Language of Survey_____ Respondent ID:_____

Bean Technology Dissemination Project Beneficiary Survey: GUATEMALA

Draft: 6/24/2013

***INSTRUCTIONS*: Ask to speak to the person who received bean seed in a polyethylene bag from ICTA, MAGA, FONTIERRAS, SOSEP, Municipal government or farmers association in 2012 (see the ID list). If this person is not available (after at least two attempts of contacting), complete X1-X4 and then end the interview. If he/she is available, complete all the fields (X1 to X8) before beginning the interview.**

X1. Date of the visit (dd/mm/yy):	**X2.** Respondent ID: *(see the ID list)*	**X3**. Name of the enumerator: _____	**X4**. Name of the supervisor: _____

Did you receive **bean seed** in a **polyethylene bag in:**

X5. Riego 2012-13 *(check one)* ☐1=Yes ☐2=No

X6. Segunda 2012 *(check one)* ☐1=Yes ☐2=No

X7. Primera 2012 *(check one)* ☐1=Yes ☐2=No

X8. Did anyone else in your household receive bean seed in a polyethylene bag in 2012? ☐1=Yes ☐2=No

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

X9 From which organization did you receive bean seed (in the polyethylene bag)? _____ (use codes) *(**Enumerator:** from now on refer to this organization when you see:* [Source]

[1] ICTA [2] MAGA [3] SOSEP [4] FONTIERRAS [5] Municipality [6] Farmer Group [77] Don't know [99] Other, describe _____

***IF NO** to **X5, X6, X7 and X8, STOP** the interview.*

***IF YES** to at least one of these questions (**X5 X6 or X7**) **READ** the consent statement to the selected respondent and continue with the interview.*

If NO to X5, X6, X7 but YES to X8**, ask to speak to the person in the family who received the seed, **and consider him/her the respondent and READ** the consent statement. **ONLY INTERVIEW A FAMILY MEMBER WHO RECEIVED BEAN SEED FROM [Source] IN2012.

X10. Consent statement was read and discussed, and the farmer agreed to be interviewed (*check one)* ☐*1=Yes* ☐*2=No*

Respondent Information

X11. Name of the respondent: _____

X12. Relationship to the head of the household (use codes): *(1=Self 2= Spouse 3= Son/daughter 4=Other (specify)*_____

X13. Community: _____ **X14**. Municipality:_____

X15. Department:_____

X16: Name of the technician (if unknown, give name of organization) who provided the BEAN seed_____

X17: Phone number (cell or landline) *(If he/she has more than one, record two)* _____ _____

X18a: What did you do with the seed you received from [Source] ? _____

[1] Planted [2] Sold as seed [3] Sold as grain [4] Consumed as grain [5] Planted part and consumed or sold the other part [99] Other (specify): _____

X18b. If you did NOT PLANT, why did you decide to not plant the seed you received? _____

_____

Language of Survey_____ Respondent ID:_____

Section A. Background Information of the Respondent (i.e., Bean Seed Recipient) and His/Her Farm

***INSTRUCTIONS*: ASK THE FOLLOWING QUESTIONS TO THE PERSON WHO RECEIVED THE BEAN SEED**

A1	A2	A3a	A3b	A4	A5	A6	A7	A8	A9
How old are you?	Gender *[1] Male* *[2] Female*	Education: Highest level completed *[1] - [12] School* *[13]- [16] University* *[20] Adult Education* *[21] No Formal education and illiterate* *[22] No Formal education and literate* *[99] Other (specify)*	Can the female head of household or wife read and write? *[1] Yes* *[2] No* *[3] There is no female head of home or there is no woman*	How many years of farming experience do you have?	How many years of **bean** farming experience do you have?	Are you a member of a local Community Seed Bank (CSB) *[1] Yes* *[2] No* ***>A9***	**IF YES,** What is the name of the Community Seed Bank (CSB) you participate in?	How many years you have been a member of this CSB?	Is anyone in your family a member of a CSB? *[1] Yes* *[2] No* ***>A13***

A10a	A10b	A11	A12a	A12b	A13	A14a	A14b	A14c	A15a	A15b	A16	A17
IF YES, what is relationship of family member to respondent? (*if multiple, write each one in a separate column-up to two: if less than 2 enter 888 in blank columns* *[1] spouse* *[2] mother/father* *[3] son/daughter* *[4] brother/sister* *[5] other (specify)* *[888] Not Applicable*		What is the name of the Local Community Seed Bank your relative participates in?	How many years has this relative been a member of this CSB? *(enter [888] for A12b if only one member)*		Are you a member of any other farmer organization or organized group? *[1] Yes* *[2] No* ***>A15***	What type of organization do you belong? *(if multiple, write each one in a separate column—up to three; if less than 3, enter [888] in columns that are blank)* *[1] Farmer cooperative* *[2] Crop specific producer organization* *[3] Non-agricultural business group* *[99] Other (specify)* *[888] Not applicable*			En Primera 2012, **how many** parcels of agricultural land are under the management of your household? *(list land owned and land rented or provided from others separately)*		What is the **total area** (in manzanas) across all the agricultural fields that were planted by your household in Primera 2012?	
1st relative	2nd relative		1st relative	2nd relative		1st org	2nd org	3rd org	Owned	Not owned	Owned	Not owned

A18a	A18b	A18c	A19a	A19b	A19c	A20a	A20b	A20c
Which were the three most important crops on your household's farm in terms of **total area planted** in Primera 2012? *(see codes below)*			Which were the three most important crops on your household's farm in terms of **total family labor devoted** for its production in Primera 2012?			Which were the three most important crops on your household's farm in terms of **purchased inputs devoted** for its production in Primera 2012?		
1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd

Crop codes for A18-A20:

[1] maize	*[10] tomato*
[2] sorghum	*[11] other vegetables*
[3] rice	*[12] coffee*
[4] beans	*[99] Other, specify*
[5] soybean	
[6] Sesame seed	*(if crop not in this list, write down the name in the corresponding space)*
[7] peanut	
[8] potato	
[9] cassava (yucca)	

Language of Survey_____ Respondent ID:_____

Section B. Information about bean production in the season in which the bean seed received was planted

Now, I would like to ask you about the bean production in the season in which you planted the seed received from [Source] (organization indicated in X9)

B1. Please tell me again, in which season did you plant the bean seed received from [Source]? *[1] Primera 2012 [2] Segunda 2012 [3] Apante 2012-13 [77] Did not plant the seed in any season > (Section C)*	
B2.1 In the planting season indicated in B1, how many **PARCELS** of agricultural land were planted to beans? ***ENUMERATOR: Define a bean PARCEL as a contiguous piece of land in which one bean variety was planted (make a map on reverse side)***	
B2.2 What was the area of land cultivated across **all parcels and all crops?**	
B2.3 Unit in which the land area is reported in B2.2 *[1] Manzana [2] Hectare [3] Tareas [4] Cuerdsa (specify varas/brazadas cuadradas) _____ [99] Other (specify) _____*	
B3. Did you have the following problems more in that planting season compared to the previous 2 years? *[1] Yes [2] No [77] Don't know* **B3.1** Insects [ ] **B3.2** Diseases [ ] **B3.3** Drought [ ] **B3.4** Too much rain [ ]	

***Enumerator**, please use the answer in B2.1 to determine the number of rows that need to be filled in the following Tables in Section B. Each row should correspond to a distinct agricultural parcel in which beans were planted in the planting season indicated in B1. Start by listing the bean parcel in which the seed from [Source] was planted.*

1. **Parcel characteristics, use of inputs and varieties for bean production during the season in which bean seed was planted**

B0	**B4**	**B5**	**B6**	**B7**	**B8**	**B9a**	**B9b**	**B10**	**B11**	**B12**	**B13**	**B14**	**B15**	**B16**	**B17**	**B18a**	**B18b**	**B18c**
Parcel ID	Unique description of the parcel (e.g., its location, some landmark, etc.)	How is the […] on this parcel?				If you were to sell or rent-out this parcel in 2012, how much would you get? *[77] Don't know [88] Cannot sell* *(Quetzales)*		If you rent the parcel, what did you pay? *[0] Did not rent [77] I don't know* *(Quetzales)*	What is the size (area) of this parcel?		Was bean inter-cropped? *[1] YES [2] NO **>B16***	If YES, crop associated with bean? *[1] Maize [2] Rice [3] Sorghum [99] Other (specify):*	What proportion of this area was planted to **bean**? *[1] 25% [2] 33% [3] 50% [4] 67% [5] 75% [6] >75%*	What was the planting date for beans in this parcel?		Which crop was grown in this parcel in the previous seasons of […]?		
		Slope *[1] Flat [2] Medium [3] Steep*	Soil quality *[1] Sand [2] Silt [3] Clay [77] Don't know*	Presence of rocks *[1] None [2] Some [3] A lot*	Land tenure *[1] Owned [2] Rented in > **B10** [3] Half/Half shared > **B11** [4] borrowed (not paying for its use) > **B11** [5] Govt land > **B11** [99] Other (specify):*	If sold today	If rented out for the entire agricultural year 2012		Area	Unit *[1] Manzana [2] Hectare [3] Tareas [4] cuerdas (specify square varas, meters o brazadas) [99] Other (specify)*				Month (1-12)	Week (1-4)	Segunda 2012	Primera 2012	Riego 2011-12
																[0] Fallow/no crop grown [1] Maize [2] Rice [3] Sorghum [4] Bean monocrop [5] Bean inter-crop [77] I don't know, I did not rent/ share/ borrow this parcel or current season [99] Other (sp):		
P1																		
P2																		
P3																		
P4																		
P5																		

Language of Survey_____ Respondent ID:_____

1. **Parcel characteristics, use of inputs and varieties for bean production during the season in which bean seed was planted (CONTINUED)**

B0	B19	B20	B21	B22	B23	B24	B25a	B25b	B26a	B26b	B27	B28	B29	B30	B31	B32	B33	B34a	B34b
Parcel ID	Who was the main person responsible for this parcel in this season *[1] self* *[2] spouse* *[3] son/daughter* *[99] other (specify)*	Gender of the person responsible for this parcel *[1] male* *[2] female*	The person responsible belongs to the following age group *[1] < 16 years old* *[2] 16-30* *[3] 31-45* *[4] 46-65* *[5] > 65 years old*	Was this parcel irrigated in this season? *[1] Yes* *[2] No* *[77] Don't know*	Did you apply any insecticide on this parcel? *[1] Yes* *[2] No* *[77] Don't know*	Did you apply any fungicide on this parcel? *[1] Yes* *[2] No* *[77] Don't know*	What chemical fertilizer and quantity did you apply? ***(highest quantity)***		What other chemical fertilizer and quantity did you apply? ***(lower quantity)***		Approximately how much did you spend on the following inputs on **<u>your bean crop</u>** planted in this parcel in this season? *(Quetzales)*					What variety of bean seed was planted on this parcel? *(see code list)*	Type of bean plant? *[1] Climbing* *[2] Bush*	When did you first plant this variety on your farm? *[1] Primera* *[2] Apante* *[3] Segunda* *[77] Don't know*	
							Type	Amount	Type	Amount	Chemical Fertilizer	Herbicide	Chemical pesticides	Seed	Hired labor			Season	Year (YYYY)
P1																			
P2																			
P3																			
P4																			
P5																			

1. **Parcel characteristics, use of inputs and varieties for bean production during the season in which bean seed was planted**

B0	B35	B36	B37	B38	B39	B40	B41	B42	B43	B44
Parcel ID	How much seed was planted? ***(in pounds)***	What was the <u>primary</u> source and quantity (lbs) of the seed used on this parcel? *(see code list below)*		If there was another source, what source and quantity (lbs)? *(see code list below)*		Was this certified seed? *[1] Yes* *[2] No* *[77] don't know*	Do you plan to grow this variety in the next season in any parcel? *[1] YES* *[2] NO >**B43*** *[77] Don't know*	Do you plan to change the area planted to this variety in future? *(prompt and select one)* *[1] increase* *[2] decrease* *[3] No change* *[77] Don't know*	What are the two characteristics you <u>like</u> the most about this variety? *(see code list)*	
		Source	Quantity	Source	Quantity				1st	2nd
P1										
P2										
P3										
P4										
P5										

<u>Fertilizer codes (B25a, B26a)</u>

[1] 15-15-15
[2] Urea
[3] Foliar
[4] Kelik Potasio
[5] 20-20-0
[6] 20-20-10
[7] 20-20-20
[8] 12-30-10
[9] 18-46-0
[10] 10-10-40
[99] Other (specify)

<u>Variety codes (C32)</u>

[1] ICTA Ligero
[2] ICTA Hunapú
[3] ICTA Petén
[20] Local/Criollo (without name)
[30] Improved (without name)
[77] Don´t know
[99] Other specify

<u>Variety characteristics LIKED (B43, B44)</u>

[1] Good yield
[2] Resistant to diseases
[3] Resistant to insects
[4] Early maturity
[5] Good cooking quality/taste
[6] Good price/mkt. value
[99] Other (specify)

<u>Seed source (B36 and B38)</u>

[1] Grain saved from previous harvest
[2] Other farmer
[3] Purchased in the market as grain
[4] Purchased in the market as packaged seed
[5] Received from an NGO
[6] Received from SOSEP
[7] Received from ICTA
[8] Received from FONTIERRAS
[9] Received from MAGA
[99] Other (specify in space)

Language of Survey_____ Respondent ID:_____

2. **Production and Utilization of Beans Harvested in the season in which bean seed was planted**

B0	B45	B46	B47a	B47b	B48	B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59
Parcel ID	What are the two characteristics you dislike the most about this variety? *(see code list)*		Did you harvest in ejote, maduro or camagua prior to the harvest and if so, what proportion of beans planted was harvested as green pods? *[1] Did not harvest ejote* ***>B48*** *[2] Harvested, but <25% [3] 33% [4] 50% [5] 67% [6] 75% [7] >75% [77] Harvested but don´t know*	What did you do with the green pods you picked? *[1] Sold all [2] Consumed all [3] Part sold, part consumed [99] Other (specify)*	What was the total quantity of beans harvested from this parcel?		Date when bean harvest was completed in this parcel		How much of the total quantity of beans that was harvested, did you […]? (*use same units as in B48*) Lose due to pest or other reason? *(Units of B48)*	Keep as food? (consumption) *(Units of B48)*	Keep to plant as seed next year? *(Units of B48)*	Sell? *(Units of B48)*	Use for other purpose? *(Units of B48)*	***(Ask the person who cooked the beans)*** In your experience, rate the cooking time of this variety ***(check with B53)*** *[1] Very Fast [2] Fast [3] Regular [4] Slow [5] Very Slow [6] Don't know/Can't tell [77] Did not cook/consume*	What was the price you received for the largest quantity sale of beans sold? ***(check with B55)*** *(Quetzales/Lbs) [77] Did not sell*	Specify the purpose indicated in B56 ***(check with B56)*** *[1] gift [2] payment in kind [77] No other purpose [99] Other (specify)*
	1st	2nd			Quantity	Unit	Month (1-12)	Week (1-4)								
P1																
P2																
P3																
P4																
P5																

Variety characteristics DISLIKED (B45, B46)

[0] Nothing
[1] Low yield
[2] Susceptible to diseases
[3] Susceptible to insects
[4] Late maturity
[5] Poor cooking quality/taste
[6] Lower price/mkt. value
[99] Other (specify)

Unit codes (B49)

[1] Kg
[2] Lbs
[3] Quintales
[4] Arrobas
[99] Other (specify units and weight)

Section C. Information about seed received from [Source]

Enumerator*, please read the following to the farmer: "You have indicated receiving bean seed from [Source] in 2012. Now I would like to ask you a few questions regarding this seed."*

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13
What is the name of the community or city of the [Source] office that provided you the seed? *[77] Don't know*	For which season did you **plant** the bean seed from [Source]? *[1] Primera 2012 [2] Segunda 2012-13 [3] Apante 2012-13 [4] Other (Specify)*	How much seed did you receive in that season? Quantity	Unit *[1] kg [2] lbs*	What variety was this seed? [1] ICTA Ligero [2] ICTA Hunapú [3] ICTA Petén [20] Local/Criollo (without name) [30] Improved (without name) [77] Don´t know [99] Other (specify)	In what type of package did you receive this seed? *[1]* ***Sealed*** *package with a label [2]* ***Open bag*** *with a label [3]* ***sealed*** *package without a label* ***>C11*** *[4]* ***Open bag*** *without label* ***>C11*** *[99] Other (specify)* ***>C11***	Did the label include the following: *[1] Yes [2] No [77] I don't know* Variety name	Germination rate	Weight	Date of production	Was the seed delivered to you or you had to go someplace to get it? *[1] it was delivered to me in my community* ***>C13*** *[2] I had to travel outside my community to get the seed*	How far did you have to travel to get the seed? *km*	When did you receive the seed in relation to your planned planting date? *[1] One month before [2] One week before [3] Less than one week [4] After the date I was planning to plant [99] Other (specify)*

Language of Survey_____ Respondent ID:_____

Section C. Information about seed received from [Source] (CONTINUED)

C14	C15	C16	C17	C18	C19	C20	C21	C22a	C22b	C23	C24	C25	C26	C27	C28	C29
In your opinion, was there a transparent process of selecting farmers to receive bean seeds? *[1] Yes* *[2] No* *[77] I don't know*	In your opinion, was the demand for seed met in that season from all the farmers in your community? *[1] Yes* *[2] No* *[77] don't know*	Was the quantity of seed you received adequate for your need? *[1] Yes* ***>C20*** *[2] No, I wanted more seed*	How much more seed of that variety did you need in that season (in addition to what you received) and how much you were willing to pay for it?			How would you rate the quality of seed you received? *[1] Lower quality than other seed I planted that season* *[2] Similar quality as other seed* ***>C22*** *[3] Higher quality than other seed* ***>C22*** *[77] I don't know because I didn't plant the seed* ***>C29***	What is the main reason for rating the seed as lower quality? *[1] low/zero germination rate* *[2] poor plant growth* *[3] It was prone to diseases and insects* *[4] It had mixed varieties with different plant height and maturity* *[99] Other (specify)*	Did you harvest in ejote, maduro or camagua prior to the harvest of the seed received from [Source]? *[1] Si* *[2] No* ***> C23***	What did you do with the green pods you picked? *[1] Sold all* *[2] Consumed all* *[3] Part sold, part consumed* *[99] Other (specify)*	What was the total harvest of beans from the seed received?		How much of that season's harvest from seed received did you save as seed for planting in the following season?		How much of that season's harvest from seed received did you share with others as seed (family, friends, neighbors) or sold as seed?		What was the payment agreement with [Source] for the seed you received that season? ***(see code list below)***
			Additional Quantity needed	Unit *[1] Kg* *[2] Lbs*	Willing to pay (Quetzales/ unit)					*Unit codes:* *[1] Kg* *[2] Lbs* *[3] Quintales* *[4] Arrobas* *[99] Other (specify units and weight)*						
										Quantity	Unit	Quantity	Unit	Quantity	Unit	

C30	C31	C32	C33	C34	C35	C36	C37	C38	C39	C40	C41	C42
If **paid in cash**, what was the price (per pound of seed) you paid? *(Quetzales / pound)*	In your opinion was the payment agreement [..]? *[1] Lower than what you were willing to pay* *[2] Right around the rate you were willing to pay* *[3] Higher than what you were willing to pay*	Would you purchase seed or seek to obtain seed from this source in the future? *[1] Yes* *[2] No* *[77] Don't know*	Do you have easy access to **certified seeds of bean**? *[1] Yes* *[2] No* *[3] don't know what is a certified seed*	Have you ever used or purchased certified bean seed? *[1] Yes-it was given free of cost* *[2] Yes-I purchased it* *[3] No, I have not used it*	If **easily available and affordable**, how frequently and how many pounds of bean seed would you purchase of the following type for your farm needs: ***Frequency code:*** *[0] Every planting season* *[1] Once a year* *[2] Once every 2 years* *[3] Once every 3 years* *[4] Less frequently than every 3 years* *[5] I would not buy seed from this source at all*				In your opinion what are the two main **advantages** of having access to a local source of seed *(see code list)*		In your opinion what are the two main **disadvantages** of sourcing seeds from a local source of seed? *(see code list)*	
					Certified seed from an authorized distributor		Seed from [Source]		Most important	2nd most important	Most important	2nd most important
					Frequency	Lbs	Frequency	Lbs				

Code of Payment Agreement (C29)

[1] *it was free of cost* ***>C32***
[2] *I paid cash*
[3] *I returned the same amount of grain after harvest* ***>C31***
[4] *I returned twice the grain after harvest* ***>C31***
[5] *I did not pay anything but I had to share some harvested grain with other farmers* ***>C31***
[99] *Other (specify)* ***>C31***

Code of Advantages (C39, C40)

[1] *It's closeness/proximity /presence in the community*
[2] *Flexibility in payment method*
[3] *Timely availability of seed*
[4] *Good quality of seed*
[5] *The idea that it can meet the seed needs of a community (seed security)*
[6] *Affordability of seed*
[99] *Other (specify)*

Code Disadvantages (C41, C42)

[1] *Poor quality of seed*
[2] *Seed not available on time*
[3] *Inadequate capacity to meet the seed needs of the community in terms of quantity*
[4] *Inadequate capacity to meet the seed needs of the community in terms of diversity of varieties demanded*
[99] *Other (specify)*

Language of Survey_____ Respondent ID:_____

Section D. Bean Production in Primera 2013

*I would like to ask you about your bean production in **PRIMERA 2013** season.*

D1. In the **Primera 2013** planting season, how many **PARCELS** of agricultural land were planted to beans? (***If ZERO PARCELS IN PRIMERA 2013, GO TO SECTION E)*** ***ENUMERATOR: Define a bean PARCEL as a contiguous piece of land in which one bean variety was planted (make a map on reverse side)***	
D2.1. In the Primera 2013 planting season, what was the total area of land cultivated across **all parcels and all crops**?	
D2.2 Unit in which the land area is reported in D2.1 *[1] Manzana [2] Hectare [3] Tareas [4] Cuerdas (specify square varas, meters or brazadas)] [99] Other (specify)_____*	
D3. Did you have the following problems more in PRIMERA 2013 compared to the previous 2 years? *[1] Yes [2] No [77] Don't know* **D3.1** Insects _____ **D3.2** Diseases _____ **D3.3** Drought _____ **D3.4** Too much rain _____	

***Enumerator**, please use the answer in D1 to determine the number of rows that need to be filled in the following Tables in Section D. Each row should correspond to a distinct agricultural parcel in which beans were planted in Primera 2013. Start by listing the biggest bean parcel.*

1. **Parcel characteristics, use of inputs and varieties for bean production during the PRIMERA 2013 season**

D0	D4	D5a	D5b	D6	D7	D8	D9a	D9b	D9c	D10a	D10b	D11	D12	D13	D14	D15	D16
Parcel ID	Unique description of the parcel (e.g., its location, some landmark, etc.)	What is the size (area) of this parcel?		What variety of bean seed was planted on this parcel? *(see code list)*	Was this certified seed? *[1] Yes [2] No [77] don't know*	Type of bean plant? *[1] Climbing [2] Bush*	What was the primary source of the seed and how much (in order of size) *(see code list below)*			When did you first plant this variety on your farm? *[1] Primer [2] Apante [3] Segunda [77] Don't know*		How much seed was plant-ed? (in pounds)	If you plan to grow this variety in the future, do you plan to change the area planted to this variety? *(prompt and select one) [1] increase [2] decrease, but plant [3] No change [4] Will not plant this variety again [77] Don't know*	Did you harvest in ejote, maduro or camagua prior to the harvest and if so, what proportion of beans planted was harvested as green pods? *[1] Did not harvest ejote>**D15** [2] Harvested, but <25% [3] 33% [4] 50% [5] 67% [6] 75% [7] >75% [77] Harvested but don´t know*	What did you do with the green pods you picked? *[1] Sold all [2] Consumed all [3] Part sold, part consumed [99] Other (specify)*	What was the total quantity of beans harvested from this parcel? *[888] Not yet harvested)*	
		Area	Unit *[1] Manzana [2] Hectare [3] Tareas [4] Cuerdas (specify) [99] Other (specify)*				Source	Amount	Unit	Season	Year					Quantity	Unit
P1																	
P2																	
P3																	
P4																	

Variety codes (D6)

[1] ICTA Ligero
[2] ICTA Hunapu
[3] ICTA Peten
[20] Local/Criollo (Sin nombre)
[30] Mejorada (sin nombre)
[77] No lo sé
[99] Otra (especifique)

Unit codes (D9c) and (D16)

[1] Kg
[2] Lbs
[3] Quintales
[4] Arrobas
[99] Other (specify units and weight)

Seed source D9a, *if > 1 sources, list the most important*)					
[1] Grain saved from previous harvest	*[2] Other farmer* *[3] Purchased in the market as grain*	*[4] Purchased in the market as packaged seed* *[5] Received from an NGO*	*[6] Received from SOSEP* *[7] Received from ICTA*	*[8] Received from FONTIERRAS* *[9] Received from MAGA*	*[99] Other (specify in the corresponding space)*

Language of Survey_____ Respondent ID:_____

E. Family Socioeconomic characteristics

E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11a	E11b	E11c	E12	E13	E14	E15	E16	E17	E18
How many **people** belong to this **household**?			How many **people** in your household are in the **following age group** (***Instruction**: write the number of people for each age group. Total across age groups should equal total in E3)*						Are all children age 7 to 13 enrolled in school? *[1] Yes* *[2] No* *[77] No children age 7 to 13*	What material is your house […] made of *(see code list)*			Do you own or have access to […] *[1] Yes* *[2] No*					**How far** is your house from the nearest **market**? *(km)*	**How far** is your village from the nearest **paved road** (or adoquinada)? *(km)*
Males	Females	Total	<5	5-13	14-25	26-40	41-65	> 65		Walls	Floor	Roof	Well	Latrine	Bath-room	Running water	Electri-city		

Code for Materials (E11)
[1] Wood
[2] Compacted mud/ clay (adobe)
[3] Cement
[4] Cement blocks
[5] Dirt
[6] Metal
[7] Ceramic tile or granite
[8] Tile
[99] Other (specify)

E. Family Socioeconomic characteristics (CONTINUED)

E19	E20	E21	E22	E23	E24	E25	E26	E27	E28	E29	E30	E31
In the past 12 months, did any member of your household **obtain income** from any of the following sources? (***Instruction**: Read each item and note yes/no) [1] Yes [2]No*										Which are the **top three** sources of your household's **income** identified above (in E19-E28) (***Instruction***: For codes, refer to E19-E28)		
1=Field crop sales	2=Horticulture crop sales	3=Dairy product sales	4=Livestock sales for meat	5=Other agriculture activity (describe)	6=Renting/leasing land or farm equipment to others	7=Wages/salaries from agricultural labor	8=Wages/salaries from outside agriculture (e.g., govt. job, teacher, bank clerk)	9=Income from a non-farm business (describe)	10=Other (describe)	**Highest** source of income *(indicate the code)*	**Second** highest source of income *(indicate the code)*	**Third** highest source of income *(indicate the code)*

E32	E33	E34	E35	E36	E37	E38	E39	E40	E41	E42	E43	E44	E45	E46	E47	E48	E49	E50	E51	E52	E53	E54	E55	E56
How many animals does your household currently own *(if none, write zero)*							How many of the following does your household own? (***Instruction**: For each item, write a number. If none, write zero)*																	
Horses	Cows	Goats	Sheep	Donkeys	Pigs	Other (describe)	Bicycles	Motorcycles	Cars or trucks	Tractors	Carts (animal)	Animal plows	Backpack sprayer	Metal silos	Irrigation pump	Refrigerator	Gas or electric stove	Mill stone	Electric iron	TV	Radios	Cell phones	Sowing machinces	Computers

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E57	E58	E59	E60	E61	E62	E63	E64
Did your HH purchase beans for consumption in the past 12 months? *[1] YES* *[2] NO*	Did your HH use agricultural credit in the past 12 months? *[1] YES* *[2] NO*	Did your HH receive remittances from a relative in the past 12 months? *[1] YES* *[2] NO*	In a typical year, what share of your HH **income** comes from bean grain sales? *[1] Less than 25%* *[2] Between 25% and 50%* *[3] Between 50% and75%* *[4] More than 75%*	In a typical year, what share of your HH annual bean **grain consumption** is satisfied by your own production? *[1] Less than 25%* *[2] Between 25% and 50%* *[3] Between 50% and75%* *[4] More than 75%*	In a typical year, how long does your **food grain reserves** of bean last after harvest? *[1] Less than one month* *[2] One to three months* *[3] Three to six months* *[4] Six to nine months* *[5] Until the harvest in the following season* *[77] Don't know / can't answer*	In a typical year, when bean reserves are over, how often is **grain purchased** for consumption? *[1] Never* *[2] Every day* *[3] Few times per week* *[4] Once a week* *[5] 2-3 times per month* *[6] Once a month* *[77] Don't know / can't answer*	What method do you typically use to store your beans? *[1] Metal silos* *[2] Metal drum* *[3] Plastic container **with** lid* *[4] Plastic container **without** lid* *[5] Sacks (polyethylene or jute)* *[6] Plastic bags* *[77] No method—I don't store beans >E72* *[99] Other (specify)*

E65	E66	E67	E68	E69	E70	E71
Have you observed any bruchid problem in your stored beans? *[1] YES* *[2] NO >E72*	What do you typically do to kill bruchids that could damage the grain during storage? *[0] Not do anything **>E68*** *[1] Apply fostoxin/insecticide* *[99] Other (describe)*	Approximately, how much money did you spend each year on these methods to control bruchids when storing your beans? **>E69**	Why you **do not** use any method to control bruchid problem when you **store** your beans (main reason)? *[1] I don't know what method to use* *[2] The methods are too expensive* *[3] I do not think that any method really works* *[99] Other (specify)*	Suppose you had 100 bags of beans and you DID NOT USE any method to kill bruchid infestation in your stored beans: Can you tell me based on your experience, how many bags of beans in total you would LOSE at the end of […] months because you DID NOT USE any control method? (*write zero if the response is 'none'*)		
				1 month	**3 months**	**6 months**

Enumerator: *please ask to speak with the person who generally cooks the beans and ask the following five questions. If this person is not available, ask them to the respondent.*

E72	E73	E74	E75	E76	E77	E78
In the past 7 days, how often did you cook beans for your home consumption?	Typically, how many pounds of beans to you use every time you cook? (according to the frequency indicated in E72) *[77] Don't know/cannot answer*	Typically, for how long did you cook your beans? Time *[77] Don't know/cannot answer*	Units *[1] minutes* *[2] hours* *[77] Don't know/cannot answer*	What source of energy did you use to cook your beans? *[1] wood* *[2] propane gas tank* *[3] electric* *[99] Other (specify)*	Did you soak the beans before cooking? *[1] Yes* *[2] No*	Why you did or didn't soak the beans?

Enumerator: *please ask to speak once again with the person who received the bean seed from [Source] project and continue with the next section.*

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Section F. Preference for Bean Varietal Traits and Demand for Seed

Enumerator: *ask the following questions the the person who received and planted the bean seed from [Source]*

	F01	F02	F03	F04	F05	F06
If I gave you numbers 1 to 10, where 1 means 'highly preferred by you and your family' and 10 means 'least preferred by you and your family', how would you assign those numbers to the following traits in a bean variety? Describe your preference for a specific trait.			What is the maximum amount of money you would be **willing to pay per pound for the seed** of a variety that has the preferred qualities indicated in F02? *Quetzales / lbs*	How often would you purchase **clean and high-quality seed** of a variety that has all the desired traits *[1] 1 year* *[2] 2 years* *[3] 3 years* *[4] 4 years* *[5] 5 years* *[6] more than 5 years* *[0] I would not purchase seed (only use saved seed)**==>Go to F07***	What quantity of seed would you purchase at that frequency *(indicated in F04)*?	
Traits *(first read them all, then ask to rank them)*	**Trait ID**	**Rank** ***(assign numbers 1-10 without repeating)*** [99] Not preferred at all			**Quantity**	**Units** *[1] Kg* *[2] Lbs* *[3] Quintales* *[4] Arrobas* *[99] Other (specify units)*
Seed color and size	**1**					
Resistance to field pests and diseases	**2**					
Resistance to storage pests	**3**					
Cooking time	**4**					
Yield	**5**					
Taste	**6**					
Earliness of maturity	**7**					
Marketability (Easy to sell)	**8**					
Taste of green pods	**9**					
Other (Specify:_____)	**10**					

F07. Do you have any suggestions regarding what is needed to increase farmers' bean yields?

_____

_____

THANK YOU VERY MUCH FOR YOUR TIME TO PARTICIPATE IN THIS STUDY