Willingness to Pay for Quality Seeds: Field Experimental and Survey Data, Tanzania Bean Study, 2015-16

Study Documentation

(Metadata and Code Book)

April 27, 2019

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Metadata Production

Metadata Producer(s)	Michigan State University, Study implementer
Production Date	April 27, 2019
Identification	N/A

About the Dataset

Description: The success of a market-driven approach to seed system development for self-pollinated crops such as beans depends on understanding consumer (i.e., farmer) demand for quality seed products. Double blind field experiments and experimental auctions were conducted with bean farmers in Tanzania to gauge the relative demand for three types of seed products available to farmers in this region that differ in price and quality: certified, quality declared, and recycled. These experiments specifically focused on the following two research questions. First, for a given improved variety (i.e., keeping the genetics constant), what is the perceived difference in the performance of the crop across three seed types – certified, QDS and recycled grain, when the seeds are planted and managed by farmers under their own conditions in a blind experiment? Second, how does the observed differential performance measured by indicators such as filling of pods, plant health, and vigor translate into farmers' WTP for these different seed types? This dataset includes four types of data collected to address these research questions: a) farmer rating of the three seed quality types planted in the farmer managed field demonstration plots. These ratings were based on observed performance during the field days organized around flowering and harvest stages; b) farmer's bid on these three seed quality types during the seed auction experiments conducted on the second field day before harvest; c) farmer survey data; and d) Field experiment yield data after harvest.

Sampling Two districts (Hai and Karatu) were selected based on the importance of bean production in the country. Twelve villages across the two districts were selected in consultation with the local agricultural extension agents. They were purposively selected based on prior participation in a bean project. All the bean growing farmers who attended the field days (who represented close to 80% of bean growing households in a village) participated in the auctions.

Method: **Field Experiments:** In each village one farmer was selected to host the field experiment and to grow the 4 different types of seeds in plots next to each other using farmers' own management practices. Seeds were procured by the researchers and equal quantities of seeds of each type were given to the host farmers to plant on 10x10m plots, which were labeled by letters A, B, C, and D for certified 1 (of certified seeds representing seeds produced in the most recent season), certified 2 (certified seeds from previous season), recycled seed, and QDS respectively. Apart from the different letters assigned to the seed types, all the seeds were treated with seed dresser of the same color and packaged in similar bags. The planting was done by the host farmers under the supervision of the agricultural extension agent and the research collaborator. Supervision during the planting stage was to ensure uniform planting rate and to avoid mixing of the seed types. Neither the farmers' nor the extension agent who helped in the technical supervision knew which seed type was associated with which letter. These field experiments were established in the 2015 short rain season (July-September) in the Hai district, and in the 2016 long rain season (March to July) in the Karatu district. Subsequent operations post-planting such as refilling, first and second weed control, insecticide spraying, reshaping of ridges and harvesting were uniformly carried on each plot by the host farmer. Agricultural extension agents and the research collaborator paid regular visits to prompt the host farmers to comply with the timely and uniform implementation of these practices and to ensure all the operations were uniformly implemented on the same day on each of the plots to ensure that differences that will be observed across the seed plots would be attributed to the differences in the seed types and not due to differential treatments. Two field days were held in 12 villages where

other farmers from those villages were invited to observe the demonstration plots around flowering stage (Field Day 1) and around harvest stage (Field Day 2). During the field days, each farmer attendee was asked to evaluate the performance of the seed plots based on visual characteristics they considered important, and rate one plot (i.e., seed type) as the best (both field days) and one as the worst (Field Day 2 only).

Auction experiments: Once farmers had observed how different types of seeds performed in the field, WTP auctions were carried out during Field Day 2 to elicit information about how much they were willing to pay for these seeds based on the observed differences in their performance. We followed the Becker-DeGroot-Marschak (BDM) (Becker, DeGroot and Marschak, 1964) method, where participants do not bid against other people, but only against themselves. The full bidding method was used, whereby farmers participated in four auctions (i.e., one each for seed types A, B, C, and D). Farmers were asked to "bid" their maximum WTP for one kilo of seed for a given type of seed (referred to by the letter labels) knowing that only one of the three or four auctions would be chosen randomly and the bid for that seed would then be compared to a randomly drawn price from a given revealed range equivalent to their endowment. This revealed price range was 0 to 3,950 Tanzanian Shillings (TSH). If the bid was greater than or equal to the randomly drawn price, then the farmer purchased that seed for the randomly drawn price (not their bid). The difference in the bids between the three/four auctions reveals the premium (or discount) due to the different quality attributes as perceived by the farmer. . Farmers were given 400 TSH equivalent to $2 as their initial endowment so they didn't have to bid using their own money. [1] These amounts for the initial endowments were equivalent to about 33% more than the price of one kg of certified (i.e., highest quality) seed available in the market. Prior to the seed BDM auction, a practice BDM auction was conducted with a bar of soap (a product that has a readily apparent valuation) to make sure farmers understood the auction mechanism. An additional small amount of cash (i.e., TSH 400) equivalent to ~$0.50 was given to farmers for this practice BDM auction.

Farmer survey: Farmers selected for the study and who had attended both the field days and the auction experiments were interviewed using a structured questionnaire. The questionnaire collected demographic information about the farmer participant (i.e. respondent) and his/her household characteristics, bean production practices, and farmers' perception and opinion of the seed quality. The survey was conducted by trained enumerators with technical support and supervision by one of this study's Principal Investigators.

Reference(s) on related publication:

Maredia, Mywish K., Robert Shupp, Edward Opoku, Fulgence Mishili, Byron Reyes, Paul Kusolwa, Francis Kusi, and Abdul Kudra. 2019. Farmer perception and valuation of seed quality: Evidence from bean and cowpea seed auctions in Tanzania and Ghana. Agricultural Economics (Forthcoming)

[1] The exchange rate from 1 US$ to local currency at the time of these experiments was about 2100 Tanzanian Shillings (TSH).

Overview

Overview

Type	Edited, anonymous dataset for public distribution
Identification	N/A
Version	v01
Kind of Data	field experiment, auction experiment, and farmer survey data
Unit of Analysis	farmer and farm plots
Language	Survey was implemented in local language, data was recorded in English in English version of the questionnaire
Questionnaires	Available only in English version

Scope & Coverage

Time Period(s)	2015-2016
Countries	Tanzania
Regional coverage:	12 villages in Hai and Karatur districts in Northern Tanzania

Producers & Sponsors

Primary Investigator(s)	Mywish Maredia and Robert Shupp, Michigan State University; Fulgence Mishili, Paul Kusolwa and Abdul Kudra, Sokoine University of Agriculture; Byron Reyes (CIAT)
Contact email for corresponding PI:	maredia@msu.edu
Funding Agency/ies	U.S. Agency for International Development (USAID)

Data Collection

Data Collection Dates	start 2015-07-1; end 2016-7-31

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 4 file(s)

Field day 1 farmer rating	
# Cases	282
# Variable(s)	16

Farmer level data - BDM, field day 2 and survey	
# Cases	247
# Variable(s)	214

Field level data - Farmer survey	
# Cases	302
# Variable(s)	13

FE_yield data	
# Cases	88
# Variable(s)	12

Variables List

Dataset contains 255 variable(s)

File Field day 1 farmer rating

#	Name	Label	Type	Format	Valid	Invalid	Question
1	fid	farmer ID	continuous	numeric-10.0	282	0	-
2	FE_id	Field experiment ID	continuous	numeric-10.0	282	0	-
3	X2	Gender	discrete	numeric-10.0	282	0	-
4	X3	Age (years)	continuous	numeric-10.0	282	0	-
5	X4a	Total # of HH members participating in this field day	continuous	numeric-10.0	282	0	-
6	X4b	Main decision maker	discrete	numeric-10.0	282	0	-
7	X6_1	First criteria for ranking	discrete	character-33	282	0	-
8	X6_2	Second criteria for ranking	discrete	character-29	282	0	-
9	X6_3	Third criteria for ranking	discrete	character-30	281	0	-
10	X7_1	Plot that best meets criteria 1	discrete	character-1	282	0	-
11	X7_2	Plot that best meets criteria 2	discrete	character-1	282	0	-
12	X7_3	Plot that best meets criteria 3	discrete	character-1	282	0	-
13	X71_plot	Plot ID that best meets criteria 1	discrete	numeric-21.0	282	0	-
14	X72_plot	Plot ID that best meets criteria 2	discrete	numeric-21.0	282	0	-
15	X73_plot	Plot ID that best meets criteria 3	discrete	numeric-21.0	282	0	-
16	X8	overall best plot	discrete	numeric-21.0	282	0	-

File Farmer level data - BDM, field day 2 and survey

#	Name	Label	Type	Format	Valid	Invalid	Question
1	fid	farmer id (for merging)	continuous	numeric-9.0	247	0	-
2	FE_id	FE_id	continuous	numeric-10.0	247	0	-
3	bidA	farmer bid for seed type A (TZ shillings)	continuous	numeric-10.0	247	0	-
4	bidB	farmer bid for seed type B (TZ shillings)	continuous	numeric-10.0	247	0	-
5	bidC	farmer bid for seed type C (TZ shillings)	continuous	numeric-10.0	247	0	-
6	bidD	farmer bid for seed type D (TZ shillings)	continuous	numeric-10.0	247	0	-
7	seedtypeA	seed type A selected (1=yes 0=no)	discrete	numeric-10.0	247	0	-
8	seedtypeB	seed type A selected (1=yes 0=no)	discrete	numeric-10.0	247	0	-
9	seedtypeC	seed type C selected (1=yes 0=no)	discrete	numeric-10.0	247	0	-

File Farmer level data - BDM, field day 2 and survey

#	Name	Label	Type	Format	Valid	Invalid	Question
10	seedtypeD	seed type D selected (1=yes 0=no)	discrete	numeric-10.0	247	0	-
11	random_pr	Random price	continuous	numeric-10.0	247	0	-
12	purchase	purchased seed (1=yes)	discrete	numeric-10.0	247	0	-
13	Purchase_N	purchased seed--no (1=no)	discrete	numeric-10.0	247	0	-
14	tot_cash	Total cash (owed) given to farmer	continuous	numeric-10.0	247	0	-
15	Z0	Completed Field Day 1 evaluation sheet?	discrete	numeric-10.0	245	2	-
16	Z1	Consented?	discrete	numeric-10.0	245	2	-
17	Z2	Main decision maker?	discrete	numeric-10.0	245	2	-
18	Z6	Gender	discrete	numeric-10.0	245	2	-
19	Z7	Age	continuous	numeric-10.0	245	2	-
20	Z8	Total number of HH members participating in Field Day 2	discrete	numeric-10.0	245	2	-
21	Z9	Best ploted Rated (A-D)	discrete	character-1	245	0	-
22	Z9_plot	Best plot code	discrete	numeric-13.0	245	2	-
23	Z10	Main reason for rating best plot	discrete	numeric-23.0	245	2	-
24	Z10_other	Z10_other	discrete	character-15	1	0	-
25	Z11	Worst plot rated (A-D)	discrete	character-1	245	0	-
26	Z11_plot	Worst plot code	discrete	numeric-13.0	245	2	-
27	Z12	Main reason for rating worst plot	discrete	numeric-27.0	245	2	-
28	Z12_other	Z12_other	discrete	character-5	1	0	-
29	A1	Years of education completed	discrete	numeric-10.0	244	3	-
30	A2	Can read and write	discrete	numeric-38.0	244	3	-
31	A3a	Total HH members	discrete	numeric-10.0	245	2	-
32	A3b	Number of male members	discrete	numeric-10.0	241	6	-
33	A3c	Number of female members	discrete	numeric-10.0	234	13	-
34	A4a	No. of HH members < 6	discrete	numeric-10.0	136	111	-
35	A4b	No. of HH members 6-17	discrete	numeric-10.0	247	0	-
36	A4c	No. of HH members 18-65	discrete	numeric-10.0	247	0	-
37	A4d	No. of HH members >65	discrete	numeric-10.0	247	0	-
38	A5	Do all children 6-17 attend school	discrete	numeric-22.0	242	5	-
39	A6	Relationship to the head of HH	discrete	numeric-12.0	245	2	-
40	A6_other	A6_other	discrete	numeric-10.0	0	247	-
41	A7	Gender of the head of HH	discrete	numeric-12.0	172	75	-
42	A8	Marital status	discrete	numeric-10.0	215	32	-

File Farmer level data - BDM, field day 2 and survey

#	Name	Label	Type	Format	Valid	Invalid	Question
43	A9	Can the female head or spouse of the male head read write ...	discrete	numeric-38.0	220	27	-
44	A10	Years living in this village	continuous	numeric-10.0	245	2	-
45	A11	Years planiting beans	continuous	numeric-10.0	244	3	-
46	A12	Do you regularly purchase or have you ever purchased bean seed	discrete	numeric-26.0	244	3	-
47	A13	Highest price per kg you have ever paid for bean seed	continuous	numeric-10.0	210	37	-
48	A14	Last time you purchased bean seed	discrete	numeric-10.0	210	37	-
49	A15	Price per kg paid for seed last time	continuous	numeric-10.0	210	37	-
50	A15b	Quantity of seed purchased (kg)	continuous	numeric-10.0	211	36	-
51	A16a	Source of last purchased seed	discrete	numeric-27.0	211	36	-
52	A16a_other	A16a_other	discrete	numeric-10.0	0	247	-
53	A16b	Type of seed last purchased	discrete	numeric-49.0	211	36	-
54	A17	Name of seed variety purchased	discrete	character-15	211	0	-
55	A18	Total land area owned by HH	continuous	numeric-10.0	236	11	-
56	A19	Unit for land area	discrete	numeric-10.0	244	3	-
57	A19_other	A19_other	discrete	numeric-10.0	0	247	-
58	A20	total area cultivated last season	continuous	numeric-10.0	244	3	-
59	A21	percentage of bean harvest sold	discrete	numeric-10.0	243	4	-
60	A22	Percent of HH income from bean sales	discrete	numeric-10.0	243	4	-
61	A23	last season beans were grown	discrete	numeric-10.0	245	2	-
62	A23_other	Other speciify	discrete	character-10	111	0	-
63	A24	Number of field plots planted with beans in last season	discrete	numeric-10.0	244	3	-
64	A31_1st	Most imp crop -- total area planted	discrete	numeric-17.0	244	3	-
65	A31_2nd	second imp crop -- total area planted	discrete	numeric-17.0	239	8	-
66	A31_3rd	Third imp crop -- total area planted	discrete	numeric-17.0	198	49	-
67	A31_other	A31_other	discrete	numeric-10.0	0	247	-
68	A32_1st	Most imp crop -- purchased inputs	discrete	numeric-17.0	244	3	-
69	A32_2nd	second imp crop -- purchased inputs	discrete	numeric-17.0	239	8	-
70	A32_3rd	third imp crop -- purchased inputs	discrete	numeric-17.0	198	49	-

File Farmer level data - BDM, field day 2 and survey

#	Name	Label	Type	Format	Valid	Invalid	Question
71	A32_other	A32_other	discrete	numeric-10.0	0	247	-
72	A33_1st	Most imp crop -- source of income	discrete	numeric-17.0	244	3	-
73	A33_2nd	second imp crop -- source of income	discrete	numeric-17.0	239	8	-
74	A33_3rd	third imp crop -- source of income	discrete	numeric-17.0	198	49	-
75	A33_other	A33_other	discrete	numeric-10.0	0	247	-
76	A34	number of bean varieties planted in last season	discrete	numeric-10.0	244	3	-
77	A35a	Name of variety 1	discrete	character-15	244	0	-
78	A35b	Source of variety 1	discrete	numeric-26.0	244	3	-
79	A35b_spe ..	A35b_specify	discrete	character-16	1	0	-
80	A36a	Name of variety 2	discrete	character-15	40	0	-
81	A36b	Source of variety 2	discrete	numeric-26.0	40	207	-
82	A37a	Name of variety 3	discrete	numeric-10.0	0	247	-
83	A37b	Source of variety 3	discrete	numeric-10.0	2	245	-
84	A38a	Do you have easy access to certified seed of any crops	discrete	numeric-27.0	244	3	-
85	A39a	Ever used certified seed of any crop	discrete	numeric-10.0	241	6	-
86	A40a_crop1	used certified seed for Crop 1	discrete	numeric-17.0	186	61	-
87	A40a_crop2	used certified seed for crop 2	discrete	numeric-17.0	184	63	-
88	A40a_crop3	used certified seed for crop 3	discrete	numeric-17.0	182	65	-
89	A41a_1	Most important advantage of certified seed	discrete	numeric-52.0	186	61	-
90	A41a_2	second important advantage of certified seed	discrete	numeric-52.0	186	61	-
91	A38b	Do you have easy access to QDS	discrete	numeric-27.0	244	3	-
92	A39b	Ever used QDS of any crop	discrete	numeric-10.0	185	62	-
93	A40b_crop1	Used QDS for crop 1	discrete	numeric-17.0	8	239	-
94	A40b_crop2	used QDS for crop 2	discrete	numeric-17.0	8	239	-
95	A40b_crop3	used QDS for crop 3	discrete	numeric-17.0	8	239	-
96	A41b_1	Most important advantage of QDS	discrete	numeric-52.0	8	239	-
97	A41b_2	Second important advantage of QDS	discrete	numeric-52.0	8	239	-
98	B1_0	respondent never left this village	discrete	numeric-10.0	5	242	-
99	B1_1	Respondent has traveled to a village/town in this district	discrete	numeric-10.0	34	213	-
100	B1_2	Respondent has traveled to a village/town in Tanzania	discrete	numeric-10.0	191	56	-

File Farmer level data - BDM, field day 2 and survey

#	Name	Label	Type	Format	Valid	Invalid	Question
101	B1_3	Respondent has traveled to another country in Africa	discrete	numeric-10.0	13	234	-
102	B1_4	Respondent has traveled to middle east in Africa	discrete	numeric-10.0	0	247	-
103	B1_5	Respondent has traveled to US/Europe/Australia	discrete	numeric-10.0	0	247	-
104	B1_99	respondent has traveled to other places (sp)	discrete	numeric-10.0	0	247	-
105	B1_other	B1_other	discrete	numeric-10.0	0	247	-
106	B2	Last time HH adopted a NEW input or technology on farm	continuous	numeric-10.0	242	5	-
107	B3_1	most recently adopted technology -- seed/variety	discrete	numeric-10.0	183	64	-
108	B3_2	most recently adopted technology --agro-chemicals	discrete	numeric-10.0	112	135	-
109	B3_3	most recently adopted technology -- new animal breed	discrete	numeric-10.0	8	239	-
110	B3_4	most recently adopted technology -- agronomic practices	discrete	numeric-10.0	97	150	-
111	B3_5	most recently adopted technology -- soil/water conservation	discrete	numeric-10.0	4	243	-
112	B3_6	most recently adopted technology --conservation agriculture	discrete	numeric-10.0	23	224	-
113	B3_7	most recently adopted technology -- machinery/tool	discrete	numeric-10.0	27	220	-
114	B3_8	most recently adopted technology -- storage method	discrete	numeric-10.0	8	239	-
115	B3_9	most recently adopted technology -- monocropping	discrete	numeric-10.0	10	237	-
116	B3_10	most recently adopted technology -- drying / processing	discrete	numeric-10.0	0	247	-
117	B3_99	most recently adopted technology -- other (sp)	discrete	numeric-10.0	0	247	-
118	B4	ever used hybrid seed of any crop	discrete	numeric-10.0	244	3	-
119	B5	ever stopped using a bean variety you like because not available	discrete	numeric-10.0	244	3	-
120	B6a	Main constraints in bean farming	discrete	numeric-34.0	244	3	-
121	B6b	seond constraint in bean farming	discrete	numeric-34.0	238	9	-
122	B6_other	B6_other	discrete	character-27	38	0	-
123	B7	current bean price if sold (TZS/kg)	continuous	numeric-10.0	237	10	-

File Farmer level data - BDM, field day 2 and survey

#	Name	Label	Type	Format	Valid	Invalid	Question
124	B8	current bean price if you purchased it (TZS/kg)	continuous	numeric-10.0	230	17	-
125	B9	how often aquire fresh seed of beans from outside farm for planting	discrete	numeric-18.0	231	16	-
126	B10	Main reason you DON't replace bean seed more often	discrete	numeric-61.0	104	143	-
127	B10_other	Other specify	discrete	numeric-36.0	0	247	-
128	B11	Main reason for replacing bean seed instead of using own saved seed	discrete	numeric-36.0	205	42	-
129	B11_other	B11_other	discrete	numeric-10.0	0	247	-
130	C1	do you belong to a farmer group/organization	discrete	numeric-10.0	245	2	-
131	C2	level of involvement in farmer group	discrete	numeric-15.0	82	165	-
132	C3	are you a leader of any group	discrete	numeric-10.0	81	166	-
133	C4_a	number owned - two wheeled transport	discrete	numeric-9.0	247	0	-
134	C4_b	number owned - four wheeled transport	discrete	numeric-9.0	247	0	-
135	C4ab	number of 2 and 4 wheeled vehicles owned	discrete	numeric-9.0	247	0	-
136	C4_c	Number owned -- radio or radio-cassette	discrete	numeric-10.0	198	49	-
137	C4_d	number owned -- lanterns (any type)	discrete	numeric-10.0	236	11	-
138	C4_e	number owned -- irons (charcoal or electric)	discrete	numeric-10.0	189	58	-
139	C4_f	number owned -- tables	discrete	numeric-10.0	226	21	-
140	C4_g	number owned -- plows	discrete	numeric-10.0	158	89	-
141	C4_h	number owned -- backpack sprayers	discrete	numeric-10.0	167	80	-
142	C4_i	number owned -- cellphone	discrete	numeric-10.0	220	27	-
143	C5_a	number owned -- horses/ mules	discrete	numeric-10.0	247	0	-
144	C5_b	number owned -- cattle/cow/ oxen	continuous	numeric-10.0	247	0	-
145	C5_c	number owned -- goats/sheep	continuous	numeric-10.0	247	0	-
146	C5_d	number owned -- chicken	continuous	numeric-10.0	247	0	-
147	C6	main material of FLOOR	discrete	numeric-39.0	245	2	-
148	C7	main material of ROOF	discrete	numeric-37.0	245	2	-
149	C8	technology adoption behaviour best describes you	discrete	numeric-97.0	244	3	-
150	bean_gr_..	mean bean grain purchase price reported by farmers in the FE site (Tsh/kg)	continuous	numeric-9.0	247	0	-

File Farmer level data - BDM, field day 2 and survey

#	Name	Label	Type	Format	Valid	Invalid	Question
151	WTP_premA	WTP premium price for type A relative to bean grain price	continuous	numeric-9.0	247	0	-
152	WTP_premB	WTP premium price for type B relative to bean grain price	continuous	numeric-9.0	247	0	-
153	WTP_premC	WTP premium price for type C relative to bean grain price	continuous	numeric-9.0	247	0	-
154	WTP_premD	WTP premium price for type D relative to bean grain price	continuous	numeric-9.0	247	0	-
155	prempr_b ..	WTP premium price for best plot relative to WTP price for worst plot	continuous	numeric-9.0	245	2	-
156	prempr_b ..	prempr_best_worst without negatives	continuous	numeric-9.0	218	29	-
157	p_WTP_pr ..	WTP premium as a percentage of bean grain price	continuous	numeric-9.0	247	0	-
158	p_WTP_pr ..	WTP premium for seed type B as a percentage of bean grain price	continuous	numeric-9.0	247	0	-
159	p_WTP_pr ..	WTP premium for seed type C as a percentage of bean grain price	continuous	numeric-9.0	247	0	-
160	p_WTP_pr ..	WTP premium for seed type D as a percentage of bean grain price	continuous	numeric-9.0	247	0	-
161	hhmem_mt17	number of HH members >17 years	discrete	numeric-9.0	247	0	-
162	ps1	poverty score for ind 1-hh members >17 yrs age	continuous	numeric-9.0	247	0	-
163	ps2	children 6-17 attend school'	discrete	numeric-9.0	247	0	-
164	ps3	female head/spouse read and write	discrete	numeric-9.0	247	0	-
165	ps4	material for floor	discrete	numeric-9.0	245	2	-
166	ps5	main material for the roof	discrete	numeric-9.0	247	0	-
167	ps6	number of 2 or 4 wheeled vehicles owned	discrete	numeric-9.0	247	0	-
168	ps7	number of radio/cassettes owned	discrete	numeric-9.0	247	0	-
169	ps8	number of lanterns owned	discrete	numeric-9.0	247	0	-
170	ps9	number of irons owned	discrete	numeric-9.0	247	0	-
171	ps10	number of tables owned	discrete	numeric-9.0	247	0	-
172	resp_age	Respondent age	continuous	numeric-9.0	245	2	-
173	resp_gen ..	Respondent gender	discrete	numeric-9.0	245	2	-
174	resp_edu	respondent education (num of years)	discrete	numeric-9.0	244	3	-
175	resp_lit	respondent can read and write	discrete	numeric-38.0	244	3	-
176	travexpo ..	Travel exposure score	discrete	numeric-42.0	247	0	-

File Farmer level data - BDM, field day 2 and survey

#	Name	Label	Type	Format	Valid	Invalid	Question
177	adoption ..	first one to adopt a new technology (1=yes)	discrete	numeric-9.0	247	0	-
178	group_me ..	farmer belongs to any group/ org (1=yes)	discrete	numeric-9.0	247	0	-
179	group_le ..	farmer is a leader of any group/org (1=yes)	discrete	numeric-9.0	247	0	-
180	adoptnew ..	Score for adoption of new technology	discrete	numeric-22.0	247	0	-
181	hhh_gender	HH head gender (1=male)	discrete	numeric-9.0	245	2	-
182	hhsize	HH size	discrete	numeric-9.0	245	2	-
183	area_own	total area owned (acres)	continuous	numeric-9.0	236	11	-
184	TLU	Tropical livestock units owned	continuous	numeric-9.0	247	0	-
185	povscore	poverty scorecard score	continuous	numeric-9.0	245	2	-
186	cellphon ..	number of cellphones owned	discrete	numeric-9.0	247	0	-
187	cellphon ..	number of cell phones owned per person	continuous	numeric-9.0	245	2	-
188	beanmost ..	bean is the most important crop in terms of area (1=yes)	discrete	numeric-9.0	247	0	-
189	beanmost ..	bean is the most important crop in terms of input use (1=yes)	discrete	numeric-9.0	247	0	-
190	beanmost ..	bean is the most important crop in terms of income (1=yes)	discrete	numeric-9.0	247	0	-
191	bean_sold	percentage of bean harvest sold	continuous	numeric-9.0	243	4	-
192	bean_inc ..	percentage of HH income from bean sales	continuous	numeric-9.0	243	4	-
193	grewjesca	farmer planted Jesca variety in the last bean season	discrete	numeric-9.0	247	0	-
194	usedcert ..	ever used certified seed of any crop (1=yes)	discrete	numeric-9.0	247	0	-
195	pur_bean ..	Do you regularly purchase bean seed (1=yes)	discrete	numeric-9.0	247	0	-
196	nevpur_b ..	Never purchase bean seed (1=yes)	discrete	numeric-9.0	244	3	-
197	seed_pr_ ..	price per kg paid for bean seed last time	continuous	numeric-9.0	210	37	-
198	seed_qty ..	KG bean seed purchased last time	continuous	numeric-9.0	211	36	-
199	pur_seed ..	purchased last time bean seed from a vendor (1=yes)	discrete	numeric-9.0	247	0	-
200	WTP_A_ltgp	WTP of bean seed less than grain price (1=yes)	discrete	numeric-9.0	247	0	-
201	WTP_A_gtcp	WTP of bean seed less than 1.5 times grain price (1=yes)	discrete	numeric-9.0	247	0	-
202	grew_jesca	HH grew Jesca variety last bean season	discrete	numeric-9.0	247	0	-

File Farmer level data - BDM, field day 2 and survey

#	Name	Label	Type	Format	Valid	Invalid	Question
203	saved	bean seed source=saved grain	discrete	numeric-9.0	247	0	-
204	pur_grain	bean seed source=purchased as grain	discrete	numeric-9.0	247	0	-
205	pur_seed	bean seed source=purchased as seed	discrete	numeric-9.0	247	0	-
206	govt	bean seed source=given by govt or NGOs	discrete	numeric-9.0	247	0	-
207	seed_sou ..	number of bean seed sources	discrete	numeric-9.0	247	0	-
208	replace_ ..	HH replaces bean seed every year or other year	discrete	numeric-9.0	247	0	-
209	last_see ..	farmer last purchased bean seed less than 4 years ago	discrete	numeric-9.0	247	0	-
210	X8_flowe ..	overall best plot at flowering	discrete	numeric-21.0	225	22	-
211	prem_bes ..	best seed price / worst seed price	continuous	numeric-9.0	245	2	-
212	pr_best	WTP for best rated plot (TSH/kg)	continuous	numeric-9.0	245	2	-
213	pr_worst	WTP for worst rated plot (TSH/kg)	continuous	numeric-9.0	245	2	-
214	prem_bes ..	percent prem WTP for best seed/worst seed without zero and negative	continuous	numeric-9.0	191	56	-

File Field level data - Farmer survey

#	Name	Label	Type	Format	Valid	Invalid	Question
1	fid	farmer id (for merging)	continuous	numeric-10.0	302	0	-
2	FE_id	Field Experiment site id	continuous	numeric-10.0	302	0	-
3	field_id	field_id	discrete	numeric-10.0	301	1	-
4	A25	Total area	continuous	numeric-10.0	301	1	-
5	A26	units (1=acres)	discrete	numeric-10.0	301	1	-
6	A26_other	Other units (if specified)	discrete	numeric-10.0	0	302	-
7	A27	Beans intercropped (1=yes 2=no)	discrete	numeric-10.0	301	1	-
8	A28	Proportion of field planted to beans	discrete	numeric-10.0	43	259	-
9	A29	quantity harvested (kg)	continuous	numeric-10.0	277	25	-
10	A30	Units (2=kg)	discrete	numeric-10.0	276	26	-
11	A30_other	Other units	discrete	numeric-10.0	0	302	-
12	conv_rate	proportion of area planted to beans based on A28	continuous	numeric-9.0	302	0	-
13	bean_area	bean area (acres) after adjusting intercropping	continuous	numeric-9.0	301	1	-

File FE_yield data

#	Name	Label	Type	Format	Valid	Invalid	Question
1	FE_id	FE_id	continuous	numeric-10.0	88	0	-
2	Seed_plot	Seed_plot	discrete	character-1	88	0	-
3	Seedtype	Seedtype	discrete	character-12	24	0	-
4	Yield_kg	Yield_kg	continuous	numeric-10.0	86	2	-
5	Area_sq_m	Area_sq_m	continuous	numeric-10.0	88	0	-
6	Area_ha	Area_ha	continuous	numeric-10.0	88	0	-
7	yieldA	yieldA	continuous	numeric-10.0	22	66	-
8	yieldB	yieldB	continuous	numeric-10.0	22	66	-
9	yieldC	yieldC	continuous	numeric-10.0	22	66	-
10	yieldD	yieldD	continuous	numeric-10.0	22	66	-
11	yield_kgha	yield_kgha	continuous	numeric-10.0	88	0	-
12	FEbid	1=BDM was conducted; 0=Not conducted	discrete	numeric-9.0	88	0	-

Variables Description

Dataset contains 255 variable(s)

File : Field day 1 farmer rating

fid: farmer ID

Information	[Type= continuous] [Format=numeric] [Range= 11002-96099] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-] [Mean=57059.124 /-] [StdDev=35630.051 /-]

FE_id: Field experiment ID

Information	[Type= continuous] [Format=numeric] [Range= 11-96] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-] [Mean=57.043 /-] [StdDev=35.627 /-]

X2: Gender

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	male	165	58.5%
2	female	117	41.5%

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.

X3: Age (years)

Information	[Type= continuous] [Format=numeric] [Range= 15-84] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-] [Mean=41.638 /-] [StdDev=13.89 /-]

X4a: Total # of HH members participating in this field day

Information	[Type= continuous] [Format=numeric] [Range= 1-32] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-] [Mean=1.883 /-] [StdDev=3.13 /-]

X4b: Main decision maker

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	264	93.6%
2	no	18	6.4%

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.

X6_1: First criteria for ranking

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Diseases attacked		1	0.4%
Diseases resistant		3	1.1%
Diseases resistant,early maturity		1	0.4%
Diseases resistant,high yield		1	0.4%
Early maturity		3	1.1%
Good crop stand		3	1.1%
Good pod set		6	2.1%

File : Field day 1 farmer rating

X6_1: First criteria for ranking

Value	Label	Cases	Percentage
Good pods set		3	1.1%
Good stand		15	5.3%
High production		21	7.4%
High production,good stand		2	0.7%
High productivity/ yie;d		114	40.4%
High yield		49	17.4%
Less diseases		1	0.4%
Less yield		3	1.1%
More pods,vigorous		1	0.4%
No climbing varities		9	3.2%
No diseases,high production		10	3.5%
No yield		2	0.7%
Poor pods maturity		1	0.4%
Production		1	0.4%
Production good		1	0.4%
Production,less diseases		1	0.4%
Production,no diseases		1	0.4%
Resistant to pest		5	1.8%
Vigor		1	0.4%
Vigorous		18	6.4%
Vigorous,diseases resistant		1	0.4%
Vigorous,high yield		1	0.4%
pods maturity		1	0.4%
yield		2	0.7%

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_2: Second criteria for ranking

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Better than B		2	0.7%
Diseases		1	0.4%
Diseases attacked		4	1.4%

File : Field day 1 farmer rating

X6_2: Second criteria for ranking

Value	Label	Cases	Percentage
Diseases resistant,high yield		5	1.8%
Diseases,high production		1	0.4%
Early flowering		3	1.1%
Early maturity		5	1.8%
Early pods maturity		1	0.4%
Good crop stand		6	2.1%
Good growth		4	1.4%
Good performance		3	1.1%
Good pod production		1	0.4%
Good pod set		3	1.1%
Good pod set (long)		1	0.4%
Good pod set (uniform)		1	0.4%
Good seed		2	0.7%
Good stand,diseases resistant		8	2.8%
High production		11	3.9%
High production,disease		1	0.4%
High production,weak stand		1	0.4%
High productivity/ yie;d		14	5.0%
High yield		15	5.3%
High yield,insects attacked		1	0.4%
It has space		1	0.4%
Less diseases		2	0.7%
Less production		1	0.4%
Less yield		9	3.2%
Low production		2	0.7%
Low yield		1	0.4%
Mixed climbers		1	0.4%
Mixed seeds		1	0.4%
Mixed types of seeds		2	0.7%
No climbing varities		20	7.1%

File : Field day 1 farmer rating

X6_2: Second criteria for ranking

Value	Label	Cases	Percentage
No diseases		16	5.7%
No disesaes		1	0.4%
No early maturity		1	0.4%
No mixed climbers		5	1.8%
No mixture		2	0.7%
No mixture of seeds		1	0.4%
Pods maturity is okay		1	0.4%
Poor pod set		1	0.4%
Production		4	1.4%
Production of goods pods		1	0.4%
Resistant to pest		53	18.8%
Slow maturity		2	0.7%
Vigor		3	1.1%
Vigorous		49	17.4%
Vigorous,less pods		1	0.4%
Vigourous		1	0.4%
high production		1	0.4%
insects infection		1	0.4%
vigor,diseases infection		1	0.4%
yield		3	1.1%

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.

X6_3: Third criteria for ranking

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=281 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Better than B		1	0.4%
Better than D		1	0.4%
Diseases and insects infection		3	1.1%
Diseases attacked		2	0.7%
Diseases resistant		3	1.1%
Drought tolerant		6	2.1%
Earl pods maturity		1	0.4%
Early flowering		1	0.4%
Early maturity		8	2.8%

File : Field day 1 farmer rating

X6_3: Third criteria for ranking

Value	Label	Cases	Percentage
Early pod maturity		2	0.7%
Early pods maturity		2	0.7%
Fast pods maturity		2	0.7%
Flowering		1	0.4%
Good crop stand		4	1.4%
Good germination		1	0.4%
Good growth		4	1.4%
Good performance		5	1.8%
Good pod set		2	0.7%
Good pod sets		1	0.4%
Good pods set		3	1.1%
Good seed filling		1	0.4%
Good set of pods		6	2.1%
Good stand		14	5.0%
High productivity/ yie;d		9	3.2%
High yield		5	1.8%
Less diseases,productic low		1	0.4%
Less pods		5	1.8%
Less production		7	2.5%
Less yield		14	5.0%
Local market seeds		2	0.7%
Low pods maturity		1	0.4%
Low production		2	0.7%
Low yield		1	0.4%
Mixed climbers		4	1.4%
Mixed plants farm		1	0.4%
Mixed seeds		2	0.7%
More,less diseases		1	0.4%
No climbing varities		22	7.8%
No diseases		19	6.8%
No mixed climbers		6	2.1%
No spacing		1	0.4%

File : Field day 1 farmer rating

X6_3: Third criteria for ranking

Value	Label	Cases	Percentage
Pods maturity fast		2	0.7%
Poor pods set		1	0.4%
Poor set of pods		1	0.4%
Poor stand		3	1.1%
Post harvest beneficial		1	0.4%
Production		3	1.1%
Production lower		1	0.4%
Resistant to pest		51	18.1%
Slow maturity		2	0.7%
Small pods than others		1	0.4%
Tolerant to environment		1	0.4%
Tolerant to moisture atress		1	0.4%
Uniform growth		5	1.8%
Vigorous		28	10.0%
Well established		1	0.4%
Yield		1	0.4%
less yield		1	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.

X7_1: Plot that best meets criteria 1

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
A		169	59.9%
B		85	30.1%
C		14	5.0%
D		14	5.0%

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.

X7_2: Plot that best meets criteria 2

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
A		96	34.0%
B		118	41.8%
C		46	16.3%
D		22	7.8%

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.

X7_3: Plot that best meets criteria 3

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

File : Field day 1 farmer rating

X7_3: Plot that best meets criteria 3

Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
A		76	27.0%
B		80	28.4%
C		66	23.4%
D		60	21.3%

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.

X71_plot: Plot ID that best meets criteria 1

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Plot A (certified 1)	169	59.9%
2	Plot B (certified 2)	85	30.1%
3	Plot C (farmer saved)	14	5.0%
4	Plot D (QDS)	14	5.0%

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.

X72_plot: Plot ID that best meets criteria 2

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Plot A (certified 1)	96	34.0%
2	Plot B (certified 2)	118	41.8%
3	Plot C (farmer saved)	46	16.3%
4	Plot D (QDS)	22	7.8%

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.

X73_plot: Plot ID that best meets criteria 3

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Plot A (certified 1)	76	27.0%
2	Plot B (certified 2)	80	28.4%
3	Plot C (farmer saved)	66	23.4%
4	Plot D (QDS)	60	21.3%

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.

X8: overall best plot

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=282 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Plot A (certified 1)	167	59.2%
2	Plot B (certified 2)	75	26.6%
3	Plot C (farmer saved)	18	6.4%

File : Field day 1 farmer rating

X8: overall best plot

Value	Label	Cases	Percentage
4	Plot D (QDS)	22	7.8%

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.

File : Farmer level data - BDM, field day 2 and survey

fid: farmer id (for merging)

Information	[Type= continuous] [Format=numeric] [Range= 11002-96021] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=60899.939 /-] [StdDev=36079.105 /-]

FE_id: FE_id

Information	[Type= continuous] [Format=numeric] [Range= 11-96] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=60.879 /-] [StdDev=36.082 /-]

bidA: farmer bid for seed type A (TZ shillings)

Information	[Type= continuous] [Format=numeric] [Range= 100-4000] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=2092.51 /-] [StdDev=1165.682 /-]

bidB: farmer bid for seed type B (TZ shillings)

Information	[Type= continuous] [Format=numeric] [Range= 200-4000] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=1803.846 /-] [StdDev=1149.494 /-]

bidC: farmer bid for seed type C (TZ shillings)

Information	[Type= continuous] [Format=numeric] [Range= 200-4000] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=1605.061 /-] [StdDev=987.547 /-]

bidD: farmer bid for seed type D (TZ shillings)

Information	[Type= continuous] [Format=numeric] [Range= 100-4000] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=1594.534 /-] [StdDev=1087.335 /-]

seedtypeA: seed type A selected (1=yes 0=no)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		102	41.3%
1		145	58.7%

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.

seedtypeB: seed type A selected (1=yes 0=no)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		202	81.8%
1		45	18.2%

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.

seedtypeC: seed type C selected (1=yes 0=no)

Information	[Type= discrete] [Format=numeric] [Range= 0-0] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		247	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.

seedtypeD: seed type D selected (1=yes 0=no)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]

File : Farmer level data - BDM, field day 2 and survey

seedtypeD: seed type D selected (1=yes 0=no)

Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		190	76.9%
1		57	23.1%

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.

random_pr: Random price

Information	[Type= continuous] [Format=numeric] [Range= 150-3500] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=1890.283 /-] [StdDev=1001.75 /-]

purchase: purchased seed (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		108	43.7%
1		139	56.3%

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.

Purchase_N: purchased seed--no (1=no)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		139	56.3%
1		108	43.7%

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.

tot_cash: Total cash (owed) given to farmer

Information	[Type= continuous] [Format=numeric] [Range= 950-4000] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=3206.275 /-] [StdDev=996.779 /-]

Z0: Completed Field Day 1 evaluation sheet?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Yes	245	100.0%
2	No	0	
Sysmiss		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.

Z1: Consented?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Yes	245	100.0%
2	No	0	
Sysmiss		2	

File : Farmer level data - BDM, field day 2 and survey

Z1: Consented?

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.

Z2: Main decision maker?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Yes	197	80.4%
2	No	48	19.6%
Sysmiss		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.

Z6: Gender

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Male	147	60.0%
2	Female	98	40.0%
Sysmiss		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.

Z7: Age

Information	[Type= continuous] [Format=numeric] [Range= 18-84] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-] [Mean=41.992 /-] [StdDev=13.743 /-]

Z8: Total number of HH members participating in Field Day 2

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1		236	96.3%
2		8	3.3%
3		1	0.4%
Sysmiss		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.

Z9: Best ploted Rated (A-D)

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
A		179	73.1%
B		38	15.5%
C		9	3.7%
D		19	7.8%

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.

Z9_plot: Best plot code

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

File : Farmer level data - BDM, field day 2 and survey

Z9_plot: Best plot code

Value	Label	Cases	Percentage
1	Certified 1	179	73.1%
2	Certified 2	38	15.5%
3	Recycled seed	9	3.7%
4	QDS	19	7.8%
Sysmiss		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.

Z10: Main reason for rating best plot

Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Plants look healthy	63	25.7%
2	Pods have filled nicely	85	34.7%
3	Good yield	87	35.5%
4	Good seed quality	10	4.1%
5	Other (specify)	0	
Sysmiss		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.

Z10_other: Z10_other

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

Value	Label	Cases	Percentage
Free from pests		1	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.

Z11: Worst plot rated (A-D)

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
A		11	4.5%
B		85	34.7%
C		67	27.3%
D		82	33.5%

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.

Z11_plot: Worst plot code

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Certified 1	11	4.5%
2	Certified 2	85	34.7%
3	Recycled seed	67	27.3%
4	QDS	82	33.5%

File : Farmer level data - BDM, field day 2 and survey

Z11_plot: Worst plot code

Value	Label	Cases	Percentage
Sysmiss		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.

Z12: Main reason for rating worst plot

Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Plants look unhealthy	110	44.9%
2	Pods have not filled nicely	48	19.6%
3	Lower yield	64	26.1%
4	Poor seed quality	18	7.3%
5	Other (specify)	5	2.0%
Sysmiss		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.

Z12_other: Z12_other

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

Value	Label	Cases	Percentage
Pests		1	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.

A1: Years of education completed

Information	[Type= discrete] [Format=numeric] [Range= 0-15] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
0		8	3.3%
2		3	1.2%
3		5	2.0%
4		11	4.5%
5		2	0.8%
6		4	1.6%
7		171	70.1%
8		3	1.2%
9		3	1.2%
10		1	0.4%
11		22	9.0%
12		6	2.5%
13		4	1.6%
15		1	0.4%
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.

A2: Can read and write

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]

File : Farmer level data - BDM, field day 2 and survey

A2: Can read and write

Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	No	13	5.3%
2	Yes, but not in Kiswahili nor English	4	1.6%
3	Yes, but not in Kiswahili	204	83.6%
4	Yes, in English (regardless of others)	23	9.4%
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.

A3a: Total HH members

Information	[Type= discrete] [Format=numeric] [Range= 1-11] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1		9	3.7%
2		8	3.3%
3		29	11.8%
4		32	13.1%
5		39	15.9%
6		41	16.7%
7		38	15.5%
8		24	9.8%
9		14	5.7%
10		8	3.3%
11		3	1.2%
Sysmiss		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.

A3b: Number of male members

Information	[Type= discrete] [Format=numeric] [Range= 1-8] [Missing=*]
Statistics [NW/ W]	[Valid=241 /-] [Invalid=6 /-]

Value	Label	Cases	Percentage
1		41	17.0%
2		67	27.8%
3		55	22.8%
4		33	13.7%
5		32	13.3%
6		8	3.3%
7		2	0.8%
8		3	1.2%
Sysmiss		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.

A3c: Number of female members

Information	[Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]
Statistics [NW/ W]	[Valid=234 /-] [Invalid=13 /-]

File : Farmer level data - BDM, field day 2 and survey

A3c: Number of female members

Value	Label	Cases	Percentage
1		40	17.1%
2		66	28.2%
3		64	27.4%
4		36	15.4%
5		22	9.4%
6		5	2.1%
7		1	0.4%
Sysmiss		13	

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.

A4a: No. of HH members < 6

Information	[Type= discrete] [Format=numeric] [Range= 0-4] [Missing=*]
Statistics [NW/ W]	[Valid=136 /-] [Invalid=111 /-]

Value	Label	Cases	Percentage
0		1	0.7%
1		78	57.4%
2		41	30.1%
3		14	10.3%
4		2	1.5%
Sysmiss		111	

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.

A4b: No. of HH members 6-17

Information	[Type= discrete] [Format=numeric] [Range= 0-6] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		78	31.6%
1		53	21.5%
2		49	19.8%
3		40	16.2%
4		19	7.7%
5		7	2.8%
6		1	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.

A4c: No. of HH members 18-65

Information	[Type= discrete] [Format=numeric] [Range= 0-10] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		5	2.0%
1		20	8.1%
2		98	39.7%
3		46	18.6%
4		28	11.3%

File : Farmer level data - BDM, field day 2 and survey

A4c: No. of HH members 18-65

Value	Label	Cases	Percentage
5		28	11.3%
6		10	4.0%
7		8	3.2%
8		1	0.4%
9		2	0.8%
10		1	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.

A4d: No. of HH members >65

Information	[Type= discrete] [Format=numeric] [Range= 0-2] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		222	89.9%
1		20	8.1%
2		5	2.0%

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.

A5: Do all children 6-17 attend school

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=242 /-] [Invalid=5 /-]

Value	Label	Cases	Percentage
1	Yes	162	66.9%
2	No	4	1.7%
3	No children 6-17 years	76	31.4%
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.

A6: Relationship to the head of HH

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	HH head	151	61.6%
2	Spouse	73	29.8%
3	Son/daughter	21	8.6%
4	Other	0	
Sysmiss		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.

A6_other: A6_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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 : Farmer level data - BDM, field day 2 and survey

A7: Gender of the head of HH

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=172 /-] [Invalid=75 /-]

Value	Label	Cases	Percentage
1	Male	153	89.0%
2	Female	19	11.0%
Sysmiss		75	

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.

A8: Marital status

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=215 /-] [Invalid=32 /-]

Value	Label	Cases	Percentage
1		182	84.7%
2		24	11.2%
3		9	4.2%
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.

A9: Can the female head or spouse of the male head read write ...

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=220 /-] [Invalid=27 /-]

Value	Label	Cases	Percentage
1	No	15	6.8%
2	Yes, but not in Kiswahili nor English	0	
3	Yes, but not in Kiswahili	195	88.6%
4	Yes, in English (regardless of others)	10	4.5%
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.

A10: Years living in this village

Information	[Type= continuous] [Format=numeric] [Range= 1-79] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-] [Mean=29.249 /-] [StdDev=15.706 /-]

A11: Years planiting beans

Information	[Type= continuous] [Format=numeric] [Range= 1-57] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-] [Mean=15.635 /-] [StdDev=12.114 /-]

A12: Do you regularly purchase or have you ever purchased bean seed

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	Yes, regularly purchase	127	52.0%
2	Yes, purchase occasionally	83	34.0%
3	No, never purchase 'seed'	34	13.9%
77	Don't know what seed is	0	
Sysmiss		3	

File : Farmer level data - BDM, field day 2 and survey

A12: Do you regularly purchase or have you ever purchased bean seed

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.

A13: Highest price per kg you have ever paid for bean seed

Information	[Type= continuous] [Format=numeric] [Range= 500-3000] [Missing=*]
Statistics [NW/ W]	[Valid=210 /-] [Invalid=37 /-] [Mean=1882.024 /-] [StdDev=512.751 /-]

A14: Last time you purchased bean seed

Information	[Type= discrete] [Format=numeric] [Range= 1999-2016] [Missing=*]
Statistics [NW/ W]	[Valid=210 /-] [Invalid=37 /-]

Value	Label	Cases	Percentage
1999		1	0.5%
2001		1	0.5%
2004		1	0.5%
2009		2	1.0%
2010		1	0.5%
2012		2	1.0%
2013		9	4.3%
2014		21	10.0%
2015		164	78.1%
2016		8	3.8%
Sysmiss		37	

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.

A15: Price per kg paid for seed last time

Information	[Type= continuous] [Format=numeric] [Range= 500-3000] [Missing=*]
Statistics [NW/ W]	[Valid=210 /-] [Invalid=37 /-] [Mean=1761.214 /-] [StdDev=523.568 /-]

A15b: Quantity of seed purchased (kg)

Information	[Type= continuous] [Format=numeric] [Range= 5-320] [Missing=*]
Statistics [NW/ W]	[Valid=211 /-] [Invalid=36 /-] [Mean=54.787 /-] [StdDev=51.16 /-]

A16a: Source of last purchased seed

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=211 /-] [Invalid=36 /-]

Value	Label	Cases	Percentage
1	farmer from local community	63	29.9%
2	farmer organization	1	0.5%
3	seed vendor in the market	147	69.7%
4	Input dealer	0	
5	Seed company	0	
6	Other	0	
Sysmiss		36	

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.

A16a_other: A16a_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

A16b: Type of seed last purchased

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=211 /-] [Invalid=36 /-]

Value	Label	Cases	Percentage
1	certified	1	0.5%
2	non-certified but came in a package with labeling	1	0.5%
3	Came with no label	208	98.6%
77	don't know/remember	1	0.5%
Sysmiss		36	

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.

A17: Name of seed variety purchased

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=211 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Canada		1	0.5%
Jesca		49	23.2%
Lyamungo		1	0.5%
Soya Kijivu		3	1.4%
Yellow soybeans		157	74.4%

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.

A18: Total land area owned by HH

Information	[Type= continuous] [Format=numeric] [Range= 0.25-16] [Missing=*]
Statistics [NW/ W]	[Valid=236 /-] [Invalid=11 /-] [Mean=2.605 /-] [StdDev=2.296 /-]

A19: Unit for land area

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]

A19: Unit for land area

Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	acres	244	100.0%
2	hectares	0	
99	other	0	
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.

A19_other: A19_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

A20: total area cultivated last season

Information	[Type= continuous] [Format=numeric] [Range= 0.25-15] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-] [Mean=2.319 /-] [StdDev=1.939 /-]

A21: percentage of bean harvest sold

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=243 /-] [Invalid=4 /-]

Value	Label	Cases	Percentage
1	0	10	4.1%
2	< 25%	8	3.3%
3	25-50%	62	25.5%
4	50-75%	63	25.9%
5	75-99%	93	38.3%
6	100%	7	2.9%
Sysmiss		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.

A22: Percent of HH income from bean sales

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=243 /-] [Invalid=4 /-]

Value	Label	Cases	Percentage
1	0	8	3.3%
2	< 25%	20	8.2%
3	25-50%	91	37.4%
4	50-75%	76	31.3%
5	75-99%	45	18.5%
6	100%	3	1.2%
Sysmiss		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.

A23: last season beans were grown

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

A23: last season beans were grown

Value	Label	Cases	Percentage
1	Long 2015	67	27.3%
2	Short 2014	67	27.3%
3	Other (sp)	0	
99		111	45.3%
Sysmiss		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.

A23_other: Other speciify

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=111 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Irrigation		111	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.

A24: Number of field plots planted with beans in last season

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1		204	83.6%
2		26	10.7%
3		12	4.9%
4		2	0.8%
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.

A31_1st: Most imp crop -- total area planted

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	maize	136	55.7%
2	rice	3	1.2%
3	sorghum	0	
4	beans	78	32.0%
5	pigeon pea	6	2.5%
6	cowpea	0	
7	soybean	0	
8	groundnut	0	
9	potato	0	
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	16	6.6%
14	banana	0	
15	other fruit crops	1	0.4%
99	Other (sp)	4	1.6%
Sysmiss		3	

A31_1st: Most imp crop -- total area planted

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.

A31_2nd: second imp crop -- total area planted

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=239 /-] [Invalid=8 /-]

Value	Label	Cases	Percentage
1	maize	68	28.5%
2	rice	8	3.3%
3	sorghum	1	0.4%
4	beans	105	43.9%
5	pigeon pea	31	13.0%
6	cowpea	2	0.8%
7	soybean	0	
8	groundnut	0	
9	potato	2	0.8%
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	16	6.7%
14	banana	0	
15	other fruit crops	0	
99	Other (sp)	6	2.5%
Sysmiss		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.

A31_3rd: Third imp crop -- total area planted

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=198 /-] [Invalid=49 /-]

Value	Label	Cases	Percentage
1	maize	20	10.1%
2	rice	2	1.0%
3	sorghum	0	
4	beans	59	29.8%
5	pigeon pea	51	25.8%
6	cowpea	3	1.5%
7	soybean	0	
8	groundnut	0	
9	potato	1	0.5%
10	cassava	2	1.0%
11	sesame	0	
12	cotton	0	
13	vegetabels	44	22.2%
14	banana	0	
15	other fruit crops	1	0.5%
99	Other (sp)	15	7.6%
Sysmiss		49	

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.

A31_other: A31_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

A32_1st: Most imp crop -- purchased inputs

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	maize	82	33.6%
2	rice	8	3.3%
3	sorghum	1	0.4%
4	beans	68	27.9%
5	pigeon pea	8	3.3%
6	cowpea	0	
7	soybean	0	
8	groundnut	0	
9	potato	2	0.8%
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	65	26.6%
14	banana	0	
15	other fruit crops	1	0.4%
99	Other (sp)	9	3.7%
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.

A32_2nd: second imp crop -- purchased inputs

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=239 /-] [Invalid=8 /-]

Value	Label	Cases	Percentage
1	maize	99	41.4%
2	rice	3	1.3%
3	sorghum	0	
4	beans	102	42.7%
5	pigeon pea	24	10.0%
6	cowpea	1	0.4%
7	soybean	0	
8	groundnut	0	
9	potato	1	0.4%
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	2	0.8%

A32_2nd: second imp crop -- purchased inputs

Value	Label	Cases	Percentage
14	banana	0	
15	other fruit crops	2	0.8%
99	Other (sp)	5	2.1%
Sysmiss		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.

A32_3rd: third imp crop -- purchased inputs

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=198 /-] [Invalid=49 /-]

Value	Label	Cases	Percentage
1	maize	44	22.2%
2	rice	0	
3	sorghum	0	
4	beans	72	36.4%
5	pigeon pea	56	28.3%
6	cowpea	4	2.0%
7	soybean	0	
8	groundnut	0	
9	potato	0	
10	cassava	2	1.0%
11	sesame	0	
12	cotton	0	
13	vegetabels	9	4.5%
14	banana	0	
15	other fruit crops	0	
99	Other (sp)	11	5.6%
Sysmiss		49	

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.

A32_other: A32_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

A33_1st: Most imp crop -- source of income

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	maize	33	13.5%
2	rice	6	2.5%
3	sorghum	1	0.4%
4	beans	109	44.7%
5	pigeon pea	40	16.4%
6	cowpea	0	

A33_1st: Most imp crop -- source of income

Value	Label	Cases	Percentage
7	soybean	0	
8	groundnut	0	
9	potato	2	0.8%
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	43	17.6%
14	banana	0	
15	other fruit crops	1	0.4%
99	Other (sp)	9	3.7%
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.

A33_2nd: second imp crop -- source of income

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=239 /-] [Invalid=8 /-]

Value	Label	Cases	Percentage
1	maize	71	29.7%
2	rice	4	1.7%
3	sorghum	0	
4	beans	97	40.6%
5	pigeon pea	28	11.7%
6	cowpea	4	1.7%
7	soybean	0	
8	groundnut	0	
9	potato	0	
10	cassava	1	0.4%
11	sesame	0	
12	cotton	0	
13	vegetabels	23	9.6%
14	banana	0	
15	other fruit crops	1	0.4%
99	Other (sp)	10	4.2%
Sysmiss		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.

A33_3rd: third imp crop -- source of income

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=198 /-] [Invalid=49 /-]

Value	Label	Cases	Percentage
1	maize	121	61.1%
2	rice	1	0.5%
3	sorghum	0	
4	beans	36	18.2%
5	pigeon pea	20	10.1%
6	cowpea	1	0.5%

A33_3rd: third imp crop -- source of income

Value	Label	Cases	Percentage
7	soybean	0	
8	groundnut	0	
9	potato	1	0.5%
10	cassava	1	0.5%
11	sesame	0	
12	cotton	0	
13	vegetabels	10	5.1%
14	banana	0	
15	other fruit crops	1	0.5%
99	Other (sp)	6	3.0%
Sysmiss		49	

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.

A33_other: A33_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

A34: number of bean varieties planted in last season

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1		205	84.0%
2		37	15.2%
3		2	0.8%
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.

A35a: Name of variety 1

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Canada		2	0.8%
Jesca		67	27.5%
Lyamungo		1	0.4%
Soya Kijivu		3	1.2%
Yellow soybeans		171	70.1%

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.

A35b: Source of variety 1

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	Saved from own harvest	35	14.3%

A35b: Source of variety 1

Value	Label	Cases	Percentage
2	purchased as grain	67	27.5%
3	purchased as seed	139	57.0%
4	Given by NGO/Govt. program	2	0.8%
5	Other (sp)	0	
99		1	0.4%
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.

A35b_specify: A35b_specify

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

Value	Label	Cases	Percentage
Given by freands		1	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.

A36a: Name of variety 2

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=40 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
Canada		1	2.5%
Jesca		18	45.0%
Soya Kijivu		4	10.0%
Soya kijivu		1	2.5%
yellow soybeans		16	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.

A36b: Source of variety 2

Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]
Statistics [NW/ W]	[Valid=40 /-] [Invalid=207 /-]

Value	Label	Cases	Percentage
1	Saved from own harvest	12	30.0%
2	purchased as grain	6	15.0%
3	purchased as seed	20	50.0%
4	Given by NGO/Govt. program	2	5.0%
5	Other (sp)	0	
Sysmiss		207	

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.

A37a: Name of variety 3

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

A37b: Source of variety 3

Information	[Type= discrete] [Format=numeric] [Range= 3-3] [Missing=*]

A37b: Source of variety 3

Statistics [NW/ W]	[Valid=2 /-] [Invalid=245 /-]

Value	Label	Cases	Percentage
3		2	100.0%
Sysmiss		245	

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.

A38a: Do you have easy access to certified seed of any crops

Information	[Type= discrete] [Format=numeric] [Range= 1-88] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	Yes	158	64.8%
2	No	83	34.0%
88	Don't know what is < > seed	3	1.2%
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.

A39a: Ever used certified seed of any crop

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=241 /-] [Invalid=6 /-]

Value	Label	Cases	Percentage
1	Yes	186	77.2%
2	No	55	22.8%
Sysmiss		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.

A40a_crop1: used certified seed for Crop 1

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=186 /-] [Invalid=61 /-]

Value	Label	Cases	Percentage
1	maize	171	91.9%
2	rice	3	1.6%
3	sorghum	0	
4	beans	0	
5	pigeon pea	0	
6	cowpea	0	
7	soybean	0	
8	groundnut	0	
9	potato	1	0.5%
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	10	5.4%
14	banana	0	
15	other fruit crops	1	0.5%
99	Other (sp)	0	
Sysmiss		61	

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.

A40a_crop2: used certified seed for crop 2

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=184 /-] [Invalid=63 /-]

Value	Label	Cases	Percentage
1	maize	6	3.3%
2	rice	0	
3	sorghum	0	
4	beans	1	0.5%
5	pigeon pea	2	1.1%
6	cowpea	0	
7	soybean	0	
8	groundnut	0	
9	potato	0	
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	14	7.6%
14	banana	0	
15	other fruit crops	0	
88		161	87.5%
99	Other (sp)	0	
Sysmiss		63	

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.

A40a_crop3: used certified seed for crop 3

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=182 /-] [Invalid=65 /-]

Value	Label	Cases	Percentage
1	maize	0	
2	rice	0	
3	sorghum	0	
4	beans	0	
5	pigeon pea	0	
6	cowpea	0	
7	soybean	0	
8	groundnut	0	
9	potato	0	
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	0	
14	banana	0	
15	other fruit crops	1	0.5%
88		181	99.5%
99	Other (sp)	0	
Sysmiss		65	

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.

A41a_1: Most important advantage of certified seed

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=186 /-] [Invalid=61 /-]

Value	Label	Cases	Percentage
1	high germination rate	9	4.8%
2	less disease/pests	27	14.5%
3	uniformity in plant growth	1	0.5%
4	high quality grain at harvest	30	16.1%
5	high yield	119	64.0%
88	have not used this type of seed, no more, don't know	0	
99	other	0	
Sysmiss		61	

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.

A41a_2: second important advantage of certified seed

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=186 /-] [Invalid=61 /-]

Value	Label	Cases	Percentage
1	high germination rate	16	8.6%
2	less disease/pests	70	37.6%
3	uniformity in plant growth	2	1.1%
4	high quality grain at harvest	49	26.3%
5	high yield	42	22.6%
8		1	0.5%
88	have not used this type of seed, no more, don't know	6	3.2%
99	other	0	
Sysmiss		61	

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.

A38b: Do you have easy access to QDS

Information	[Type= discrete] [Format=numeric] [Range= 1-88] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	Yes	4	1.6%
2	No	180	73.8%
88	Don't know what is < > seed	60	24.6%
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.

A39b: Ever used QDS of any crop

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=185 /-] [Invalid=62 /-]

Value	Label	Cases	Percentage
1	Yes	3	1.6%
2	No	182	98.4%
Sysmiss		62	

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.

A40b_crop1: Used QDS for crop 1

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=8 /-] [Invalid=239 /-]

Value	Label	Cases	Percentage
1	maize	1	12.5%
2	rice	2	25.0%
3	sorghum	0	
4	beans	0	
5	pigeon pea	0	
6	cowpea	0	
7	soybean	0	
8	groundnut	0	
9	potato	0	
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	0	
14	banana	0	
15	other fruit crops	0	
88		5	62.5%
99	Other (sp)	0	
Sysmiss		239	

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.

A40b_crop2: used QDS for crop 2

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=8 /-] [Invalid=239 /-]

Value	Label	Cases	Percentage
1	maize	0	
2	rice	0	
3	sorghum	0	
4	beans	0	
5	pigeon pea	0	
6	cowpea	0	
7	soybean	0	
8	groundnut	0	
9	potato	0	
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	0	
14	banana	0	
15	other fruit crops	0	
88		8	100.0%
99	Other (sp)	0	
Sysmiss		239	

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.

A40b_crop3: used QDS for crop 3

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=8 /-] [Invalid=239 /-]

Value	Label	Cases	Percentage
1	maize	0	
2	rice	0	
3	sorghum	0	
4	beans	0	
5	pigeon pea	0	
6	cowpea	0	
7	soybean	0	
8	groundnut	0	
9	potato	0	
10	cassava	0	
11	sesame	0	
12	cotton	0	
13	vegetabels	0	
14	banana	0	
15	other fruit crops	0	
88		8	100.0%
99	Other (sp)	0	
Sysmiss		239	

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.

A41b_1: Most important advantage of QDS

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=8 /-] [Invalid=239 /-]

Value	Label	Cases	Percentage
1	high germination rate	0	
2	less disease/pests	1	12.5%
3	uniformity in plant growth	0	
4	high quality grain at harvest	1	12.5%
5	high yield	1	12.5%
88	have not used this type of seed, no more, don't know	5	62.5%
99	other	0	
Sysmiss		239	

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.

A41b_2: Second important advantage of QDS

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=8 /-] [Invalid=239 /-]

Value	Label	Cases	Percentage
1	high germination rate	0	
2	less disease/pests	0	
3	uniformity in plant growth	0	
4	high quality grain at harvest	1	12.5%
5	high yield	2	25.0%

A41b_2: Second important advantage of QDS

Value	Label	Cases	Percentage
88	have not used this type of seed, no more, don't know	5	62.5%
99	other	0	
Sysmiss		239	

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.

B1_0: respondent never left this village

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=5 /-] [Invalid=242 /-]

Value	Label	Cases	Percentage
1	Yes	5	100.0%
2	No	0	
Sysmiss		242	

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.

B1_1: Respondent has traveled to a village/town in this district

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=34 /-] [Invalid=213 /-]

Value	Label	Cases	Percentage
1	Yes	34	100.0%
2	No	0	
Sysmiss		213	

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.

B1_2: Respondent has traveled to a village/town in Tanzania

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=191 /-] [Invalid=56 /-]

Value	Label	Cases	Percentage
1	Yes	191	100.0%
2	No	0	
Sysmiss		56	

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.

B1_3: Respondent has traveled to another country in Africa

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=13 /-] [Invalid=234 /-]

Value	Label	Cases	Percentage
1		13	100.0%
Sysmiss		234	

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.

B1_4: Respondent has traveled to middle east in Africa

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
1	Yes	0	
2	No	0	
Sysmiss		247	

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.

B1_5: Respondent has traveled to US/Europe/Australia

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
1	Yes	0	
2	No	0	
Sysmiss		247	

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.

B1_99: respondent has traveled to other places (sp)

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

B1_other: B1_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

B2: Last time HH adopted a NEW input or technology on farm

Information	[Type= continuous] [Format=numeric] [Range= 1987-2016] [Missing=*]
Statistics [NW/ W]	[Valid=242 /-] [Invalid=5 /-] [Mean=2013.264 /-] [StdDev=3.819 /-]

B3_1: most recently adopted technology -- seed/variety

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=183 /-] [Invalid=64 /-]

B3_1: most recently adopted technology -- seed/variety

Value	Label	Cases	Percentage
1		183	100.0%
Sysmiss		64	

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.

B3_2: most recently adopted technology --agro-chemicals

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=112 /-] [Invalid=135 /-]

Value	Label	Cases	Percentage
1		112	100.0%
Sysmiss		135	

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.

B3_3: most recently adopted technology -- new animal breed

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=8 /-] [Invalid=239 /-]

Value	Label	Cases	Percentage
1		8	100.0%
Sysmiss		239	

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.

B3_4: most recently adopted technology -- agronomic practices

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=97 /-] [Invalid=150 /-]

Value	Label	Cases	Percentage
1		97	100.0%
Sysmiss		150	

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.

B3_5: most recently adopted technology -- soil/water conservation

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=4 /-] [Invalid=243 /-]

Value	Label	Cases	Percentage
1		4	100.0%
Sysmiss		243	

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.

B3_6: most recently adopted technology --conservation agriculture

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=23 /-] [Invalid=224 /-]

Value	Label	Cases	Percentage
1		23	100.0%
Sysmiss		224	

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.

B3_7: most recently adopted technology -- machinery/tool

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=27 /-] [Invalid=220 /-]

B3_7: most recently adopted technology -- machinery/tool

Value	Label	Cases	Percentage
1		27	100.0%
Sysmiss		220	

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.

B3_8: most recently adopted technology -- storage method

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=8 /-] [Invalid=239 /-]

Value	Label	Cases	Percentage
1		8	100.0%
Sysmiss		239	

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.

B3_9: most recently adopted technology -- monocropping

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=10 /-] [Invalid=237 /-]

Value	Label	Cases	Percentage
1		10	100.0%
Sysmiss		237	

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.

B3_10: most recently adopted technology -- drying / processing

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

B3_99: most recently adopted technology -- other (sp)

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

B4: ever used hybrid seed of any crop

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	Yes	63	25.8%
2	No	181	74.2%
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.

B5: ever stopped using a bean variety you like because not available

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

B5: ever stopped using a bean variety you like because not available

Value	Label	Cases	Percentage
1	Yes	54	22.1%
2	No	190	77.9%
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.

B6a: Main constraints in bean farming

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	land	7	2.9%
2	labor	4	1.6%
3	cash constraint	41	16.8%
4	seeds not available	8	3.3%
5	insect/disease problem	155	63.5%
6	cannot sell the crop	2	0.8%
7	price too low	12	4.9%
8	no information or technical advice	5	2.0%
99	other (sp)	10	4.1%
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.

B6b: seond constraint in bean farming

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=238 /-] [Invalid=9 /-]

Value	Label	Cases	Percentage
1	land	19	8.0%
2	labor	6	2.5%
3	cash constraint	47	19.7%
4	seeds not available	26	10.9%
5	insect/disease problem	42	17.6%
6	cannot sell the crop	2	0.8%
7	price too low	42	17.6%
8	no information or technical advice	26	10.9%
99	other (sp)	28	11.8%
Sysmiss		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.

B6_other: B6_other

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=38 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
climate		34	89.5%
lack of certified bean seed		1	2.6%
water		1	2.6%
weather		1	2.6%

B6_other: B6_other

Value	Label	Cases	Percentage
weeds		1	2.6%

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.

B7: current bean price if sold (TZS/kg)

Information	[Type= continuous] [Format=numeric] [Range= 500-3000] [Missing=*]
Statistics [NW/ W]	[Valid=237 /-] [Invalid=10 /-] [Mean=1450.169 /-] [StdDev=522.515 /-]

B8: current bean price if you purchased it (TZS/kg)

Information	[Type= continuous] [Format=numeric] [Range= 500-3000] [Missing=*]
Statistics [NW/ W]	[Valid=230 /-] [Invalid=17 /-] [Mean=1566.739 /-] [StdDev=447.741 /-]

B9: how often aquire fresh seed of beans from outside farm for planting

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
Statistics [NW/ W]	[Valid=231 /-] [Invalid=16 /-]

Value	Label	Cases	Percentage
1	every year	128	55.4%
2	every other year	37	16.0%
3	every 3-5 years	25	10.8%
4	5-10 years	2	0.9%
5	more than 10 years	3	1.3%
6	never	36	15.6%
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.

B10: Main reason you DON't replace bean seed more often

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=104 /-] [Invalid=143 /-]

Value	Label	Cases	Percentage
1	I can maintain good quality seed myself	66	63.5%
2	don't see any advantage/benefit in getting seed from outside	8	7.7%
3	too expensive	23	22.1%
4	don't trust the seed from outside	2	1.9%
5	seed variety I like not available	4	3.8%
6	seed comes in a large packet than I need	1	1.0%
99	other (sp)	0	
Sysmiss		143	

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.

B10_other: Other specify

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

B11: Main reason for replacing bean seed instead of using own saved seed

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]

B11: Main reason for replacing bean seed instead of using own saved seed

Statistics [NW/ W]	[Valid=205 /-] [Invalid=42 /-]

Value	Label	Cases	Percentage
1	I don't have any seed left	119	58.0%
2	to try new variety	37	18.0%
3	to get disease free planting materia	17	8.3%
4	don't have seed storage facility	31	15.1%
5	when given by a govt or NGO program	0	
99	other (sp)	1	0.5%
Sysmiss		42	

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.

B11_other: B11_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=247 /-]

Value	Label	Cases	Percentage
Sysmiss		247	

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.

C1: do you belong to a farmer group/organization

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Yes	82	33.5%
2	No	163	66.5%
Sysmiss		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.

C2: level of involvement in farmer group

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=82 /-] [Invalid=165 /-]

Value	Label	Cases	Percentage
1	very active	74	90.2%
2	somewhat active	7	8.5%
3	not active	1	1.2%
Sysmiss		165	

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.

C3: are you a leader of any group

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=81 /-] [Invalid=166 /-]

Value	Label	Cases	Percentage
1	Yes	18	22.2%
2	No	63	77.8%
Sysmiss		166	

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.

C4_a: number owned - two wheeled transport

Information	[Type= discrete] [Format=numeric] [Range= 0-7] [Missing=*]

C4_a: number owned - two wheeled transport

Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		129	52.2%
1		94	38.1%
2		17	6.9%
3		4	1.6%
4		1	0.4%
5		1	0.4%
7		1	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.

C4_b: number owned - four wheeled transport

Information	[Type= discrete] [Format=numeric] [Range= 0-2] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		245	99.2%
1		1	0.4%
2		1	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.

C4ab: number of 2 and 4 wheeled vehicles owned

Information	[Type= discrete] [Format=numeric] [Range= 0-7] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		129	52.2%
1		93	37.7%
2		18	7.3%
3		4	1.6%
5		1	0.4%
6		1	0.4%
7		1	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.

C4_c: Number owned -- radio or radio-cassette

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
Statistics [NW/ W]	[Valid=198 /-] [Invalid=49 /-]

Value	Label	Cases	Percentage
0		13	6.6%
1		167	84.3%
2		15	7.6%
3		3	1.5%
Sysmiss		49	

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.

C4_d: number owned -- lanterns (any type)

Information	[Type= discrete] [Format=numeric] [Range= 0-12] [Missing=*]
Statistics [NW/ W]	[Valid=236 /-] [Invalid=11 /-]

C4_d: number owned -- lanterns (any type)

Value	Label	Cases	Percentage
0		5	2.1%
1		104	44.1%
2		73	30.9%
3		25	10.6%
4		10	4.2%
5		5	2.1%
6		6	2.5%
7		3	1.3%
8		2	0.8%
9		1	0.4%
11		1	0.4%
12		1	0.4%
Sysmiss		11	

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.

C4_e: number owned -- irons (charcoal or electric)

Information	[Type= discrete] [Format=numeric] [Range= 0-2] [Missing=*]
Statistics [NW/ W]	[Valid=189 /-] [Invalid=58 /-]

Value	Label	Cases	Percentage
0		36	19.0%
1		150	79.4%
2		3	1.6%
Sysmiss		58	

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.

C4_f: number owned -- tables

Information	[Type= discrete] [Format=numeric] [Range= 0-7] [Missing=*]
Statistics [NW/ W]	[Valid=226 /-] [Invalid=21 /-]

Value	Label	Cases	Percentage
0		2	0.9%
1		112	49.6%
2		71	31.4%
3		28	12.4%
4		10	4.4%
5		1	0.4%
6		1	0.4%
7		1	0.4%
Sysmiss		21	

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.

C4_g: number owned -- plows

Information	[Type= discrete] [Format=numeric] [Range= 0-2] [Missing=*]
Statistics [NW/ W]	[Valid=158 /-] [Invalid=89 /-]

Value	Label	Cases	Percentage
0		98	62.0%
1		54	34.2%

C4_g: number owned -- plows

Value	Label	Cases	Percentage
2		6	3.8%
Sysmiss		89	

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.

C4_h: number owned -- backpack sprayers

Information	[Type= discrete] [Format=numeric] [Range= 0-4] [Missing=*]
Statistics [NW/ W]	[Valid=167 /-] [Invalid=80 /-]

Value	Label	Cases	Percentage
0		41	24.6%
1		105	62.9%
2		18	10.8%
3		2	1.2%
4		1	0.6%
Sysmiss		80	

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.

C4_i: number owned -- cellphone

Information	[Type= discrete] [Format=numeric] [Range= 0-7] [Missing=*]
Statistics [NW/ W]	[Valid=220 /-] [Invalid=27 /-]

Value	Label	Cases	Percentage
0		9	4.1%
1		125	56.8%
2		62	28.2%
3		15	6.8%
4		6	2.7%
5		1	0.5%
6		1	0.5%
7		1	0.5%
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.

C5_a: number owned -- horses/mules

Information	[Type= discrete] [Format=numeric] [Range= 0-5] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		200	81.0%
1		31	12.6%
2		12	4.9%
3		2	0.8%
4		1	0.4%
5		1	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.

C5_b: number owned -- cattle/cow/oxen

Information	[Type= continuous] [Format=numeric] [Range= 0-38] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=2.146 /-] [StdDev=3.807 /-]

C5_c: number owned -- goats/sheep

Information	[Type= continuous] [Format=numeric] [Range= 0-42] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=3.814 /-] [StdDev=5.758 /-]

C5_d: number owned -- chicken

Information	[Type= continuous] [Format=numeric] [Range= 0-100] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=10.543 /-] [StdDev=13.704 /-]

C6: main material of FLOOR

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Earth	157	64.1%
2	Concrete, cement, tiles, timber, others	88	35.9%
Sysmiss		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.

C7: main material of ROOF

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	mud and grass	33	13.5%
2	grass, leaves, bamboo	14	5.7%
3	concrete, cement, metal sheets, other	198	80.8%
Sysmiss		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.

C8: technology adoption behaviour best describes you

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	I am one of the first ones to adopt NEW technologies	189	77.5%
2	I wait until a few farmers have used those practices, then I make the decision	43	17.6%
3	I wait until most farmers are already using the practices and I am 100% sure the technology works	12	4.9%
4	I rarely change my practices as I am not comfortable doing new things	0	
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.

bean_gr_price: mean bean grain purchase price reported by farmers in the FE site (Tsh/kg)

Information	[Type= continuous] [Format=numeric] [Range= 1218.42004394531-1875] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=1577.078 /-] [StdDev=185.786 /-]

# WTP_premA: WTP premium price for type A relative to bean grain price	
Information	[Type= continuous] [Format=numeric] [Range= -1540-2563.16015625] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=515.432 /-] [StdDev=1079.233 /-]
# WTP_premB: WTP premium price for type B relative to bean grain price	
Information	[Type= continuous] [Format=numeric] [Range= -1540-2563.16015625] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=226.768 /-] [StdDev=1049.087 /-]
# WTP_premC: WTP premium price for type C relative to bean grain price	
Information	[Type= continuous] [Format=numeric] [Range= -1540-2538.5] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=27.983 /-] [StdDev=900.096 /-]
# WTP_premD: WTP premium price for type D relative to bean grain price	
Information	[Type= continuous] [Format=numeric] [Range= -1645-2538.5] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=17.052 /-] [StdDev=986.697 /-]
# prempr_best_worst: WTP premium price for best plot relative to WTP price for worst plot	
Information	[Type= continuous] [Format=numeric] [Range= -0.714285731315613-39] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-] [Mean=0.872 /-] [StdDev=2.717 /-]
# prempr_best_worst1: prempr_best_worst without negatives	
Information	[Type= continuous] [Format=numeric] [Range= 0-39] [Missing=*]
Statistics [NW/ W]	[Valid=218 /-] [Invalid=29 /-] [Mean=1.023 /-] [StdDev=2.844 /-]
# p_WTP_premA: WTP premium as a percentage of bean grain price	
Information	[Type= continuous] [Format=numeric] [Range= -0.93261456489563-1.78388702869415] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=0.299 /-] [StdDev=0.665 /-]
# p_WTP_premB: WTP premium for seed type B as a percentage of bean grain price	
Information	[Type= continuous] [Format=numeric] [Range= -0.860335171222687-1.78388702869415] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=0.108 /-] [StdDev=0.652 /-]
# p_WTP_premC: WTP premium for seed type C as a percentage of bean grain price	
Information	[Type= continuous] [Format=numeric] [Range= -0.860335171222687-1.73691415786743] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=-0.00848 /-] [StdDev=0.559 /-]
# p_WTP_premD: WTP premium for seed type D as a percentage of bean grain price	
Information	[Type= continuous] [Format=numeric] [Range= -1-1.73691415786743] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=-0.0245 /-] [StdDev=0.61 /-]
# hhmem_mt17: number of HH members >17 years	
Information	[Type= discrete] [Format=numeric] [Range= 0-10] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		3	1.2%
1		14	5.7%
2		101	40.9%
3		44	17.8%
4		33	13.4%
5		28	11.3%
6		10	4.0%

hhmem_mt17: number of HH members >17 years

Value	Label	Cases	Percentage
7		8	3.2%
8		3	1.2%
9		2	0.8%
10		1	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.

ps1: poverty score for ind 1-hh members >17 yrs age

Information	[Type= continuous] [Format=numeric] [Range= 0-30] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=9.413 /-] [StdDev=7.419 /-]

ps2: children 6-17 attend school'

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		8	3.2%
3		239	96.8%

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.

ps3: female head/spouse read and write

Information	[Type= discrete] [Format=numeric] [Range= 0-13] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		42	17.0%
6		195	78.9%
13		10	4.0%

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.

ps4: material for floor

Information	[Type= discrete] [Format=numeric] [Range= 0-11] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
0		157	64.1%
11		88	35.9%
Sysmiss		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.

ps5: main material for the roof

Information	[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		35	14.2%
8		14	5.7%
9		198	80.2%

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.

ps6: number of 2 or 4 wheeled vehicles owned

Information	[Type= discrete] [Format=numeric] [Range= 0-11] [Missing=*]

ps6: number of 2 or 4 wheeled vehicles owned

Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		129	52.2%
3		93	37.7%
11		25	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.

ps7: number of radio/cassettes owned

Information	[Type= discrete] [Format=numeric] [Range= 0-6] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		62	25.1%
6		185	74.9%

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.

ps8: number of lanterns owned

Information	[Type= discrete] [Format=numeric] [Range= 0-6] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		16	6.5%
6		231	93.5%

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.

ps9: number of irons owned

Information	[Type= discrete] [Format=numeric] [Range= 0-5] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		94	38.1%
5		153	61.9%

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.

ps10: number of tables owned

Information	[Type= discrete] [Format=numeric] [Range= 0-6] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		2	0.8%
2		112	45.3%
4		71	28.7%
6		62	25.1%

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.

resp_age: Respondent age

Information	[Type= continuous] [Format=numeric] [Range= 18-84] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-] [Mean=41.992 /-] [StdDev=13.743 /-]

resp_gender: Respondent gender

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

resp_gender: Respondent gender

Value	Label	Cases	Percentage
1		147	60.0%
2		98	40.0%
Sysmiss		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.

resp_edu: respondent education (num of years)

Information	[Type= discrete] [Format=numeric] [Range= 0-15] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
0		8	3.3%
2		3	1.2%
3		5	2.0%
4		11	4.5%
5		2	0.8%
6		4	1.6%
7		171	70.1%
8		3	1.2%
9		3	1.2%
10		1	0.4%
11		22	9.0%
12		6	2.5%
13		4	1.6%
15		1	0.4%
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.

resp_lit: respondent can read and write

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1	No	13	5.3%
2	Yes, but not in Kiswahili nor English	4	1.6%
3	Yes, but not in Kiswahili	204	83.6%
4	Yes, in English (regardless of others)	23	9.4%
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.

travexposure: Travel exposure score

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	never left village	10	4.0%
1	traveled to other village in the district	33	13.4%
2	traveled to other cities/towns in Tanzania	191	77.3%
3	traveled to other countries in Africa	13	5.3%

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.

adoption_leader: first one to adopt a new technology (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		58	23.5%
1		189	76.5%

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.

group_member: farmer belongs to any group/org (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		165	66.8%
1		82	33.2%

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.

group_leader: farmer is a leader of any group/org (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		229	92.7%
1		18	7.3%

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.

adoptnewtech: Score for adoption of new technology

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	before 10 years	17	6.9%
1	in the last 5-10 years	12	4.9%
2	in the last 2-5 years	79	32.0%
3	in the last 2 years	139	56.3%

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.

hhh_gender: HH head gender (1=male)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
0		26	10.6%
1		219	89.4%
Sysmiss		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.

hhsize: HH size

Information	[Type= discrete] [Format=numeric] [Range= 1-11] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1		9	3.7%

hhsize: HH size

Value	Label	Cases	Percentage
2		8	3.3%
3		29	11.8%
4		32	13.1%
5		39	15.9%
6		41	16.7%
7		38	15.5%
8		24	9.8%
9		14	5.7%
10		8	3.3%
11		3	1.2%
Sysmiss		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.

area_own: total area owned (acres)

Information	[Type= continuous] [Format=numeric] [Range= 0.25-16] [Missing=*]
Statistics [NW/ W]	[Valid=236 /-] [Invalid=11 /-] [Mean=2.605 /-] [StdDev=2.296 /-]

TLU: Tropical livestock units owned

Information	[Type= continuous] [Format=numeric] [Range= 0-28.1200008392334] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-] [Mean=2.187 /-] [StdDev=3.141 /-]

povscore: poverty scorecard score

Information	[Type= continuous] [Format=numeric] [Range= 5-78] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-] [Mean=48.249 /-] [StdDev=13.189 /-]

cellphone_owned: number of cellphones owned

Information	[Type= discrete] [Format=numeric] [Range= 0-7] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		36	14.6%
1		125	50.6%
2		62	25.1%
3		15	6.1%
4		6	2.4%
5		1	0.4%
6		1	0.4%
7		1	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.

cellphone_pc: number of cell phones owned per person

Information	[Type= continuous] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-] [Mean=0.283 /-] [StdDev=0.238 /-]

beanmostimp_area: bean is the most important crop in terms of area (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

beanmostimp_area: bean is the most important crop in terms of area (1=yes)

Value	Label	Cases	Percentage
0		169	68.4%
1		78	31.6%

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.

beanmostimp_input: bean is the most important crop in terms of input use (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		179	72.5%
1		68	27.5%

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.

beanmostimp_income: bean is the most important crop in terms of income (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		138	55.9%
1		109	44.1%

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.

bean_sold: percentage of bean harvest sold

Information	[Type= continuous] [Format=numeric] [Range= 0-100] [Missing=*]
Statistics [NW/ W]	[Valid=243 /-] [Invalid=4 /-] [Mean=62.551 /-] [StdDev=26.173 /-]

bean_income: percentage of HH income from bean sales

Information	[Type= continuous] [Format=numeric] [Range= 0-100] [Missing=*]
Statistics [NW/ W]	[Valid=243 /-] [Invalid=4 /-] [Mean=52.058 /-] [StdDev=24.391 /-]

grewjesca: farmer planted Jesca variety in the last bean season

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		163	66.0%
1		84	34.0%

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.

usedcertseed: ever used certified seed of any crop (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		61	24.7%
1		186	75.3%

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.

pur_beanseed: Do you regularly purchase bean seed (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

pur_beanseed: Do you regularly purchase bean seed (1=yes)

Value	Label	Cases	Percentage
0		120	48.6%
1		127	51.4%

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.

nevpur_beanseed: Never purchase bean seed (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=244 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
0		210	86.1%
1		34	13.9%
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.

seed_pr_paid: price per kg paid for bean seed last time

Information	[Type= continuous] [Format=numeric] [Range= 500-3000] [Missing=*]
Statistics [NW/ W]	[Valid=210 /-] [Invalid=37 /-] [Mean=1761.214 /-] [StdDev=523.568 /-]

seed_qty_pur: KG bean seed purchased last time

Information	[Type= continuous] [Format=numeric] [Range= 5-320] [Missing=*]
Statistics [NW/ W]	[Valid=211 /-] [Invalid=36 /-] [Mean=54.787 /-] [StdDev=51.16 /-]

pur_seed_vendor: purchased last time bean seed from a vendor (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		64	25.9%
1		183	74.1%

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.

WTP_A_ltgp: WTP of bean seed less than grain price (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		150	60.7%
1		97	39.3%

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.

WTP_A_gtcp: WTP of bean seed less than 1.5 times grain price (1=yes)

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		155	62.8%
1		92	37.2%

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.

grew_jesca: HH grew Jesca variety last bean season

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	no	163	66.0%
1	yes	84	34.0%

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.

saved: bean seed source=saved grain

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	no	210	85.0%
1	yes	37	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.

pur_grain: bean seed source=purchased as grain

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	no	180	72.9%
1	yes	67	27.1%

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.

pur_seed: bean seed source=purchased as seed

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	no	102	41.3%
1	yes	145	58.7%

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.

govt: bean seed source=given by govt or NGOs

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	no	243	98.4%
1	yes	4	1.6%

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.

seed_source: number of bean seed sources

Information	[Type= discrete] [Format=numeric] [Range= 0-2] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		3	1.2%
1		235	95.1%
2		9	3.6%

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.

replace_seed: HH replaces bean seed every year or other year

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	no	82	33.2%
1	yes	165	66.8%

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.

last_seed_pur: farmer last purchased bean seed less than 4 years ago

Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]
Statistics [NW/ W]	[Valid=247 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0	no	45	18.2%
1	yes	202	81.8%

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.

X8_flowering: overall best plot at flowering

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=225 /-] [Invalid=22 /-]

Value	Label	Cases	Percentage
1	Plot A (certified 1)	144	64.0%
2	Plot B (certified 2)	46	20.4%
3	Plot C (farmer saved)	18	8.0%
4	Plot D (QDS)	17	7.6%
Sysmiss		22	

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.

prem_best_worst: best seed price / worst seed price

Information	[Type= continuous] [Format=numeric] [Range= 0.285714268684387-40] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-] [Mean=1.872 /-] [StdDev=2.717 /-]

pr_best: WTP for best rated plot (TSH/kg)

Information	[Type= continuous] [Format=numeric] [Range= 250-4000] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-] [Mean=2163.061 /-] [StdDev=1183.481 /-]

pr_worst: WTP for worst rated plot (TSH/kg)

Information	[Type= continuous] [Format=numeric] [Range= 100-4000] [Missing=*]
Statistics [NW/ W]	[Valid=245 /-] [Invalid=2 /-] [Mean=1533.469 /-] [StdDev=1031.672 /-]

# **prem_best_worst1: percent prem WTP for best seed/worst seed without zero and negative**	
Information	[Type= continuous] [Format=numeric] [Range= 1.02564108371735-40] [Missing=*]
Statistics [NW/ W]	[Valid=191 /-] [Invalid=56 /-] [Mean=2.167 /-] [StdDev=3.012 /-]

File : Field level data - Farmer survey

fid: farmer id (for merging)

Information	[Type= continuous] [Format=numeric] [Range= 11001-96021] [Missing=*]
Statistics [NW/ W]	[Valid=302 /-] [Invalid=0 /-] [Mean=61070.689 /-] [StdDev=36232.551 /-]

FE_id: Field Experiment site id

Information	[Type= continuous] [Format=numeric] [Range= 11-96] [Missing=*]
Statistics [NW/ W]	[Valid=302 /-] [Invalid=0 /-] [Mean=61.05 /-] [StdDev=36.234 /-]

field_id: field_id

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=301 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1		249	82.7%
2		36	12.0%
3		14	4.7%
4		2	0.7%
Sysmiss		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.

A25: Total area

Information	[Type= continuous] [Format=numeric] [Range= 0.25-11] [Missing=*]
Statistics [NW/ W]	[Valid=301 /-] [Invalid=1 /-] [Mean=1.269 /-] [StdDev=1.023 /-]

A26: units (1=acres)

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=301 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1		301	100.0%
Sysmiss		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.

A26_other: Other units (if specified)

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=302 /-]

Value	Label	Cases	Percentage
Sysmiss		302	

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.

A27: Beans intercropped (1=yes 2=no)

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=301 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1		43	14.3%
2		258	85.7%
Sysmiss		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 : Field level data - Farmer survey

A28: Proportion of field planted to beans

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=43 /-] [Invalid=259 /-]

Value	Label	Cases	Percentage
1		2	4.7%
2		24	55.8%
3		9	20.9%
4		8	18.6%
Sysmiss		259	

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.

A29: quantity harvested (kg)

Information	[Type= continuous] [Format=numeric] [Range= 15-6480] [Missing=*]
Statistics [NW/ W]	[Valid=277 /-] [Invalid=25 /-] [Mean=462.809 /-] [StdDev=539.591 /-]

A30: Units (2=kg)

Information	[Type= discrete] [Format=numeric] [Range= 2-2] [Missing=*]
Statistics [NW/ W]	[Valid=276 /-] [Invalid=26 /-]

Value	Label	Cases	Percentage
2		276	100.0%
Sysmiss		26	

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.

A30_other: Other units

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=302 /-]

Value	Label	Cases	Percentage
Sysmiss		302	

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.

conv_rate: proportion of area planted to beans based on A28

Information	[Type= continuous] [Format=numeric] [Range= 0.125-1] [Missing=*]
Statistics [NW/ W]	[Valid=302 /-] [Invalid=0 /-] [Mean=0.93 /-] [StdDev=0.19 /-]

bean_area: bean area (acres) after adjusting intercropping

Information	[Type= continuous] [Format=numeric] [Range= 0.09375-11] [Missing=*]
Statistics [NW/ W]	[Valid=301 /-] [Invalid=1 /-] [Mean=1.196 /-] [StdDev=1.047 /-]

File : FE_yield data

FE_id: FE_id

Information	[Type= continuous] [Format=numeric] [Range= 11-96] [Missing=*]
Statistics [NW/ W]	[Valid=88 /-] [Invalid=0 /-] [Mean=43.455 /-] [StdDev=31.64 /-]

Seed_plot: Seed_plot

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=88 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
A		22	25.0%
B		22	25.0%
C		22	25.0%
D		22	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.

Seedtype: Seedtype

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

Value	Label	Cases	Percentage
Certified 1		6	25.0%
Certified 2		6	25.0%
Farmer saved		6	25.0%
QDS		6	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.

Yield_kg: Yield_kg

Information	[Type= continuous] [Format=numeric] [Range= 0-39] [Missing=*]
Statistics [NW/ W]	[Valid=86 /-] [Invalid=2 /-] [Mean=14.308 /-] [StdDev=10.693 /-]

Area_sq_m: Area_sq_m

Information	[Type= continuous] [Format=numeric] [Range= 65-100] [Missing=*]
Statistics [NW/ W]	[Valid=88 /-] [Invalid=0 /-] [Mean=97.193 /-] [StdDev=8.245 /-]

Area_ha: Area_ha

Information	[Type= continuous] [Format=numeric] [Range= 0.0065-0.01] [Missing=*]
Statistics [NW/ W]	[Valid=88 /-] [Invalid=0 /-] [Mean=0.00972 /-] [StdDev=0.000824 /-]

yieldA: yieldA

Information	[Type= continuous] [Format=numeric] [Range= 2.5-36] [Missing=*]
Statistics [NW/ W]	[Valid=22 /-] [Invalid=66 /-] [Mean=14.58 /-] [StdDev=9.891 /-]

yieldB: yieldB

Information	[Type= continuous] [Format=numeric] [Range= 1.5-39] [Missing=*]
Statistics [NW/ W]	[Valid=22 /-] [Invalid=66 /-] [Mean=14.693 /-] [StdDev=10.89 /-]

yieldC: yieldC

Information	[Type= continuous] [Format=numeric] [Range= 0-38] [Missing=*]
Statistics [NW/ W]	[Valid=22 /-] [Invalid=66 /-] [Mean=13.364 /-] [StdDev=11.097 /-]

File : FE_yield data

yieldD: yieldD

Information	[Type= continuous] [Format=numeric] [Range= 0-38.5] [Missing=*]
Statistics [NW/ W]	[Valid=22 /-] [Invalid=66 /-] [Mean=13.295 /-] [StdDev=11.854 /-]

yield_kgha: yield_kgha

Information	[Type= continuous] [Format=numeric] [Range= 0-3900] [Missing=*]
Statistics [NW/ W]	[Valid=88 /-] [Invalid=0 /-] [Mean=1411.652 /-] [StdDev=1067.483 /-]

FEbid: 1=BDM was conducted; 0=Not conducted

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

Value	Label	Cases	Percentage
0		40	45.5%
1		48	54.5%

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.