Effectiveness and Impact of Mobile Phone based Extension Methods to Disseminate Solar Treatment and Triple Bag Technology for Cowpea in Burkina Faso

Study Documentation

(Metadata and Code Book)

May 16, 2017

Metadata Production

Metadata Producer(s)	Michigan State University, Study implementer
Production Date	May 16, 2017
Identification	N/A

About the Dataset

Description In developing countries where many people living in rural areas are low-literate learners, mobile phones represent an important new way by which educational content can be effectively and easily delivered in different languages and conveyed in the form that is pictorial and spoken rather than written. A field experiment was conducted in Burkina Faso in 2012-2013 by researchers funded through the USAID supported Dry Grain Legumes CRSP to explore the effectiveness of mobile phone-based animated videos to deliver knowledge and information about two post-harvest technologies (solar treatment and triple bag storage method) to low-literate adult farmers. This dataset is an output of the survey of farmers, extension agents, and village leaders who participated in the training activities using the mobile phone based method and the traditional extension approach to evaluate the effectiveness of these two alternate extension approaches in inducing learning and adoption outcomes among cowpea growing farmers in rural Burkina Faso.

Sampling The field experiment was implemented in 48 villages across 3 districts each from two provinces—Passore and Sourou. The six districts are: Yako, Samba and Arbolle from Passore and Toeni, Tougan and Kiambara from Sourou. Each district was under the leadership of one extension agent. Eight villages were be randomly selected from each of the 6 districts and then 2 villages per district were randomly assigned to Treatment 1A (video based training and storage bags available in the village), 1B (video based training and storage bags available at the extension agent's office), 2A (traditional extension training and storage bags available in the village), and 2B (traditional extension training and storage bags available at the extension agent's office). Baseline data on prior knowledge (i.e., pre-treatment) about the storage techniques and exposure to the two technologies were collected from 20 randomly selected participants in each village who attended the training session. A follow-up survey was conducted for a sub set of 12 farmers per village who were selected randomly from the list of 20 farmers who attended the training/demonstration sessions (i.e., those who received the treatment) and had completed the pre-treatment knowledge module.

Method: The pre-treatment and follow up surveys were conducted by interviewing the farmer who had attended the training sessions. The interview was based on a structured questionnaire, which was translated into French and administered in local language. The questionnaire collected information on the trainee (i.e. respondent) and household characteristics, cowpea production and storage practices, and farmers' knowledge, perception and opinion about cowpea grain storage techniques. The survey was conducted by trained extension agents with technical support and supervision by researchers from INERA and Michigan State University. In addition to farmer surveys, record keeping data on the sales of the plastic bags by the village chief or extension agents, number of video downloads, and community level survey data were also collected across all 48 villages.

Reference(s) on related publication:

Maredia, M. K., Reyes, B. A., Ba, M., Dabire, C., Pittendrigh, B., & Bello-Bravo, J. 2017. Can mobile phone-based animated videos induce learning and technology adoption among low-literate farmers? A field experiment in Burkina Faso. *Information Technology and Development (April 19, 2017)* DOI https://doi.org/10.1080/02681102.2017.1312245

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Overview

Type	Edited, anonymous dataset for public distribution
Identification	N/A
Version	v01
Kind of Data	Sample survey data [ssd], record keeping data
Unit of Analysis	Trainee farmers, villages, farmers who purchased plastic bags or downloaded videos
Language	Survey was implemented in French
Questionnaires	Available in English

Scope & Coverage

Time Period(s)	2012-13
Countries	Burkina Faso
Regional coverage:	Six districts from two provinces in Burkina Faso – Yako, Samba and Arbolle from Passore and Toeni, Tougan and Kiambara from Sourou

Producers & Sponsors

Primary Investigator(s)	Mywish Maredia, Barry Pittendrigh and Julia Bello-Bravo, Michigan State University; Malick Ba and Clementine Dabire, INERA; Byron Reyes, CIAT
Funding Agency/ies	U.S. Agency for International Development (USAID)

Data Collection

Data Collection Dates start Nov 3, 2012; end Jan 24, 2013

Accessibility

Citation Requirements

Use of the dataset must be acknowledged using a citation which would include:
- the Identification of the Primary Investigator
- the title of the survey (including country, acronym and year of implementation)
- the survey reference number
- the source and date of download

Files Description

Dataset contains 7 file(s)

1_farmer_attendance_data	
# Cases	1392
# Variable(s)	16
File Structure	Type: relational Key(s): regid (region ID) , provid (province ID) , deptid (department ID) , villageid (village of training) , treatment (treatment group) , ea_id (ID of extension agent)

2_village_level_survey_data	
# Cases	48
# Variable(s)	70
File Structure	Type: relational Key(s): regid (region ID) , provid (province ID) , deptid (department ID) , villageid (village id) , treatment (treatment group) , ea_id (id of extension agent)

3_Post_training_village_data_section_x	
# Cases	48
# Variable(s)	31
File Structure	Type: relational Key(s): regid (region ID) , provid (province ID) , deptid (department name of training) , villageid (village ID where training took place) , treatment (treatment group) , ea_id (ID of extension agent)

4_Pre_training_farmer_data_section_t	
# Cases	941
# Variable(s)	31
File Structure	Type: relational Key(s): regid (region ID) , provid (province ID) , deptid (department ID) , villageid (village of training) , treatment (treatment group) , ea_id (id of extension agents)

6_Sales_data_ext_agent_office	
# Cases	228
# Variable(s)	14

8_videos_download_ext_agent	
# Cases	329
# Variable(s)	17
File Structure	Type: relational

	Key(s): regid (region ID) , provid (province ID) , deptid (department ID) , villageid (village id) , treatment (treatment group) , ea_id (ID of extension agent)

9_videos_download_village_level	
# Cases	20
# Variable(s)	8
File Structure	Type: relational Key(s): regid (region ID) , provid (province ID) , deptid (department ID) , villageid (village id)

Variables List

Dataset contains 187 variable(s)

File 1_farmer_attendance_data

#	Name	Label	Type	Format	Valid	Invalid	Question
1	regid	region ID	discrete	numeric-17.0	1392	0	-
2	provid	province ID	discrete	numeric-8.0	1392	0	-
3	deptid	department ID	discrete	numeric-8.0	1392	0	-
4	villageid	village of training	continuous	numeric-13.0	1392	0	-
5	treatment	treatment group	discrete	numeric-51.0	1392	0	-
6	ea_id	ID of extension agent	discrete	numeric-18.0	1392	0	-
7	t0	No.	continuous	numeric-8.0	1392	0	-
8	n1	gender	discrete	numeric-8.0	1392	0	-
9	n2	age	continuous	numeric-8.0	1392	0	-
10	n2n	age (years)	continuous	numeric-8.0	1392	0	-
11	n3	can he/she read?	discrete	numeric-8.0	1392	0	-
12	n5	name of the neighborhood where farmer resides (1=same as training vlg)	discrete	numeric-8.0	1392	0	-
13	x1a	month of training	discrete	numeric-8.0	1392	0	-
14	x1b	day of training	discrete	numeric-8.0	1392	0	-
15	x1c	year of training	discrete	numeric-8.0	1392	0	-
16	treatment1	treatment groups video (=1) and traditions (=0)	discrete	numeric-9.0	1392	0	-

File 2_village_level_survey_data

#	Name	Label	Type	Format	Valid	Invalid	Question
1	regid	region ID	discrete	numeric-17.0	48	0	-
2	provid	province ID	discrete	numeric-8.0	48	0	-
3	deptid	department ID	discrete	numeric-8.0	48	0	-
4	villageid	village id	continuous	numeric-13.0	48	0	-
5	treatment	treatment group	discrete	numeric-51.0	48	0	-
6	ea_id	id of extension agent	discrete	numeric-8.0	48	0	-
7	ca1a	month	discrete	numeric-9.0	48	0	-
8	ca1b	day	discrete	numeric-8.0	48	0	-
9	ca1c	year	discrete	numeric-8.0	48	0	-
10	ca9	altitude (meters above sea level) village located	discrete	numeric-8.0	0	48	-
11	ca10bs	other ca10b	discrete	character-21	4	0	-
12	ca11bs	other ca11b	discrete	character-20	26	0	-
13	ca12bs	other ca12b	discrete	character-11	21	0	-

File 2_village_level_survey_data

#	Name	Label	Type	Format	Valid	Invalid	Question
14	cb1	main commercial town where residents of village purchase goods & services	discrete	character-10	48	0	-
15	cb2	km from this village to the town in cb1?	continuous	numeric-8.0	48	0	-
16	cb3	most common way residents use to get to town in cb1	discrete	numeric-48.0	48	0	-
17	cb3s	other cb3	discrete	character-5	47	0	-
18	cb4a	is there a bus service in this village?	discrete	numeric-8.0	48	0	-
19	cb4b	if yes, how often do the bus stop in the village?	discrete	numeric-20.0	7	41	-
20	cb5	condition of the road btw village and town in cb1	discrete	numeric-60.0	48	0	-
21	cb6	km from your village to main paved (asphalt) road	continuous	numeric-8.0	48	0	-
22	cc3a	is there a govt ag extension service office in this village?	discrete	numeric-8.0	48	0	-
23	cc3b	if no, do ag ext officers regularly (1-2 times/season) visit this village?	discrete	numeric-8.0	36	12	-
24	cc4	where to farmers generally obtain farm credit for their crops?	discrete	numeric-38.0	48	0	-
25	cc4s	other cc4	discrete	character-16	2	0	-
26	cd1	is there any permanent input dealer in this village?	discrete	numeric-8.0	48	0	-
27	cd2	if yes, do farmers generally purchase fertilizer and pesticides at this dealer?	discrete	numeric-8.0	5	43	-
28	cd3	if no, where do farmers generally purchase fertilizer and pesticides?	discrete	numeric-49.0	43	5	-
29	cd3s	other cd3	discrete	numeric-8.0	0	48	-
30	cd4	where do farmers generally obtain cowpea seed (main source)?	discrete	numeric-48.0	48	0	-
31	cd4s	other cd4	discrete	character-5	2	0	-
32	cd5	how did the rainfall in 2012 compare to a normal year?	discrete	numeric-10.0	48	0	-
33	cd6	how did the insect damage on cowpea in 2012 compare to a normal year?	discrete	numeric-10.0	48	0	-
34	cd7	how did the disease damage on cowpea in 2012 compare to a normal year?	discrete	numeric-10.0	48	0	-
35	cd8a	harvest green pods: how widespread is this practice in this village x cowpea?	discrete	numeric-53.0	48	0	-

File 2_village_level_survey_data

#	Name	Label	Type	Format	Valid	Invalid	Question
36	cd8b	harvest cowpea leaves: how widespread is this practice in this village x cowpea?	discrete	numeric-53.0	48	0	-
37	cd8c	use as fodder crop: how widespread is this practice in this village x cowpea?	discrete	numeric-53.0	48	0	-
38	cd9	in a normal yr, avg cowpea grain yields (kg/ha) when no green pods/leaves are ha	continuous	numeric-8.0	48	0	-
39	cd10	where do farmers generally sell their cowpea grain (main place)?	discrete	numeric-87.0	48	0	-
40	cd10s	other cd10	discrete	character-7	5	0	-
41	cd11a	in 2012, cowpea grain price in village at beginning of season (CFAs/kg)?	continuous	numeric-8.0	48	0	-
42	cd11b	what is the source of this price?	discrete	numeric-29.0	48	0	-
43	cd11bs	other cd11b	discrete	character-3	48	0	-
44	cd12a	in 2012, cowpea grain price in village at harvest (CFAs/ kg)?	continuous	numeric-8.0	48	0	-
45	cd12b	what is the source of this price?	discrete	numeric-29.0	48	0	-
46	cd12bs	other cd12b	discrete	character-3	48	0	-
47	cd13a	how widespread is exposing seed to sun covered w plastic practice to kill insect	discrete	numeric-53.0	48	0	-
48	cd13b	how widespread is applying insecticide to kill cowpea insects prior to storage?	discrete	numeric-53.0	48	0	-
49	cd13c	how widespread is never treating seed to kill cowpea insects prior to storage?	discrete	numeric-53.0	48	0	-
50	cd13d	other methods used in this village to kill cowpea insects prior to storage?	discrete	numeric-53.0	48	0	-
51	cd13ds	other cd13d	discrete	character-44	4	0	-
52	cd14a	how widespread is using 1-2 plastic bags + jute bag, sealed, to store cowpea gra	discrete	numeric-53.0	48	0	-
53	cd14b	how widespread is using metal drums to store cowpea grain?	discrete	numeric-53.0	48	0	-
54	cd14c	how widespread is using sacks (polyethylene or jute) to store cowpea grain?	discrete	numeric-53.0	48	0	-
55	cd14d	other methods used in this village to store cowpea grain?	discrete	numeric-53.0	48	0	-
56	cd14ds	other cd14d	discrete	character-36	30	0	-

File 2_village_level_survey_data

#	Name	Label	Type	Format	Valid	Invalid	Question
57	cd15a	has there been training on crop management techniques in past 3 yrs (2009-2011)?	discrete	numeric-8.0	48	0	-
58	cd15b	has there been training on fertilizer use in past 3 yrs (2009-2011)?	discrete	numeric-8.0	48	0	-
59	cd15c	has there been training on pesticide use in past 3 yrs (2009-2011)?	discrete	numeric-8.0	48	0	-
60	cd15d	has there been training on integrat pest management in past 3 yrs (2009-2011)?	discrete	numeric-8.0	48	0	-
61	cd15e	has there been training on post-harvest treatm of grain to kill insects in past	discrete	numeric-8.0	48	0	-
62	cd15e1	if yes, did it involve watching a video in a cell about how to use this method?	discrete	numeric-8.0	21	27	-
63	cd15f	has there been training on storage meth using plastic bags inside ea other in pa	discrete	numeric-8.0	48	0	-
64	cd15f1	if yes, did it involve watching a video in a cell about how to use this method?	discrete	numeric-8.0	32	16	-
65	cd15g	has there been training on marketing strategies in past 3 yrs (2009-2011)?	discrete	numeric-8.0	45	3	-
66	cd16a	are there any farmer groups working with cowpea in this village?	discrete	numeric-8.0	45	3	-
67	cd16b	if yes, what is the primary activity done by these groups?	discrete	numeric-61.0	16	32	-
68	cd16bs	other cd16b	discrete	character-28	4	0	-
69	cd17	are there any farmer groups working on crops other than cowpea in this village?	discrete	numeric-8.0	48	0	-
70	cd18	# HH not interviewed bc responsible of cowpea not available/declined interview/ n	discrete	numeric-8.0	48	0	-

File 3_Post_training_village_data_section_x

#	Name	Label	Type	Format	Valid	Invalid	Question
1	regid	region ID	discrete	numeric-17.0	48	0	-
2	provid	province ID	discrete	numeric-8.0	48	0	-
3	deptid	department name of training	discrete	numeric-10.0	48	0	-
4	villageid	village ID where training took place	continuous	numeric-13.0	48	0	-
5	treatment	treatment group	discrete	numeric-51.0	48	0	-

File 3_Post_training_village_data_section_x

#	Name	Label	Type	Format	Valid	Invalid	Question
6	x1a	month of training	discrete	numeric-9.0	48	0	-
7	x1b	day of training	discrete	numeric-8.0	48	0	-
8	x1c	year of training	discrete	numeric-8.0	48	0	-
9	ea_id	ID of extension agent	discrete	numeric-18.0	48	0	-
10	x6	number of farmers present in the training	continuous	numeric-8.0	48	0	-
11	x7a	how far (km) is the village from your office?	continuous	numeric-8.0	48	0	-
12	x7b	time (hr) it took from your office to this village?	continuous	numeric-10.0	48	0	-
13	x8	transportation method used to get to this village	discrete	numeric-23.0	48	0	-
14	x8s	x8 other details	discrete	numeric-8.0	0	48	-
15	x9a	CFAs spent to get to this village	continuous	numeric-8.0	48	0	-
16	x9b	why zero expenses to get to this village?	discrete	character-28	2	0	-
17	x10	time (hr) needed to explain 2 methods in training	continuous	numeric-10.0	48	0	-
18	x11	group village belongs to regarding access to plastic & plastic bags	discrete	numeric-71.0	48	0	-
19	x12	# farmers who bought plastic bags immediately after training	continuous	numeric-8.0	24	24	-
20	x13a	name of person you left plastic bags with	discrete	character-9	24	0	-
21	x13b	last name of person you left plastic bags with	discrete	character-9	24	0	-
22	x14	status of this person in the village?	discrete	numeric-33.0	24	24	-
23	x14s	x14 other details	discrete	character-21	5	0	-
24	x15	# plastic bags left with this person	continuous	numeric-8.0	24	24	-
25	x16	phone number of person you left the plastic bags with	discrete	character-17	24	0	-
26	x17	method of training provided in this village	discrete	numeric-32.0	48	0	-
27	x18	# farmers who copied videos from your phone to their's after training	discrete	numeric-8.0	24	24	-
28	x19a	name of person you left cell phone w videos with	discrete	character-14	24	0	-
29	x19b	last name of person you left cell phone w videos with	discrete	character-9	24	0	-
30	x20	status of this person in the village?	discrete	numeric-33.0	24	24	-
31	x20s	x20 other details	discrete	character-24	7	0	-

File 4_Pre_training_farmer_data_section_t

#	Name	Label	Type	Format	Valid	Invalid	Question
1	regid	region ID	discrete	numeric-17.0	941	0	-
2	provid	province ID	discrete	numeric-8.0	941	0	-
3	deptid	department ID	discrete	numeric-8.0	941	0	-
4	villageid	village of training	discrete	numeric-13.0	941	0	-
5	treatment	treatment group	discrete	numeric-51.0	941	0	-
6	ea_id	id of extension agents	discrete	numeric-18.0	941	0	-
7	hhid	respondent hh id	continuous	numeric-9.0	768	173	-
8	farmer_id	farmer ID within each village (1-12, 21-26)	continuous	numeric-8.0	768	173	-
9	uniqueid	unique ID, sequential	continuous	numeric-8.0	941	0	-
10	x1a	month of training	discrete	numeric-8.0	941	0	-
11	x1b	day of training	discrete	numeric-8.0	941	0	-
12	x1c	year of training	discrete	numeric-8.0	941	0	-
13	t3a	responsible for cowpea production decisions is	discrete	numeric-20.0	941	0	-
14	t3as	t3a other details	discrete	character-4	4	0	-
15	t3b	responsible for cowpea storage decisions is	discrete	numeric-20.0	941	0	-
16	t3bs	t3b other details	discrete	character-4	4	0	-
17	t4	have you heard about solarization technique?	discrete	numeric-8.0	941	0	-
18	t4a	when did you first learn about solarization?	discrete	numeric-8.0	38	903	-
19	t4b	your understanding of when solarization should be used?	discrete	numeric-16.0	38	903	-
20	t4bs	t4b other details	discrete	numeric-8.0	0	941	-
21	t4c	your understanding of what solarization does?	discrete	numeric-78.0	38	903	-
22	t4d	for how long the seeds need to be exposed to sun to be effective?	continuous	numeric-9.0	38	903	-
23	t4du	t4d units	discrete	numeric-8.0	38	903	-
24	t4e	are you currently using/have you used solarization?	discrete	numeric-8.0	38	903	-
25	t5	have you heard about triple bagging?	discrete	numeric-8.0	941	0	-
26	t5a	when did you first learn about triple bagging?	discrete	numeric-8.0	520	421	-
27	t5b	for which insect pests is this method effective?	discrete	numeric-43.0	520	421	-
28	t5c	is it acceptable to use bags with holes?	discrete	numeric-10.0	520	421	-
29	t5d	should all the bags be tied together or separately?	discrete	numeric-10.0	520	421	-

File 4_Pre_training_farmer_data_section_t

#	Name	Label	Type	Format	Valid	Invalid	Question
30	t5e	when using triple bagging, is it necessary to also use pesticides?	discrete	numeric-10.0	519	422	-
31	t5f	are you currently using/have you used triple bagging?	discrete	numeric-10.0	520	421	-

File 6_Sales_data_ext_agent_office

#	Name	Label	Type	Format	Valid	Invalid	Question
1	ea_id	ID of extension agent	discrete	numeric-18.0	228	0	-
2	y2a	department where ext agent's office is located	discrete	numeric-10.0	228	0	-
3	s6	name of village where the farmer lives	discrete	character-11	228	0	-
4	y2b	village where ext agent's office is located	discrete	character-8	228	0	-
5	sm	month of sale	discrete	numeric-9.0	228	0	-
6	sd	day of sale	continuous	numeric-8.0	228	0	-
7	s1	farmer name (first)	discrete	numeric-9.0	0	228	-
8	s2	farmer name (last)	discrete	numeric-9.0	0	228	-
9	s3	number of plastic bags purchased by this farmer	continuous	numeric-8.0	228	0	-
10	s4	total amount paid by this farmer for all plastic bags purchased (CFAs)	continuous	numeric-12.0	228	0	-
11	s5	are these bags only for you (i.e., the farmer)?	discrete	numeric-45.0	228	0	-
12	s7	km from farmer's village to ext agent's office?	continuous	numeric-8.0	228	0	-
13	s8	how much (CFAs) did farmer spend to travel from village to ext agent's office?	continuous	numeric-8.0	228	0	-
14	s9	did the farmer travel to the office only to buy the plastic bags?	discrete	numeric-36.0	228	0	-

File 8_videos_download_ext_agent

#	Name	Label	Type	Format	Valid	Invalid	Question
1	regid	region ID	discrete	numeric-17.0	329	0	-
2	provid	province ID	discrete	numeric-8.0	329	0	-
3	deptid	department ID	discrete	numeric-8.0	329	0	-
4	villageid	village id	continuous	numeric-13.0	329	0	-
5	treatment	treatment group	discrete	numeric-51.0	329	0	-
6	ea_id	ID of extension agent	discrete	numeric-18.0	329	0	-
7	source	source of the video copied by the farmer	discrete	numeric-25.0	329	0	-

File 8_videos_download_ext_agent

#	Name	Label	Type	Format	Valid	Invalid	Question
8	x1a	month of ext agent's visit	discrete	numeric-9.0	329	0	-
9	x1b	day of ext agent's visit	discrete	numeric-8.0	329	0	-
10	x1c	year of ext agent's visit	discrete	numeric-8.0	329	0	-
11	vm	month when video was copied	discrete	numeric-9.0	329	0	-
12	vd	day when video was copied	continuous	numeric-9.0	329	0	-
13	v3	which of the two videos did the farmer copy?	discrete	numeric-35.0	329	0	-
14	download ..	downloaded solar video -- yes-no	discrete	numeric-9.0	329	0	-
15	download ..	downloaded triple bag video --yes-no	discrete	numeric-9.0	329	0	-
16	source_c ..	video downloaded from contact person -- yes/no	discrete	numeric-9.0	329	0	-
17	source_e ..	video downloaded from extension agent-- yes/no	discrete	numeric-9.0	329	0	-

File 9_videos_download_village_level

#	Name	Label	Type	Format	Valid	Invalid	Question
1	regid	region ID	discrete	numeric-17.0	20	0	-
2	provid	province ID	discrete	numeric-8.0	20	0	-
3	deptid	department ID	discrete	numeric-8.0	20	0	-
4	villageid	village id	continuous	numeric-13.0	20	0	-
5	download ..	number of solar video downloaded in the village	continuous	numeric-9.0	20	0	-
6	download ..	Number of triple bag videos downloaded in the village	continuous	numeric-9.0	20	0	-
7	source_c ..	number of videos downloaded from the village contact person	continuous	numeric-9.0	20	0	-
8	source_e ..	number of videos downloaded from the extension agent	continuous	numeric-9.0	20	0	-

Variables Description

Dataset contains 187 variable(s)

File : 1_farmer_attendance_data

regid: region ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	boucle du mouhoun	733	52.7%
2	nord	659	47.3%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

provid: province ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	sourou	733	52.7%
2	passore	659	47.3%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

deptid: department ID

Information	[Type= discrete] [Format=numeric] [Range= 101-209] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
101	tougan	284	20.4%
103	kiembara	249	17.9%
107	toeni	200	14.4%
201	samba	226	16.2%
208	arbolle	208	14.9%
209	yako	225	16.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

villageid: village of training

Information	[Type= continuous] [Format=numeric] [Range= 10101-20939] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-] [Mean=15203.108 /-] [StdDev=5136.873 /-]

treatment: treatment group

Information	[Type= discrete] [Format=numeric] [Range= 11-22] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
11	video + sale of plastic in village	350	25.1%
12	video + sale of plastic by ext agent	348	25.0%
21	trad. training + sale of plastic in village	417	30.0%
22	trad. training + sale of plastic by ext agent	277	19.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ea_id: ID of extension agent

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

File : 1_farmer_attendance_data

ea_id: ID of extension agent

Value	Label	Cases	Percentage
1		208	14.9%
2		200	14.4%
3		225	16.2%
4		249	17.9%
5		284	20.4%
6		226	16.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t0: No.

Information	[Type= continuous] [Format=numeric] [Range= 1-65] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-] [Mean=17.041 /-] [StdDev=12.312 /-]

n1: gender

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	male	948	68.1%
2	female	444	31.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

n2: age

Information	[Type= continuous] [Format=numeric] [Range= 1917-2000] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-] [Mean=1970.779 /-] [StdDev=12.931 /-]

n2n: age (years)

Information	[Type= continuous] [Format=numeric] [Range= 12-95] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-] [Mean=41.221 /-] [StdDev=12.931 /-]

n3: can he/she read?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	300	21.6%
2	no	1092	78.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

n5: name of the neighborhood where farmer resides (1=same as training vlg)

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		1392	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1a: month of training

Information	[Type= discrete] [Format=numeric] [Range= 11-11] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

File : 1_farmer_attendance_data

x1a: month of training

Value	Label	Cases	Percentage
11		1392	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1b: day of training

Information	[Type= discrete] [Format=numeric] [Range= 3-13] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
3		203	14.6%
4		156	11.2%
5		213	15.3%
6		142	10.2%
7		131	9.4%
8		162	11.6%
9		144	10.3%
10		25	1.8%
11		56	4.0%
12		139	10.0%
13		21	1.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1c: year of training

Information	[Type= discrete] [Format=numeric] [Range= 2012-2012] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
2012		1392	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

treatment1: treatment groups video (=1) and traditions (=0)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=1392 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		694	49.9%
1		698	50.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : 2_village_level_survey_data

regid: region ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	boucle du mouhoun	24	50.0%
2	nord	24	50.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

provid: province ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	sourou	24	50.0%
2	passore	24	50.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

deptid: department ID

Information	[Type= discrete] [Format=numeric] [Range= 101-209] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
101	tougan	8	16.7%
103	kiembara	8	16.7%
107	toeni	8	16.7%
201	samba	8	16.7%
208	arbolle	8	16.7%
209	yako	8	16.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

villageid: village id

Information	[Type= continuous] [Format=numeric] [Range= 10101-20939] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=15496.396 /-] [StdDev=5181.855 /-]

treatment: treatment group

Information	[Type= discrete] [Format=numeric] [Range= 11-22] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
11	video + sale of plastic in village	12	25.0%
12	video + sale of plastic by ext agent	12	25.0%
21	trad. training + sale of plastic in village	12	25.0%
22	trad. training + sale of plastic by ext agent	12	25.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ea_id: id of extension agent

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

File : 2_village_level_survey_data

ea_id: id of extension agent

Value	Label	Cases	Percentage
1		8	16.7%
2		8	16.7%
3		8	16.7%
4		8	16.7%
5		8	16.7%
6		8	16.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ca1a: month

Information	[Type= discrete] [Format=numeric] [Range= 1-12] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	january	48	100.0%
2	february	0	
3	march	0	
4	april	0	
5	may	0	
6	june	0	
7	july	0	
8	august	0	
9	september	0	
10	october	0	
11	november	0	
12	december	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ca1b: day

Information	[Type= discrete] [Format=numeric] [Range= 6-24] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
6		1	2.1%
7		4	8.3%
8		5	10.4%
9		3	6.2%
10		7	14.6%
11		3	6.2%
12		4	8.3%
13		5	10.4%
14		4	8.3%
15		4	8.3%
16		1	2.1%
17		1	2.1%
18		1	2.1%
19		1	2.1%

File : 2_village_level_survey_data

ca1b: day

Value	Label	Cases	Percentage
20		1	2.1%
21		1	2.1%
22		1	2.1%
24		1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ca1c: year

Information	[Type= discrete] [Format=numeric] [Range= 2013-2013] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
2013		48	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ca9: altitude (meters above sea level) village located

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=48 /-]

Value	Label	Cases	Percentage
Sysmiss		48	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ca10bs: other ca10b

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=4 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
conseiller		1	25.0%
cultivateur		1	25.0%
leader semencier		1	25.0%
secretaire conseiller		1	25.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ca11bs: other ca11b

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=26 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Animateur villageois		1	3.8%
CathŽchiste		1	3.8%
Commercant		1	3.8%
Conseiller		1	3.8%
Cultivateur		2	7.7%
Producteur		3	11.5%
agent d'agriculture		8	30.8%
couturier		1	3.8%

File : 2_village_level_survey_data

ca11bs: other ca11b

Value	Label	Cases	Percentage
producteur		8	30.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ca12bs: other ca12b

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=21 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Commercant		3	14.3%
Conseiller		3	14.3%
Cultivateur		1	4.8%
Producteur		3	14.3%
Productrice		1	4.8%
conseiller		1	4.8%
conseillere		1	4.8%
producteur		8	38.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cb1: main commercial town where residents of village purchase goods & services

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
ArbollŽ		6	12.5%
BoussŽ		1	2.1%
Iliale		1	2.1%
Koussana		1	2.1%
Niou		1	2.1%
Samba		5	10.4%
Tindila		1	2.1%
Toessin		1	2.1%
Tougan		8	16.7%
Yako		7	14.6%
bangassogo		2	4.2%
coara		1	2.1%
da		1	2.1%
gouran		1	2.1%
kiembara		6	12.5%
palŽ		1	2.1%
tougan		2	4.2%
yaba		2	4.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cb2: km from this village to the town in cb1?

Information	[Type= continuous] [Format=numeric] [Range= 0-55] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=14.813 /-] [StdDev=15.962 /-]

File : 2_village_level_survey_data

cb3: most common way residents use to get to town in cb1

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	bus service	2	4.2%
2	truck	7	14.6%
3	pick up/small car	0	
4	motorcycle/tricycle	0	
5	bicycle	20	41.7%
6	by foot	1	2.1%
88	not applicable (commercial town in same village)	6	12.5%
99	other (specify)	12	25.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cb3s: other cb3

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=47 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
.		35	74.5%
4,5		2	4.3%
4,5,6		3	6.4%
4,6		1	2.1%
5,4		2	4.3%
5,4,1		1	2.1%
5,4,6		1	2.1%
5,6,4		1	2.1%
6,4,3		1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cb4a: is there a bus service in this village?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	7	14.6%
2	no	41	85.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cb4b: if yes, how often do the bus stop in the village?

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=7 /-] [Invalid=41 /-]

Value	Label	Cases	Percentage
1	every day	5	71.4%
2	several times a week	2	28.6%
3	once a week	0	
Sysmiss		41	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : 2_village_level_survey_data

cb5: condition of the road btw village and town in cb1

Information	[Type= discrete] [Format=numeric] [Range= 1-88] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	dirt with damaged sections (e.g. a lot of holes/interrupted)	29	60.4%
2	dirt in good condition (no holes, functions all year)	10	20.8%
3	asphalt with damaged sections	0	
4	asphalt in good condition	1	2.1%
88	not applicable (if commercial town is the same village)	8	16.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cb6: km from your village to main paved (asphalt) road

Information	[Type= continuous] [Format=numeric] [Range= 0-145] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=51.313 /-] [StdDev=38.945 /-]

cc3a: is there a govt ag extension service office in this village?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	12	25.0%
2	no	36	75.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cc3b: if no, do ag ext officers regularly (1-2 times/season) visit this village?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=36 /-] [Invalid=12 /-]

Value	Label	Cases	Percentage
1	yes	29	80.6%
2	no	7	19.4%
Sysmiss		12	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cc4: where to farmers generally obtain farm credit for their crops?

Information	[Type= discrete] [Format=numeric] [Range= 0-99] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	don't have access to farm credit	32	66.7%
1	village/rural banks	8	16.7%
2	private banks	1	2.1%
3	cotton or other agricultural companies	0	
4	NGOs	1	2.1%
5	government's farm banks	4	8.3%
99	other (specify)	2	4.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cc4s: other cc4

Information	[Type= discrete] [Format=character] [Missing=*]

File : 2_village_level_survey_data

cc4s: other cc4

Statistics [NW/ W]	[Valid=2 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
caisse populaire		2	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd1: is there any permanent input dealer in this village?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	5	10.4%
2	no	43	89.6%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd2: if yes, do farmers generally purchase fertilizer and pesticides at this dealer?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=5 /-] [Invalid=43 /-]

Value	Label	Cases	Percentage
1	yes	5	100.0%
2	no	0	
Sysmiss		43	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd3: if no, where do farmers generally purchase fertilizer and pesticides?

Information	[Type= discrete] [Format=numeric] [Range= 0-99] [Missing=*]
Statistics [NW/ W]	[Valid=43 /-] [Invalid=5 /-]

Value	Label	Cases	Percentage
0	farmers never purchase these inputs	0	
1	in the local market (other than at input dealer)	5	11.6%
2	in other markets/towns	36	83.7%
3	receive as credit from cotton or other ag company	0	
4	receive from NGO (as credit or free)	0	
5	receive from government (as credit or free)	2	4.7%
99	other (specify)	0	
Sysmiss		5	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd3s: other cd3

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=48 /-]

Value	Label	Cases	Percentage
Sysmiss		48	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd4: where do farmers generally obtain cowpea seed (main source)?

Information	[Type= discrete] [Format=numeric] [Range= 0-99] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

File : 2_village_level_survey_data

cd4: where do farmers generally obtain cowpea seed (main source)?

Value	Label	Cases	Percentage
0	They use grain saved from their previous harvest	41	85.4%
1	They borrow/purchase grain from other farmers	1	2.1%
2	They borrow/purchase seed from other farmers	0	
3	They purchase grain in the local market	0	
4	Purchase in other markets (villages) as grain	0	
5	Purchase in other markets (villages) as seed	0	
6	Receive from a NGOs	0	
7	Receive from Government	4	8.3%
8	Purchase from an input dealer	0	
99	Other (specify)	2	4.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd4s: other cd4

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=2 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0,7		1	50.0%
7,3,0		1	50.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd5: how did the rainfall in 2012 compare to a normal year?

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Lower	1	2.1%
2	The same	1	2.1%
3	Higher	46	95.8%
77	DonÕt know	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd6: how did the insect damage on cowpea in 2012 compare to a normal year?

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Lower	36	75.0%
2	The same	5	10.4%
3	Higher	7	14.6%
77	DonÕt know	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd7: how did the disease damage on cowpea in 2012 compare to a normal year?

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

File : 2_village_level_survey_data

cd7: how did the disease damage on cowpea in 2012 compare to a normal year?

Value	Label	Cases	Percentage
1	Lower	35	72.9%
2	The same	1	2.1%
3	Higher	2	4.2%
77	DonÕt know	10	20.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd8a: harvest green pods: how widespread is this practice in this village x cowpea?

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	25	52.1%
1	Less than 25% of cowpea producers do it	11	22.9%
2	25-50% of cowpea producers do it	5	10.4%
3	More than 50% of cowpea producers do it (but not all)	2	4.2%
4	Everyone does it	5	10.4%
77	DonÕt know	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd8b: harvest cowpea leaves: how widespread is this practice in this village x cowpea?

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	0	
1	Less than 25% of cowpea producers do it	2	4.2%
2	25-50% of cowpea producers do it	0	
3	More than 50% of cowpea producers do it (but not all)	6	12.5%
4	Everyone does it	40	83.3%
77	DonÕt know	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd8c: use as fodder crop: how widespread is this practice in this village x cowpea?

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	5	10.4%
1	Less than 25% of cowpea producers do it	0	
2	25-50% of cowpea producers do it	1	2.1%
3	More than 50% of cowpea producers do it (but not all)	3	6.2%
4	Everyone does it	39	81.2%
77	DonÕt know	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd9: in a normal yr, avg cowpea grain yields (kg/ha) when no green pods/leaves are ha

Information	[Type= continuous] [Format=numeric] [Range= 100-1000] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=542.917 /-] [StdDev=214.932 /-]

File : 2_village_level_survey_data

cd10: where do farmers generally sell their cowpea grain (main place)?

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	To intermediaries at home	18	37.5%
2	To intermediaries in the village market	16	33.3%
3	Pool their harvest and travel to sell in other villages	8	16.7%
4	Pay part of harvest in kind and sell the remaining (to intermediaries or in the market)	1	2.1%
99	Other (specify)	5	10.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd10s: other cd10

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=5 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1,2		2	40.0%
2,3		1	20.0%
arbollŽ		2	40.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd11a: in 2012, cowpea grain price in village at beginning of season (CFAs/kg)?

Information	[Type= continuous] [Format=numeric] [Range= 250-850] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=438.896 /-] [StdDev=99.278 /-]

cd11b: what is the source of this price?

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Village market	38	79.2%
2	Market in nearby village	7	14.6%
3	Cooperatives or Farmer groups	0	
4	Intermediaries	2	4.2%
99	Other (specify)	1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd11bs: other cd11b

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
.		47	97.9%
1,2		1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd12a: in 2012, cowpea grain price in village at harvest (CFAs/kg)?

Information	[Type= continuous] [Format=numeric] [Range= 125-500] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=236.167 /-] [StdDev=64.777 /-]

File : 2_village_level_survey_data

cd12b: what is the source of this price?

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Village market	39	81.2%
2	Market in nearby village	6	12.5%
3	Cooperatives or Farmer groups	0	
4	Intermediaries	2	4.2%
99	Other (specify)	1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd12bs: other cd12b

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
.		47	97.9%
1,2		1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd13a: how widespread is exposing seed to sun covered w plastic practice to kill insect

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	9	18.8%
1	Less than 25% of cowpea producers do it	12	25.0%
2	25-50% of cowpea producers do it	11	22.9%
3	More than 50% of cowpea producers do it (but not all)	5	10.4%
4	Everyone does it	11	22.9%
77	DonÕt know	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd13b: how widespread is applying insecticide to kill cowpea insects prior to storage?

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	13	27.1%
1	Less than 25% of cowpea producers do it	8	16.7%
2	25-50% of cowpea producers do it	13	27.1%
3	More than 50% of cowpea producers do it (but not all)	11	22.9%
4	Everyone does it	3	6.2%
77	DonÕt know	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd13c: how widespread is never treating seed to kill cowpea insects prior to storage?

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

File : 2_village_level_survey_data

cd13c: how widespread is never treating seed to kill cowpea insects prior to storage?

Value	Label	Cases	Percentage
0	No one does it	20	41.7%
1	Less than 25% of cowpea producers do it	9	18.8%
2	25-50% of cowpea producers do it	12	25.0%
3	More than 50% of cowpea producers do it (but not all)	7	14.6%
4	Everyone does it	0	
77	DonÕt know	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd13d: other methods used in this village to kill cowpea insects prior to storage?

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	43	89.6%
1	Less than 25% of cowpea producers do it	2	4.2%
2	25-50% of cowpea producers do it	0	
3	More than 50% of cowpea producers do it (but not all)	1	2.1%
4	Everyone does it	1	2.1%
77	DonÕt know	1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd13ds: other cd13d

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=4 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Sechage des gousses		1	25.0%
chauffage des grains		1	25.0%
conservation dans les bidons ou de la cendre		1	25.0%
utilisation de la cendre		1	25.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd14a: how widespread is using 1-2 plastic bags + jute bag, sealed, to store cowpea gra

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	5	10.4%
1	Less than 25% of cowpea producers do it	29	60.4%
2	25-50% of cowpea producers do it	4	8.3%
3	More than 50% of cowpea producers do it (but not all)	6	12.5%
4	Everyone does it	3	6.2%
77	DonÕt know	1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd14b: how widespread is using metal drums to store cowpea grain?

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	3	6.2%
1	Less than 25% of cowpea producers do it	28	58.3%
2	25-50% of cowpea producers do it	12	25.0%
3	More than 50% of cowpea producers do it (but not all)	2	4.2%
4	Everyone does it	0	
77	DonÕt know	3	6.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd14c: how widespread is using sacks (polyethylene or jute) to store cowpea grain?

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	19	39.6%
1	Less than 25% of cowpea producers do it	7	14.6%
2	25-50% of cowpea producers do it	5	10.4%
3	More than 50% of cowpea producers do it (but not all)	15	31.2%
4	Everyone does it	2	4.2%
77	DonÕt know	0	

cd14c: how widespread is using sacks (polyethylene or jute) to store cowpea grain?

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd14d: other methods used in this village to store cowpea grain?

Information	[Type= discrete] [Format=numeric] [Range= 0-77] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	No one does it	18	37.5%
1	Less than 25% of cowpea producers do it	7	14.6%
2	25-50% of cowpea producers do it	13	27.1%
3	More than 50% of cowpea producers do it (but not all)	10	20.8%
4	Everyone does it	0	
77	DonÕt know	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd14ds: other cd14d

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=30 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Bidon		3	10.0%
Conservation des bidons de 20l		4	13.3%
Utilisation d'insecticides		2	6.7%
Utilisation des bidons		8	26.7%
Utilisation insecticides		2	6.7%
bidon		5	16.7%
cendre		1	3.3%
contennant + cendre		1	3.3%
fut plastique		1	3.3%
mettre en bidon		1	3.3%
sachet plastique et un sac ordinaire		2	6.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd15a: has there been training on crop management techniques in past 3 yrs (2009-2011)?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	19	39.6%
2	no	29	60.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd15b: has there been training on fertilizer use in past 3 yrs (2009-2011)?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

cd15b: has there been training on fertilizer use in past 3 yrs (2009-2011)?

Value	Label	Cases	Percentage
1	yes	18	37.5%
2	no	30	62.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd15c: has there been training on pesticide use in past 3 yrs (2009-2011)?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	17	35.4%
2	no	31	64.6%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd15d: has there been training on integrat pest management in past 3 yrs (2009-2011)?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	16	33.3%
2	no	32	66.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd15e: has there been training on post-harvest treatm of grain to kill insects in past

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	21	43.8%
2	no	27	56.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd15e1: if yes, did it involve watching a video in a cell about how to use this method?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=21 /-] [Invalid=27 /-]

Value	Label	Cases	Percentage
1	yes	2	9.5%
2	no	19	90.5%
Sysmiss		27	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd15f: has there been training on storage meth using plastic bags inside ea other in pa

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	32	66.7%
2	no	16	33.3%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd15f1: if yes, did it involve watching a video in a cell about how to use this method?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]

cd15f1: if yes, did it involve watching a video in a cell about how to use this method?

Statistics [NW/ W]	[Valid=32 /-] [Invalid=16 /-]

Value	Label	Cases	Percentage
1	yes	2	6.2%
2	no	30	93.8%
Sysmiss		16	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd15g: has there been training on marketing strategies in past 3 yrs (2009-2011)?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=45 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	yes	5	11.1%
2	no	40	88.9%
Sysmiss		3	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd16a: are there any farmer groups working with cowpea in this village?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=45 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	yes	17	37.8%
2	no	28	62.2%
Sysmiss		3	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd16b: if yes, what is the primary activity done by these groups?

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=16 /-] [Invalid=32 /-]

Value	Label	Cases	Percentage
1	Production technologies (planting, weeding, irrigation, etc.)	9	56.2%
2	Fertilizer (organic or chemical) use or acquisition	0	
3	Pest management using pesticides	0	
4	Pest management using biological agents/organic products	0	
5	Controlling grain pests after harvest	0	
6	Storage technologies	0	
7	Marketing alternatives	2	12.5%
88	DonÕt know	1	6.2%
99	Other (specify)	4	25.0%
Sysmiss		32	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd16bs: other cd16b

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=4 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
3,5		1	25.0%

cd16bs: other cd16b

Value	Label	Cases	Percentage
Production commercialisatior		1	25.0%
producteur du niŽbŽ		2	50.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd17: are there any farmer groups working on crops other than cowpea in this village?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	28	58.3%
2	no	20	41.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

cd18: # HH not interviewed bc responsible of cowpea not available/declined interview/n

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		47	97.9%
1		1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : 3_Post_training_village_data_section_x

regid: region ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	boucle du mouhoun	24	50.0%
2	nord	24	50.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

provid: province ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	sourou	24	50.0%
2	passore	24	50.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

deptid: department name of training

Information	[Type= discrete] [Format=numeric] [Range= 101-209] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
101	Tougan	8	16.7%
103	Kiembara	8	16.7%
107	Toeni	8	16.7%
201	Samba	8	16.7%
208	Arbolle	8	16.7%
209	Yako	8	16.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

villageid: village ID where training took place

Information	[Type= continuous] [Format=numeric] [Range= 10101-20939] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=15496.396 /-] [StdDev=5181.855 /-]

treatment: treatment group

Information	[Type= discrete] [Format=numeric] [Range= 11-22] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
11	video + sale of plastic in village	12	25.0%
12	video + sale of plastic by ext agent	12	25.0%
21	trad. training + sale of plastic in village	12	25.0%
22	trad. training + sale of plastic by ext agent	12	25.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1a: month of training

Information	[Type= discrete] [Format=numeric] [Range= 1-12] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

File : 3_Post_training_village_data_section_x

x1a: month of training

Value	Label	Cases	Percentage
1	january	0	
2	february	0	
3	march	0	
4	april	0	
5	may	0	
6	june	0	
7	july	0	
8	august	0	
9	september	0	
10	october	0	
11	november	48	100.0%
12	december	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1b: day of training

Information	[Type= discrete] [Format=numeric] [Range= 3-13] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
3		6	12.5%
4		5	10.4%
5		6	12.5%
6		6	12.5%
7		5	10.4%
8		6	12.5%
9		6	12.5%
10		1	2.1%
11		2	4.2%
12		4	8.3%
13		1	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1c: year of training

Information	[Type= discrete] [Format=numeric] [Range= 2012-2012] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
2012		48	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ea_id: ID of extension agent

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		8	16.7%
2		8	16.7%

File : 3_Post_training_village_data_section_x

ea_id: ID of extension agent

Value	Label	Cases	Percentage
3		8	16.7%
4		8	16.7%
5		8	16.7%
6		8	16.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x6: number of farmers present in the training

Information	[Type= continuous] [Format=numeric] [Range= 11-65] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=28.979 /-] [StdDev=10.93 /-]

x7a: how far (km) is the village from your office?

Information	[Type= continuous] [Format=numeric] [Range= 0-45] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=15.958 /-] [StdDev=10.374 /-]

x7b: time (hr) it took from your office to this village?

Information	[Type= continuous] [Format=numeric] [Range= 0-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=0.54 /-] [StdDev=0.461 /-]

x8: transportation method used to get to this village

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Bus service	0	
2	Truck/pick up/small car	0	
3	motorcycle/tricycle	46	95.8%
4	bicycle	0	
5	by foot	2	4.2%
99	other (specify)	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x8s: x8 other details

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=48 /-]

Value	Label	Cases	Percentage
Sysmiss		48	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x9a: CFAs spent to get to this village

Information	[Type= continuous] [Format=numeric] [Range= 0-4500] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=1497.917 /-] [StdDev=1072.428 /-]

x9b: why zero expenses to get to this village?

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=2 /-] [Invalid=0 /-]

File : 3_Post_training_village_data_section_x

x9b: why zero expenses to get to this village?

Value	Label	Cases	Percentage
lieu d'habitation de l'agent		2	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x10: time (hr) needed to explain 2 methods in training

Information	[Type= continuous] [Format=numeric] [Range= 0.17-4] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-] [Mean=2.124 /-] [StdDev=1.109 /-]

x11: group village belongs to regarding access to plastic & plastic bags

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Village where I left the plastic with someone for easy accessibility	24	50.0%
2	village where I only provided information on where to get the materials	24	50.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x12: # farmers who bought plastic bags immediately after training

Information	[Type= continuous] [Format=numeric] [Range= 0-29] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=24 /-] [Mean=2.25 /-] [StdDev=5.987 /-]

x13a: name of person you left plastic bags with

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
?		1	4.2%
BoubiŽ		1	4.2%
Issa		1	4.2%
Issaka		1	4.2%
Jacque		1	4.2%
Joseph		1	4.2%
Marcellin		1	4.2%
Maurice		1	4.2%
Momini		1	4.2%
Oumarou		1	4.2%
Robert		1	4.2%
Segni		1	4.2%
Souma•la		1	4.2%
bia		1	4.2%
boniface		1	4.2%
boukari		1	4.2%
elisabeth		1	4.2%
gandŽ		1	4.2%
koulouga		1	4.2%
manlŽ		1	4.2%

File : 3_Post_training_village_data_section_x

x13a: name of person you left plastic bags with

Value	Label	Cases	Percentage
mariam		1	4.2%
salam		1	4.2%
sidiki		1	4.2%
soumaila		1	4.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x13b: last name of person you left plastic bags with

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
?		1	4.2%
Barissi		1	4.2%
DjiguemdŽ		1	4.2%
Kologo		1	4.2%
Konombo		1	4.2%
Nabaloum		1	4.2%
NanŽma		1	4.2%
NŽbiŽ		1	4.2%
OuŽdraogo		2	8.3%
Pakodtogo		1	4.2%
Sankara		1	4.2%
Tenkodogo		1	4.2%
bagayan		1	4.2%
balima		1	4.2%
bara		1	4.2%
dembŽlŽ		1	4.2%
guira		1	4.2%
ouaro		1	4.2%
tontpambo		1	4.2%
woro		1	4.2%
yaro		1	4.2%
zan		1	4.2%
zerbo		1	4.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x14: status of this person in the village?

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=24 /-]

Value	Label	Cases	Percentage
1	Leader/chief	8	33.3%
2	village committee for development	10	41.7%
3	input dealer	1	4.2%
99	other (specify)	5	20.8%
Sysmiss		24	

File : 3_Post_training_village_data_section_x

x14: status of this person in the village?

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x14s: x14 other details

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=5 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
99 (Boutiquier)		1	20.0%
99 (Enseignant)		1	20.0%
chambre d'agriculture		1	20.0%
commer#ant		1	20.0%
conseill#re		1	20.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x15: # plastic bags left with this person

Information	[Type= continuous] [Format=numeric] [Range= 50-100] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=24 /-] [Mean=95.833 /-] [StdDev=14.116 /-]

x16: phone number of person you left the plastic bags with

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
60169272		1	4.2%
70191153		1	4.2%
70294735		1	4.2%
70357510		1	4.2%
70417075		1	4.2%
70888717		1	4.2%
71016253		1	4.2%
71119250		1	4.2%
71609900		1	4.2%
71669880		1	4.2%
71881022		1	4.2%
71997717/786205		1	4.2%
72468291		1	4.2%
73774908		1	4.2%
75183941		1	4.2%
75669069		1	4.2%
75739208		1	4.2%
75922698		1	4.2%
76300635		1	4.2%
76506481		1	4.2%
76696236		1	4.2%
76802663		1	4.2%
76995244		1	4.2%
79205235		1	4.2%

File : 3_Post_training_village_data_section_x

x16: phone number of person you left the plastic bags with

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x17: method of training provided in this village

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=48 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Training through animated videos	24	50.0%
2	training by live demonstration	24	50.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x18: # farmers who copied videos from your phone to their's after training

Information	[Type= discrete] [Format=numeric] [Range= 0-10] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=24 /-]

Value	Label	Cases	Percentage
0		8	33.3%
1		7	29.2%
2		2	8.3%
3		2	8.3%
4		1	4.2%
5		2	8.3%
6		1	4.2%
10		1	4.2%
Sysmiss		24	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x19a: name of person you left cell phone w videos with

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Abdoul RasmanŽ		1	4.2%
Alidou		1	4.2%
Gulbert		1	4.2%
Issa		1	4.2%
Jacque		1	4.2%
Jean-Baptiste		1	4.2%
Marou		1	4.2%
Oumarou		1	4.2%
Segni		1	4.2%
Souma•la		1	4.2%
Thomas		1	4.2%
Zacharie		1	4.2%
aboubacar		1	4.2%
basile		1	4.2%
bia		1	4.2%
boniface		1	4.2%

File : 3_Post_training_village_data_section_x

x19a: name of person you left cell phone w videos with

Value	Label	Cases	Percentage
boukari		1	4.2%
boureima		1	4.2%
issouf		1	4.2%
ko		1	4.2%
koulouga		1	4.2%
lamoussa		1	4.2%
limanŽ		1	4.2%
yacouba		1	4.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x19b: last name of person you left cell phone w videos with

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
DjiguemdŽ		1	4.2%
Illy		1	4.2%
Kizambo		1	4.2%
Kologo		1	4.2%
Nabaloum		1	4.2%
OuŽdraogo		3	12.5%
Pakodtogo		1	4.2%
SomandŽ		1	4.2%
Sondo		1	4.2%
WandŽ		1	4.2%
bagayan		1	4.2%
drabo		1	4.2%
gnata		1	4.2%
terra		1	4.2%
tontpambo		1	4.2%
woro		1	4.2%
yaro		3	12.5%
zerbo		2	8.3%
zongo		1	4.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x20: status of this person in the village?

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=24 /-]

Value	Label	Cases	Percentage
1	Leader/chief	7	29.2%
2	village committee for development	9	37.5%
3	input dealer	1	4.2%
99	other (specify)	7	29.2%
Sysmiss		24	

File : 3_Post_training_village_data_section_x

x20: status of this person in the village?

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x20s: x20 other details

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=7 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
99 (Boutiquier)		1	14.3%
99 (Conseiller)		1	14.3%
catechiste		1	14.3%
commer#ant		1	14.3%
conseill#re		1	14.3%
president de groupement		1	14.3%
secretaire de groupement		1	14.3%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : 4_Pre_training_farmer_data_section_t

regid: region ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	boucle du mouhoun	479	50.9%
2	nord	462	49.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

provid: province ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	sourou	479	50.9%
2	passore	462	49.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

deptid: department ID

Information	[Type= discrete] [Format=numeric] [Range= 101-209] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
101	tougan	159	16.9%
103	kiembara	160	17.0%
107	toeni	160	17.0%
201	samba	160	17.0%
208	arbolle	142	15.1%
209	yako	160	17.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

villageid: village of training

Information	[Type= discrete] [Format=numeric] [Range= 999-20939] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
999	no label	0	
10101		20	2.1%
10106		20	2.1%
10108		20	2.1%
10112		20	2.1%
10117		20	2.1%
10122		20	2.1%
10129		19	2.0%
10134		20	2.1%
10301		20	2.1%
10303		20	2.1%
10305		20	2.1%
10306		20	2.1%
10307		20	2.1%

File : 4_Pre_training_farmer_data_section_t

villageid: village of training

Value	Label	Cases	Percentage
10309		20	2.1%
10310		20	2.1%
10314		20	2.1%
10704		20	2.1%
10705		20	2.1%
10706		20	2.1%
10707		20	2.1%
10712		20	2.1%
10716		20	2.1%
10720		20	2.1%
10722		20	2.1%
20101		20	2.1%
20103		20	2.1%
20105		20	2.1%
20107		20	2.1%
20110		20	2.1%
20111		20	2.1%
20114		20	2.1%
20119		20	2.1%
20802		20	2.1%
20803		20	2.1%
20806		11	1.2%
20808		12	1.3%
20812		20	2.1%
20813		19	2.0%
20817		20	2.1%
20823		20	2.1%
20901		20	2.1%
20909		20	2.1%
20926		20	2.1%
20928		20	2.1%
20930		20	2.1%
20931		20	2.1%
20933		20	2.1%
20939		20	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

treatment: treatment group

Information	[Type= discrete] [Format=numeric] [Range= 11-22] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
11	video + sale of plastic in village	238	25.3%
12	video + sale of plastic by ext agent	240	25.5%
21	trad. training + sale of plastic in village	240	25.5%

File : 4_Pre_training_farmer_data_section_t

treatment: treatment group

Value	Label	Cases	Percentage
22	trad. training + sale of plastic by ext agent	223	23.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ea_id: id of extension agents

Information	[Type= discrete] [Format=numeric] [Range= 1-999] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		142	15.1%
2		160	17.0%
3		160	17.0%
4		160	17.0%
5		159	16.9%
6		160	17.0%
999	no label	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

hhid: respondent hh id

Information	[Type= continuous] [Format=numeric] [Range= 1010101-2093924] [Missing=*]
Statistics [NW/ W]	[Valid=768 /-] [Invalid=173 /-] [Mean=1549654.802 /-] [StdDev=513098.342 /-]

farmer_id: farmer ID within each village (1-12, 21-26)

Information	[Type= continuous] [Format=numeric] [Range= 1-26] [Missing=*]
Statistics [NW/ W]	[Valid=768 /-] [Invalid=173 /-] [Mean=10.531 /-] [StdDev=7.624 /-]

uniqueid: unique ID, sequential

Information	[Type= continuous] [Format=numeric] [Range= 1-941] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-] [Mean=471 /-] [StdDev=271.788 /-]

x1a: month of training

Information	[Type= discrete] [Format=numeric] [Range= 11-11] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
11		941	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1b: day of training

Information	[Type= discrete] [Format=numeric] [Range= 3-13] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
3		140	14.9%
4		100	10.6%
5		120	12.8%
6		111	11.8%
7		80	8.5%
8		119	12.6%

File : 4_Pre_training_farmer_data_section_t

x1b: day of training

Value	Label	Cases	Percentage
9		111	11.8%
10		20	2.1%
11		40	4.3%
12		80	8.5%
13		20	2.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1c: year of training

Information	[Type= discrete] [Format=numeric] [Range= 2012-2012] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
2012		941	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t3a: responsible for cowpea production decisions is

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	does not grow cowpea	0	
1	self	827	87.9%
2	spouse	110	11.7%
3	other	4	0.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t3as: t3a other details

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=4 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Papa		4	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t3b: responsible for cowpea storage decisions is

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	does not grow cowpea	0	
1	self	793	84.3%
2	spouse	144	15.3%
3	other	4	0.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t3bs: t3b other details

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=4 /-] [Invalid=0 /-]

File : 4_Pre_training_farmer_data_section_t

t3bs: t3b other details

Value	Label	Cases	Percentage
Papa		4	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t4: have you heard about solarization technique?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	38	4.0%
2	no	903	96.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t4a: when did you first learn about solarization?

Information	[Type= discrete] [Format=numeric] [Range= 1998-2011] [Missing=*]
Statistics [NW/ W]	[Valid=38 /-] [Invalid=903 /-]

Value	Label	Cases	Percentage
1998		1	2.6%
2000		5	13.2%
2001		1	2.6%
2002		6	15.8%
2005		1	2.6%
2006		1	2.6%
2007		2	5.3%
2008		6	15.8%
2009		6	15.8%
2010		4	10.5%
2011		5	13.2%
Sysmiss		903	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t4b: your understanding of when solarization should be used?

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=38 /-] [Invalid=903 /-]

Value	Label	Cases	Percentage
1	prior to storage	38	100.0%
77	don't know	0	
99	other	0	
Sysmiss		903	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t4bs: t4b other details

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=941 /-]

Value	Label	Cases	Percentage
Sysmiss		941	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : 4_Pre_training_farmer_data_section_t

t4c: your understanding of what solarization does?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=38 /-] [Invalid=903 /-]

Value	Label	Cases	Percentage
1	farmer was able to point out that it kills insects & make seeds ready to store	36	94.7%
2	farmer did not know what solarization does	2	5.3%
Sysmiss		903	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t4d: for how long the seeds need to be exposed to sun to be effective?

Information	[Type= continuous] [Format=numeric] [Range= 1-24] [Missing=*]
Statistics [NW/ W]	[Valid=38 /-] [Invalid=903 /-] [Mean=2.789 /-] [StdDev=3.719 /-]

t4du: t4d units

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=38 /-] [Invalid=903 /-]

Value	Label	Cases	Percentage
1	hours	32	84.2%
2	days	6	15.8%
Sysmiss		903	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t4e: are you currently using/have you used solarization?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=38 /-] [Invalid=903 /-]

Value	Label	Cases	Percentage
1	yes	22	57.9%
2	no	16	42.1%
Sysmiss		903	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t5: have you heard about triple bagging?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=941 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	519	55.2%
2	no	422	44.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t5a: when did you first learn about triple bagging?

Information	[Type= discrete] [Format=numeric] [Range= 2001-2012] [Missing=*]
Statistics [NW/ W]	[Valid=520 /-] [Invalid=421 /-]

Value	Label	Cases	Percentage
2001		1	0.2%
2004		6	1.2%
2005		4	0.8%

File : 4_Pre_training_farmer_data_section_t

t5a: when did you first learn about triple bagging?

Value	Label	Cases	Percentage
2006		5	1.0%
2007		26	5.0%
2008		200	38.5%
2009		98	18.8%
2010		103	19.8%
2011		55	10.6%
2012		22	4.2%
Sysmiss		421	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t5b: for which insect pests is this method effective?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=520 /-] [Invalid=421 /-]

Value	Label	Cases	Percentage
1	farmer was able to ID the insect (bruchids)	347	66.7%
2	farmer did not know	173	33.3%
Sysmiss		421	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t5c: is it acceptable to use bags with holes?

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=520 /-] [Invalid=421 /-]

Value	Label	Cases	Percentage
1	yes	19	3.7%
2	no	450	86.5%
77	don't know	51	9.8%
Sysmiss		421	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t5d: should all the bags be tied together or separately?

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=520 /-] [Invalid=421 /-]

Value	Label	Cases	Percentage
1	together	132	25.4%
2	separately	328	63.1%
77	don't know	60	11.5%
Sysmiss		421	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t5e: when using triple bagging, is it necessary to also use pesticides?

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=519 /-] [Invalid=422 /-]

Value	Label	Cases	Percentage
1	yes	96	18.5%
2	no	372	71.7%

File : 4_Pre_training_farmer_data_section_t

t5e: when using triple bagging, is it necessary to also use pesticides?

Value	Label	Cases	Percentage
77	don't know	51	9.8%
Sysmiss		422	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

t5f: are you currently using/have you used triple bagging?

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=520 /-] [Invalid=421 /-]

Value	Label	Cases	Percentage
1	yes	334	64.2%
2	no	184	35.4%
77	don't know	2	0.4%
Sysmiss		421	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : 6_Sales_data_ext_agent_office

ea_id: ID of extension agent

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		23	10.1%
2		17	7.5%
3		14	6.1%
4		113	49.6%
5		38	16.7%
6		23	10.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

y2a: department where ext agent's office is located

Information	[Type= discrete] [Format=numeric] [Range= 101-209] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
101	tougan	38	16.7%
103	kiembara	113	49.6%
107	toeni	17	7.5%
201	samba	23	10.1%
208	arbolle	23	10.1%
209	yako	14	6.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

s6: name of village where the farmer lives

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
ArbollŽ		5	2.2%
BaskarŽ		1	0.4%
Bingo		3	1.3%
Boulkon		3	1.3%
Boulma		1	0.4%
BourŽ		3	1.3%
Goubi		1	0.4%
Gounghin		1	0.4%
Kassila		2	0.9%
Kourome		1	0.4%
Koussana		3	1.3%
LilbourŽ		1	0.4%
ManŽzago		3	1.3%
Petit Samba		1	0.4%
Samba		11	4.8%
Secteur n¡1		1	0.4%
Secteur n¡2		6	2.6%

File : 6_Sales_data_ext_agent_office

s6: name of village where the farmer lives

Value	Label	Cases	Percentage
Secteur n¡3		1	0.4%
Secteur n¡6		1	0.4%
Sibalo		5	2.2%
Sikoinsi		1	0.4%
Sikouinsi		1	0.4%
Sikouinssi		1	0.4%
Tindila		1	0.4%
Yarbila		2	0.9%
bagassogo		2	0.9%
bambara		4	1.8%
bangassogo		3	1.3%
da		4	1.8%
daka		4	1.8%
dio		42	18.4%
diouruom		11	4.8%
dounkou		12	5.3%
dŽo		1	0.4%
gan		4	1.8%
ganagoulo		2	0.9%
gomboro		2	0.9%
gosson		1	0.4%
gouyalŽ		14	6.1%
gouŽrŽ		6	2.6%
kassoum		2	0.9%
kiembara		22	9.6%
kouygoulo		1	0.4%
lanfiera		1	0.4%
niankarŽ		1	0.4%
niassono		8	3.5%
ouoro		2	0.9%
ouŽllŽ		1	0.4%
sanŽ		1	0.4%
tougan		12	5.3%
zabo		5	2.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

y2b: village where ext agent's office is located

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
ArbollŽ		23	10.1%
Samba		23	10.1%
Yako		14	6.1%
kiembara		113	49.6%

File : 6_Sales_data_ext_agent_office

y2b: village where ext agent's office is located

Value	Label	Cases	Percentage
louta		17	7.5%
tougan		38	16.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

sm: month of sale

Information	[Type= discrete] [Format=numeric] [Range= 1-12] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	january	1	0.4%
2	february	0	
3	march	0	
4	april	0	
5	may	0	
6	june	0	
7	july	0	
8	august	0	
9	september	0	
10	october	0	
11	november	181	79.4%
12	december	46	20.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

sd: day of sale

Information	[Type= continuous] [Format=numeric] [Range= 1-30] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-] [Mean=12.82 /-] [StdDev=5.966 /-]

s1: farmer name (first)

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=228 /-]

Value	Label	Cases	Percentage
Sysmiss		228	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

s2: farmer name (last)

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=228 /-]

Value	Label	Cases	Percentage
Sysmiss		228	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

s3: number of plastic bags purchased by this farmer

Information	[Type= continuous] [Format=numeric] [Range= 1-73] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-] [Mean=3.912 /-] [StdDev=7.996 /-]

s4: total amount paid by this farmer for all plastic bags purchased (CFAs)

Information	[Type= continuous] [Format=numeric] [Range= 1100-80300] [Missing=*]

File : 6_Sales_data_ext_agent_office

s4: total amount paid by this farmer for all plastic bags purchased (CFAs)

Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-] [Mean=4303.509 /-] [StdDev=8795.227 /-]

s5: are these bags only for you (i.e., the farmer)?

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	172	75.4%
2	no, I am buying these for me and other farmer	39	17.1%
3	no, I am buying these for another farmer	17	7.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

s7: km from farmer's village to ext agent's office?

Information	[Type= continuous] [Format=numeric] [Range= 0-80] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-] [Mean=11.781 /-] [StdDev=10.391 /-]

s8: how much (CFAs) did farmer spend to travel from village to ext agent's office?

Information	[Type= continuous] [Format=numeric] [Range= 0-5000] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-] [Mean=958.07 /-] [StdDev=812.88 /-]

s9: did the farmer travel to the office only to buy the plastic bags?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=228 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	163	71.5%
2	no, I also came to do other business	65	28.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : 8_videos_download_ext_agent

regid: region ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	boucle du mouhoun	254	77.2%
2	nord	75	22.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

provid: province ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	sourou	254	77.2%
2	passore	75	22.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

deptid: department ID

Information	[Type= discrete] [Format=numeric] [Range= 101-209] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
101	tougan	135	41.0%
103	kiembara	88	26.7%
107	toeni	31	9.4%
201	samba	33	10.0%
208	arbolle	9	2.7%
209	yako	33	10.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

villageid: village id

Information	[Type= continuous] [Format=numeric] [Range= 10106-20939] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-] [Mean=12601.824 /-] [StdDev=4336.034 /-]

treatment: treatment group

Information	[Type= discrete] [Format=numeric] [Range= 11-22] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
11	video + sale of plastic in village	158	48.0%
12	video + sale of plastic by ext agent	171	52.0%
21	trad. training + sale of plastic in village	0	
22	trad. training + sale of plastic by ext agent	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

ea_id: ID of extension agent

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

File : 8_videos_download_ext_agent

ea_id: ID of extension agent

Value	Label	Cases	Percentage
1	Abdoulaye Dabre	9	2.7%
2	Manasse Dakuou	31	9.4%
3	Michel Kabre	33	10.0%
4	S. Victor Ouattara	88	26.7%
5	Christine Yelemou	135	41.0%
6	Camille Zongnaba	33	10.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

source: source of the video copied by the farmer

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	ext agent	72	21.9%
2	contact person in village	257	78.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1a: month of ext agent's visit

Information	[Type= discrete] [Format=numeric] [Range= 1-12] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	january	0	
2	february	0	
3	march	0	
4	april	0	
5	may	0	
6	june	0	
7	july	0	
8	august	0	
9	september	0	
10	october	0	
11	november	329	100.0%
12	december	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1b: day of ext agent's visit

Information	[Type= discrete] [Format=numeric] [Range= 3-12] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
3		7	2.1%
4		28	8.5%
5		138	41.9%
6		18	5.5%
7		9	2.7%
8		18	5.5%

File : 8_videos_download_ext_agent

x1b: day of ext agent's visit

Value	Label	Cases	Percentage
9		47	14.3%
11		7	2.1%
12		57	17.3%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x1c: year of ext agent's visit

Information	[Type= discrete] [Format=numeric] [Range= 2012-2012] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
2012		329	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

vm: month when video was copied

Information	[Type= discrete] [Format=numeric] [Range= 11-12] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
11		287	87.2%
12		42	12.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

vd: day when video was copied

Information	[Type= continuous] [Format=numeric] [Range= 2-30] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-] [Mean=11.213 /-] [StdDev=5.386 /-]

v3: which of the two videos did the farmer copy?

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	video about solarization	32	9.7%
2	video about tripple bagging storage	121	36.8%
3	both videos	176	53.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

download_solarvideo: downloaded solar video --yes-no

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		121	36.8%
1		208	63.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

download_3bagvideo: downloaded triple bag video --yes-no

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

File : 8_videos_download_ext_agent

download_3bagvideo: downloaded triple bag video --yes-no

Value	Label	Cases	Percentage
0		32	9.7%
1		297	90.3%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

source_contactperson: video downloaded from contact person -- yes/no

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		72	21.9%
1		257	78.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

source_extagent: video downloaded from extension agent-- yes/no

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=329 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		257	78.1%
1		72	21.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : 9_videos_download_village_level

regid: region ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=20 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	boucle du mouhoun	12	60.0%
2	nord	8	40.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

provid: province ID

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=20 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	sourou	12	60.0%
2	passore	8	40.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

deptid: department ID

Information	[Type= discrete] [Format=numeric] [Range= 101-209] [Missing=*]
Statistics [NW/ W]	[Valid=20 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
101	tougan	4	20.0%
103	kiembara	4	20.0%
107	toeni	4	20.0%
201	samba	3	15.0%
208	arbolle	2	10.0%
209	yako	3	15.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

villageid: village id

Information	[Type= continuous] [Format=numeric] [Range= 10106-20939] [Missing=*]
Statistics [NW/ W]	[Valid=20 /-] [Invalid=0 /-] [Mean=14463.15 /-] [StdDev=5141.933 /-]

download_solarvideo: number of solar video downloaded in the village

Information	[Type= continuous] [Format=numeric] [Range= 1-58] [Missing=*]
Statistics [NW/ W]	[Valid=20 /-] [Invalid=0 /-] [Mean=10.4 /-] [StdDev=14.35 /-]

download_3bagvideo: Number of triple bag videos downloaded in the village

Information	[Type= continuous] [Format=numeric] [Range= 2-58] [Missing=*]
Statistics [NW/ W]	[Valid=20 /-] [Invalid=0 /-] [Mean=14.85 /-] [StdDev=14.481 /-]

source_contactperson: number of videos downloaded from the village contact person

Information	[Type= continuous] [Format=numeric] [Range= 0-52] [Missing=*]
Statistics [NW/ W]	[Valid=20 /-] [Invalid=0 /-] [Mean=12.85 /-] [StdDev=13.662 /-]

source_extagent: number of videos downloaded from the extension agent

Information	[Type= continuous] [Format=numeric] [Range= 0-21] [Missing=*]
Statistics [NW/ W]	[Valid=20 /-] [Invalid=0 /-] [Mean=3.6 /-] [StdDev=4.762 /-]