

GHANA Irrigation Impact Evaluation

(Baseline Questionnaire)

INTERVIEW Interviewer No. |_|_|_|_| Supervisor No. |_|_|_|_|

PROVINCE: _____
DISTRICT/COMMUNE: _____
VILLAGE/CLUSTER: _____
FBO NAME: _____ FBO NUMBER: |_|_|_|_|
HOUSEHOLD NUMBER: _____ Code |_|_|_|
GIS LOCATION OF HOUSEHOLD Latitude N - |_|_|_|_| Degrees |_|_|_|_| . |_|_|_|_| Minutes
Longitude W - |_|_|_|_| Degrees |_|_|_|_| . |_|_|_|_| Minutes

TIME OF BEGINNING OF INTERVIEW: |_|_| | |_|_| (AUTO-CAPTURE)

SECTION A: INTRODUCTION AND CONSENT

Hello and thank you for talking to us. We are from Panafields, a Ghanaian social science research organization. We are working on a Millennium Development Authority farming activities that is intended to increase the income of households working plots in the intervention area.

To help us understand if the MiDA program is achieving this goal, we would like to ask you some questions about your household and your farming activities in order to understand the impacts of the irrigation scheme on farming households. This information is important to know as it will tell us how to improve the success of projects meant to support farmers such as yourself.

The interview will take about 90 minutes and we will ask questions to you or from other adults in the household who may be the most knowledgeable about particular topics. We also ask that you allow us to measure the size of your farm plots. This survey will be repeated in the future and you may be asked to participate again so that we can measure the changes among farmers.

All the information you and others in your household give us will remain confidential and you will not be identified, so please feel free to speak openly. The information that you provide will be kept until at least 2015 for the purposes of understanding MiDA program impacts and preparing reports to the project sponsor on the changes among farmers. Your participation is completely voluntary. You are free to not answer any question with which you are not comfortable, and you may stop the interview at any time.

If you have any questions about the survey, you may contact Seth Kande at Panafields at 233 302-250-965.

Do you wish to participate in this survey? May we start now?

IF YOU ADMINISTER PART OF THE QUESTIONNAIRE TO OTHER MEMBERS OF THE HOUSEHOLD (AS IS LIKELY), YOU MUST READ THIS GREETING/CONSENT TO EACH PERSON WHO PARTICIPATES IN THE SURVEY AND RECORD THEIR ID NUMBER (FROM SECTION B, PAGE 3) AND RESPONSE TO THE RIGHT.

Response to consent (2 NO, 1 YES) |__| **IF NO, GO TO LIST OF DISPOSITION CODES**

May I please talk to the person who knows most about your household’s farming practices and other agricultural activities? Later on we will have more questions for your wife/husband about employment.

A4.	a. What is your name?	b. What is your family name?
	[_____]	[_____]
	c. What is your cell phone number? _____	d. What’s your alternative phone number?

SECTION B: HOUSEHOLD COMPOSITION AND DEMOGRAPHICS

Now I would like to ask you some questions about the makeup of your household. . By household, we mean those of you that sleep under the same roof and take meals together at least four days a week.

B1.1	Has your household always lived in this village? 1 YES → B1.4 ; 2 NO; 99 REFUSED; 88 DON'T KNOW	_	LANGUAGE CODES 11 Twi 12 Fanti 13 Akuapem 14 Sefwi 15 Brong 16 Nzema 17 Ga 18 Dangme 19 Ewe 20 Guan 21 Buli 22 Mamprusi 23 Frafra/Gruni 24 Kassene 25 Dagbani 26 Wali/Dagari 27 Sissala 28 English 29 Other (specify) 88 DON'T KNOW 99 REFUSED
B1.2	How many years ago did your household arrive in this village? ENTER 0 IF LESS THAN ONE YEAR AGO -1 REFUSED; -2 DON'T KNOW	_ _	
B1.3	When your household arrived in this village, from where did it come? 1 THIS REGION (NEARBY); 2 ELSEWHERE IN GHANA 3 ANOTHER COUNTRY; 7 REFUSED; 8 DON'T KNOW	_	
B1.4	What is the main language you speak at home?	_ _	

Now I would like to ask you some questions about the makeup of your HH. By household, we mean those of you that sleep under the same roof and take meals together at least four days a week.” First, I would like to ask you the name of each person’s in this household. IF THEY DO NOT WANT TO GIVE NAMES: or please give me initials or some other way for us to refer to them. COLLECT ALL NAMES FIRST IN B2.2 AND THEN ASK B2.3 – B2.7 FOR EACH PERSON BEFORE MOVING ON TO THE NEXT HH MEMBER.

B2. HOUSEHOLD ROSTER TO BE COMPLETED FOR ALL PERSONS IN THE HOUSEHOLD, INCLUDING FOR HOUSEHOLD MEMBERS NOT PRESENT AT THE TIME OF THE INTERVIEW.		CODES FOR B2.4					
B2.1	B2.2	B2.3	B2.4	B2.5	B2.6	B2.7	
Member ID	Can you tell me the name of all the members of this household? Record the household members beginning with the HH head, followed by the spouse and then the children starting with youngest first and concluding with the oldest. ROSTER TO BE COMPLETED FOR ALL PERSONS IN THE HOUSEHOLD, INCLUDING FORHOUSEHOLD MEMBERS NOT PRESENT AT THE TIME OF THE INTERVIEW.	What is [NAME]’s gender? 1 FEMALE 2 MALE 8 DON'T KNIW 9 REFUSED	How is [NAME] related to the head of the household? SEE CODES	How many years old is [NAME]? IF UNDER AGE 1, ENTER "0"; IF OVER 99, ENTER 99 -1 REFUSED -2 DON'T KNOW Years	What was the highest grade / level [NAME] completed? IF B2.5 < 5 SKIP TO NEXT HOUSEHOLD MEMBER SEE CODES	Is [NAME] attending school this year? 2 NO 1 YES 88 DON'T KNOW 99 REFUSED IF B2.5 < 5 or B2.5 > 25 SKIP TO NEXT HOUSEHOLD MEMBER	CODES FOR B2.4 1 HEAD 2 SPOUSE 3 CO-SPOUSE 4 SON/DAUGHTER 5 SON/DAUGHTER IN LAW 6 PARENT 7 PARENT IN LAW 8 SIBLINGS/SIBLINGS IN LAW 9 OTHER RELATIVES 10 NON-RELATIVES 77 REFUSED 88 DON'T KNOW 99 OTHER CODES FOR B2.6 999 None 01 Pre-school 02 Primary 1
01	_ _ _ _	_	_	_ _	_ _	_	
02	_ _ _ _	_	_	_ _	_ _	_	

IRRIGATION BASELINE SURVEY

QUESTIONNAIRE No. | | | | | |

03	[]	_	_	_ _	_ _	_	03 Primary 2 04 Primary 3 05 Primary 4 06 Primary 5 07 Primary 6 08 JSS1 09 JSS2 10 JSS3 11 M1 12 M2 13 M3 14 M4 15 SSS1 16 SSS2 17 SSS3 1000SSS4 18 S1 19 S2 20 S3 21 S4 22 S5 23 L6 24 U6 25 Voc/Tech/Computer/Comm 26 Teacher Training 27 Nursing 28 Polytechnic 29 University 30 Other Tertiary 31 Other (Specify) 88 DON'T KNOW 99 REFUSED
04	[]	_	_	_ _	_ _	_	
05	[]	_	_	_ _	_ _	_	
06	[]	_	_	_ _	_ _	_	
07	[]	_	_	_ _	_ _	_	
08	[]	_	_	_ _	_ _	_	
09	[]	_	_	_ _	_ _	_	
10	[]	_	_	_ _	_ _	_	
11	[]	_	_	_ _	_ _	_	
12	[]	_	_	_ _	_ _	_	

C: AGRICULTURAL ORGANIZATIONS

C1	Are any members of the household a <u>current</u> member of any formal, registered cooperative or farmer association? 1 YES 2 NO → C4 99 REFUSED 88 DON'T KNOW	_	CODES FOR C2d/e/f 1 MEMBER, NO FUNCTION 2 MANAGEMENT/ ... ADMINISTRATION ... (NON-FINANCIAL) 3 ACCOUNTANT/ FINANCIAL ... ADMINISTRATION 4 SERVICE PROVIDER 5 TRAINER LEAD FARMER 99 REFUSED 88 DON'T KNOW 5 OTHER [SPECIFY]:
C2	(a-c) Who in your household is a member of any formal, registered cooperative or farmer association? IDENTIFY UP TO THREE (3) MEMBERS OF HOUSEHOLD	(d-f) What special function, if any, do they have in the organization?	
C2.a/d	FIRST HOUSEHOLD MEMBER (a) _	(d) _ [_____]	
C2.b/e	SECOND HOUSEHOLD MEMBER (b) _	(e) _ [_____]	
C2.c/f	THIRD HOUSEHOLD MEMBER (c) _	(f) _ [_____]	
C3	For what reasons (UP TO THREE) do members of your household belong to any formal, registered cooperative or farmer association? IF THE FARMER MENTIONS A REASON, RECORD "1" IN THE RESPONSE BOX; IF NOT MENTIONED, RECORD "0"; THEN → D1		
(a)	Better access to inputs	_	
(b)	Better information about prices	_	
(c)	Better access to training	_	
(d)	Sharing of farming techniques	_	
(e)	Better access to/Sharing of equipment	_	
(f)	Sharing of labor	_	
(g)	Access to new farming plots	_	
(h)	Do not know	_	
(i)	Other 1 [SPECIFY]: [_____]	_	
(j)	Other 2 [SPECIFY]: [_____]	_	
(k)	Other 3 [SPECIFY]: [_____]	_	
C4	For what reasons (UP TO THREE) do members of your household NOT belong to any formal, registered cooperative or farmer association? IF THE FARMER MENTIONS A REASON, RECORD "1" IN THE RESPONSE BOX; IF NOT MENTIONED, RECORD "0"; THEN → D1		
(a)	Costs too much (fees/membership costs)	_	
(b)	Takes too much time	_	
(c)	Does not provide sufficient benefits (in terms of price information or price of crops)	_	
(d)	Does not provide sufficient benefits (in terms of training/sharing of farming techniques, access to inputs)	_	
(e)	Does not provide sufficient benefits (in terms of sharing of equipment)	_	
(f)	Conflict/disagreement with members of cooperative/association	_	

(g)	Do not know		
(h)	Other 1 [SPECIFY]: [_____]	_	_
(i)	Other 2 [SPECIFY]: [_____]	_	_
(j)	Other 3 [SPECIFY]: [_____]	_	_

D. ANCHOR FARMER INTERACTION and TRAINING

D1. Does your household work with Solar Harvest/VegPro in ANY capacity? |_ | 1 YES 2 NO → D2 [TRAINING: The enumerator has a script with the name of the Anchor farmer] 88 DON'T KNOW 99 REFUSED

	D1.1	D1.2	D1.3	D1.5	D1.6	
I will now read a list of the types of assistance the anchor farmer could potentially provide. To your knowledge, which of the following types of assistance are offered by the anchor farmer center? MAKE MULTI-CHOICE AND ASK FOLLOW-UP QUESTIONS ONLY FOR THOSE THAT ARE CHOSEN		Does the anchor farmer offer [ASSISTANCE TYPE] for free? 2 NO 1 YES 88 DON'T KNOW 99 REFUSED	Does your household choose to accept this service from the Anchor farmer? 2 NO 1 YES → D1.6 88 DON'T KNOW 99 REFUSED	Why did your household NOT accept/use this assistance from the anchor farmer? SEE CODES- ALLOW ONLY ONE RESPONSE GO TO NEXT SERVICE	How useful or valuable is/ are the [ASSISTANCE TYPE]? ENUMERATOR SHOULD READ "NOT AT ALL", "SOMEWHAT", "VERY MUCH" TO RESPONDENT 999 NOT AT ALL 1 SOMEWHAT 2 VERY MUCH 99 REFUSED 88 DON'T KNOW	CODES FOR D1.5 1 TOO MUCH WORK 2 CANNOT AFFORD PRICE OR FEES 3 CANNOT AFFORD TO HIRE WORKERS TO DO IT 4 DON'T THINK IT WILL INCREASE YIELDS/NOT USEFUL 5 DON'T NEED IT 6 FORGOT HOW TO DO METHOD 7 WOULD THEN HAVE TO DO MORE WEEDING 8 MORE EXPENSIVE THAN FROM OTHER SOURCES 99 REFUSED 88 DON'T KNOW 9 OTHER [SPECIFY]
(a) Access to additional seed varieties	_	_	_	_ _____	_	
(b) Irrigation training	_	_	_	_ _____	_	
(c) Farm-business training	_	_	_	_ _____	_	
(d) External market opportunities	_	_	_	_ _____	_	
(e) Contract farming	_	_	_	_ _____	_	
(f) Provide fertilizer	_	_	_	_ _____	_	
(g) Provide farm chemicals	_	_	_	_ _____	_	
(h) Land preparation services	_	_	_	_ _____	_	
(i) Equipment services	_	_	_	_ _____	_	
(j) Transport services	_	_	_	_ _____	_	

IRRIGATION BASELINE SURVEY

QUESTIONNAIRE No.

	D1.1	D1.2	D1.3	D1.5	D1.6	
<p>I will now read a list of the types of assistance the anchor farmer could potentially provide. To your knowledge, which of the following types of assistance are offered by the anchor farmer center?</p> <p>MAKE MULTI-CHOICE AND ASK FOLLOW-UP QUESTIONS ONLY FOR THOSE THAT ARE CHOSEN</p>		<p>Does the anchor farmer offer [ASSISTANCE TYPE] for free?</p> <p>2 NO</p> <p>1 YES</p> <p>88 DON'T KNOW 99 REFUSED</p>	<p>Does your household choose to accept this service from the Anchor farmer?</p> <p>2 NO</p> <p>1 YES → D1.6</p> <p>88 DON'T KNOW 99 REFUSED</p>	<p>Why did your household NOT accept/use this assistance from the anchor farmer?</p> <p>SEE CODES- ALLOW ONLY ONE RESPONSE</p> <p>GO TO NEXT SERVICE</p>	<p>How useful or valuable is/ are the [ASSISTANCE TYPE]?</p> <p>ENUMERATOR SHOULD READ "NOT AT ALL", "SOMEWHAT", "VERY MUCH" TO RESPONDENT</p> <p>999 NOT AT ALL 1 SOMEWHAT 2 VERY MUCH 99 REFUSED 88 DON'T KNOW</p>	<p>CODES FOR D1.5</p> <p>1 TOO MUCH WORK 2 CANNOT AFFORD PRICE OR FEES 3 CANNOT AFFORD TO HIRE WORKERS TO DO IT 4 DON'T THINK IT WILL INCREASE YIELDS/NOT USEFUL 5 DON'T NEED IT 6 FORGOT HOW TO DO METHOD</p>
(k) Water and irrigation services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	

D2. TRAINING

D2. Has anyone in your household received any training on best farming practices in the last 5 years? | | | 1 YES 0 NO → Section E

	D2.1	D2.2	D2.3		D2.4	D2.5	D2.6	
Which of the following types of farming best practices training has someone in your household received in the last 5 years? ALLOW MULTIPLE SELECTIONS – ONLY ASK FOLLOW-UP QUESTIONS ON THOSE WHICH ARE SELECTED HERE	Household member who received training? List all people (up to 3) that receive training first, then move to D2.2	For each person trained, how many years ago was the most recent training received? ENTER 0 FOR WITHIN PAST 12 MONTHS 5 WITHIN PAST 12 MONTHS 1 1-2YEAR 2 2-3 YEARS 3 3-4 YEARS 4 MORE THAN 4 YEARS AGO 88 DON'T KNOW 99 REFUSED	Who provided the training? PROVIDE UP TO 2 ANSWERS SEE CODES		Did that person apply what was taught in the training to the last crop cycle (2012)? 2 NO 1 YES →D2.6 88 DON'T KNOW 99 REFUSED	Why did that person NOT practice the methods in which they were trained? SEE CODES ALLOW ONLY ONE RESPONSE	How useful or valuable was the training? ENUMERATOR SHOULD READ "NOT AT ALL", "SOMEWHAT", "VERY MUCH" TO RESPONDENT 1 NOT AT ALL 2 SOMEWHAT 3 VERY MUCH 99 REFUSED 88 DON'T KNOW	CODES FOR D2.3 1 MIDA 2 AGRIBUSINESS CENTER 3 MINISTRY OF FOOD & AGRICULTURE 4 OTHER GOVT AGENCY 5 NGO 6 OTHER FARMER 7 REFUSED 8 DON'T KNOW 9 OTHER CODES FOR D2.5 1 TOO MUCH WORK 2 CANNOT AFFORD PRICE OR FEES 3 CANNOT AFFORD TO HIRE WORKERS TO DO IT 4 DON'T THINK IT WILL INCREASE YIELDS/NOT USEFUL 5 DON'T NEED IT 6 FORGOT HOW TO DO METHOD 7 WOULD THEN HAVE TO DO MORE WEEDING 8 MORE EXPENSIVE THAN FROM OTHER SOURCES 77 REFUSED 88 DON'T KNOW 99 OTHER [SPECIFY]
(a) Farming as a Business								
(b) Crop Production								
(c) Post Harvest Training								
(d) Irrigation Operations								

SECTION E. AGRICULTURAL PRODUCTION

E1 Land Holdings

The following section will ask about your farmland holdings.

The following section will ask about your farmland holdings.

Please tell me about each piece of farm land belonging to your household and any other pieces of land that you are responsible for, whether or not they were cultivated by your household during the LAST 12 MONTHS, from August 2011 to August 2012.

How many pieces of land was this household responsible for during the last 12 months, regardless of whether there was crop growing on them or not? |_|_|

Now, please give me the name or location of each piece of land. I will use these names or locations to refer to the pieces of land for the rest of this interview. Please start with your largest piece of land, then follow with your second largest piece of land and so on.

		E1.1. What is the total size of this piece of land in acres? ENTER THE NUMERIC VALUE HERE -1 REFUSED -2 DON'T KNOW	E1.2. Does the piece of land belong to your household or has it been rented or borrowed? 1 = belongs to HH → E1.6 2 = rented 3 = borrowed → E1.8 88 DON'T KNOW 99 REFUSED	E1.3. Does your household have a share cropping arrangement or do you pay a fixed price? 1 = share cropping 2 = fixed price → E1.5 88 DON'T KNOW 99 REFUSED	E1.4. What is the percentage of harvest your HH pays the landlord? → E1.8 ENTER A PERCENTAGE BETWEEN 0 and 100 -1 REFUSED -2 DON'T KNOW	E1.5. How much is your HH paying the owner of the land for you to use it during the last 12 months? Please include payments in the form of money as well as goods or services. -1 REFUSED -2 DON'T KNOW	E1.6. Does your household lend or rent out [PLOT NAME] to another individual or household? 2= no → E1.8 1 = yes 88 DON'T KNOW 99 REFUSED	E1.7. If "yes", how much did or will your HH receive (in kind or money) for conceding the use of this land during the last 12 months? -1 REFUSED -2 DON'T KNOW
Plot ID	Plot name /location to identify it (if applicable)	Amt						
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								

		E1.8. Was this piece of land cultivated during any period within the past 12 months? 1 YES 2 NO →Next Plot 88 DON'T KNOW 99 REFUSED	E1.9. Is this piece of land more wet; less wet, or about the same as the other lands in your community? 1 MORE 2 LESS 3 ABOUT THE SAME 88 DON'T KNOW 99 REFUSED	E1.10. How many days does it take for this land to drain after a heavy rainfall? (# of Days) -1 REFUSED -2 DON'T KNOW	E1.11 Is this land watered from a source other than rain water? 1YES 2NO → E1.14 88 DON'T KNOW 99 REFUSED	E1.12 Is this piece of land part of the Solar Harvest/VegPro irrigation scheme? 2 NO 1 YES → E1.15 88 DON'T KNOW 99 REFUSED	E1.13. What is the main source of the water for this land besides rain? MAIN SOURCE 1 Weir/ Dam 2 Well 3 Borehole 4 River / Stream 5 Pipe-borne 6 Other (specify) 88 DON'T KNOW 99 REFUSED	E1.14. What is the main method you use to apply the water on this piece of land? MAIN METHOD 1 Irrigation by gravity 2 Irrigation by pump/sprinkler 3 Manual irrigation 5 OTHER (SPECIFY) 88 DON'T KNOW 99 REFUSED	E1.15. In what year was this piece of land last fallow? -1 REFUSED -2 DON'T KNOW
Plot ID	Plot name (if applicable)								
01		_	_	_	_	_	_ _ _	_ _ _	_ _ _
02		_	_	_	_	_	_ _ _	_ _ _	_ _ _
03		_	_	_	_	_	_ _ _	_ _ _	_ _ _
04		_	_	_	_	_	_ _ _	_ _ _	_ _ _
05		_	_	_	_	_	_ _ _	_ _ _	_ _ _
06		_	_	_	_	_	_ _ _	_ _ _	_ _ _
07		_	_	_	_	_	_ _ _	_ _ _	_ _ _
08		_	_	_	_	_	_ _ _	_ _ _	_ _ _
09		_	_	_	_	_	_ _ _	_ _ _	_ _ _
10		_	_	_	_	_	_ _ _	_ _ _	_ _ _

F: Agricultural Production

F1: Wet Season Production

Now I'd like to ask about each of the MAJOR CROPS grown and harvested by your household during the most recent wet season. Please exclude any vegetables or other crops grown in a kitchen garden, as I will ask you about those later. Please tell me about each crop by piece of land that were grown during the most recent WET season that you completed.

	F1.1	F1.2	F1.3	F1.4	F1.5	CODES FOR F1.1
Plot ID	What crops were grown on this piece of land during the last wet season? <i>(Make sure to ask if any part of the plot is in fallow to let us know this as well)</i> Use codes	What percentage of the piece of land used to grow this crop <i>(show percentage diagram)</i> <i>(If 100% is in fallow, skip to next plot)</i> TOTAL MUST ADD TO 100% -1 REFUSED -2 DON'T KNOW	Which household member did most of the work cultivating this piece of land? SEE HOUSEHOLD MEMBER CODES FROM SECTION B 13 HIRED LABOR 999 NONE 88 DON'T KNOW 99 REFUSED	Which other household member assisted the most with cultivating this piece of land? SEE HOUSEHOLD MEMBER CODES FROM SECTION B 13 HIRED LABOR 999 NONE 88 DON'T KNOW 99 REFUSED	What type of equipment did your household use for cultivating this piece of land? CHOOSE ALL THAT APPLY 999 NONE 1 MANUAL POWER 2 ANIMAL POWER 3 MACHINE POWER 99 REFUSED 88 DON'T KNOW	01 FALLOW 10 COTTON 11 MAIZE (DRIED KERNELS) 12 CASSAVA (GARI) 13 MAIZE (FRESH ON HUSK) 14 WHEAT 15 MILLET 16 SORGHUM 17 RICE 18 CASSAVA (TUBERS) 19 POTATOES 20 SWEET POTATO 21 YAMS 22 PLANTAIN 24 CASHEW NUT 25 COCONUT 26 BEANS 27 LENTILS 28 PEAS 29 PIGEON PEA 30 COWPEA 31 CHICKPEA 32 CARROTS 33 TOMATOES 34 CABBAGES 35 SPINACH 36 LETTUCE 37 PEPPERS 38 SQUASH 39 CUCUMBERS 40 OKRA 41 ONIONS 42 BANANAS 43 MANGO 44 PINEAPPLE 45 PAPAYA 46 WATERMELON 47 ORANGES 48 LEMON 49 CASSAVA (CHIPS) 50 SOYA BEANS 51 SUNFLOWER 52 JATROPHA 53 TOBACCO 54 SHELLED GROUNDNUTS 55 UNSHELLED GROUNDNUTS 56 SUNHEMP 57 OTHER 88 DON'T KNOW 99 REFUSED
01	Crop 1 _ _ _ Crop 2 _ _ _ Crop 3 _ _ _	Crop 1 _ _ _ Crop 2 _ _ _ Crop 3 _ _ _	_ _	_ _	_	
02	Crop 1 _ _ _ Crop 2 _ _ _ Crop 3 _ _ _	Crop 1 _ _ _ Crop 2 _ _ _ Crop 3 _ _ _	_ _	_ _	_	
03	Crop 1 _ _ _ Crop 2 _ _ _ Crop 3 _ _ _	Crop 1 _ _ _ Crop 2 _ _ _ Crop 3 _ _ _	_ _	_ _	_	
04	Crop 1 _ _ _ Crop 2 _ _ _ Crop 3 _ _ _	Crop 1 _ _ _ Crop 2 _ _ _ Crop 3 _ _ _	_ _	_ _	_	

IRRIGATION BASELINE SURVEY

QUESTIONNAIRE No. |_|_|_|_|_|_|_|_|

05	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
06	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
07	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
08	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
09	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
10	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				

For each crop grown in the last WET season from April 2012 to August 2012 I will now ask you about how much was harvested and what happened to the crop.

	F2.1	F2.2	F2.3	F2.4	F2.5	F2.6	F2.7	F2.8	F2.9	F2.10	F2.11	F2.12	CODE FOR F2.3
	Crop ID <i>POPULATE WITH CROP CODES FROM PREVIOUS PAGE</i>	How much [CROP] did your household have in stock (in storage) before the harvest? -1 REFUSED -2 DON'T KNOW	Unit of Measure for F2.2 – F2.12 See codes	During the last wet season, how much of [CROP] did your household harvest in total across all pieces of land? USE UNITS FROM 2.4 -1 REFUSED -2 DON'T KNOW	After it was harvested, how much [CROP] was lost to insect, rodents, rotting or some other problem? USE UNITS FROM 2.4 -1 REFUSED -2 DON'T KNOW	How much of the [CROP] harvested during the last wet season was used for animal feed? USE UNITS FROM 2.4 -1 REFUSED -2 DON'T KNOW	What quantity of the [CROP] harvested during the last wet season was sold to the Solar Harvest/VegPro? <i>(IF 0 SKIP TO F2.9)</i> USE UNITS FROM 2.4 -1 REFUSED -2 DON'T KNOW	How much did you receive for each [UNIT] of [CROP] sold to the Solar Harvest/VegPro? ? [CURRENCY] -1 REFUSED -2 DON'T KNOW	What quantity of the [CROP] harvested during the last wet season was sold to someone other than the Solar Harvest/VegPro? <i>(IF 0 SKIP TO F2.11)</i> USE UNITS FROM 2.4 -1 REFUSED -2 DON'T KNOW	How much did you receive for each [UNIT] of [CROP] sold to someone else? [CURRENCY] -1 REFUSED -2 DON'T KNOW	How much of the [CROP] harvested the last wet season has been consumed by members of your household? USE UNITS FROM 2.4 -1 REFUSED -2 DON'T KNOW	How much of the [CROP] harvested during the last wet season is still being stored by your household? USE UNITS FROM 2.4 -1 REFUSED -2 DON'T KNOW	11 KG 12 LITRES 13 BUSHELS 14 BAGS (25 KG) 15 BAGS (50 KG) 16 TINS (5 LITRES) 17 BUCKETS 18 BUNCH 19 CUP 20 OXCARTS 21 CRATES 22 PIECES
(a)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(b)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(c)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(d)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(e)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(f)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(g)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(h)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(i)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(j)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	

(k)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
-----	-----	-----	-----	-------	-----	-----	-------	-------	-----	-------	-------	-------	--

	F3.1	F3.2	F3.3	F3.4	F3.5	F3.6	F3.7	
	Crop <i>FROM PREVIOUS PAGE</i>	What amount of [CROP] seeds did you buy from the Solar Harvest/Veg Pro for the previous WET season? GO TO 3.5 if F3.2 = 0		In total, how much did you pay for the [CROP] seeds that you bought at the Solar Harvest/VegPro?		What amount of [CROP] seeds did you buy at any other source/s other than the Solar Harvest/VegPro for the previous WET season? GO TO NEXT SEED TYPE if F3.5 = 0	In total, how much did you pay for those [CROP] seeds?	
		Quantity -1 REFUSED -2 DON'T KNOW	Unit 11 KG 12 LITRES 13 BUSHELS 14 BAGS (25 KG) 15 BAGS (50 KG) 16 TINS (5 LITRES) 17 BUCKETS 18 BUNCH 19 CUP 20 OXCARTS 21 CRATES 22 PIECES 23 SACHET (1/2 KG)	Total Price -1 REFUSED -2 DON'T KNOW		Quantity -1 REFUSED -2 DON'T KNOW	Unit 11 KG 12 LITRES 13 BUSHELS 14 BAGS (25 KG) 15 BAGS (50 KG) 16 TINS (5 LITRES) 17 BUCKETS 18 BUNCH 19 CUP 20 OXCARTS 21 CRATES 22 PIECES 23 SACHET (1/2 KG)	Total Price -1 REFUSED -2 DON'T KNOW
(a)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _	
(b)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _	
(c)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _	
(d)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _	
(e)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _	
(f)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _	
(g)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _	

(h)	_ _ _	_ _ _		_ _ _ _ _ _ _	_ _ _		_ _ _ _ _ _ _
(i)	_ _ _	_ _ _		_ _ _ _ _ _ _	_ _ _		_ _ _ _ _ _ _
(j)	_ _ _	_ _ _		_ _ _ _ _ _ _	_ _ _		_ _ _ _ _ _ _
(k)	_ _ _	_ _ _		_ _ _ _ _ _ _	_ _ _		_ _ _ _ _ _ _

	F3.8	F3.9	F3.10	F3.11	F3.12	F3.13	F3.14
		What amount of [ITEM] did you buy from the Solar Harvest/VegPro for the previous WET season? GO TO F3.12 if F3.9 = 0		In total, how much did you pay for the [INPUT] you bought at the Solar Harvest/VegPro?	What amount of [ITEM] did you buy from any other source/s other than the Solar Harvest/VegPro for the previous wet season? GO TO NEXT INPUT TYPE if F3.12=0		In total, how much did you pay for the [INPUT] you bought at that source/s?
		Quantity -1 REFUSED -2 DON'T KNOW	Unit 11 KG 12 LITRES 13 BUSHELS 14 BAGS (25 KG) 15 BAGS (50 KG) 16 TINS (5 LITRES) 17 BUCKETS 18 BUNCH 19 CUP 20 OXCARTS 21 CRATES 22 PIECES 23 SACHET (1/2 KG)	Total Price -1 REFUSED -2 DON'T KNOW	Quantity -1 REFUSED -2 DON'T KNOW	Unit 11 KG 12 LITRES 13 BUSHELS 14 BAGS (25 KG) 15 BAGS (50 KG) 16 TINS (5 LITRES) 17 BUCKETS 18 BUNCH 19 CUP 20 OXCARTS 21 CRATES 22 PIECES 23 SACHET (1/2 KG)	Total Price -1 REFUSED -2 DON'T KNOW
(a)	Manure or compost	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _
(b)	Fertilizer	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _
(c)	Pesticide	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _
(d)	Herbicide	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _

SECTION F. AGRICULTURAL PRODUCTION

F4: Dry Season Production

Now I'd like to ask about each of the MAJOR CROPS grown and harvested by your household during the past 12 months. Please exclude any vegetables or other crops grown in a kitchen garden, as I will ask you about those later. Please tell me about each crop by plot that were grown during the most recent DRY season that you completed.

	F4.1	F4.2	F4.3	F4.4	F4.5	CODES FOR F4.1	
Plot ID	What crops were grown on this piece of land during the last dry season? <i>(Make sure to ask if any part of the plot is in fallow to let us know this as well)</i> Use codes	What percentage of the piece of land is used to grow this crop? <i>(show percentage diagram)</i> <i>(If 100% is in fallow, skip to next plot)</i> TOTAL MUST ADD TO 100% -1 REFUSED -2 DON'T KNOW	Which household member did most of the work cultivating this piece of land? SEE HOUSEHOLD MEMBER CODES FROM SECTION B 13 HIRED LABOR 999 NONE 88 DON'T KNOW 99 REFUSED	Which other household member assisted the most with cultivating this piece of land? SEE HOUSEHOLD MEMBER CODES FROM SECTION B 13 HIRED LABOR 999 NONE 88 DON'T KNOW 99 REFUSED	What type of equipment did your household use for cultivating this piece of land? CHOOSE ALL THAT APPLY 999 NONE 1 MANUAL POWER 2 ANIMAL POWER 3 MACHINE POWER 99 REFUSED 88 DON'T KNOW	01 FALLOW 10 COTTON 11 MAIZE (DRIED KERNELS) 12 CASSAVA (GARI) 13 MAIZE (FRESH ON HUSK) 14 WHEAT 15 MILLET 16 SORGHUM 17 RICE 18 CASSAVA (TUBERS) 19 POTATOES 20 SWEET POTATO 21 YAMS 22 PLANTAIN 24 CASHEW NUT 25 COCONUT 26 BEANS 27 LENTILS 28 PEAS 29 PIGEON PEA 30 COWPEA 31 CHICKPEA 32 CARROTS 33 TOMATOES 34 CABBAGES	35 SPINACH 36 LETTUCE 37 PEPPERS 38 SQUASH 39 CUCUMBERS 40 OKRA 41 ONIONS 42 BANANAS 43 MANGO 44 PINEAPPLE 45 PAPAYA 46 WATERMELON 47 ORANGES 48 LEMON 49 CASSAVA (CHIPS) 50 SOYA BEANS 51 SUNFLOWER 52 JATROPHA 53 TOBACCO 54 SHELLED GROUNDNUTS 55 UNSHELLED GROUNDNUTS 56 SUNHEMP 57 OTHER 88 DON'T KNOW 99 REFUSED
01	Crop 1 _ _ _ _ Crop 2 _ _ _ _ Crop 3 _ _ _ _	Crop 1 _ _ _ _ Crop 2 _ _ _ _ Crop 3 _ _ _ _	_ _ _	_ _ _	_		
02	Crop 1 _ _ _ _ Crop 2 _ _ _ _ Crop 3 _ _ _ _	Crop 1 _ _ _ _ Crop 2 _ _ _ _ Crop 3 _ _ _ _	_ _ _	_ _ _	_		
03	Crop 1 _ _ _ _ Crop 2 _ _ _ _ Crop 3 _ _ _ _	Crop 1 _ _ _ _ Crop 2 _ _ _ _ Crop 3 _ _ _ _	_ _ _	_ _ _	_		
04	Crop 1 _ _ _ _ Crop 2 _ _ _ _ Crop 3 _ _ _ _	Crop 1 _ _ _ _ Crop 2 _ _ _ _ Crop 3 _ _ _ _	_ _ _	_ _ _	_		

IRRIGATION BASELINE SURVEY

QUESTIONNAIRE No. |_|_|_|_|_|_|_|_|

05	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
06	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
07	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
08	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
09	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				
10	Crop 1 _ _ _ _	Crop 1 _ _ _ _	_ _ _	_ _ _	_	
	Crop 2 _ _ _ _	Crop 2 _ _ _ _				
	Crop 3 _ _ _ _	Crop 3 _ _ _ _				

For each crop grown in the last DRY season from September 2011 to Mach 2012 I will now ask you about how much was harvested and what happened to the crop.

	F5.1	F5.2	F5.3	F5.4	F5.5	F5.6	F5.7	F5.8	F5.9	F5.10	F5.11	F5.12	CODE FOR F5.3
	Crop ID <i>POPULATE WITH CROP CODES FROM PREVIOUS PAGE</i>	How much [CROP] did your household have in stock (in storage) before the harvest? -1 REFUSED -2 DON'T KNOW	Unit of Measure for F2.2 – F2.12 See codes	During the last dry season, how much of [CROP] did your household harvest in total across all pieces of lands? USE UNITS FROM 5.4 -1 REFUSED -2 DON'T KNOW	After it was harvested, how much [CROP] was lost to insect, rodents, rotting or some other problem? USE UNITS FROM 5.4 -1 REFUSED -2 DON'T KNOW	How much of the [CROP] harvested during the last dry season was used for animal feed? USE UNITS FROM 5.4 -1 REFUSED -2 DON'T KNOW	What quantity of the [CROP] harvested during the last dry season was sold to the Solar Harvest/VegPro? <i>(IF 0 SKIP TO F2.9)</i> USE UNITS FROM 5.4 -1 REFUSED -2 DON'T KNOW	How much did you receive for each [UNIT] of [CROP] sold to the Solar Harvest/VegPro? [CURRENCY] -1 REFUSED -2 DON'T KNOW	What quantity of the [CROP] harvested during the last dry season was sold to someone other than the Solar Harvest/VegPro? <i>(IF 0 SKIP TO F2.11)</i> USE UNITS FROM 5.4 -1 REFUSED -2 DON'T KNOW	How much did you receive for each [UNIT] of [CROP] sold to someone else? [CURRENCY] -1 REFUSED -2 DON'T KNOW	What quantity of the [CROP] harvested the last dry season has been consumed by members of your household? USE UNITS FROM 5.4 -1 REFUSED -2 DON'T KNOW	How much of the [CROP] harvested during the last dry season is still being stored by your household? USE UNITS FROM 5.4 -1 REFUSED -2 DON'T KNOW	11 KG 12 LITRES 13 BUSHELS 14 BAGS (25 KG) 15 BAGS (50 KG) 16 TINS (5 LITRES) 17 BUCKETS 18 BUNCH 19 CUP 20 OXCARTS 21 CRATES 22 PIECES
(a)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(b)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(c)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(d)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(e)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(f)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(g)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	
(h)	_ _	_ _	_ _	_ _ _	_ _	_ _	_ _ _	_ _ _	_ _	_ _ _	_ _ _	_ _ _	

(e)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _
(f)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _
(g)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _
(h)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _
(i)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _
(j)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _
(k)	_ _	_ _		_ _ _ _ _ _ _	_ _		_ _ _ _ _ _ _

	F6.8	F6.9	F6.10	F6.11	F6.12	F6.13	F6.14
		What amount of [ITEM] did you buy from the Solar Harvest/VegPro for the previous Dry season? GO TO F6.12 if F6.9 = 0		In total, how much did you pay for the [INPUT] you bought at the Solar Harvest/VegPro?	What amount of [ITEM] did you buy from any source/s besides the Solar Harvest/VegPro for the previous Dry season? GO TO NEXT INPUT TYPE if F6.12=0		In total, how much did you pay for the [INPUT] you bought from that source/s?
		Quantity -1 REFUSED -2 DON'T KNOW	Unit 11 KG 12 LITRES 13 BUSHELS 14 BAGS (25 KG) 15 BAGS (50 KG) 16 TINS (5 LITRES) 17 BUCKETS 18 BUNCH 19 CUP 20 OXCARTS 21 CRATES 22 PIECES	Total Price -1 REFUSED -2 DON'T KNOW	Quantity -1 REFUSED -2 DON'T KNOW	Unit 11 KG 12 LITRES 13 BUSHELS 14 BAGS (25 KG) 15 BAGS (50 KG) 16 TINS (5 LITRES) 17 BUCKETS 18 BUNCH 19 CUP 20 OXCARTS 21 CRATES 22 PIECES	Total Price -1 REFUSED -2 DON'T KNOW
(a)	Manure or compost	_ _		_ _ _	_ _		_ _ _
(b)	Fertilizer	_ _		_ _ _	_ _		_ _ _
(c)	Pesticide	_ _		_ _ _	_ _		_ _ _
(d)	Herbicide	_ _		_ _ _	_ _		_ _ _

G. AGRICULTURAL LAND

Now, I would like to ask you few questions about any kitchen gardens your household might have. First I will ask you about any kitchen garden you grew during the WET SEASON and then about the DRY SEASON.

G1.	Does your household have a kitchen garden to grow vegetables in the WET season? 1 YES 2 NO → G2 88 DON'T KNOW 99 REFUSED								_	CODES FOR G1.2 & G2.1 01 FALLOW 35 SPINACH 10 COTTON 36 LETTUCE 11 MAIZE (DRIED KERNELS) 37 PEPPERS 12 CASSAVA (GARI) 38 SQUASH 13 MAIZE (FRESH ON HUSK) 39 CUCUMBERS 14 WHEAT 40 OKRA 15 MILLET 41 ONIONS 16 SORGHUM 42 BANANAS 17 RICE 43 MANGO 18 CASSAVA (TUBERS) 44 PINEAPPLE 19 POTATOES 45 PAPAYA 20 SWEET POTATO 46 WATERMELON 21 YAMS 47 ORANGES 22 PLANTAIN 48 LEMON 24 CASHEW NUT 49 CASSAVA (CHIPS) 25 COCONUT 50 SOYA BEANS 26 BEANS 51 SUNFLOWER 27 LENTILS 52 JATROPHA 28 PEAS 53 TOBACCO 29 PIGEON PEA 54 SHELLED GROUNDNUTS 30 COWPEA 55 UNSHELLED GROUNDNUTS 31 CHICKPEA 56 SUNHEMP 32 CARROTS 57 OTHER 33 TOMATOES 88 DON'T KNOW 34 CABBAGES 99 REFUSED
G1.1	Which household member is mainly responsible for caring for the kitchen garden in the WET season? _ _ (member ID)									
G1.2	What vegetables or other crops do you grow in this kitchen garden in the WET season? Please list them in order of importance to your household in terms of amount consumed or sold. SEE CODES AT RIGHT									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
	_ _	_ _	_ _	_ _	_ _	_ _	_ _	_ _	_ _	
G1.3	In the last 12 months how much income [CURRENCY] did your household earn from vegetables and other crops grown in this kitchen garden in the WET season? -1 REFUSED -2 DON'T KNOW								_ _ _ _ _	
G1.4	How much land is used for this kitchen garden in the WET season? -1 REFUSED -2 DON'T KNOW								(a) Amount (b) Units 1 Acres 2 Poles 3 Ropes 4 Plots 5 Sq.meters 88 DON'T KNOW 99 REFUSED	
								_ _	_	
G2.	Does your household have a kitchen garden to grow vegetables in the DRY season? 1 YES 2 NO → SECTION H 88 DON'T KNOW 99 REFUSED								_	
G2a	Which household member is mainly responsible for caring for the kitchen garden in the DRY season? _ _ (member ID)									
G2.1	What vegetables or other crops do you grow in this kitchen garden in the DRY season? Please list them in order to your household in terms of amount consumed or sold. SEE CODES AT RIGHT									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
	_ _	_ _	_ _	_ _	_ _	_ _	_ _	_ _	_ _	
G2.2	In the last 12 months how much income [CURRENCY] did your household earn from vegetables and other crops grown in this kitchen garden in the DRY season? -1 REFUSED -2 DON'T KNOW								_ _ _ _ _	

G2.3	How much land is used for this kitchen garden in the DRY season? -1 REFUSED -2 DON'T KNOW	(a) Amount	(b)Units 1 Acres 2 Poles 3 Ropes 4 Plots 5 Sq.meters 88 DON'T KNOW 99 REFUSED
		_ _ _	_

H. AGRICULTURAL ASSETS

Please tell me about any farm equipment that your household owns

H1. Farm equipment	H1.1	H1.2	H1.3	H1.4
	How many of this type of [EQUIPMENT] are owned by your household? -1 REFUSED -2 DON'T KNOW <i>IF NONE, ENTER 0 SKIP TO NEXT EQUIPMENT</i>	Did you split the cost of [EQUIPMENT] with any other person outside of your household? 1 YES 2NO → H1.4 88 DON'T KNOW 99 REFUSED	How many people outside of your household contributed to the purchase of [EQUIPMENT]? -1 REFUSED -2 DON'T KNOW	What is the estimated value of one of these [EQUIPMENT] if sold today? [CURRENCY] (unit value) -1 REFUSED -2 DON'T KNOW
(a) Tractor	_ _ _	_	_ _	_ _ _ _ _ _ _
(b) Machine pulled plow or harrow	_ _ _	_	_ _	_ _ _ _ _ _ _
(c) Animal pulled plow	_ _ _	_	_ _	_ _ _ _ _ _ _
(d) Animal Cart	_ _ _	_	_ _	_ _ _ _ _ _ _
(e) Seeder	_ _ _	_	_ _	_ _ _ _ _ _ _
(f) Harvester	_ _ _	_	_ _	_ _ _ _ _ _ _
(g) Spreader or sprayer	_ _ _	_	_ _	_ _ _ _ _ _ _
(h) Wheelbarrow or hand cart	_ _ _	_	_ _	_ _ _ _ _ _ _
(i) Irrigation water pumps	_ _ _	_	_ _	_ _ _ _ _ _ _

(j) Generator	_ _	_	_ _	_ _ _ _ _ _

Please tell me about any farm livestock that your household owns

H2. Farm livestock	H2.1 How many [ANIMALS] does the household own? -1 REFUSED -2 DON'T KNOW IF RESPONDENT DOES NOT OWN [ANIMAL], ENTER "0" SKIP TO NEXT ANIMAL IF 0 SKIP TO NEXT ANIMAL TYPE	H2.2 What is the estimated value of one of these [ANIMAL] if sold today? [CURRENCY] (<i>unit value</i>) 1 REFUSED -2 DON'T KNOW
(a) Cattle	_ _ _ _	_ _ _ _ _ _ _ _
(b) Draft animal such as donkey, horse, or bullock	_ _ _ _	_ _ _ _ _ _ _ _
(c) Goats	_ _ _ _	_ _ _ _ _ _ _ _
(d) Sheep	_ _ _ _	_ _ _ _ _ _ _ _
(e) Pigs	_ _ _ _	_ _ _ _ _ _ _ _
(f) Chickens	_ _ _ _	_ _ _ _ _ _ _ _
(g) Other fowl	_ _ _ _	_ _ _ _ _ _ _ _
(h) Rabbit	_ _ _ _	_ _ _ _ _ _ _ _
(i) Other 1 [SPECIFY]: [_____]	_ _ _ _	_ _ _ _ _ _ _ _
(jb) Other 2 [SPECIFY]: [_____]	_ _ _ _	_ _ _ _ _ _ _ _
(ic) Other 3 [SPECIFY]: [_____]	_ _ _ _	_ _ _ _ _ _ _ _

J1. 4 Does anyone in your household have a bank account?

2 NO

1 YES

88 DON'T KNOW

99 REFUSED

|_|

J2 Employment and Off-Farm Income (everyone 7 and older) Populate from household member codes FROM SECTION B

We have already talked about cultivating the household plots. Now, I would like to ask you a few questions about any OTHER work that members of your household may have done during the last 12 months, from August 2011 – August 2012.

Member ID	J2.1	J2.2	J2.3
	Other than working on the household plots, did [NAME] do anything else to earn money including work for pay, work in business for his/herself, work in a family business, making things to sell, casual labor, odd jobs, or any other activity to earn money? 2 No →NEXT MEMBER 1 Yes 88 DON'T KNOW 99 REFUSED	In the main activity other than working on the household plots to earn money during the last year was [NAME]... 1 ... a paid employee? 2 ... self employed? 3 ... working for a family business? 88 don't know 99 REFUSED →IF J2.2>1, GO TO J2.4	For whom did [NAME] work in this main activity? ENUMERATOR SHOULD READ RESPONSE OPTIONS TO RESPONDENT 01 Anchor Farmer 02 Other private sector employer (other farm, business, or private services) 03 Government Sector 04 NGO, Inter. Org, or Cooperative 05 Other 88 DON'T KNOW 99 REFUSED
01	_	_	_ _
02	_	_	_ _
03	_	_	_ _
04	_	_	_ _
05	_	_	_ _
06	_	_	_ _
07	_	_	_ _
08	_	_	_ _
09	_	_	_ _
10	_	_	_ _
11	_	_	_ _
12	_	_	_ _
13	_	_	_ _
14	_	_	_ _
15	_	_	_ _
16	_	_	_ _

17	_	_	_
18	_	_	_

Member ID	J2.4	J2.5	J2.6	J2.7	J2.8	
	How much did [NAME] make doing this work (incl. any bonuses, commissions allowances, or tips) ? <u>TIME UNIT CODES</u> 1 Daily 2 Weekly 3 Fortnightly (every two weeks) 4 Monthly 5 Quarterly (every 3 months) 6 Yearly 88 DON'T KNOW 99 REFUSED	Does [NAME] receive any payment for this work in the form of goods and services? 2 No → J2.9 1 Yes 88 DON'T KNOW 99 REFUSED	Approximately what is the value of goods or services provided? <u>TIME UNIT CODES</u> 1 Daily 2 Weekly 3 Fortnightly (every two weeks) 4 Monthly 5 Quarterly (every 3 months) 6 Yearly 88 DON'T KNOW 99 REFUSED			
	GH¢ 88 DON'T KNOW 99 REFUSED	TIME UNIT		GH¢ 88 DON'T KNOW 99 REFUSED	TIME UNIT	
01	_ _ _ _	_	_	_ _ _ _	_	
02	_ _ _ _	_	_	_ _ _ _	_	
03	_ _ _ _	_	_	_ _ _ _	_	
04	_ _ _ _	_	_	_ _ _ _	_	
05	_ _ _ _	_	_	_ _ _ _	_	
06	_ _ _ _	_	_	_ _ _ _	_	
07	_ _ _ _	_	_	_ _ _ _	_	
08	_ _ _ _	_	_	_ _ _ _	_	
09	_ _ _ _	_	_	_ _ _ _	_	
10	_ _ _ _	_	_	_ _ _ _	_	
11	_ _ _ _	_	_	_ _ _ _	_	
12	_ _ _ _	_	_	_ _ _ _	_	
13	_ _ _ _	_	_	_ _ _ _	_	
14	_ _ _ _	_	_	_ _ _ _	_	
15	_ _ _ _	_	_	_ _ _ _	_	
16	_ _ _ _	_	_	_ _ _ _	_	

17	_ _ _ _	_	_	_ _ _ _	_
18	_ _ _ _	_	_	_ _ _ _	_

Member ID	J2.9	J2.10	J2.11	J2.12	J2.13
	During the past 12 months, for how many weeks did [NAME] do work in this activity?	During these weeks, how many hours per week did [NAME] usually work in this activity?	Is [Name] still working on this activity? 2 No 1 Yes 88 DON'T KNOW 99 REFUSED (if activity is seasonal but will work next season indicate 1 Yes)	During the past 12 months, did [NAME] do any secondary work beside the activity was just discussed or working on household plots? 2 No →NEXT MEMBER 1 Yes 88 DON'T KNOW 99 REFUSED	How much did this member earn in the secondary job in the past 12 months? -1 REFUSED -2 DON'T KNOW GH¢
	WEEKS -1 REFUSED -2 DON'T KNOW	HOURS/WEEK -1 REFUSED -2 DON'T KNOW			
01	_ _	_ _ _	_	_	_ _ _ _
02	_ _	_ _ _	_	_	_ _ _ _
03	_ _	_ _ _	_	_	_ _ _ _
04	_ _	_ _ _	_	_	_ _ _ _
05	_ _	_ _ _	_	_	_ _ _ _
06	_ _	_ _ _	_	_	_ _ _ _
07	_ _	_ _ _	_	_	_ _ _ _
08	_ _	_ _ _	_	_	_ _ _ _
09	_ _	_ _ _	_	_	_ _ _ _
10	_ _	_ _ _	_	_	_ _ _ _
11	_ _	_ _ _	_	_	_ _ _ _
12	_ _	_ _ _	_	_	_ _ _ _
13	_ _	_ _ _	_	_	_ _ _ _
14	_ _	_ _ _	_	_	_ _ _ _
15	_ _	_ _ _	_	_	_ _ _ _
16	_ _	_ _ _	_	_	_ _ _ _
17	_ _	_ _ _	_	_	_ _ _ _
18	_ _	_ _ _	_	_	_ _ _ _

Member ID	J2.15	J2.16
		In this secondary activity to earn money during the last year was [NAME]... 1 ... a paid employee? 2 ... self employed? 3 ... working for a family business? 88 don't know 99 REFUSED →IF J2.15>1, →NEXT MEMBER
01	_	_ _
02	_	_ _
03	_	_ _
04	_	_ _
05	_	_ _
06	_	_ _
07	_	_ _
08	_	_ _
09	_	_ _
10	_	_ _
11	_	_ _
12	_	_ _
13	_	_ _
14	_	_ _
15	_	_ _
16	_	_ _
17	_	_ _
18	_	_ _

SECTION K. FOOD SECURITY

ASK THE MEMBER OF THE HOUSEHOLD MAINLY RESPONSIBLE FOR FOOD PREPARATION.

Now, I would like to ask you few questions related to your household’s access to sufficient food for everyone in the household to eat during the year.

K1	During the last 12 months did your household experience a period of time when there was not enough food for everyone to eat (“Hungry Season”)? 2 NO → GO TO SECTION L 1 YES 88 DON’T KNOW 99 REFUSED	_	CODES FOR K2.1 – K2.2 01 JANUARY 02 FEBRUARY 03 MARCH 04 APRIL 05 MAY 06 JUNE 07 JULY 08 AUGUST 09 SEPTEMBER 10 OCTOBER 11 NOVEMBER 12 DECEMBER 88 DON’T KNOW 99 REFUSED
K2.1	What was the starting month of the Hungry Season?	_ _	
K2.2	What was the ending month of the Hungry Season?	_ _	

For the rest of these questions that I will ask about your household’s food security, I want you to think about the last four weeks of the last Hungry Season, the [ENDING MONTH = LAST MONTH OF THE CRITICAL PERIOD]

K3	Last [ENDING MONTH] were you or any household member not able to eat the kinds of food that you usually eat because of a lack of money or other resources? 1 YES 2 NO → GO TO K4 88 DON’T KNOW 99 REFUSED	_	CODES FOR K3.1, K4.1, K5.1, K6.1 1 RARELY (ONCE OR TWICE) 2 SOMETIMES (3-10 TIMES) 3 OFTEN (MORE THAN 10 TIMES) 99 REFUSED 88 DON’T KNOW
K3.1	How often did this happen during [ENDING MONTH]? SEE CODES	_	
K4	Last [ENDING MONTH], did you or any other household member have to eat a smaller meal because of a lack of money or other resources? 1 YES 2 NO → GO TO K5 88 DON’T KNOW 99 REFUSED	_	
K4.1	How often did this happen during [ENDING MONTH]? SEE CODES	_	
K5	Last [ENDING MONTH] did you or any other household member have to eat fewer meals because of a lack of money or other resources? 1 YES 2 NO → GO TO K6 88 DON’T KNOW 99 REFUSED	_	
K5.1	How often did this happen during [ENDING MONTH]? SEE CODES	_	
K6	Last (ENDING MONTH) did you or any other household member have to sell any household assets that you did not want to in order to buy food? 1 YES 2 NO → GO TO SECTION L 88 DON’T KNOW 99 REFUSED	_	

K6.1	How often did this happen during [ENDING MONTH]? <i>SEE CODES</i>	_	
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Section L

L.1	INTERVIEWER PLEASE CHOOSE THE HOUSING TYPE FROM THIS LIST:	1 Formal dwelling / house on a separate site 2 Traditional dwelling / hut 3 Informal dwelling / shack 4 Other (SPECIFY) 88 DON'T KNOW 99 REFUSED		L1.1	L1.2
				_	
L.2	How many rooms in total does this household occupy? COUNT BEDROOMS, LIVING ROOMS, DINING ROOMS, KITCHEN BUT NOT BATHROOMS IF NONE ENTER 0 -1 REFUSED -2 DON'T KNOW	_ _			
L.3	What type of sanitation toilet do you use daily?	9 No facilities 1 Flush toilet to sewage network 2 Flush toilet to septic tank 3 Chemical Toilet 4 Ventilated Improved Pit Latrine 5 Pit Latrine 6 Tub or bucket latrine (where feces are manually removed) 7 Other (Specify) 88 DON'T KNOW 99 REFUSED		L3.1	L3.2
				_	Specify: _____
L.4	What is your main source of drinking water?	1 Piped water into dwelling 2 Piped water to yard/plot 3 Piped into someone else's yard/plot 4 Public tap/standpipe 5 Tube-well/borehole 6 Protected dug well 7 Unprotected dug well	8 Protected spring 9 Unprotected spring 10 Rainwater collection 11 Bottled/Sachet water 12 Cart with small tank/drum 13 Tanker-truck 14 Surface water (river, dam, lake, pond) 88 DON'T KNOW 99 REFUSED	_ _	
L.5	What is the main	1 Wood	5 Kerosene	L5.1	L5.2

IRRIGATION BASELINE SURVEY

QUESTIONNAIRE No. | | | | |

	fuel used by the household for cooking?	2 Charcoal 3 Gas 4 Electricity	6 Crop residue/ sawdust 7 Animal waste 8 Other (Specify) 88 DON'T KNOW 99 REFUSED	_	Specify: _____
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IRRIGATION BASELINE SURVEY

QUESTIONNAIRE No. |_|_|_|_|_|

M. FARM AREA(S) SIZE(S) AND NUMBER(S) OF PLOTS

NOTE THAT THE FOLLOWING MEASUREMENTS MUST BE MADE AT THE FARMER'S PLOTS AREA(S) AND THAT SOME OF THESE MEASUREMENTS REQUIRE USE OF THE MAP60 GPS UNIT.

LOCATION OF (CENTER OF) PLOT AREAS AND SIZE OF AREAS (HA) BY WALKING AROUND AREAS WITH THE GPS:

IRRIGATION BASELINE SURVEY

QUESTIONNAIRE No.

M1.1 PLOT AREA 1 – Was this plot measured? 1 YES 2 NO 88 DON'T KNOW 99 REFUSED			COMMENTS/ OBSERVATIONS
M1.1a	Area 1 Center	Latitude	N- <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> '
M1.1b		Longitude	E - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> '
M1.1c	Area 1 size (ha) -1 REFUSED -2 DON'T KNOW		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
M2.1 PLOT AREA 2 – Was this plot measured? 1 YES 2 NO 88 DON'T KNOW 99 REFUSED			COMMENTS/ OBSERVATIONS
M2.1a	Area 2 Center	Latitude	N- <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> '
M2.1b		Longitude	E - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> '
M2.1c	Area 2 size (ha) -1 REFUSED -2 DON'T KNOW		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
M3.1 PLOT AREA 3 – Was this plot measured? 1 YES 2 NO 88 DON'T KNOW 99 REFUSED			COMMENTS/ OBSERVATIONS
M3.1a	Area 3 Center	Latitude	N- <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> '
M3.1b		Longitude	E - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> '
M3.1c	Area 3 size (ha) -1 REFUSED -2 DON'T KNOW		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
M4.1 PLOT AREA 4 – Was this plot measured? 1 YES 2 NO 88 DON'T KNOW 99 REFUSED			COMMENTS/ OBSERVATIONS
M4.1a	Area 4 Center	Latitude	N- <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> '
M4.1b		Longitude	E - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ° <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> '
M4.1c	Area 4 size (ha) -1 REFUSED -2 DON'T KNOW		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

