Effectiveness and Impacts of Extension Methods to Disseminate Solar Treatment and Triple Bag Technology in Burkina Faso

ATTENDANCE FORM FOR EACH VILLAGE, 2012

X1. Date of training: _____ / _____ / _2012_ X1a. Month (1-12) X1b. Day (1-31) X1c. Year	**X2**. What is your name? _____ / _____ X2a. First Name X2b. Last Name
X3. **Village** where training will take place:	**X4. Department** name:

INSTRUCTIONS*: Please collect this information* ***before the training****. Use* ***one questionnaire per village****. Take this questionnaire with you when you leave the village.*

T0	**T1**	**T2**	**N1**	**N2**	**N3**	**N4**	**N5**
No.	Farmer First Name	Farmer Last Name	Gender 1=Male 2=Female	Age (years)	Can he/she read? 1=YES 2=NO	Cell phone number (*write '0' if does not have a cell phone or '1' if did not want to give the number*)	Name of the neighborhood where he/she resides? (*write '1' if he/she resides in the village where the training is taking place*)
1							
2							
3							
4							
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15							
16							
17							
18							

ATTENDANCE FORM Village Name: _____

T0	**T1**	**T2**	**N1**	**N2**	**N3**	**N4**	**N5**
No.	Farmer First Name	Farmer Last Name	Gender 1=Male 2=Female	Age (years)	Can he/she read? 1=YES 2=NO	Cell phone number (*write '0' if does not have a cell phone or '1' if did not want to give the number*)	Name of the neighborhood where he/she resides? (*write '1' if he/she resides in the village where the training is taking place*)
19							
20							
21							
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37							
38							
39							
40							
41							
42							

ATTENDANCE FORM Village Name: _____

T0	**T1**	**T2**	**N1**	**N2**	**N3**	**N4**	**N5**
No.	Farmer First Name	Farmer Last Name	Gender 1=Male 2=Female	Age (years)	Can he/she read? 1=YES 2=NO	Cell phone number (*write '0' if does not have a cell phone or '1' if did not want to give the number*)	Name of the neighborhood where he/she resides? (*write '1' if he/she resides in the village where the training is taking place*)
43							
44							
45							
46							
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48							
49							
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62							
63							
64							
65							
66							

ATTENDANCE FORM Village Name: _____

T0	**T1**	**T2**	**N1**	**N2**	**N3**	**N4**	**N5**
No.	Farmer First Name	Farmer Last Name	Gender 1=Male 2=Female	Age (years)	Can he/she read? 1=YES 2=NO	Cell phone number (*write '0' if does not have a cell phone or '1' if did not want to give the number*)	Name of the neighborhood where he/she resides? (*write '1' if he/she resides in the village where the training is taking place*)
67							
68							
69							
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86							
87							
88							
89							
90							

ATTENDANCE FORM Village Name: _____

T0	**T1**	**T2**	**N1**	**N2**	**N3**	**N4**	**N5**
No.	Farmer First Name	Farmer Last Name	Gender 1=Male 2=Female	Age (years)	Can he/she read? 1=YES 2=NO	Cell phone number (*write '0' if does not have a cell phone or '1' if did not want to give the number*)	Name of the neighborhood where he/she resides? (*write '1' if he/she resides in the village where the training is taking place*)
91							
92							
93							
94							
95							
96							
97							
98							
99							
100							
101							
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103							
104							
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106							
107							
108							
109							
110							
111							
112							
113							
114							

Village ID (see CA8): _____

Effectiveness and Impacts of Extension Methods to Disseminate Solar Treatment and Triple Bag Technology in Burkina Faso

Village-level Questionnaire for Baseline Survey, 2012

INSTRUCTIONS*: You must interview the leader or chief of the village. If other people knowledgeable about cowpea production in the village are available, please also invite them. However, keep the number of people participating in this interview small (less than three). Read the CONSENT STATEMENT and if he/she/they agree(s) to be interviewed, begin the interview.*

CONSENT STATEMENT

My name is _____. I am assisting xxxx in conducting a study to document the effects of extension messages about controlling cowpea pests and the methods used to deploy them on changes in cowpea producers' knowledge, perceptions, and behavior in Burkina Faso. **I would like to ask you** questions related to your **last cowpea production cycle and post-harvest and storage practices**. The **information you provide** will be used to determine what is the best method of deployment of post-harvest pest control technologies among cowpea producers in the country. The xxxx at yyyy is **funding this study**. Our collaborator in Burkina Faso is zzzz.

The interview will take approximately **80 minutes**. Your participation is **voluntary**. Your **refusal to participate** or to withdraw from the study carries **no penalty** or loss of any benefits. You are **free to not answer any** of the questions I will ask. However, your answers will be valuable to assess the most effective method to disseminate post-harvest IPM messages in your country. All information provided by you will be **kept confidential**. Your privacy will be protected to the maximum extent allowable by law.

If you have any **questions or concerns** about your participation in this study, please contact xxxx.

Do you have any questions about this study?

<Enumerator: pause and respond to any questions raised, then continue with the following statement>

By answering my questions, you indicate your willingness to **voluntarily** participate in the study.

NOTES:

**Sentences in "italics" are instructions for the enumerator*		
*ID = Identification		

CA. Village and respondents' general information

First I would like to ask a few questions about you. Enumerator: *fill in* CA1-CA8 *before the interview begins. Start on question* CA9.

CA1. Date of the Interview: _____ / _____ / _2012_ CA1a. Month CA1b. Day CA1c. Year		**CA2**. Enumerator name:	**CA3**. Supervisor name:
CA4. Region ID: _____ [1] Boucle du Mouhoun [2] Nord	**CA5**. Province ID: _____ [1] Sourou [2] Passore	**CA6**. Department ID: _____ [101] Tougan [201] Samba [103] Kiembara [208] Arbolle [107] Toeni [209] Yako	**CA7**. Village name:
CA8. Village ID (*see IDs in the sheet provided*): _____ (**Enumerator**: *write this ID at the top of each page*)		**CA9**. At how many meters above sea level (elevation) is this village located? _____	

CA10a	**CA10b**	**CA11a**	**CA11b**	**CA12a**	**CA12b**	**CA13**	**CA14**	**CA15**
What is your name and title/position in the village? (*write answers for each person--up to three people*) TITLE/POSITION CODES [1] Leader/Chief [4] [2] Village Committee for Development [88] Not applicable (no more people interviewed) [3] [99] Other (specify)						Respondents' telephone (cell phone or landline) number: [0] Does not own a telephone [1] Prefer not to provide the telephone number [88] Not applicable (no more people interviewed)		
Person 1		Person 2		Person 3		Person 1	Person 2	Person 3
Name	Title/Position	Name	Title/Position	Name	Title/Position			

CB. Location-specific characteristics

Now I would like to ask you about your village and the main commercial town where residents of this village buy and sell goods and services.

CB1. What is the **main commercial town** where residents of this village purchase goods and services? (*name*)	
CB2. How **far away (km)** is your village from the **town** mentioned in CB1? (km*; write zero if they are the same*)	
CB3. What is the **most common way** residents of your village use to get to the town mentioned in CB1? (*select one*) [1] Bus service [4] Motorcycle/tricycle [88] Not applicable (if the commercial town is the same village) [2] Truck [5] Bicycle [3] Pick up/small car [6] By foot [99] Other (specify): _____	
CB4a. Is there a **bus service** in this village? [1] YES [2] NO => *Go to CB5*	
CB4b. **If YES**, how often do the bus stops in the village? [1] Every day [2] Several times a week [3] Once a week	

CB5. What is the **condition of the road** between your village and the town mentioned in CB1? (*pick the option that best describe the road*) [1] Dirt with damaged sections (e.g. a lot of holes / interrupted) [2] Dirt in good condition (no holes, functions all year) [3] Asphalt with damaged sections [4] Asphalt in good condition [88] Not applicable (if the commercial town is the same village)	
CB6. How **far away (km)** from your village is the **main paved** (asphalt) **road**? (km; *write zero if the village is crossed by or bordering a paved road*)	

CC. Basic and extension services

	CC1	**CC2a**	**CC2b**
Service	ID	Is this service currently available in your village? [1] YES => *Next service* [2] NO	**If NO**, what is the distance to the closest available service center? KM
Access to electricity	11		
Access to running water network	12		
Access to radio	13		
Access to television network	14		
Access to cell phone network	15		
Access to landline telephone network	16		
Access to a health center	17		
Access to private bank services	18		
Access to village/rural banks	19		
Is there a primary school in this village?	20		
Is there a secondary school in this village?	21		
Are there any video viewing club/facility in which the village residents can get together to view educational and extension videos?	22		

CC3a. Is there a government's agriculture extension service office in this village?	[1] YES => *Go to CC4*	[2] NO	
CC3b. **If NO**, do agricultural extension officers regularly (1-2 times per season) visit this village?	[1] YES	[2] NO	
CC4. Where do farmers generally obtain **farm credit** for their crops? (*list only the most commonly used source*) [0] Don't have access to farm credit [1] Village/rural banks [2] Private banks [3] Cotton or other agricultural companies [4] NGOs [5] Government's farm banks [99] Other (specify): _____			

Village ID (see CA8): _____

CD. Agricultural-related information

CD1	CD2	CD3	CD4	CD5	CD6	CD7
Is there any permanent **input dealer** in this village? [1] YES [2] NO => *Go to CD3*	**If YES**, do farmers generally purchase their fertilizer and pesticides at this input dealer? [1] YES => *Go to CD4* [2] NO => *Go to CD4*	**If NO**, where do farmers generally purchase their fertilizer and pesticide (main source)? [0] Farmers never purchase these inputs [1] In the local market (other than at input dealer) [2] In other markets/towns [3] Receive as credit from cotton or other agricultural company [4] Receive from NGOs (as credit or free) [5] Receive from Government (as credit or free) [99] Other (specify)	Where do farmers generally obtain their **cowpea seeds** (main source)? [0] They use grain saved from their previous harvest [1] They borrow/purchase grain from other farmers [2] They borrow/purchase seed from other farmers [3] They purchase grain in the local market [4] Purchase in other markets (villages) as grain [5] Purchase in other markets (villages) as seed [6] Receive from a NGOs [7] Receive from Government [8] Purchase from an input dealer [99] Other (specify)	How did the **rainfall** in 2012 compare to a normal year? [1] Lower [2] The same [3] Higher [77] Don't know	How did the **insect damage on cowpea** in 2012 compare to a normal year? [1] Lower [2] The same [3] Higher [77] Don't know	How did the **disease damage on cowpea** in 2012 compare to a normal year? [1] Lower [2] The same [3] Higher [77] Don't know

CD8a	CD8b	CD8c	CD9	CD10	CD11a	CD11b	CD12a	CD12b
Regarding **cowpea production**, how widespread are the following **practices** in this village? [0] No one does it [1] Less than 25% of cowpea producers do it [2] 25-50% of cowpea producers do it [3] More than 50% of cowpea producers do it (but not all) [4] Everyone does it [77] Don't know			In a **normal year**, on average, what is the **cowpea grain yield** (kg/ha) when no green pods or leaves are harvested during the production cycle? (kg/ha)	Where do farmers generally sell their **cowpea grain** (main place)? [1] To intermediaries at home [2] To intermediaries in the village market [3] Pool their harvest and travel to sell in other villages [4] Pay part of harvest in kind and sell the remaining (to intermediaries or in the market) [99] Other (specify): _____	In 2012, what was the cowpea **grain price** in the village at the **beginning** of the planting season? (CFAs/kg)	What is the source of this price? 1=Village market 2=Market in nearby village 3=Cooperatives or Farmer groups 4=Intermediaries 99=Other (specify)	In 2012, what was the cowpea **grain price** in the village at **harvest**? (CFAs/kg)	What is the source of this price? 1=Village market 2=Market in nearby village 3=Cooperatives or Farmer groups 4=Intermediaries 99=Other (specify)
Harvest green pods	Harvest cowpea leaves	Use cowpea as a fodder crop						

CD13a	CD13b	CD13c	CD13d	CD13ds	CD14a	CD14b	CD14c	CD14d	CD14ds	Codes for CD13, CD14
Regarding **cowpea treatment to kill insects prior to storage**, how widespread is the use of the following **methods** in this village? (*see codes to the right*)				If you answered that other method is used to treat cowpea seed prior to storage, please briefly explain this method	Regarding **storage of cowpea**, how widespread is the use of the following **methods** in this village? (*see codes to the right*)				If you answered that other method is used to store cowpea, please briefly explain this method	**[0]** No one does it **[1]** Less than 25% of cowpea producers do it **[2]** 25-50% of cowpea producers do it **[3]** More than 50% of cowpea producers do it (but not all) **[4]** Everyone does it **[77]** Don't know
Expose seeds to sun covered with plastic (solarization)	Apply insecticide	Seed is never treated	Other method (*If zero, go to CD14a*)		1-2 plastic bags plus 1 jute bag inside each other, sealing each bag?	Metal drum	Sacks (polye-thylene or jute)	Other method (*if zero, go to CD15*)		

CD15. In this village, in the past three years (**2009-2011**), has there been any **training** related to:

	[1] YES	[2] NO
CD15a. Crop management techniques?	_____	
CD15b. Fertilizer use?	_____	
CD15c. Pesticide use?	_____	
CD15d. Integrated pest management?	_____	
CD15e. Post-harvest treatment of grain to kill insects?	_____	
CD15e1. **If YES,** Did this training involve watching a video in a cell phone about how to use this method?	[1] YES	[2] NO
	_____	
CD15f. Storage methods using plastic bags inside each other?	_____	
CD15f1. **If YES,** Did this training involve watching a video in a cell phone about how to use this method?	[1] YES	[2] NO
	_____	
CD15g. Marketing strategies?	_____	

CD16a. In this village, are there any producer/farmer organizations or organized groups working with cowpea? [1] YES [2] NO => *Go to CD17* _____

CD16b. **If YES**, what is the primary activity done by these groups (*main activity only*)? _____

[1] Production technologies (planting, weeding, irrigation, etc.)
[2] Fertilizer (organic or chemical) use or acquisition
[3] Pest management using pesticides
[4] Pest management using biological agents/organic products
[5] Controlling grain pests after harvest
[6] Storage technologies
[7] Marketing alternatives
[88] Don't know
[99] Other (specify) _____

CD17. In this village, are there any producer/farmer organizations or organized groups working on crops other than cowpea? [1] YES [2] NO _____

THANKS VERY MUCH FOR ANSWERING MY QUESTIONS!

ENUMERATOR: Please answer the following question AFTER collecting the household-level data

CD18. How many households were not interviewed because the responsible of cowpea production was not available or because they declined to participate in the study or because nobody was home after two attempts?

_____

POST-TRAINING QUESTIONNAIRE Village Name: _____

Effectiveness and Impacts of Extension Methods to Disseminate Solar Treatment and Triple Bag Technology in Burkina Faso

POST-TRAINING QUESTIONNAIRE IN EACH VILLAGE, 2012

INSTRUCTIONS*: Extension agents who will deliver the training on post-harvest technologies to farmers should fill in the following questionnaire* ***after the training****. Use* ***one questionnaire per village****. Take this questionnaire with you when you leave the village.*

X1. Date: _____ / _____ / _2012_ X1a. Month (1-12) X1b. Day (1-31) X1c. Year	**X2**. What is your name? _____ / _____ X2a. First Name X2b. Last Name	**X3**. **Village name** where training took place:
X4. **Department name** where training took place:	**X5**. What is your cell phone number?	**X6**. How many farmers were present in the training?
X7a. How far is this village from your office? _____ km	**X8**. What transportation method did you use to get to this village? _____ 1=Bus service 4=Bicycle 2=Truck/pick up/small car 5=By foot 3=Motorcycle/tricycle 99=Other (specify): _____	**X9a**. How much did it cost to get to this village? (*if zero, explain why in X9b*) _____CFAs
X7b. How long did it take you to get to this village from your office? _____hours		**X9b.** Explanation for zero cost:
X10. How long did it take you to explain the two methods to the farmers during the training session? _____hours	**X11.** Which group does this village belong to with regards to accessibility of plastics and plastic bags? _____ 1=Village where I left the plastic with someone for easy accessibility 2=Village where I only provided information on where to get the materials ➔ *X17*	**X12.** How many farmers bought plastic bags immediately after the training? _____farmers ***(Please write down their names in the Sales Form)***
X13. Name of the person you left the plastic bags with? _____ / _____ X13a. First Name X13b. Last Name	**X14**. What is the status of this person in the village? _____ 1=Leader/Chief 2=Village Committee for Development 3=Input dealer 99=Other (specify):_____	**X15**. How many plastic bags did you leave with this person? _____bags
X16. What is the cell phone/telephone number of the person you left the plastic bags with?	**X17.** Method of training provided in this village: _____ 1=Training through animated videos ➔ *Complete X18-20* 2=Training by live demonstration ➔ *End this form*	
X18. How many farmers copied the videos from your cell phone to their cell phones after the training sessions? _____farmers ***(Please note down their names in the Transfer of Videos Form)***	**X19.** Name of the person you left the cell phone containing the videos with? _____ / _____ X19a. First Name X19b. Last Name	**X20**. What is the status of this person in the village? _____ 1=Leader/Chief 2=Village Committee for Development 3=Input dealer 99=Other (specify):_____

Effectiveness and Impacts of Extension Methods to Disseminate Solar Treatment and Triple Bag Technology in Burkina Faso

PRE-TRAINING QUESTIONNAIRE IN EACH VILLAGE, 2012

X1. Date:	**X2**. What is your name?	**X3**. **Village w**here training is taking place:	**X4. Department** name:
_____ / _____ / 2012 X1a. Month (1-12) X1b. Day (1-31) X1c. Year	_____ / _____ X2a. First Name X2b. Last Name		

INSTRUCTIONS: *Please fill in the information for each farmer attending the training session **before the training**. Use **one column** for each farmer. These questions must be asked to **each participant privately** (one-on-one basis) and **not in a group** setting. Take this questionnaire with you when you leave the village.*

Farmer number			**1**	**2**	**3**	**4**	**5**
T1	Farmer First Name						
T2	Farmer Last Name						
T3a	In his/her household, who is responsible for cowpea…	Production decisions?					
T3b	0=Does not grow cowpea 1=Self 2=Spouse 3=Other (*specify*)	Storage decisions?					
T4	Have you heard about the technique of exposing the cowpea grain to the sun over a black plastic and covering with a transparent plastic (called solar treatment of seed)? 1=YES 2=NO => ***Go to T5***						
	T4a. When did you first learn about this solarization method? (year)						
	T4b. Tell me your understanding of **when** this method should be used? 1=Prior to storage 77=Don't know 99=Other (*specify*)						
	T4c. Tell me your understanding about what solar treatment does? 1=The farmer was able to correctly point out that it kills insects and makes seeds ready to store 2=The farmer didn't know what solar treatment does						
	T4d. For how long should the seed be exposed to the sun for this method to be effective? (*note down the response including the time units, for example, hours, days, etc.*)						
	T4e. Are you currently using this method or have used it in the past? 1=YES 2=NO						
T5	Have you heard about storing cowpea grain inside one or two plastic bags plus a jute bag and sealing them for storage (called triple bagging)? 1=YES 2=NO => ***Next farmer***						
	T5a. When did you first learn about this triple bagging storage method? (year)						
	T5b. Tell me for which **insect pest** is this method effective in controlling? 1=The farmer was able to correctly name/identify the insect (Bruchids) 2=The farmer did not know						
	T5c. When using this method, is it acceptable to use bags with holes? 1=YES 2=NO 77=Don't know						
	T5d. When using this method, should all the bags be tied together or each bag should be tied separately? 1=Together 2=Separately 77=Don't know						
	T5e. When using this method, is it **necessary** to also use pesticides? 1=YES 2=NO 77=Don't know						
	T5f. Are you currently using this method or have you used it in past? 1=YES 2=NO						

START THIS PAGE WITH ANOTHER FARMER

Farmer number			**6**	**7**	**8**	**9**	**10**
T1	Farmer First Name						
T2	Farmer Last Name						
T3a	In his/her household, who is responsible for cowpea… 0=Does not grow cowpea 1=Self 2=Spouse 3=Other (*specify*)	Production decisions?					
T3b		Storage decisions?					
T4	Have you heard about the technique of exposing the cowpea grain to the sun over a black plastic and covering with a transparent plastic (called solar treatment of seed)? 1=YES 2=NO => ***Go to T5***						
	T4a. When did you first learn about this solarization method? (year)						
	T4b. Tell me your understanding of when this method should be used? 1=Prior to storage 77=Don't know 99=Other (*specify*)						
	T4c. Tell me your understanding about what solar treatment does? 1=The farmer was able to correctly point out that it kills insects and makes seeds ready to store 2=The farmer didn't know what solar treatment does						
	T4d. For how long should the seed be exposed to the sun for this method to be effective? (*note down the response including the time units, for example, hours, days, etc.*)						
	T4e. Are you currently using this method or have used it in the past? 1=YES 2=NO						
T5	Have you heard about storing cowpea grain inside one or two plastic bags plus a jute bag and sealing them for storage (called triple bagging)? 1=YES 2=NO => ***Next farmer***						
	T5a. When did you first learn about this triple bagging storage method? (year)						
	T5b. Tell me for which **insect pest** is this method effective in controlling? 1=The farmer was able to correctly name/identify the insect (Bruchids) 2=The farmer did not know						
	T5c. When using this method, is it acceptable to use bags with holes? 1=YES 2=NO 77=Don't know						
	T5d. When using this method, should all the bags be tied together or each bag should be tied separately? 1=Together 2=Separately 77=Don't know						
	T5e. When using this method, is it **necessary** to also use pesticides? 1=YES 2=NO 77=Don't know						
	T5f. Are you currently using this method or have you used it in past? 1=YES 2=NO						

START THIS PAGE WITH ANOTHER FARMER

Farmer number			**11**	**12**	**13**	**14**	**15**
T1	Farmer First Name						
T2	Farmer Last Name						
T3a	In his/her household, who is responsible for cowpea…	Production decisions?					
	0=Does not grow cowpea 1=Self 2=Spouse 3=Other (*specify*)						
T3b		Storage decisions?					
T4	Have you heard about the technique of exposing the cowpea grain to the sun over a black plastic and covering with a transparent plastic (called solar treatment of seed)? 1=YES 2=NO => ***Go to T5***						
	T4a. When did you first learn about this solarization method? (year)						
	T4b. Tell me your understanding of when this method should be used? 1=Prior to storage 77=Don't know 99=Other (*specify*)						
	T4c. Tell me your understanding about what solar treatment does? 1=The farmer was able to correctly point out that it kills insects and makes seeds ready to store 2=The farmer didn't know what solar treatment does						
	T4d. For how long should the seed be exposed to the sun for this method to be effective? (*note down the response including the time units, for example, hours, days, etc.*)						
	T4e. Are you currently using this method or have used it in the past? 1=YES 2=NO						
T5	Have you heard about storing cowpea grain inside one or two plastic bags plus a jute bag and sealing them for storage (called triple bagging)? 1=YES 2=NO => ***Next farmer***						
	T5a. When did you first learn about this triple bagging storage method? (year)						
	T5b. Tell me for which **insect pest** is this method effective in controlling? 1=The farmer was able to correctly name/identify the insect (Bruchids) 2=The farmer did not know						
	T5c. When using this method, is it acceptable to use bags with holes? 1=YES 2=NO 77=Don't know						
	T5d. When using this method, should all the bags be tied together or each bag should be tied separately? 1=Together 2=Separately 77=Don't know						
	T5e. When using this method, is it **necessary** to also use pesticides? 1=YES 2=NO 77=Don't know						
	T5f. Are you currently using this method or have you used it in past? 1=YES 2=NO						

START THIS PAGE WITH ANOTHER FARMER

Farmer number			**16**	**17**	**18**	**19**	**20**
T1	Farmer First Name						
T2	Farmer Last Name						
T3a	In his/her household, who is responsible for cowpea…	Production decisions?					
	0=Does not grow cowpea 1=Self 2=Spouse 3=Other (*specify*)						
T3b		Storage decisions?					
T4	Have you heard about the technique of exposing the cowpea grain to the sun over a black plastic and covering with a transparent plastic (called solar treatment of seed)? 1=YES 2=NO => ***Go to T5***						
	T4a. When did you first learn about this solarization method? (year)						
	T4b. Tell me your understanding of when this method should be used? 1=Prior to storage 77=Don't know 99=Other (*specify*)						
	T4c. Tell me your understanding about what solar treatment does? 1=The farmer was able to correctly point out that it kills insects and makes seeds ready to store 2=The farmer didn't know what solar treatment does						
	T4d. For how long should the seed be exposed to the sun for this method to be effective? (*note down the response including the time units, for example, hours, days, etc.*)						
	T4e. Are you currently using this method or have used it in the past? 1=YES 2=NO						
T5	Have you heard about storing cowpea grain inside one or two plastic bags plus a jute bag and sealing them for storage (called triple bagging)? 1=YES 2=NO => ***Next farmer***						
	T5a. When did you first learn about this triple bagging storage method? (year)						
	T5b. Tell me for which **insect pest** is this method effective in controlling? 1=The farmer was able to correctly name/identify the insect (Bruchids) 2=The farmer did not know						
	T5c. When using this method, is it acceptable to use bags with holes? 1=YES 2=NO 77=Don't know						
	T5d. When using this method, should all the bags be tied together or each bag should be tied separately? 1=Together 2=Separately 77=Don't know						
	T5e. When using this method, is it **necessary** to also use pesticides? 1=YES 2=NO 77=Don't know						
	T5f. Are you currently using this method or have you used it in past? 1=YES 2=NO						

Respondent ID (see A10): _____

Effectiveness and Impacts of Extension Methods to Disseminate Solar Treatment and Triple Bag Technology in Burkina Faso

Questionnaire for Post-Training Follow-up Survey, 2012

INSTRUCTIONS: *Please ask to speak to the person who **participated in the training** provided by the Government's extension officer about the use of solar treating and triple bagging technologies. If this person is not available after **at least two attempts of contacting**, complete A1-A11b (next page) and end the interview. If this person is available, read the CONSENT STATEMENT and if he/she agrees to be interviewed, begin the interview starting on A1.*

CONSENT STATEMENT

My name is _____. I am assisting xxxx in conducting a study to document the effects of extension messages about controlling cowpea pests and the methods used to deploy them on changes in cowpea producers' knowledge, perceptions, and behavior in Burkina Faso. **I would like to ask you** questions related to your **last cowpea production cycle and post-harvest and storage practices**. The **information you provide** will be used to determine what is the best method of deployment of post-harvest pest control technologies among cowpea producers in the country. The xxxx at yyyy is **funding this study**. Our collaborator in Burkina Faso is zzzz.

The interview will take approximately **80 minutes**. Your participation is **voluntary**. Your **refusal to participate** or to withdraw from the study carries **no penalty** or loss of any benefits. You are **free to not answer any** of the questions I will ask. However, your answers will be valuable to assess the most effective method to disseminate post-harvest IPM messages in your country. All information provided by you will be **kept confidential**. Your privacy will be protected to the maximum extent allowable by law.

If you have any **questions or concerns** about your participation in this study, please contact xxxx.

Do you have any questions about this study?

<Enumerator: pause and respond to any questions raised, then continue with the following statement>

By answering my questions, you indicate your willingness to **voluntarily** participate in the study.

NOTES:

**Sentences in "italics" are instructions for the enumerator*	*ID = Identification	*sp = Specify/provide details

Respondent ID (see A10): _____

A. Screening questions and respondent's general information

A1. Date of the Interview: _____ / _____ / 2012 A1a. Month A1b. Day A1c. Year		**A2**. Enumerator name:	**A3**. Supervisor name:
A4. Region ID: _____ [1] Boucle du Mouhoun [2] Nord	**A5**. Province ID: _____ [1] Sourou [2] Passore	**A6**. Department ID: _____ [101] Tougan [201] Samba [103] Kiembara [208] Arbolle [107] Toeni [209] Yako	**A7**. Village name:
A8. Village ID (*see IDs in the sheet provided*): _____	**A9**. Household number: (*01-12*) _____	**A10**. Respondent ID (*combine A8 and A9. Follow example at the bottom of sheet provided*): (**Enumerator**: *write this ID in this space and at the top of each page*) _____	

ENUMERATOR:

A11a. Is the respondent the person who attended the training session conducted by the Extension Agent on solarization and storage techniques in November 2012? _____

[1] YES [2] NO => ***Give thanks to the producer and end the interview***

A11b. Ask the respondent if he/she is the person responsible for cowpea decisions (either alone or jointly with another household member)? _____

[1] YES => *Go to* ***A12*** [2] NO

A11c. If NO, what is the relationship of the respondent to the cowpea decision maker in the household? _____

[2] Spouse [3] Son/Daughter (>18yrs) [99] Other (specify): _____

A12. Did your household grow cowpeas in the **last** planting season (July-October 2012)? _____

[1] YES => *Go to* ***A13a*** *and* ***refer to this season*** *for all questions* [2] NO => ***Give thanks to the producer and end the interview***

(**Enumerator***: clarify that a household is defined as a unit comprised of members of your immediate family* ***<u>who normally live and eat their meals together</u>***)

A13a. Have you harvested all your cowpea? _____ [1] YES => *Go to* ***A14*** [2] NO	**A13b**. If NO, what proportion of the total area have you harvested to date? _____ [1] Less than half of the total area [2] 50% or more of the total area
A14. Name of the respondent: _____, _____ A14a. First Name A14b. Last Name	**A15**. Respondent's relation to the head of the household: _____ [1] Self [3] Son/Daughter (>18yrs) [2] Spouse [99] Other (specify): _____
A16a. Respondent's phone number: _____ [0] I do not own or have a phone [1] I prefer not to provide my number	**A16b**. Is this a cell phone? _____ [1] YES [2] NO

I would like to start by asking you questions about your post harvest management of cowpea grain.

Respondent ID (see A10): _____

B. Post-harvest management, utilization, and storage of cowpea grain during the 2012 season.

B1	B2	B3a	B3b	B4	B5a	B5b	B5c	B5d	B6a	B6b	B6c	B6d	B6e
Could you please tell me what was the **total amount** of cowpea **grain** you harvested in all fields in **2012**? (**DRY** weight in kilograms)	After harvest, **what did you do** to your cowpea grain to kill insects that could damage the grain during storage? [0] Did not do anything => *B5a* [1] Outside, laying the grain over a black plastic **and covering** with a transparent plastic [2] Outside, laying the grain over other material (not plastic) **and covering** with a transparent plastic [3] Outside, laying the grain over plastic or other material, **not covering it** [4] Applied an insecticide => *B5a* [5] Combination of methods [1] or [2] with [4] [99] Other (describe)	Approximately, **for how long** did you treat the grain using this method? Length of time	Units [1] hours [2] days	How was the **weather** when you were treating the grain using this method? [1] Sunny, no clouds [2] Cloudy [3] Rain a few times and the grain **got wet** [4] Rain a few times but the grain **did not get wet** [77] Don't know/can't remember	From the total cowpea grain **that was harvested**, how much has been […] (*write zero if nothing*) Lost due to pests? (kg)	Lost due to moisture? (kg)	Sold? (kg)	Paid in kind? (kg)	How much of the total cowpea grain **you have remaining** with you as of today do you plan to […] (*write zero if nothing*) Sell in the future? (kg)	Keep as seed for planting next season? (kg)	Keep as food grain for home consumption? (kg)	Use for other purpose? (*if zero, go to B7*) (kg)	Please specify the purpose indicated in B6d [1] Gift [2] Payment in kind [99] Other (sp.)

B7	B8a		B8b	B8c	B8d	B8e	B8f	B8fs
How long do you expect your **food grain** reserves of cowpea to last? [1] Less than one month [2] 1 to less than 3 months [3] 3 to less than 6 months [4] 6 to less than 9 months [5] Until the next harvest [77] Don't know	How much of the total grain you harvested was **stored** using each of the following methods: (*write zero if storage method is/was not used—at least one method should be greater than zero!*) (kilograms)							Please describe the other method used to store grain (as indicated in B8f)
	1-2 plastic bags plus 1 jute bag inside each other, sealing each bag?	Metal drum		In a plastic container	Using ash to control pests	Sacks (polyethylene or jute)	Other method (*if zero, go to B9*)	

B9	B10a	B10b	B10c
In 2011 (last year), what did you do to your cowpea grain to kill insects that could damage the grain during storage? [0] Did not do anything [1] Outside, laying the grain over a black plastic **and covering** with a transparent plastic [2] Outside, laying the grain over other material (not plastic) **and covering** with a transparent plastic [3] Outside, laying the grain over plastic or other material, **not covering it** [4] Applied an insecticide [5] Combination of methods [1] or [2] with [4] [99] Other (describe)	**In 2011 (last year),** please tell me which methods did you use to **store your cowpea grain**, in order of importance (up to 3): [1] 1-2 plastic bags plus a jute bag inside each other, sealing each bag [2] Metal drum [3] A plastic container **with** lid [4] A plastic container **without** lid [5] In a container plus using ash to control pests [6] In sacks (polyethylene or jute) [88] Not applicable (no other method used to store cowpea grain in 2011) => *Go to Section C* [99] Other method (describe)		
	1st (most important)	2nd	3rd

Respondent ID (see A10): _____

C. Farmers' knowledge and perception of the technologies deployed by the project during the 2012 season

Enumerator: *Please explain to the farmer that from now on, the training he/she received about exposing the grain to the sun over a black plastic and covering it with a transparent plastic to kill insects that could damage the cowpea grain during storage will be called "SOLARIZATION METHOD" for simplicity.*

Now I would like to ask you a few questions about the way <u>you treat</u> the grain to kill insects before storing it in the 2012 production season.

1. Solar treating of cowpea grain to kill insects prior to storage in the 2012 season

C1	C2a	C2b1	C2b2	C3	C4
<u>Prior to</u> November 2012, did you know about the solarization method to treat cowpea grain before storage? [1] YES [2] NO => *Go to C3*	**<u>If YES</u>, when** did you first learn about this method prior to November 2012? (year)	**<u>If YES</u>**, from **whom** did you learn about this method prior to November 2012 (main two sources)? [1] An NGO [2] A project implemented by a university from other country [3] Government extension officers [4] Another farmer or relative [5] Farmer organization [88] Not applicable (no more sources) [99] Other (specify) **First**	**Second**	You confirmed that you attended the training provided by the government's extension officer in your village about solarization of cowpea grain **in November 2012.** Can you tell me **what was the format** of the training? Was it: [1] A live demonstration of the technique (no video) => *Go to C4* [2] Showing of a video on a large screen => *Go to C5a* [3] Showing of a video on a television set => *Go to C5a* [4] Showing of a video on a cell phone => *Go to C5a* [5] A combination of above methods (*Enumerator: specify the codes separated by a comma*) => *If this answer **includes** [1], continue with C4 and then with C5a. If this answer **does not** include [1], continue with C5a*	**If your answer to C3 was [1]**, how easy was it to understand the solarization technique as **explained and demonstrated** by the extension officer? [1] Very easy => *Go to C6* [2] I could not understand some parts of the training => *Go to C6* [3] I could not understand most or all parts of the training ==> *Go to C6* **(Continue with C5a only IF answer to C3 was [5]!)**

C5a	C5b1	C5b2	C6	C7	C8
If your answer to C3 was [2] through [5], how easy was to understand this **video**? [1] Very easy => *Go to C6* [2] I could not understand some parts of the video [3] I could not understand most or all parts of the video	If it was somehow difficult to understand the video, what were the **main two limitations** for you to understand the video? [1] Could not understand the language [2] What was in the video was too complicated or difficult to understand [3] The extension agent could not clarify some doubts I had about the content in the video [4] The content in the video was shown too fast [88] Not applicable (no other limitation) [99] Other (explain) **First**	**Second**	**Between November 2012 and today** did you watch a video on **a <u>cell phone</u> of another farmer** that explained how to use the solarization method as a way to **kill insects** before storing the grain? [1] YES [2] NO	**Between November 2012 and today** did you watch a video on **a <u>DVD player</u> shown by another farmer** that explained how to use the solarization method as a way to **kill insects** before storing the grain? [1] YES [2] NO	**Between November 2012 and today** did any other farmer/relative **explain to you <u>verbally</u>** how to use the solarization method as a way to **kill insects** before storing the grain? [1] YES [2] NO

Respondent ID (see A10): _____

C9	C10a	C10b	C11a	C11b
Please tell me again, did you treat cowpea grain (to kill insects before storage) from your **2012 harvest** by exposing the grain to the sun over a black plastic or other material and covering it with a transparent plastic? (**Enumerator**: *this answer must be YES if B2 is* [1], [2], *or* [5]!) [1] YES [2] NO => *Go to C15*	**In 2012 (this year)**, how much did you spend buying the black and transparent plastics you needed to treat the grain using this method? (*write zero if the plastic was bought <u>prior to 2012</u>*) (CFAs)	**In 2012 (this year),** what was the **main source** of these plastics? [0] I bought the plastics prior to 2012 [1] At the government's extension officer office [2] At the input dealer in my village [3] At an input dealer in another village [4] From the village leader/chief [5] From an NGO or farmer organization [99] Other (specify)	Is this the **first time** you used this solarization method to kill insects prior to storage? [1] YES => *Go to C12* [2] NO	**<u>If NO</u>**, **when** did you first use this solarization method to kill insects prior to storage? (year)

C12	C13	C14a	C14b	C14c	C15
On a scale of one to three, one being no trust at all and three being complete trust, how much do you **<u>trust</u>** that using this method really works to kill insects that could damage the grain during storage? [1] No trust at all [2] Medium trust [3] Complete trust	Based on your experience, what is the **major benefit to you** of using the solarization method? [1] I have observed my cowpea losses and wastage go down [2] It has improved the grain quality and appearance and I get a better price [3] It has reduced the use of chemicals and thus cost of storage [4] It has made my cowpea more safe to consume (because of no chemicals) [99] Other (explain)	Suppose you had 100 bags of cowpea and you DID NOT USE the solarization method: Can you tell me based on your experience, how many bags of cowpea in total you would LOSE at the end of […] months because you DID NOT USE the solarization method? (*write zero if the response is 'none'*) ***Go to C16 after answering C14c***			Why you **did not** use these materials/methods to **treat** your cowpea grain to kill insects that could damage it during storage in 2012? (main reason only) [0] I never treat the grain before storing or selling it [1] Black plastic was not available in the village or close by [2] Transparent plastic was not available in the village or close by [3] Plastic was too expensive for me to buy [4] Although this method was explained to me, I did not understand how to use it [5] I do not think that this method really works to kill insects [6] I always use insecticide to treat the grain [7] The seed loses its viability (too dry) and then I can not use it in the next planting season [99] Other (specify)
		1 month	**3 months**	**6 months**	

Respondent ID (see A10): _____

Now, I would like to ask you a few questions about the way you <u>stored</u> your cowpea grain in the 2012 production season.

Enumerator: *Please explain to the farmer that from now on, the training he/she received about storing the cowpea grain inside one or two plastic bags plus a jute bag and sealing them to avoid insect damage and preserve the grain for a long time will be called "TRIPLE BAGGING METHOD" for simplicity.*

2. Storage of cowpea grain in the 2012 season

C16	**C17a**	**C17b1**	**C17b2**	**C18**	**C19**
<u>Prior to</u> November 2012, did you know about the triple bagging method to store cowpea grain? [1] YES [2] NO => *Go to C18*	**<u>If YES</u>**, **when** did you first learn about this method prior to November 2012? (year)	**<u>If YES</u>**, from **whom** did you learn about this method prior to November 2012 (main two sources)? [1] An NGO [2] A project implemented by a university from other country [3] Government extension officers [4] Another farmer or relative [88] Not applicable (no more sources) [99] Other (specify) **First**	**Second**	You confirmed that you attended the training provided by the government's extension officer in your village about triple bagging **in November 2012.** Can you tell me **what was the format** of the training? Was it: [1] A live demonstration of the technique (no video) => *Go to C19* [2] Showing of a video on a large screen => *Go to C20a* [3] Showing of a video on a television set => *Go to C20a* [4] Showing of a video on a cell phone => *Go to C20a* [5] A combination of above methods (*Enumerator: specify the codes separated by a comma*) => *If this answer **includes** [1], continue with C19 and then with C20a. If this answer **does not** include [1], continue with C20a*	**If your answer to C18 was [1]**, how easy was it to understand the triple bagging technique as **explained and demonstrated** by the extension officer? [1] Very easy => *Go to C21* [2] I could not understand some parts of the training => *Go to C21* [3] I could not understand most or all parts of the training => *Go to C21* **(Continue with C20a only IF answer to C18 was [5]!)**

C20a	**C20b1**	**C20b2**	**C21**	**C22**	**C23**	**C24**
If your answer to C18 was [2] through [5], how easy was to understand this **video**? [1] Very easy => *Go to C21* [2] I could not understand some parts of the video [3] I could not understand most or all parts of the video	If it was somehow difficult to understand the video, what were the **main two limitations** for you to understand the video? [1] Could not understand the language [2] What was in the video was too complicated or difficult to understand [3] The extension agent could not clarify some doubts I had about the content in the video [4] The content in the video was shown too fast [88] Not applicable (no other limitation) [99] Other (explain) **First**	**Second**	**Between November 2012 and today** did you watch a video on **a <u>cell phone</u> of another farmer** that explained how to store the cowpea grain using the **triple bagging** method? [1] YES [2] NO	**Between November 2012 and today** did you watch a video on **a <u>DVD player</u> shown by another farmer** that explained how to store the cowpea grain using the **triple bagging** method? [1] YES [2] NO	**Between November 2012 and today** did any other farmer/relative **explain to you <u>verbally</u>** how to store the cowpea grain using the **triple bagging** method? [1] YES [2] NO	Please tell me again, did you **store** cowpea grain from your **2012 harvest** using one or two plastic bags plus a jute bag inside each other and sealing each bag separately with a rope or string (triple bagging)? (**Enumerator**: *this answer must be YES if B8a is greater than zero!*) [1] YES [2] NO => *Go to C30*

Respondent ID (see A10): _____

C25a	C25b	C25c	C25d	C25e	C25f	C25g	C25h
In 2012 (this year), **how many** plastic bags did you purchase to store cowpea? (*write zero if the plastic bags were bought prior to 2012*) (number of bags)	**In 2012** (this year), **how much** did you spend buying these plastic bags? (*write zero if the plastic bags were bought prior to 2012*) (CFAs)	**In 2012** (this year), what was the **main source** of the plastic bags? [0] I bought the plastic bags prior to 2012 [1] At the government's extension officer office [2] At the input dealer in my village [3] At an input dealer in another village [4] From the village leader/chief [5] From an NGO or farmer organization [99] Other (specify)	Did any of the plastic bags you used have **holes**? [1] YES [2] NO [77] Don't know/ did not check the bags	Did the grain contain **live insects or insect eggs** when you pour them into the plastic bags? [1] YES [2] NO [77] Don't know/ did not check the grain	Did you **seal** the first plastic bag (inside) with a rope or string, then seal the second bag (outside), and then seal the jute bag, in this order? [1] YES [2] NO	Do you **plan to use** this storage method to store cowpea grain in the **2013 (next year)** production season? [1] YES [2] NO => *Go to C26a* [77] Don't know => *Go to C26a*	**If YES**, compared to this year, do you plan to increase, decrease, or keep the same the amount of cowpea grain stored using this method? [1] Increase the amount stored [2] Decrease the amount stored [3] I do not plan to change the amount stored using this method [77] Don't know/can't answer

C26a	C26b	C27	C28
Is this the **first time** you used this storage method? [1] YES => *Go to C27* [2] NO	**If NO**, **when** did you first use this storage method? (year)	On a scale of one to three, one being no trust at all and three being complete trust, how much do you **trust** that using this storage method really works to preserve the grain for a long time? [1] No trust at all [2] Medium trust [3] Complete trust	Based on your experience, what is the **major benefit to you** of using the triple bagging storage method? [1] I have observed my cowpea losses and wastage go down [2] It has improved the grain quality and appearance and I get a better price [3] It has reduced the use of chemicals and thus cost of storage [4] It has made my cowpea more safe to consume (because of no chemicals) [99] Other (explain)

C29a	C29b	C29c	C30
Suppose you had 100 bags of cowpea and you DID NOT USE the triple bagging method to store them: Can you tell me based on your experience, how many bags of cowpea in total you would LOSE at the end of […] months because you DID NOT USE the triple bagging storage method? (*write zero if the response is 'none'*) ***Go to C31 after answering C29c***			Why you **did not** use this method to **store** your cowpea grain in 2012? (main reason only) [1] I sold all the grain immediately after harvest [2] Plastic bags were not available in the village or close by [3] Plastic bags were too expensive for me to buy [4] Although this method was explained to me, I did not understand how to use it [5] I do not think that this method really works to store grain [99] Other (specify)
1 month	**3 months**	**6 months**	

Enumerator: *please check the answers to questions* ***C3*** *and* ***C18****. Ask the following questions* ***only*** *to farmers whose answers were* [2], [3], [4], *or* [5] *in any of these two questions. For all other farmers, continue with Section D. Read the following to the farmer:*

Respondent ID (see A10): _____

Since you confirmed that you watched a video about the solarization and/or the triple bagging methods during the training with the government's extension agent in November, please answer the following questions related to the use of these videos.

C31	**C32a**	**C32b**	**C33a**	**C33b**
Did the extension agent **download** any of the animated videos on your cell phone? [1] YES [2] NO, my cell phone can not copy or play videos => *Go to Section D* [3] NO, I did not bring my cell phone to the training => *Go to Section D* [4] NO, I do not have a cell phone => *Go to Section D*	Until today, to approximately how many **people** have you shown any of these videos on your cell phone? (*write zero if none or 77 if do not know/cannot answer*)	Does anyone you have shown the videos on your cell phone **live outside this village**? [1] YES [2] NO	Until today, to approximately how many **cell phones** have you transferred any of these videos? (*write zero if none or 77 if do not know/cannot answer*)	Does anyone on whose cell phone you downloaded the videos **live outside this village**? [1] YES [2] NO

D. Cowpea production during the 2012 season

D1. How many fields did you plant with cowpea in the 2012 season? (*number of fields*)	

Enumerator*: please use this number to determine the number of rows (up to 5) that need to be completed in the following two tables. Start by listing the biggest field.*

D0	**D2a**	**D2b**	**D2c**	**D3a**	**D3b**	**D3c**	**D4**	**D5**	**D6a**	**D6b**	**D6c**	**D7a**	**D7b**	**D8a**	**D8b**
Field ID	Ownership status [1] Own with title [2] Own but no title [3] Rented-in [99] Other (sp)	Planting date for cowpea		How is the […] on this field?			Was this field irriga-ted? [1] YES [2] NO	What is the size (area) of this field? Ha	Was cowpea inter-cropped? [1] YES [2] NO => *Go to D7a*	**If YES**, crop associated with? [1] Maize [2] Sorghum [3] Millet [4] Cotton [99] Other (sp):	What propor-tion of this area was planted to **cowpea**? [1] 25% or less [2] One-third [3] 50% [4] Two-thirds [5] 75% or more	Quantity of seed used		About the variety used	
		Month [1-12]	Week [1-4]	Slope [1] Flat [2] Medium [3] Steep	Soil quality [1] Sand [2] Silt [3] Clay [77] Don't know	Presence of rocks [1] None [2] Some [3] A lot						Quant.	Units [1] kg [99] Other (specify unit and weight)	Name [1] KVX 396-4-5-2D [2] KVX 61-1 [3] IT 98K-205-8 [4] KVX 745-11P [10] Local (no name) [20] Improved (no name) [77] Don't know [99] Other (specify):	Primary seed source [1] Grain saved from previous harvest [2] Other farmer [3] Purchased in the market as grain [4] Purchased from seed producers [5] Given by NGO [6] Given by Government [99] Other (specify):
F1															
F2															
F3															
F4															
F5															

Respondent ID (see A10): _____

D0	D9a	D9b	D9c	D9d	D9e	D9f	D9g	D9h	D10	D11a	D11b	D12a	D12b
Field ID	For each field where cowpea was planted, did you apply any […]								Compared to a normal year, the **insect** incidence this year was: [1] Lower [2] The same [3] Higher [77] Don't know	Date when grain harvest was completed in this field		Total **grain** harvested	
	Chemical fertilizer? [1] YES, applied to cowpea [2] YES, applied to main intercropped crop (other than cowpea) [3] NO	Manu-re?	Fungi-cide?	Chemical insecticide? [1] YES, to cowpea [2] YES, to intercrop. [3] NO => *Go to D9f*	**If YES**, was it effective in contro-lling the insects? [1] YES [2] NO	Organic insecticide? [1] YES, to cowpea [2] YES, to intercrop. [3] NO => *Go to D10*	**If YES**, was it made of neem extract? [1] YES [2] NO => *Go to D10*	**If YES**, was it effective in controlling the insects? [1] YES [2] NO		Month [1-12]	Week [1-4]	Quantity *If 'zero' => Next field OR go to Section E*	Units [1] kg [99] Other (specify unit and weight)
F1													
F2													
F3													
F4													
F5													

E. Background information of the respondent and his/her farm, and family socioeconomic characteristics

E1	E2	E3	E4	E5	E6a	E6b	E6c	E7	E8a	E8b
How old are you? (years)	Your gender [1] Male [2] Female	How many years of schooling/ education have you completed? (number of years)	How many years of farming experience do you have? (number of years)	Are you currently a member of any farmer organization (**FO**) or an organized group? [1] YES [2] NO => *Go to E7*	**If YES**, in what type of organization do you participate in? (*if more than 1 organization, write each one in a separate column-- up to 3 most important ones; if less than 3, enter 88 in columns that are blank*) [1] Farmer cooperative [2] Crop-specific producer organization [3] Non-agricultural business group [88] Not applicable (no more farmer organizations) [99] Other (specify in corresponding space)			Is anyone in your household (excluding you) a member of any farmer organization or organized group? [1] YES [2] NO	**How many fields** of agricultural land belong to your household and how many fields did you rent for **crop production** in 2012? (*list land owned and land rented separately*) (number of fields)	
									Owned	Rented-in

Respondent ID (see A10): _____

E9a	**E9b**	**E10a**	**E10b**	**E10c**	**E11a**	**E11b**	**E11c**
What is the **total area** (in hectares) across all the agricultural fields owned by your household and rented for **crop production** in 2012? (hectares)		Which were the three most important crops on your household's farm in terms of **total area planted** in the 2012 season? (*see codes below*)			Which were the three most important crops on your household's farm in terms of **total family labor devoted** for its production in the 2012 season? (*see codes below*)		
Owned	Rented-in	1st	2nd	3rd	1st	2nd	3rd

E12a	**E12b**	**E12c**	**E13a**	**E13b**	**E13c**
Which were the three most important crops on your household's farm in terms of **purchased inputs (fertilizer + pesticides) devoted** for its production in the 2012 season? (*see codes to the right*)			Which were the three most important crops on your household's farm in terms of **income generated from sales** in the 2012 season? (*see codes to the right*)		
1st	2nd	3rd	1st	2nd	3rd

Crop codes for E10-E13:

[1] Cotton
[2] Cowpea
[3] Sorghum
[4] Maize
[5] Millet
[6] Sesame
[7] Vegetables (e.g. tomatoes, peppers, onions, cabbages)
[88] Not applicable (no more crops)
[99] Other (specify in the corresponding space)

Now, I would like to ask you a few questions about the members of your household, assets you own, and services you have access to, and then we will finish the interview.

E14	**E15**	**E16**	**E17**	**E18**	**E19**	**E20**	**E21**	**E22**	**E23**	**E24**	**E25**	**E26**	**E27**	**E28**	**E29**	**E30**
For how long have you lived in this village? (years)	How many **people** lived in this **household** during the past 12 months?			How many **people** in your household are in the **following age group** (***Enumerator****: write the number of people for each age group. Total across age groups should equal total in E17*)					What material is your house […] made of [1] Compacted mud/clay [2] Stone [3] Straw [4] Cement [5] Dirt [6] Tile [7] Metal/zinc/aluminum [99] Other (specify)			Does your house have […] [1] Yes [2] No				
	Males	Females	Total	0-16	17-25	26-40	41-65	> 65	Walls	Floor	Roof	Well	Latrine (outside)	Bathroom (inside)	Running water	Electricity

Respondent ID (see A10): _____

E31	E32	E33	E34	E35	E36	E37	E38	E39	E40
What are the **top three** sources of your household's **income?** [1] Field crop sales [2] Horticulture crop sales [3] Dairy product sales [4] Livestock sales for meat [5] Other agriculture activity (describe) [6] Renting/leasing land or farm equipment to others [7] Wages/salaries from agricultural labor [8] Wages/salaries from outside agriculture (govt. job, teacher, bank clerk) [9] Income from a non-farm business (describe) [99] Other (describe)			How many of the following animals does your household own today? *If 'none', write zero and go to the next animal type*						
Highest source of income	**Second** highest source of income	**Third** highest source of income	Cows	Donkey	Horses	Goats	Sheep	Swine	Hen

E41	E42	E43	E44	E45	E46	E47	E48	E49	E50	E51	E52	E53	E54	E55
How many of the following assets does your household own today? *If 'none', write zero and go to the next asset*														
Tractor	Tractor plow	Animal plow	Backpack sprayer (*manual*)	Backpack sprayer (*motor*)	Metal silo	Irrigation pump	Bag sewing machine	Carts	Bicycles	Motorcycle/ tricycle	Pick up/ car	Truck	Televi-sion	Radio/ stereo

E56	E57	E58	E59a	E59b	E60	E61	E62
How far is your house from the nearest **market** where you could sell cowpeas? (*write zero if in the same village*) (km)	**How far** is your village from the nearest **highway?** (*write zero if road borders the village*) (km)	Do **you own a cell** phone? [1] YES [2] NO => *Go to E60*	**If YES**, when (year) did you buy this cell phone? (year)	**If YES**, how much did you spend to purchase this cell phone? (CFAs)	Does **anyone else** in your household (excluding you) **own** a cell phone? [1] YES [2] NO => *If NO to E58 **and** NO to E60, Go to E69. If YES to E58 **and** NO to E60, continue with E61*	Can any of the cell phones owned by your family **play videos**? [1] YES [2] NO [77] Don't know	Do any of the cell phones your family owns have **Bluetooth capability**? [1] YES [2] NO [3] Don't know what Bluetooth is [77] Don't know

E63a	E63b	E64a	E64b
Have you **shown videos** from any of these cell phones to other farmers/relatives? [1] YES [2] NO, I **know** how to play videos but have not done this => *Go to E64a* [3] NO, I **don't know** how to play videos using a cell phone => *Go to E64a*	**If YES**, was any of these videos related to cowpea storage technology? [1] YES [2] NO	Have you **shared videos** from any of these cell phones to another cell phone? [1] YES [2] NO, I **know** how to share videos but have not done this => *Go to E65* [3] NO, I **don't know** how to share videos using a cell phone => *Go to E65*	**If YES**, was any of these videos related to cowpea storage technology? [1] YES [2] NO

Respondent ID (see A10): _____

E65	**E66**	**E67a**	**E67b**	**E67c**	**E67d**	**E67e**	**E67f**	**E67g**
Typically, how much does your family spend per month on cell phone usage? (CFAs)	Do you use any of these cell phones to access information/ advice related to your farming operation? [1] YES [2] NO => *Go to E68a*	**<u>If YES</u>**, which of the following types of information/advice you typically access through cell phone? (**Enumerator**: *please read each option and write yes/no in each case*) [1] YES [2] NO Agronomic practices	Pest control methods	Purchase of inputs	Weather forecast	Market prices	Post harvest handling	Other (specify)

E68a	**E68b**	**E68c**	**E69**	**E70**	**E71**
Do you use any of these cell phones to keep in contact with the extension office? [1] YES [2] NO => *Go to E69*	**<u>If YES</u>**, how many times you have called the extension office or received a call from them in this past one month? (times)	**<u>If YES</u>**, were any of these calls related to cowpea storage methods? [1] YES [2] NO	Did your HH **buy cowpeas** for consumption in the past 12 months? [1] YES [2] NO	Did your HH use **agricultural credit** in the past 12 months? [1] YES [2] NO	Did your HH receive **cash remittances** from a relative in the past 12 months? [1] YES [2] NO

E72	**E73**	**E74**	**E75**
In a typical year, what share of your HH **income** comes from cowpea grain sales? [1] Less than a quarter [2] Between one quarter and half [3] Between half and three quarters [4] More than three quarters	In a typical year, what share of your HH annual cowpea **grain consumption** is satisfied by your own production? [1] A quarter or less [2] Between one quarter and half [3] Between half and three quarters [4] More than three quarters	In a typical year, how long does your **food grain reserves** of cowpea last after harvest? [1] Less than one month [2] One to less than three months [3] Three to less than six months [4] Six to less than nine months [5] Until the next harvest [77] Don't know/can't answer	In a typical year, when cowpea reserves are over, how often is **grain purchased** for consumption? [0] Never [1] Every day [2] Few times per week [3] Once a week [4] 2-3 times per month [5] Once a month [77] Don't know / can't answer [99] Other (specify)

THANK YOU VERY MUCH FOR ANSWERING MY QUESTIONS!!!

SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

Effectiveness and Impacts of Extension Methods to Disseminate Solar Treatment and Triple Bag Technology in Burkina Faso

SALES OF PLASTIC BAGS AT THE EXTENSION AGENT'S OFFICE FORM, 2012

INSTRUCTIONS: ***Agent****, please fill out Y1 and Y2. Then, fill out the rest of the table as farmers come to your office to purchase plastic bags from you.* ***Once you do not have more bags to sell****, please continue recording all the information for the farmers who wanted to purchase bags from you (but you could not sell bags to them because you do not have more bags). However, only for these farmers, write ZERO in S3, skip S4 and continue filling out the rest of the information. Add more sheets if needed.*

Y1. What is your name?	**Y2**. Location of your office:
_____ / _____ Y1a. First Name Y1b. Last Name	_____ / _____ Y2a. Department Name Y2b. Village Name

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
1											
2											
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SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
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SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
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SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
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SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
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SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
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SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
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SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
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SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
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SALES FORM—EXTENSION AGENTS (MODIFIED) Your Name: _____

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer (*Write zero if you have no more bags to sell*)	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)	Are these bags only for you? **1**=YES **2**=NO, I am buying these for me **and** other farmer **3**=NO, I am buying these for another farmer	**Name of the village** where this farmer lives	**How far away** is this village from the extension agent's office? (KM)	Approximately **how much** did you spend to travel from your village to here? (CFAs)	Did you travel here **only** to buy the plastic bags? **1**=YES **2**=NO, I also came to do other business
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Effectiveness and Impacts of Extension Methods to Disseminate Solar Treatment and Triple Bag Technology in Burkina Faso

SALES OF PLASTIC BAGS FORM FOR EACH VILLAGE, 2012

INSTRUCTIONS: ***Agent****, please fill out X1-X4. Then, leave this form with the person you will leave the plastic bags with in the villages where the bags were made available (Treatments 1A and 2A). Please ask this person to record every sale and tell him/her that you will ask for this form, the money, and bags not sold in the near future. Leave one form in each village.*

X1. Date of training: _____ / _____ / 2012 X1a. Month (1-12) X1b. Day (1-31) X1c. Year	**X2**. What is your name? _____ / _____ X2a. First Name X2b. Last Name
X3. **Village** name:	**X4. Department** name:

INSTRUCTIONS: ***Person who will sell the bags in the village****, please record every sale of plastic bags in this form. Please fill out all the information and thanks for your help.*

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)
1						
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S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)
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S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)
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62						
63						

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)
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87						

S0	**SM**	**SD**	**S1**	**S2**	**S3**	**S4**
No.	Month of sale (1-12)	Day of sale (1-31)	Farmer First Name	Farmer Last Name	Number of plastic **bags** purchased by this farmer	Total amount paid by this farmer for **all plastic bags** he/she purchased (CFAs)
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111						

Effectiveness and Impacts of Extension Methods to Disseminate Solar Treatment and Triple Bag Technology in Burkina Faso

EXTENSION AGENTS' TRANSFER OF VIDEOS FORM FOR EACH VILLAGE, 2012

X1. Date of training: _____ / _____ / 2012 X1a. Month (1-12) X1b. Day (1-31) X1c. Year	**X2**. What is your name? _____ / _____ X2a. First Name X2b. Last Name
X3. **Village** name:	**X4. Department** name:

INSTRUCTIONS: ***After the training*** *in the village, please use this form to note the farmers who copy any of the educational videos from you in the villages where the videos were shown (Treatments 1A and 1B). Use* ***one questionnaire per village****. Take this questionnaire with you when you leave the village.*

V0	**V1**	**V2**	**V3**
No.	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
1			
2			
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15			
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17			

V0	**V1**	**V2**	**V3**
No.	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
18			
19			
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V0	**V1**	**V2**	**V3**
No.	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
41			
42			
43			
44			
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51			
52			
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62			
63			

V0	**V1**	**V2**	**V3**
No.	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
64			
65			
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76			
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86			

V0	**V1**	**V2**	**V3**
No.	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
87			
88			
89			
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Effectiveness and Impacts of Extension Methods to Disseminate Solar Treatment and Triple Bag Technology in Burkina Faso

TRANSFER OF VIDEOS FORM FOR EACH VILLAGE, 2012

INSTRUCTIONS: ***Agent****, please fill out X1-X4. Then, leave this form with the person you will leave the cell phone containing the educational videos with in the villages where the videos were shown (Treatments 1A and 1B). Please ask this person to record every time a farmer copies any video from the cell phone you are leaving with him/her and tell him/her that you will ask for this form and the cell phone in the near future. Leave one form in each village.*

X1. Date of training: _____ / _____ / 2012 X1a. Month (1-12) X1b. Day (1-31) X1c. Year	**X2**. What is your name? _____ / _____ X2a. First Name X2b. Last Name
X3. **Village** name:	**X4. Department** name:

INSTRUCTIONS: ***Person who keeps the cell phone in the village****, please record every time a farmer copies one of the two educational videos from the cell phone you were given by the extension agent or from your cell phone. Please fill out all the information and thanks for your help.*

V0	**VM**	**VD**	**V1**	**V2**	**V3**
No.	Month when video was copied (1-12)	Day when video was copied (1-31)	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

V0	**VM**	**VD**	**V1**	**V2**	**V3**
No.	Month when video was copied (1-12)	Day when video was copied (1-31)	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
16					
17					
18					
19					
20					
21					
22					
23					
24					
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27					
28					
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31					
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36					
37					
38					

TRANSFER OF VIDEOS FORM--VILLAGE Village Name: _____

V0	**VM**	**VD**	**V1**	**V2**	**V3**
No.	Month when video was copied (1-12)	Day when video was copied (1-31)	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
39					
40					
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42					
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V0	**VM**	**VD**	**V1**	**V2**	**V3**
No.	Month when video was copied (1-12)	Day when video was copied (1-31)	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
63					
64					
65					
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85					
86					

TRANSFER OF VIDEOS FORM--VILLAGE Village Name: _____

V0	**VM**	**VD**	**V1**	**V2**	**V3**
No.	Month when video was copied (1-12)	Day when video was copied (1-31)	Farmer First Name	Farmer Last Name	Which of the two videos did this farmer copy? 1=Video about solarization 2=Video about triple bagging storage 3=Both videos
87					
88					
89					
90					
91					
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