CONSENT STATEMENT

My name is _____. I am assisting the **International Center for Tropical Agriculture (CIAT)** and **Michigan State University (MSU)** from the U.S. in collecting information to document farmers' willingness to pay (WTP) for different types of bean seeds, the bean crop in general and some household characteristics. I would like to ask you some questions related to these topics. This information will be used to document what bean growers are willing to pay for different types of bean seed, when available; which will help us to **generate recommendations** that may benefit bean production in this region. As part of the WTP study, we will be presenting to you some options for purchasing different types of seeds under different scenarios and ask you to make a selection, but you won't have to purchase anything.

The interview will take approximately **30-35 minutes**. Your participation is **voluntary**. Your **refusal** to participate or to withdraw from the study **carries no penalty or loss** of any benefits. **You are free** to not answer any of the questions I will ask. However, your answers will be valuable for the research we are conducting. All information provided by you will be kept **confidential**. Your confidentiality will be protected to the maximum extent allowable by law. If you have any questions or concerns, you can ask me or contact Dr. XYZ, CIAT phone ABC, or PQR at Michigan State University, phone FGH, e-mail: LMN.

Do you have any questions about this study for me? ***<Enumerator:*** *pause and respond to any questions raised, then continue with the following statement>*

If you don't have any more questions of if I have responded to your questions, I would like to start the survey interview. **By responding to my questions**, you indicate your **willingness to voluntarily participate** in the study.

(Enumerator: take this page and give it to the farmer)

X1. Village ID:_____ X2.Farmer Name (who participated in Field Day 1):_____ X3. Producer Code (see card):_____

FAMER WILLINGNESS TO PAY FOR QUALITY BEAN SEEDS—NICARAGUA 2017 SURVEY

***INSTRUCTIONS**: Please ask to speak to the person primarily responsible for BEAN production decisions AND had participated in the first field day. Ask him/her to show the acknowledgement card with a CODE and copy this code on X3 at the top. If the main decision maker is not available, find out when s/he will be available for interview. If this person is available, read the CONSENT STATEMENT and if he/she agrees to be interviewed, begin the interview s tarting on question X6.).*

CONSENT STATEMENT

cs1. Enumerator: ¿did you read and gave a copy of the consent statement to the farmer? …….. ☐ 1-Yes ☐ 2-No

cs2. Enumerator: ¿the farmer is willing to be interviewed?…….. ☐ 1-Yes ☐ 2-No

NOTES FOR ENUMERATORS

** Sentences in "italics" are instructions for the enumerator* *ID = Identification *esp. = Specify details *CSB=Community Seed Bank

X4a. Name of the **enumerator: _____** **X4b. Supervisor** Initials**: _____** **X5. Date: _____dd _____mm 2017**

X6. *Enumerator: is this the **main (or one of the main) decision makers** in your household for **bean cultivation and production?***	☐ 1-Yes ☐ 2-No

SECTION X. Respondent Identification and information

X7. Gender	☐ 1-Male ☐ 2-Female	**X8.** Age		**X9.** Number of **years of formal education** completed?	

X10. Mobile phone number ([77] Prefers not to share it [88] Does not have a mobile phone)……	
X11. Who else from this family **had participated in the first Field Day** that was done in this village in June/July? **(***Please **ask for the card with the assigned code** and note down the name and code**. If none, note down 88 in all spaces and continue in A1)***	a. Name Adult 1: b. Code Adult 1: c. Name Adult 2: d. Code Adult 2: e. Name Adult 3: f. Code Adult 3:

X3. Producer Code :_____

SECTION A. INFORMATION ABOUT THE HOUSEHOLD AND FARMING PRACTICES

A1. Your **relationship** to head of HH? [1] HH head ***=>A5*** [2] Spouse [3] Son/daughter (>18) [4] Other relative [5] Other non-relative	**A2.** What is the **gender** of the Head of this HH? [1] Male [2] Female [88] Does not apply (both consider themselves the head)	**A3. Age** of the Head of this HH?	**A4.** Number of **years of formal education** completed by the Head of the HH?	**A5.** # household **members**			**A6.** Are all household members ages 7 to 18 enrolled this school year in the formal educational system? [1] Yes [2] No [88] No children 7-18 years of age	**A7.** Have any household members, in their main occupation in the last seven days, were wage or salary workers?	**A8. What is the farthest anyone in this household has ever travelled?** [0] Never left this village [1] A village/town in this municipality [2] A place in other parts of country [3] Another country in Latin America [4] US/Canada/Australia/Europe [99] Other (specify)
				a. Total	**b.** Males	**c.** Females			

A9. Have you ever produced bean seeds for sale to other? [1] Yes [2] No***=>A12***	**A10**. If yes to A9 when was the last time you produced bean seeds? YYYY	**A11**. What type of bean seeds did you produce? [1] certified seeds [2] Apta seeds [3] Both types (1,2) [99] Other (specify)	**A12.** Have you heard about or know about the following organizations/ products/ services? [1] Yes [2] No						
			a. Community seed bank	b. Apta seed	c. Certified seed	d. Internet	e. Facebook	f. INTA	g. Climate change

A13. Do you belong to a **farmer group/ organization?** [1] Yes [2] No***=>A16***	**A14. Are you a leader of any of these groups?** [1] Yes [2] No	**A15.** Does this organization produce/distribute seeds of any crops? [1] Yes [2] No	**A16. Does the household own (and is in use)…** [1] Yes [2] No							**A17.** How many cellular phones does your household own? (**0=>*A19***)	**A18.** How many of these are 'smart phones'? (77=No sé)
			a. bicycle	b. Boat	c. motorcycle	d. automobile	e. horse	f. donkey or mule	g. Iron	h. Blender	

A19. What is the distance from your house to the nearest paved road (if the house is next to the paved road, write zero)	*km*	
A20. What is the distance from your house to the nearest market where you obtain agricultural inputs (e.g., fertilizer, pesticides, seeds, etc.)	*km*	

A21. How many rooms does the household have for its use (excluding kitchen, bathrooms, hallways, and garages)?	**A22.** What is the main material of the floor of the residence? [1] Dirt, or other [2] Wood planks, mud bricks, or tiles and concrete [3] Cement bricks or tile	**A23.** What fuel does the household usually use for cooking? [1] Non-purchased firewood [2] Purchased firewood, charcoal, or does not cook [3] Butane or propane gas, kerosene, electricity, or other	**A24.** When it comes to **adopting new technology, inputs or farming practices, which** of the following **best describes your behavior?** *(Read each one and let farmer select one option)* [1] I am one of the **first ones** to adopt NEW technologies [2] I usually **wait until a few farmers** I know have used those inputs/technologies/practices, and then based on their experiences I make the decision [3] I usually **wait until most farmers** in this village are already using those inputs/technologies/practices, and I am 100% sure that those technologies work [4] I **rarely change my farming practices** as I am not comfortable doing new things

A25. Do you **regularly purchase** or have you **ever purchased** bean **seed** (not grain) for grain production? [1] Yes, regularly purchase [2] Yes, purchase occasionally [3] Yes, purchased once but not anymore [4] No, I have never purchased 'seed'***=> A33*** [5] I don't know the difference between seed and grain***=> A33*** [77] Don't know/cannot answer	**A26.** What is the highest price per pound you have ever paid for bean seed for grain production? **Cordobas/Lb**	**A27.** When was the last time you purchased bean seed for grain production? **YYYY**	**A28.** What was the price per pound you paid for acquiring this seed last time? **Cordobas/Lb**	**A29.** Total quantity of seed purchased that time? **Lb**	**A30**. **Source** of the last purchased seed for grain production 1-farmer from this village 2-Community seed bank 3-other farmer organization 4- seed vendor in the market 5-Input dealer 99-Other source (specify)	**A31**. What type of seed was it? 1-Certified 2-Non-certified but came in a package with labeling (Apta) 3-Apta seed in bulk 4-Packaged but without label 77-Don't know 99-Other (specify)	**A32.** Name of the seed variety purchased 77-don't know / remember 99-More than one variety	**A33.** In a normal year, what **percent (%)** of your bean **harvest** do you **sell?** Record the response on a scale of 0 to 100 (approx. value is fine)	**A34.** In a normal year, what **percent (%)** of your **HH income** comes from **bean sales?**

In the last **agricultural year (2016/2017)**: which were the **two most important crops** for your household in terms of… [1] Maize [2] Beans [3] Rice [4] Vegetables [5] Coffee [6] Fruit trees [7] Citrus [8] Banana or Plantain [9] African oil palm [10] Pastures **[77]** Don't know/cannot answer **[88]** No more crops (*only for 2 option*) **[99]** Other crop or activity (specify)						**A38.** Total amount of **land area owned by your HH?**	**A39. Units** for land area [1] Manzanas [2] Tareas [99] Other (sp.)	**A40.** *Using the same units reported in **A39**:* What was the **total land** area in **all plots** (own, rented, borrowed, etc.) cultivated with **all crops** during the **last agricultural year (2016/2017)?**	**A41. How many fields** (spatially separated pieces of land) cultivated in this household in the **last agricultural year (2016/2017)?**	**A42.** From these fields, **in how many were beans planted** the last agricultural year (2016/2017)?	**A43.** Did you plant **bean validation fields** the last agricultural year? [1] Yes [2] No [77] Don't know what that is
A35. Total **area** planted?		**A36. Purchased inputs** for production?		**A37.** As a source of **income**?							
a. **1ro**	b. **2do**	a. **1ro**	b. **2do**	a. **1ro**	b. **2do**						

X3. Producer Code :_____

SECTION B. INFORMATION ON BEAN FIELDS CULTIVATED DURING THE LAST AGRICULTURAL YEAR (may 2016/april 2017)

Enumerator, read to the farmer: *For each of the bean FIELDS planted in the last agricultural year, please tell me…*

B0a	B0b	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Field ID	**Planting season** [1] Primera [2] Postrera [3] Apante [4] Summer/ irrigated	**Total bean area** in this field?	**Units** of area [1] Manzanas [2] Tareas [99] Other (specify)	Was bean **inter-cropped**? [1] Yes [2] No***=>B5***	What percentage of this field was planted to beans? 0 to 100 values (approx. value is fine)	Total quantity of bean seed planted on this field? **Lbs**	Total quantity of bean grain harvested	Units for harvest [1] Lbs [2] Quintals (100 lb-sacks) [99] Other (specify units & weight)	Did you apply any **fertilizer (chemical or organic)** on this field? [1] Yes [2] No	Did you apply any **chemical pesticides** on this field? [1] Yes [2] No	Did you apply any **bio-pesticides** on this field? [1] Yes [2] No	Did you apply any other types of pest or disease control products on this field? [1] Yes [2] No
P1												

B0a	B0b	B12	B13	B14a	B14b	B15	B16	B17	B18	B19
Field ID in the same order as above, starting on P1 (field 1))	**Write the season** following the same order as above and with the same codes	**Name** of the bean **variety planted on this field** 77=don't know	**Source of seed** planted in this season [1] Saved from own **grain** harvest [2] saved from own **seed** production [3] Purchased **as grain** from others/market***=>B15*** [4] Purchased **as seed** from a seed producer in the village***=>B15*** [5] Purchased **as seed** from an input dealer***=>B15*** [6] Given by NGO/Govt. program***=>B15*** [99] Other (specify) ***=>B15***	When was the last time you obtained fresh seed of this variety from outside your own farm production? *(Never? Write 777 and go to B15)* YYYY	Source of fresh seeds used for grain production that you mentioned in B14a [1] Grain from family/friends [2] Grain from the market [3] Purchased as Apta seed [4] Purchased as Certified seed [5] Given by NGO/Govt. program [99] Other (specify)	Type of seed planted [1] Commercial grain [2] APTA seed [3] Certified seed [77] Don't know	How would you rate this seed quality? [1] Excellent***=>B18*** [2] Good***=>B18*** [3] Bad [77] Don't know	If rated bad, ask the reason for 'bad' rating: [1] Low germination [2] Disease and pest problem [3] Plant growth not uniform [4] Low yield [99] other (specify)	Was this a **traditional or an improved** variety? [1] Traditional/local [2] Improved [77] don't know	How many years have you planted this variety on your farm? *(Always? Write 777)*
P1										

SECTION C. FARMER'S KNOWLEDGE, PERCEPTIONS, OPINIONS ON SEED TYPES AND SEED QUALITY

C1. Do you consider you have easy access to **good quality seeds** of bean, If you wanted to purchase it? [1] Yes [2] No***=>C3***	**C2.** Where is the nearest source of such good quality seed of bean? [1] From a seed producing farmer within or nearby village [2] From an input dealer [3] Farmer organization (e.g. CSB) [99] Other, specify	**C3**. Do you have easy access to **certified seeds** of any crops? [1] Yes [2] No [88] don't know what is certified seed ***=>C7***	**C4.** Have you ever purchased certified seed of any crops? [1] Yes [2] No***=>C7***	**C5**. For which crops you have purchased *certified seed*? *List up to 3 crops* *See crop codes below*			**C6.** In your opinion what are the two main **advantages** of using certified seed *See codes to the right*	
				a. Crop 1	b. Crop 2	c. Crop 3	a. Most important	b. 2nd important

Codes for C6 and C10:

1=high germination rate
2=Uniformity in plant growth
3=less pest problems
4=less diseas problems
5=high quality grain at harvest
6=high yield
7=Easy and timely access
88=no other advantage
99=other (specify)

Codes for C5 and C9: [1] Maize [2] Beans [3] Rice [4] Pastures [5] Vegetables [99] Other (sp.) _____

C7. Do you have easy access to **Apta seeds** of any crops? [1] Yes [2] No [88] don't know what is Apta seed > C11	**C8.** Have you ever used or purchased **Apta seed** of any crops? [1] Yes [2] No >C11	**C9**. For which crops you have used or purchased *Apta seed*? *List up to 3 crops* *See crop codes above*	**C10.** In your opinion what are the two main **advantages** of using Apta seed *See codes above*	**C11.** Based on your own experience or of other farmers you know, what is your opinion about the quality of following types of **bean seeds** [1] Bad [2] Regular [3] Good/excellent [77] Don't know		
				a. Certified seed	b. Apta seed	c. Grain harvested from own farm
		| |	|			

C12. What are the **two main constraints** you face **in bean farming?** [1] Access to land [2] Labor [3] Cash constraint [4] Grain Price too low [5] Insects and diseases [6] Weather [7] No technical assistance [88] No more constraints [99] Other (sp.)		**C13**. What is the current price of bean grain if you were to sell it? **Cordobas/lb** [7777] Don't know	**C14.** Have you ever stopped using a bean variety you liked because of lack of access /availability of seed? [1] Yes [2] No	**C15.** What would be the **main reasons** you **DON'T replace** bean seed **often?** [1] Too expensive [2] Don't trust seed from outside [3] Seed not available [4] Don't see advantages of doing this [5] Seed packages too large [88] No more reasons [99] Other (sp.)		**C16.** What would be the **main reasons** you **would replace/change** your bean seed **instead of using recycled grain?** [1] When my yields are too low [2] I run out of seed [3] To test a new variety [4] My seed has too many diseases [5] When I get it for free [6] When market demands it [88] No other reasons [99] Other (sp.)	
a. First	b. Second			a. First	b. Second	a. First	b. Second

C17. In total, how much did you **spend on all the bean planting material** (seed or grain) you used for planting in 2016/2017 season? (write 0 if none) **C$_____**

NOW WE WILL TRANSITION TO THE NEXT PART OF THIS INTERVIEW…

SECTION Z: Registration sheet for answers on the Hypothetical Choice Experiment

Enumerator: Please follow the script and record the responses of the hypothetical choice experiment for this farmer in the following table

Z1. Group ID (Circle one option)			
S	**T**	**U**	**V**

Please mark the producer answer for each selection number, with an **X**

Z2	Option **A**	Option **B**	None
1	|_____|	|_____|	|_____|
2	|_____|	|_____|	|_____|
3	|_____|	|_____|	|_____|
4	|_____|	|_____|	|_____|
5	|_____|	|_____|	|_____|
6	|_____|	|_____|	|_____|
7	|_____|	|_____|	|_____|
8	|_____|	|_____|	|_____|
9	|_____|	|_____|	|_____|
10	|_____|	|_____|	|_____|
11	|_____|	|_____|	|_____|
12	|_____|	|_____|	|_____|

Group ID (Circle the Group ID used for this respondent)			
S	**T**	**U**	**V**
1	12	2	4
2	11	4	9
3	10	1	7
4	9	10	8
5	8	6	11
6	7	8	10
7	6	12	2
8	5	7	3
9	4	5	6
10	3	11	12
11	2	3	1
12	1	9	5

THANKS A LOT FOR YOUR COLLABORATION WITH THIS INTERVIEW!

X3. Producer Code :_____

Enumerator: please use this sheet to draw a map of the fields and/or write any clarification notes (make reference to the corresponding question)

If you are drawing a map, ask in this order:

1. *Shape and location of all fields (owned and rented)*
2. *Area of each field*
3. *Season when the field was used*
4. *In which fields (per season) was bean planted*
5. *Name of the bean variety and if it was intercropped or not*