari [] tapioca [], aglima [] fufu [] cassava flour [] cassava chips (konkonte)

77. If you process what do you normally processed it into

78. Are you aware of these new markets for cassava listed below?	Beer [] ethanol [],
starch [] feed pellets for poultry [] Hqcf []	

79. Kindly tick which of these traditional and new cassava derivatives you have ever patronised.

Traditional cassava products		New cassava products	
fufu	[]	Beer	[]
agblima	[]	Ethanol	[]
gari	[]	Starch	[]
tapioca	[]	Dried chips for poultry	[]
Dried cassava chips	[]	Hqcf	[]
Cassava flour	[]	Fufu flour	[]
Others	[]	Others	[]

Section 4: Cost and Returns

80. Do you keep records of your farm activities? Yes $[\]$ No $[\]$

Expenditure Item		Quantity Used	Unit Cost GH¢	Total Cost GH¢	Gender labour t	
Acquisitio	Acquisition of land					
Labour cost (per	Clearing of land					
day)	Planting					
	Application of					

	fertilizer			
	Weed control			
	Pest and disease control			
	Harvesting			
	Ploughing			
Cassava S	talks			
Fertilizer				
Herbicides	S			
Transporta	ntion			
Other farm input				
Others (specify)				
TOTAL (GH¢)			

81. Please, indicate your total harvest and the price during the last farming season (2016/2017).

Form	Quantity	Unit of Measure	Farm Local Nearby			Revenue Farm Local Nearby		
			gate GH¢	market GH¢	Big Market GH¢	gate GH¢	market GH¢	Big Market GH¢
Raw uprooted tubers								
un-uprooted								

fields				
Gari				
Tapioca				
Dried Cassava				
chips				
Cassava Flour				
Cassava				
Stalks				
Others				

82.	How	much n	nonev did	von get ac	s profit for	the season?

Money in (sales) minus Money out (expenditure) = Profit GH\$.....

83. How did you obtain your initial capital?

Capital source	Amount GH¢	Required	Amount obtained GH¢	Interest charge on amount	Payback period
Government assistance					
Personal Savings					
Co-operative assistance					

Loan						
Others Specify						
84. On the scale of 100	9%, how v	vould you r	ate your ci	op loss/dai	mage?	
Type of crop loss	Perc	entage %		Quanti	ty	
In the field						
During harvesting						
After harvesting						
Storage						
Section 5: Problems and I	-	 itating agai	inst cassay	a producti	on in vour fa	ırm a
the area? Constra				_	-	
following your leve	el of const	raint to the	productio	n of cassav	a	
Constraints	Very	High	Low	Very	None	
	High			Low		
Lack of planting materials						
High prices of inputs						
Inadequate farm labor						
Lack of access to credit						

Land accessibility									
Pests and diseases									
Transportation of produce									
Marketing of produce									
Storage									
Lack of access to									
Extension services									
Other									
If no, why haven't you swi [] There is government: Capital 88. Given the chance to	support [] '	The soil su	pports it be	etter.[] Ea	sy to grow []				
[] Maize [] Cassava [] Gro					•				
89. Why did you choos	e that crop	?							
[] Ready market [] Easy to	cultivate []] Traditiona	l crop [] O	thers (specif	ŷ)				
90. What are the benef	its derivab	le from cas	sava produ	ection in yo	ur community	?			
[] Employment [] food second	urity[] oth	ers specify.							
91. Will you advice oth No and why?		•	, ,	-		es or			
92. What are your future plans for cassava farming and processing business?									

93. Recommendations	towards	improving	cassava	production	ın	general:

THANK YOU VERY MUCH FOR YOUR TIME