V20072015 Producer's ID |__|__|-|__|__|-||__|__|

Follow-up Survey of the *Research and Support to Maize Fertilization Program (PIAFEM [for its acronym in Spanish])*

Date (dd/mm/yyyy): |__|__|-|__|__|- |__|__|__|__|	Editor's ID: |__|__|__|
Enumerator's name:	Enumerator's ID: |__|__|__|
Start time (HH:MM): |__|__|:|__|__|	Finish time (HH:MM): |__|__|:|__|__|

INFORMED CONSENT

QUÉ FUNCIONA PARA EL DESARROLLO, a non-profit organization dedicated to the evaluation of social programs is performing the evaluation phase of the Research and Support to Maize Fertilization Program (PIAFEM) for the year 2015. We would like to gather information about your farming practices, your plots and your environment. This information is strictly confidential and will only be used for statistical purposes to improve the design of the support program. Your name will not be published along with identifiable information. Your participation is voluntary and you may choose not to answer any given question.
Is it clear that you have the right to participate or not in this survey?
1. ☐ YES 2. ☐ NO -> Explain and ask again until the information is clear.

ENUMERATOR COMMENTS: _____

EDITOR COMMENTS: _____

1. PLOT AND PRODUCER'S GENERAL INFORMATION

Enumerator: please confirm the plot and producer's information

1.1. Producer's Name: **Carlos Alberto Ramirez López** (.21.68.23).	1.10. Sampled plot's name: **El Ameyal**
1.2. Alias (As known as):	1.11. Sampled plot's town: **Ejido Las Delicias, Huamantla**
1.3. Age: **45** -> Years old as of today	1.12. Sampled plot's ID: **(.21.68.23.02).**
1.4. Gender: **2 Male**	1.13. Plot's total surface: **3.5 hectares**
1.5. Address: **Las Fresas 25, Col. Guadalupe Cuauhtemoc, Humantla**	1.14. Sampled surface: **1.1 hectares**
1.6. House Reference:	
1.7. Between Streets:	
1.8. Telephone number(s): **246-4877-8784**	
1.9. Treatment: **Yes**	

I received a shovel in return

_____

Producer's signature

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2. 2015 SOIL TENDENCY

2.0 How many plots do you own by July 2015?	|__|__|__| ☐-888 DK ☐-999 DA
2.1 How many hectares in total do you own by July 2015?	|__|__|__| ☐-888 DK ☐-999 DA
2.2 How many of those hectares do you labor in the 2015 Spring-Summer cycle?	|__|__|__| ☐-888 DK ☐-999 DA
2.3 How many plots do you labor as tenant in the 2015 Spring-Summer cycle?	|__|__|__| ☐-888 DK ☐-999 DA
2.4 How many total hectares do you labor as tenant in the 2015 Spring-Summer cycle?	|__|__|__| ☐-888 DK ☐-999 DA
2.5 How many ***total hectares did you sow maize*** in as owner or tenant in 2015?	|__|__|__| ☐-888 DK ☐-999 DA
2.6 How many ***total PLOTS did you sow maize*** in as owner or tenant in 2015?	|__|__|__| ☐-888 DK ☐-999 DA

ENUMERATOR READ: I WILL NOW ASK YOU FOR THE NAMES AND MEASURES OF THE **XX** PLOTS IN WHICH YOU SOWED MAIZE IN THIS CYCLE, BEGINNING WITH THE PLOT (NAME_REGISTER ACCORDING TO COVER)

2.7 ID	2.8 PLOT'S NAME	2.9 Total surface of the plot in HA	2.10 Total surface of the plot with Maize in HA	2.11 Treatment or control plot?
1 INSC	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|	|__|__|__|.|__|	|__|__|__|.|__|	1 ☐ Treatment 2 ☐Control -777 ☐ Doesn't Practice
2	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|	|__|__|__|.|__|	|__|__|__|.|__|	1 ☐ Treatment 2 ☐ Control -777 ☐ Doesn't Practice
3	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|	|__|__|__|.|__|	|__|__|__|.|__|	1 ☐ Treatment 2 ☐ Control -777 ☐ Doesn't Practice
4	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|	|__|__|__|.|__|	|__|__|__|.|__|	1 ☐ Treatment 2 ☐ Control -777 ☐ Doesn't Practice
5	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|	|__|__|__|.|__|	|__|__|__|.|__|	1 ☐ Treatment 2 ☐ Control -777 ☐ Doesn't Practice
6	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|	|__|__|__|.|__|	|__|__|__|.|__|	1 ☐ Treatment 2 ☐ Control -777 ☐ Doesn't Practice
7	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|	|__|__|__|.|__|	|__|__|__|.|__|	1 ☐ Treatment 2 ☐ Control -777 ☐ Doesn't Practice
8	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|	|__|__|__|.|__|	|__|__|__|.|__|	1 ☐ Treatment 2 ☐ Control -777 ☐ Doesn't Practice
9	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|	|__|__|__|.|__|	|__|__|__|.|__|	1 ☐ Treatment 2 ☐ Control -777 ☐ Doesn't Practice

ENUMERATOR: IF THE TOTAL HA OF SOWED MAIZE IS MORE THAN TWO HA, THIS PLOT WILL FUNTION AS 1 TREATMENT AND 2 CONTROL. WHEN THAT PLOT HAS LESS THAN TWO HECTARES OF MAIZE, TAKE THE LAS DIGIT OF THE PRODUCER'S ID AND COUNT FROM PLOT 2 UNTIL REACHING THE NUMBER TO CHOOSE THE CONTROL PLOT FOR WHICH YOU WILL DO THE QUESTIONS FOR SECTION 2. INDICATE THE OPTIONS IN A APPROPRIATE WAY.

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3. AGRICULTURAL PRACTICES

3.0. Soil Preparation

ENUMERATOR READ: I will now ask you some questions about the trail hectare of the plot registered in the program _____ (**WRITE DOWN PLOT'S NAME**) plot's ID (_____) It is the hectare where we took a soil simple at the beginning of the year and we marked it with stakes.

3.0.1 Did you labor the plot during the 2015 Spring-Summer cycle?	☐ 1. Yes → **go to 3.0.6** ☐ 2. No
3.0.2 The person that labored the plot during the 2015 Spring-Summer cycle is male or female?	☐ 1. Male ☐ 2. Female
3.0.3 What's the name of the person that labored the plot during the 2015 Spring-Summer cycle?	
3.0.4 What age does he/she has?	|__|__| years ☐-888 DK ☐-999 DA
3.0.5 What is your relationship with the person that labored the plot?	☐ 1. Husband/Wife ☐ 4. Grandson/Granddaughter ☐ 2. Father/Mother ☐ 5. None ☐ 3. Son/Daughter ☐ 6. Other: _____

3.0.6 In the 2015 Spring-Summer cycle, did you perform soil preparation activities on your trail hectare?	3.0.7 How many times did you perform each activity? **ENUMERATOR: ENTER 0 IF AN ACTIVITY WAS NOT PERFORMED, -888 DK, -999 DA**	3.0.8 On average, how much did each activity cost? Indicate the price **per hectare** **Enter -888 DK -999 DA -777 Didn't perform this activity**	3.0.9 Did you apply any organic fertilizers or soil improvers before sowing?
☐ 1. Yes ☐ 2. No → **GO TO NEXT SECTION 3.1** ☐ -888 DK ☐ -999 DA	1. Rake/pre-fallow |__|__|__|__|__| times 2. Subsoiling |__|__|__|__|__| times 3. Fallow |__|__|__|__|__| times 4. Hoeing |__|__|__|__|__| times 5. Other 1: _____ |__|__|__|__|__| times 6. Other 2: _____ |__|__|__|__|__| times	1. Rake/pre-fallow |__|__|__|__|__| MXN/ha 2. Subsoiling |__|__|__|__|__| MXN/ha 3. Fallow |__|__|__|__|__| MXN/ha 4. Rastreo |__|__|__|__|__| MXN/ha 5. Other 1: _____ |__|__|__|__|__| MXN/ha 6. Other 2: _____ |__|__|__|__|__| MXN/ha	☐ 1. Yes ☐ 2. No → **GOTO 3.1. CROP** ☐ -888 DK ☐ -999 DA

[PRODUCT]	3.0.10 Did you apply [PRODUCT] before the 2015 Spring-Summer sowing cycle?	3.0.11 How much [PRODUCT] **per hectare** did you apply before the sowing?	3.0.12 How did you get it? ENUMERATOR CHECK ALL THAT APPLY	3.0.13 From the [R 3.0.11] bulges/kilograms that you applied, how many bulges/kilograms of [PRODUCT] did you obtain via:	3.0.14 What was the total **per hectare** cost of [PRODUCT]?
A) Organic fertilizers	☐ 1. Yes ☐2. No → **GO TO NEXT PRODUCT** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐1. From his/her animals	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha
			☐2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha
			☐3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha
			☐4 Other_____	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha
B) Soil improvers	☐ 1. Yes ☐2. No →**GO TO 3.0.15.** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha
			☐2. Government's subsidized Price purchase	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha
			☐3. Government delivery	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha
			☐4 Other_____	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha

3.0.15 How much did you spend in the organic fertilizer and/or soil improver transportation from the place of purchase to your plot?	|__|__|__|__|__| $ ☐-888 DK ☐-999 DA
3.0.16 The organic fertilizer and/or soil improver implementation was manual or mechanical?	☐1. Manual →**GO TO 3.1 SOWING** ☐2. Mechanical ☐3. Both
3.0.17 What was the <u>per hectare</u> cost of the machinery?	|__|__|__|__|__| $/ha ☐-888 DK ☐-999 DA

3.1. 2015 Sowing

3.1.1 How many furrows in total did you sow in the test hectare?	3.1.2. Indicate everything you sowed in the test hectare in the 2015 Spring-Summer cycle 1. Maize, 2. Oatmeal, 3. Wheat, 4. Barley, 5. Beans, 6. Sorghum, 7. Tomato, 8.Pumpkin, 9.Amaranth, 10.Other **(SPEC.)**	3.1.3. How many furrows did you sow from the previous crops in the 2015 Spring-Summer cycle?	3.1.4. What percentage of the test hectare occupies the crop **[CROP NAME]**? **ENUMERATOR: VERIFY THAT THE SUM OF THE COLUMN IS 100%**	3.1.5. In which way did you sow them?	3.1.6. In which date did you sow maize in the test hectare this year?	3.1.7. Did the soil was wet during the sowing?
|__|__| furrows ☐-888 DK ☐-999 DA	A.|__| _____	A.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA	☐ 1. Separated ☐ 2. Mixed ☐-777 Sowed 1 crop or didn't sow ☐-888 DK ☐-999 DA	__/__/2015 ☐-888 DK ☐-999 DA	☐ 1. Yes ☐ 2. No ☐ -888 DK ☐ -999 DA
	B.|__| _____	B.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA			
	C.|__| _____	C.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA			
	D.|__| _____	D.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA			
	E.|__| _____	E.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA			
	☐-888 DK ☐-999 DA	☐-888 DK ☐-999 DA	☐-888 DK ☐-999 DA			

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3.1.8. What type of maize seeds did you sow in the 2015 Spring-Summer cycle?	3.1.9. How many seeds did you sow per hectare? (quantity/ha)	3.1.10. How much money in total did you spend on seeds for your test hectare?	3.1.11. How did you sow? **ENUMERATOR: CHECK ALL THAT APPLY**	3.1.12. What type of machinery did you use?	3.1.13. Does the seed drill is yours or was rented?	3.1.14. How much did the machinery rental cost per hectare?	3.1.15. How much did the fuel cost per hectare?
☐1. Creole ☐2. Improved	1. Creole: |__|__|__|__| Kg/ha 2. Improved |__|__|__|__| Thousands/ha	|__|__|__|__|$ ☐-888 DK ☐-999 DA	☐1. Shovel/tapapie(plow) **→Go to 3.1.16** ☐2. Yoke ☐3. Mechanical	☐ 1. Precision ☐ 2. Semi-precision	☐1. Owned **→Go to 3.1.15** ☐2. Borrowed **→Go to 3.1.15** ☐3. Rented ☐4. Rented by QFD	|__|__|__|__| MXN/ha **→Go to 3.1.16** ☐-888 DK ☐-999 DA	|__|__|__|__| MXN/ha ☐-888 DK ☐-999 DA

3.1.16. After sowing, how many furrows did you have to re-sow in the test hectare?	3.1.17. After re-sowing, how many furrows in total remained with seeds or plants in the test hectare?	3.1.18. Indicate every crop that stayed sown after the re-sowing of the test hectare 1. Maize 2.Oatmeal 3. Wheat 4. Barley 5. Beans 6. Sorghum 7. Tomato 8. Pumpkin 9. Amaranth 10.Other(SPEC.)	3.1.19. How many furrows of the previous crops stayed sown at the end in the test hectare in the 2015 Spring-Summer cycle?	3.1.20. What percentage of the test hectare occupies the **[CROP]**? **ENUMERATOR: VERIFY THAT THE SUM OF THE COLUMN IS 100%**	3.1.21. In which way did you re-sow them?	3.1.22. In which date did you re-sow maize in the test hectare this year?
|__|__|__|__| furrows **→if he/she didn't re-sow enter -777 and go to 3.2 Sowing fertilization**	|__|__|__|__| furrows	A. |__| B. |__| C. |__| D. |__| E. |__| ☐-888 DK ☐-999 DA	A. |__| furrows ☐-888 DK ☐-999 DA B. |__| furrows ☐-888 DK ☐-999 DA C. |__| furrows ☐-888 DK ☐-999 DA D. |__| furrows ☐-888 DK ☐-999 DA E. |__| furrows ☐-888 DK ☐-999 DA ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA |__|__|__|% ☐-888 DK ☐-999 DA |__|__|__|% ☐-888 DK ☐-999 DA |__|__|__|% ☐-888 DK ☐-999 DA |__|__|__|% ☐-888 DK ☐-999 DA	☐ 1. Separated ☐ 2. Mixed ☐-777 Re-sowed 1 crop or didn't re-sow ☐-888 DK ☐-999 DA	__/__/2015 ☐-777 DA ☐-888 DK ☐-999 DA

3.2. Sowing fertilization

3.2.1 Did you apply chemical fertilizers during the sowing in your test hectare?	☐1 Yes	☐2 No → **Go to NEXT SECTION 3.3**

FILTER: ENUMERATOR: IF HE/SHE IS A CONTROL PRODUCER GO TO 3.2.6

3.2.2 Did you apply the "YARA Siembra" bundle in your test hectare?	☐1 Yes	☐2 No → **Go to 3.2.5**	
3.2.3 In which date did you apply the bundle?	___/____ /2015	☐-888 DK	☐-999 DA
3.2.4 How many kilograms of the "YARA Siembra" bundle did you apply in your test hectare?	|__|__|__| kilograms	☐-888 DK	☐-999 DA
3.2.5 Did you apply any different fertilizer from the "YARA Siembra" bundle in your test hectare?	☐1 Yes	☐2 No → **Go to 3.2.12**	

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ENUMERATOR READ: I will now ask you about the fertilizers you used in the sowing of the **test hectare**

[Fertilizer]	3.2.6 Did you use **[Fertilizer]** during sowing of the 2015 Spring-Summer cycle?	3.2.7 How much **[Fertilizer]** did you apply in sowing **per hectare**?	3.2.8 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	3.2.9 From the **[R 3.2.7]** bulges/kilograms that you applied, how many bulges/kilograms of **[PRODUCT]** did you obtain via:	3.2.10 What was the total per hectare cost of **[Fertilizer]**?	3.2.11 Brand of **[Fertilizer]** 1 Agrogen 2 Yara 3 ADM 4 FYPA 5 Other (Specify) -888 DK -999 DA
A) Urea or White	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4. Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
B) DAP or Black	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4. Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
C) KCL or Red	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4. Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
D) Triple super-phosphate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4. Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
E) Ammonium sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4. Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
F) Organic fertilizer	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4. Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____

[Fertilizer]	3.2.6 Did you use [Fertilizer] during sowing of the 2015 Spring-Summer cycle?	3.2.7 How much [Fertilizer] did you apply in sowing **per hectare**?	3.2.8 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	3.2.9 From the [R 3.2.7] bulges/kilograms that you applied, how many bulges/kilograms of [PRODUCT] did you obtain via:	3.2.10 What was the total per hectare cost of [Fertilizer]?	3.2.11 Brand of [Fertilizer] 1 Agrogen 2 Yara 3 ADM 4 FYPA 5 Other (Specify) -888 DK -999 DA
G) Other _____ (See catalogue)	☐ 1. Yes ☐2. No →**GO TO 3.2.12** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4. Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____

3.2.12 How much did you spend in the fertilizer transportation from the place of purchase to your plot?	|__|__|__|__|__| $ ☐-888 DK ☐-999 DA
3.2.13 The implementation was manual or mechanical?	☐ 1. Manual **–> Go to NEXT SECTION 3.3** ☐ 2. Mechanical ☐ 3. Both
3.2.14 What was the per hectare cost of the fertilization machinery?	|__|__|__|__| $/ha ☐-777 INCLUDED IN THE SEED DRILL ☐-888 DK ☐-999 DA

3.3. Fertilization during crop development

3.3.0.1 Without counting sowing, did you apply chemical fertilizers at least once during ***the crop development*** in the 2015 Spring-Summer cycle?	☐1 Yes ☐2 No →**Go to 3.4 HERBICIDES**
3.3.0.2 How many times did you fertilized during the crop development in the 2015 Spring-Summer cycle?	|__|__| **ENUMERATOR: YOU SHOULD FILL UP SECCTIONS 3.3.1 and 3.3.2 ACCORDING TO THE NUMBER OF FERTILIZATIONS DONE, AS APPROPIATE.**
3.3.0.3 In which date did you fertilize?	1. First (1st) fertilization after sowing Date: _____/_____/2015 2. Second (2nd) fertilization after sowing Date _____/_____/2015

3.3.1 First Fertilization after sowing

ENUMERATOR READ: I will now ask you about the fertilizers used in the first fertilization after sowing in your test plot _____

ENUMERATOR VERIFY THAT HE/SHE IS A TREATMENT PRODUCER AND ASK 3.3.1.1. IF HE/SHE IS A CONTROL PRODUCER GO TO 3.3.1.5

3.3.1.1 Did you apply any of the following YARA bundles during the first fertilization after sowing?	☐1 "YARA siembra" Bundle ☐2 "YARA 2nda dosis" Bundle ☐-777 Didn't apply any YARA Bundle→**GO TO 3.3.1.5**
3.3.1.2 In which date did you apply the YARA bundle?	___/____/2015 ☐-888 DK ☐-999 DA
3.3.1.3 How many kilograms of the YARA bundle did you apply in your test hectare?	|__|__|__| kilograms ☐-888 DK ☐-999 DA
3.3.1.4 Did you apply any fertilizer different from the YARA bundle?	☐1 Yes ☐2 No→**GO TO 3.3.1.11.**

[Fertilizer]	3.3.1.5 Did you use [Fertilizer] during the first implementation of the 2015 Spring-Summer cycle?	3.3.1.6 How much [Fertilizer] did you apply per hectare in the first implementation?	3.3.1.7 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	**3.3.1.8** From the [R 3.3.1.6] bulges/kilograms that you applied [Fertilizer], how many bulges/kilograms did you obtain for the first implementation via?	3.3.1.9 What was the total per hectare cost of [Fertilizer]?	3.3.1.10 Brand of [Fertilizer] 1 Agrogen 2 Yara 3 ADM 4 FYPA 5 Other (Specify) -888 DK -999 DA
A) Urea or	☐ 1. Yes ☐2. No →**GO**	|__|__|__|__|	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|

Whitee	**NEXT FERT.** ☐-888 DK ☐-999 DA	☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4. Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
B) DAP or Black	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4. Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
C) KCL or Red	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
D) Triple super-sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|

E) Ammonium sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
F) Other _____ (See catalogue)	☐ 1. Yes ☐2. No →**GO TO 3.3.1.9** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|

3.3.1.11 How much did you spend in the fertilizer transportation from the place of purchase to your plot?	|__|__|__|__|__| $ ☐-888 DK ☐-999 DA
3.3.1.12 The implementation was manual or mechanical?	☐ 1. Manual **-> Go to 3.3.1.14** ☐ 2. Mechanical ☐ 3. Both
3.3.1.13 What was the <u>per hectare</u> cost of the fertilization machinery?	|__|__|__|__|__| $/ha ☐-888 DK ☐-999 DA
3.3.1.14 Did you cover the fertilizer after the implementation?	☐ 1. Yes ☐ 2. No ☐ -888. DK ☐ -999. DA

3.3.2 Second Fertilization after sowing

V20072015 Producer's ID |__|__|-|__|__|-||__|__|

ENUMERATOR VERIFY THAT THE PRODUCER FERTILIZED TWO (2) TIMES AFTER SOWING AND ASK THIS SECTION. IF HE/SHE DIDN'T FERTILIZE TWO (2) TIMES GO TO 3.4 HERBICIDES

ENUMERATOR READ: I will now ask you about the fertilizers used in the second fertilization after sowing in your test plot_____

ENUMERATOR: IF HE/SHE IS A CONTROL PRODUCER GO TO 3.3.2.4

3.3.2.1 Did you apply any of the following YARA bundles during the second fertilization after sowing?	☐1 "YARA siembra" Bundle ☐2 "YARA 2nda dosis" Bundle ☐ -777 Didn't apply any YARA Bundle→**GO TO 3.3.2.5**
3.3.2.2 In which date did you apply the YARA bundle?	___/____ /2015 ☐-888 DK ☐-999 DA
3.3.2.3 How many kilograms of the YARA bundle did you apply in your test hectare?	|__|__|__| kilograms ☐-888 DK ☐-999 DA
3.3.2.4 Did you apply any different fertilizer from the YARA bundle?	☐1 Yes ☐2 No→**GO TO 3.3.2.11**

[Fertilizer]	3.3.2.5 Did you use **[Fertilizer]** during the second implementation of the 2015 Spring-Summer cycle?	3.3.2.6 How much **[Fertilizer]** did you apply per hectare in the second implementation?	3.3.2.7 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	**3.3.2.8** From the **[R 3.3.2.6]** bulges/kilograms that you applied **[Fertilizer],** how many bulges/kilograms did you obtain for the second implementation via?	3.3.2.9 What was the total per hectare cost of **[Fertilizer]**?	Brand of **[Fertilizer]** 1 Agrogen 2 Yara 3 ADM 4 FYPA 5 Other (Specify) -888 DK -999 DA
A) Urea or Withe	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
B) DAP or Black	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
C) KCL or Red	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
D) Triple super-sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
E) Ammoniu	☐ 1. Yes ☐2. No →**GO**	|__|__|__|__|	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|

m sulfate	**NEXT FERT.** ☐-888 DK ☐-999 DA	☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
F) Other _____ (See catalogue)	☐ 1. Yes ☐2. No →**GO TO 3.3.2.9** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|

3.3.2.10 How much did you spend in the fertilizer transportation from the place of purchase to your plot?	|__|__|__|__|__|__| $	☐-888 DK	☐-999 DA	
3.3.2.11 The implementation was manual or mechanical?	☐ 1. Manual →**GO TO 3.3.2.14**	☐ 2. Mechanical	☐ 3. Both	
3.3.2.12 What was the <u>per hectare</u> cost of the fertilization machinery?	|__|__|__|__|__|__| $/ha	☐-888 DK	☐-999 DA	
3.3.2.13 Did you cover the fertilizer after the implementation?	☐ 1. Yes	☐ 2. No	☐ -888. DK	☐ -999. DA

3.4. Herbicides

Enumerator. Remember to ask the next questions for the test hectare

3.4.1 Did the technician recommend to apply herbicides?	3.4.2 Did you apply herbicides in your test hectare in the 2015 Spring-Summer cycle?	3.4.3 Why **DIDN'T** you apply herbicides? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY -> GO TO 3.5 PESTICIDES**	3.4.4 Why **DID** you apply herbicides? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	3.4.5 What differences did you notice in your test hectare due to the use of herbicides?
☐1. Yes ☐2. No ☐ -777 Didn't have a technician ☐ -888 DK ☐ -999 DA	☐1. Yes **-> GO TO 3.4.4** ☐2. No ☐ -888 DK ☐ -999 DA	☐1. Because he/she thinks they are harmful to the soil ☐2. Because he/she thinks they are harmful to the crop ☐3. Because he/she didn't have money ☐4. Because the herbicides seemed too expensive ☐5. Because he/she doesn't trust in herbicides ☐6. Because he/she pulled out the weeds manually ☐7. Because he/she didn't have time to apply it ☐8. Other _____.	☐1. Because the technician convinced he/she of the importance of doing it ☐2. Because he/she always use them ☐3. Because he/she wanted to try it ☐4. Because weed competes with the plant ☐5. Because is cheaper than doing it manually ☐6. To increase productivity ☐7. Because weed consumes the fertilizer ☐8. Other _____	☐1. The plant laid down ☐2. Leaves turned yellow ☐3. Decreased the amount of weed ☐4. Other_____ ☐5. None

3.4.6 How many times did you apply herbicides in the hectare?	3.4.7 Implementation	3.4.8 In which date did you apply the herbicides?	3.4.9 Which herbicide did you apply? **See catalogue**	3.4.10 How much did you apply per hectare?	3.4.11 Units	3.4.12 How much did the purchase of the herbicides cost per hectare?	3.4.13 How much did the water transportation and the workforce for this implication cost?
|_____| times ☐ -888 DK ☐ -999 DA	1st implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	
	2nd implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	
	3rd implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	

3.5. Pesticides

Enumerator. Remember to ask the next questions for the test hectare

3.5.1 Did the technician recommend to apply pesticides?	3.5.2 Did you apply pesticides in your test hectare in the 2015 Spring-Summer cycle?	3.5.3 Why **DIDN'T** you apply pesticides? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY** **-> GO TO 3.6 FOLIAR FERTILIZERS**	3.4.14 Why **DID** you apply pesticides? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	3.5.4 What differences did you notice in your test hectare due to the use of pesticides?
☐1. Yes ☐2. No ☐ -777 Didn't have a technician ☐ -888 DK ☐ -999 DA	☐1. Yes **-> GO TO 3.5.4** ☐2. No ☐ -888 DK ☐ -999 DA	☐1. Because he/she thinks they are harmful to the soil ☐2. Because he/she thinks they are harmful to the crop ☐3. Because he/she didn´t have money ☐4. Because the pesticides seemed too expensive ☐5. Because he/she doesn't trust in pesticides ☐6. Because he/she didn't have time to apply it ☐7. Because he/she didn't witness any plague ☐8. Other _____.	☐1. Because the technician convinced he/she of the importance of doing it ☐2. Because he/she always use them ☐3. Because he/she wanted to try it ☐4. Because he/she had problems with insects ☐5. Because he/she had problems with moles ☐6. To increase productivity ☐7. Other _____	☐1. The plant laid down ☐2. Leaves turned yellow ☐3. Leaves rolled up ☐4. Decreased the amount of plague ☐5. Less damaged Leaves ☐6. Increased the amount of Leaves ☐7. Other_____☐8. None

3.5.5 How many times did you apply pesticides in the hectare?	3.5.6 Implementation	3.5.7 In which date did you apply the pesticides?	3.5.8 Which pesticides did you apply? **See catalogue**	3.5.9 How much did you apply per hectare?	3.5.10 Units	3.5.11 How much did the purchase of the pesticides cost per hectare?	3.5.12 How much did the water transportation and the workforce for this implication cost?
|_____| times ☐ -888 DK ☐ -999 DA	1st implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	
	2nd implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	
	3rd implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	

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3.6. Foliar fertilizers

Enumerator. Remember to ask the next questions for the test hectare

3.6.1 Did the technician recommend to apply foliar fertilizers?	3.6.2 Did you apply foliar fertilizers in your test hectare in the 2015 Spring-Summer cycle?	3.6.3 Why **DIDN'T** you apply foliar fertilizers? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY-> GO TO 3.7 LABOR**	3.6.4 Why **DID** you apply foliar fertilizers? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	3.6.5 What differences did you notice in your test hectare due to the use of foliar fertilizers?
☐1. Yes ☐2. No ☐ -777 Didn't have a technician ☐ -888 DK ☐ -999 DA	☐1. Yes **-> GO TO 3.6.4** ☐2. No ☐ -888 DK ☐ -999 DA	☐1. Because he/she thinks they are harmful to the soil ☐2. Because he/she thinks they are harmful to the crop ☐3. Because he/she didn't have money ☐4. Because the foliar fertilizers seemed too expensive ☐5. Because he/she doesn't trust in foliar fertilizers ☐6. Because he/she didn't have time to apply it ☐7. Because he/she didn't have any deficiency ☐8. Other _____.	☐1. Because the technician convinced he/she of the importance of doing it ☐2. Because he/she always use them ☐3. Because he/she wanted to try it ☐4. Because he/she had deficiencies with micronutrients ☐5. Because he/she had deficiencies with macronutrients ☐6. To increase productivity ☐7. Other _____	☐1. Plant is taller ☐2. Stalk of the plant is thicker ☐3. Leaf of the plant is thicker ☐4. Oher_____ ☐5. None

3.6.6 How many times did you apply foliar fertilizers in the hectare?	3.6.7 Implementation	3.6.8 In which date did you apply the foliar fertilizers?	3.6.9 Which foliar fertilizers did you apply? **See catalogue**	3.6.10 How much did you apply per hectare?	3.6.11 Units	3.6.12 How much did the purchase of the foliar fertilizers cost per hectare?	3.6.13 How much did the water transportation and the workforce for this implication cost?
|_____| times ☐-888 DK ☐-999 DA	1st implementation	__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	|__|__|__|$ ☐-888 DK ☐-999 DA
		__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	
	2nd implementation	__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	|__|__|__|$ ☐-888 DK ☐-999 DA
		__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	
	3rd implementation	__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	|__|__|__|$ ☐-888 DK ☐-999 DA
		__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	

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3.7. Labor

ENUMERATOR READ: Now I will ask you to think about all the tasks that you did in your test hectare of the plot **[NAME]** _____ in the 2015 Spring-Summer cycle and tell me how much time and labor it took to perform them.

3.7.1 Including yourself, how many people worked in the tasks related to soil preparation?	3.7.2 Including yourself, how many people worked in the tasks related to sowing?	3.7.3 Including yourself, how many people worked in the tasks related to the first hoeing?	3.7.4 Including yourself, how many people worked in the tasks related to the second hoeing?	3.7.5 Including yourself, how many people worked in the implementation of insecticides, herbicides or foliar fertilizers?	**3.7.6** Including yourself, how many people worked in the tasks related to weeding?	3.7.7 **ENUMERATOR REGISTER THE TOTAL NUMBER OF WORKERS** (ADD 3.7.1 to la 3.7.5) THIS TOTAL MUST MATCH THE NUMBER OF ACTIVITIES CHECKED IN QUESTION 3.7.8
|__|__|	|__|__|	|__|__|	|__|__|	|__|__|		|__|__|

NAME	3.7.8 In which stages of the process did the worker **[NAME]** participated? **[ACTIVITY]**	3.7.9 How many days did this person work during the **[ACTIVITY/IES]**?	3.7.10 What was the average per day payment for **[NAME]**? **ENUMERATOR ENTER -666 IF THE PAYMNET WAS INCLUDED IN THE MACHINERY RENTAL** **-777 IF DIDN'T PAY HIM/HER**	3.7.11 Is **[NAME]** a relative or a day laborer?
PRODUCER	☐ 1. Soil preparation	|__|__|	|__|__|__|$	
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	
WORKER 1 _____	☐ 1. Soil preparation	|__|__|	|__|__|__|$	☐ 1. Relative ☐ 2. Unrelated worker
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	
WORKER 2 _____	☐ 1. Soil preparation	|__|__|	|__|__|__|$	☐ 1. Relative ☐ 2. Unrelated worker
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	
WORKER 3 _____	☐ 1. Soil preparation	|__|__|	|__|__|__|$	☐ 1. Relative ☐ 2. Unrelated worker
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	
WORKER 4 _____	☐ 1. Soil preparation	|__|__|	|__|__|__|$	☐ 1. Relative ☐ 2. Unrelated worker
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	

NAME	3.7.8 In which stages of the process did the worker **[NAME]** participated? **[ACTIVITY]**	3.7.9 How many days did this person work during the **[ACTIVITY/IES]**?	3.7.10 What was the average per day payment for **[NAME]**? **ENUMERATOR ENTER -666 IF THE PAYMNET WAS INCLUDED IN THE MACHINERY RENTAL** **-777 IF DIDN'T PAY HIM/HER**	3.7.11 Is **[NAME]** a relative or a day laborer?
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	
WORKER 5 _____	☐ 1. Soil preparation	|__|__|	|__|__|__|$	☐ 1. Relative ☐ 2. Unrelated worker
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	
WORKER 6 _____	☐ 1. Soil preparation	|__|__|	|__|__|__|$	☐ 1. Relative ☐ 2. Unrelated worker
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	
WORKER 7 _____	☐ 1. Soil preparation	|__|__|	|__|__|__|$	☐ 1. Relative ☐ 2. Unrelated worker
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	
WORKER 8 _____	☐ 1. Soil preparation	|__|__|	|__|__|__|$	☐ 1. Relative ☐ 2. Unrelated worker
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	
WORKER 9 _____ _	☐ 1. Soil preparation	|__|__|	|__|__|__|$	☐ 1. Relative ☐ 2. Unrelated worker
	☐ 2. Sowing	|__|__|	|__|__|__|$	
	☐ 3. First hoeing	|__|__|	|__|__|__|$	
	☐ 4. Second hoeing	|__|__|	|__|__|__|$	
	☐ 5. Implementation of insecticides, herbicides or foliar fertilizers	|__|__|	|__|__|__|$	
	☐ 6. Weeding	|__|__|	|__|__|__|$	

3.8. Disasters

ENUMERATOR READ: I will now ask you about disasters that your plot _____ suffered in the 2015 Spring-Summer cycle.

3.8.1 After this year's sowing, did your plot suffer any disaster?	3.8.2 Which disaster did it suffer? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	3.8.3 How many times did the disaster happen?	3.8.4 In which dates did the disaster happen?
☐ 1. Yes ☐ 2. No → **Go to NEXT SECTION 3.9**	☐1. Hail ☐2. Drought ☐3. Flood ☐4. Frost ☐5. Fire ☐6. Other:_____	☐1. Hail: |__|times ☐2. Drought: |__|times ☐3. Flood: |__|times ☐4. Frost: |__|times ☐5. Fire: |__|times ☐6. Other: |__|time	☐1. Hail: A. |__|__/|__|__|/2015 B. |__|__/|__|__|/2015 C. |__|__/|__|__|/2015 ☐2. Drought: A. |__|__/|__|__|/2015 B .|__|__/|__|__|/2015 C. |__|__/|__|__|/2015 ☐3. Flood: A. |__|__/|__|__|/2015 B. |__|__/|__|__|/2015 C. |__|__/|__|__|/2015 ☐4. Frost: A. |__|__/|__|__|/2015 B. |__|__/|__|__|/2015 C. |__|__/|__|__|/2015 ☐5. Fire: A. |__|__/|__|__|/2015 B. |__|__/|__|__|/2015 C. |__|__/|__|__|/2015 ☐6. Other: A. |__|__/|__|__|/2015 B. |__|__/|__|__|/2015 C.|__|__/|__|__|/2015

3.9. Agricultural Practices in the control plot

3.9.0 Adoption of Practices in the rest of the plot REGISTERED IN THE program

ENUMERATOR READ: IN THE REST OF THE HECTARES OF THE PLOT REGISTERED IN THE PROGRAM (WITHOUT COUNTING THE TEST AREA) performed any of the following practices:

3.9.0.1 Did you perform soil analysis in the rest of the plot _____?	3.9.0.2 Did you receive technical assistance for the rest of your plot?	3.9.0.3 Did you perform the sowing with precision machinery in the rest of your plot?	3.9.0.4 Did you fertilize the sowing?	3.9.0.5 Did you use Yara fertilizers in sowing?	3.9.0.6 Did you follow the recommendations of QFD about the fertilizers quantities for sowing?	3.9.0.7 Did you use sealant herbicides in the week prior sowing?	3.9.0.8 How many times did you fertilize the rest of your plot after sowing?	3.9.0.9 Did you use Yara fertilizers after sowing?	3.9.0.10 Did you follow the recommendations of QFD about the fertilizers quantities after sowing?	3.9.0.11 How many times did you apply herbicides after sowing?
☐ 1. Yes ☐ 2. No ☐ 3. -777 the test plot only measures 1 ha GO TO NEXT SECT ☐ 4. -666 Sowed another crop in the rest of the plot GO TO NEXT SECT	☐ 1. Yes ☐ 2. No	☐ 1. Yes ☐ 2. No	☐ 1. Yes ☐ 2. No → **Go to 3.9.0.7**	☐ 1. Yes ☐ 2. No	☐ 1. Yes ☐ 2. No ☐ -777. Didn't receive the recommendations	☐ 1. Yes ☐ 2. No	|__| times →**If he/she didn't fertilize Go to 3.9.0.11**	☐ 1. Yes ☐ 2. No	☐ 1. Yes ☐ 2. No	|__| times

ENUMERATOR IF THE TREATMENT PLOT HAS MORE THAN TWO HECTARES WRITE DOWN THE NAME AND ID AS IN PAGE 2 AND CONTINUE WITH SECTION 3.9.1.,
IF THE PLOT HAS LESS THAN TWO HECTARES AND HAS TO REPLACE IT, WRITE DOWN THE COMPARATION PLOT INFORMATION AND READ: I will now ask you about the agricultural practices in the 2015 Spring-Summer cycle IN THE PLOT (CONTROL PLOT'S NAME – AS IN SECTION 2) that didn't register in the PIAFEM program

3.9.0.12 CONTROL PLOT'S ID: __|__|
3.9.0.13 CONTROL PLOT'S NAME __|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|

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3.9.1. Soil Preparation

ENUMERATOR FILL OUT ACCORDING TO PREVIOUS SECTION

3.9.1.1 Indicate about which plot the following questions will be	☐ 1. Rest of the plot: ☐2. Replacement plot

ENUMERATOR READ: I will now ask you about the agricultural practices in the 2015 Spring-Summer cycle in _____

3.9.1.2 In the 2015 Spring-Summer cycle, did you perform soil preparation activities?	3.9.1.3 How many times did you perform each activity? **ENCUESTADOR: ENTER 0 IF AN ACTIVITY WAS NOT PERFORMED, -888 DK, -999 DA**	3.9.2 On average, how much did each activity cost? Indicate the price **per hectare** **ENTER -888 DK -999 DA -777 Didn't perform this activity**	3.9.2.1 Did you apply any organic fertilizers or soil improvers before sowing?
☐ 1. Yes ☐ 2. No →**Go to 3.9.1.5** ☐ -888 DK ☐ -999 DA	1. Rake/pre-fallow |__|__|__|__|__| times 2. Subsoiling |__|__|__|__|__| times 3. Fallow |__|__|__|__|__| times 4. Hoeing |__|__|__|__|__| times 5. Other 1: _____ |__|__|__|__|__| times 6. Other 2: _____ |__|__|__|__|__| times	1. Rake/pre-fallow |__|__|__|__|__|MXN/ha 2. Subsoiling |__|__|__|__|__|MXN/ha 3. Fallow |__|__|__|__|__|MXN/ha 4. Hoeing |__|__|__|__|__|MXN/ha 5. Other 1: _____ |__|__|__|__|__|MXN/ha 6. Other 2: _____ |__|__|__|__|__|MXN/ha	☐ 1. Yes ☐ 2. No → **go to 3.9.2 Sowing** ☐ -888 DK ☐ -999 DA

[PRODUCT]	3.9.2.2 Did you apply **[PRODUCT]** before the 2015 Spring-Summer sowing cycle?	3.9.2.3 How much **[PRODUCT] per hectare** did you apply before the sowing?	3.9.2.4 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	3.9.2.5 From the **[R 3.9.1.7]** bulges/kilograms that you applied. How many bulges/kilograms of **[PRODUCT]** did you obtain via:	3.9.2.6 What was the total **per hectare** cost of **[PRODUCT]**?
A) Organic fertilizers	☐ 1. Yes ☐2. No →**GO TO NEXT PRODUCT** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐1. From his/her animals	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $/ha
			☐2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $/ha
			☐3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $/ha
			☐4. Other_____	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $/ha
B) Soil improvers	☐ 1. Yes ☐2. No →**GO TO 3.9.1.11** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $/ha
			☐2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $/ha
			☐3. Government delivery	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $/ha
			☐4 Other_____	|__|__|__|__| ☐ 1. Kg ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $/ha
3.9.2.7 How much did you spend in the organic fertilizer and/or soil improver transportation from the place of purchase to your plot?				|__|__|__|__|__| $ ☐-888 DK ☐-999 DA	
3.9.2.8 The implementation was manual or mechanical?				☐ 1. Manual -**> go to 3.9.2 Sowing** ☐ 2. Mechanical ☐ 3. Both	
3.9.2.9 What was the per hectare cost of the machinery?				|__|__|__|__|__| $ ☐-888 DK ☐-999 DA	

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3.9.2. 2015 Sowing

3.9.2.1 How many furrows in total did you sow in the other hectare?	3.9.2.2 Indicate everything you sowed in this plot in the 2015 Spring-Summer cycle		3.9.2.3 How many furrows did you sow from the previous crops in the 2015 Spring-Summer cycle?	3.9.2.4 What percentage of the plot occupies the crop **[NAME]?** **ENUMERATOR: VERIFY THAT THE SUM OF THE COLUMN IS 100%**	3.9.2.5 In which way did you sow them?	3.9.2.6 In which date did you sow maize in your plot this year?	3.9.2.7 Did the soil was wet during the sowing?
	1. Maize 2.Oatmeal 3. Wheat 4. Barley 5. Beans	6. Sorghum 7. Tomato 8.Pumpkin 9.Amaranth 10.Other **(SPECIFY)**					
|__|__| furrows ☐-888 DK ☐-999 DA	A.|__| _____	A.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA	☐ 1. Separated ☐ 2. Mixed ☐-777 Sowed 1 crop or didn't sow ☐-888 DK ☐-999 DA	__/__/2015 ☐-888 DK ☐-999 DA	☐ 1. Yes ☐ 2. No ☐ -888 DK ☐ -999 DA
	B.|__| _____	B.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA			
	C.|__| _____	C.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA			
	D.|__| _____	D.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA			
	E.|__| _____	E.|__|__| furrows ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA			
	☐-888 DK ☐-999 DA		☐-888 DK ☐-999 DA	☐-888 DK ☐-999 DA			

3.9.2.8 What type of maize seeds did you sow in the 2015 cycle?	3.9.2.9 How many seeds did you sow per hectare?	3.9.2.10 How much money in total did you spend on seeds for this plot?	3.9.2.11 How did you sow? **ENUMERATOR: CHECK ALL THAT APPLY**	3.9.2.12 What type of machinery did you use?	3.9.2.13 Does the seed drill is yours or was rented?	3.9.2.14 How much did the machinery rental cost per hectare?	3.9.2.15 How much did the fuel cost per hectare?
☐1. Creoles	1. Creole: |__|__|__|__| Kg/ha	|__|__|__|__|$	☐ 1. Shovel/tapapie →**Go to 3.9.2.16** ☐ 2. Yoke ☐ 3. Mechanical	☐ 1. Precision ☐ 2. Semi-precision	☐ 1. Owned→**Go to 3.9.2.15** ☐2. Borrowed →**Go to 3.9.2.15** ☐3. Rented ☐4. Rented by QFD	|__|__|__|__| MXN/ha →**Go to 3.9.2.16**	|__|__|__|__| MXN/ha
☐2. Improved	2. Improved |__|__|__|__| Thousands/ha						

3.9.2.16 After sowing, how many furrows did you have to re-sow in the plot?	3.9.2.17 After re-sowing, how many furrows in total remained with seeds or plants in the plot?	3.9.2.18 Indicate every crop that stayed sown after the re-sowing of the plot 1. Maize 2.Oatmeal 3. Wheat 4. Barley 5. Beans 6. Sorghum 7. Tomato 8.Pumpkin 9.Other (SPEC.)	3.9.2.19 How many furrows of the previous crops stayed sown at the end in the 2015 Spring-Summer cycle??	3.9.2.20 What percentage of the plot occupies the **[CROP]**? **ENUMERATOR: VERIFY THAT THE SUM OF THE COLUMN IS 100%**	3.9.2.21 In which way did you re-sow them?	3.9.2.22 In which date did you re-sow maize in the test hectare this year?
|__|__|__|__| furrows **→if he/she didn't re-sow enter -777 and go to 3.9.3 Sowing fertilization**	|__|__|__|__| furrows	A. |__| B. |__| C. |__| D. |__| E. |__| ☐-888 DK ☐-999 DA	A. |__| furrows ☐-888 DK ☐-999 DA B. |__| furrows ☐-888 DK ☐-999 DA C. |__| furrows ☐-888 DK ☐-999 DA D. |__| furrows ☐-888 DK ☐-999 DA E. |__| furrows ☐-888 DK ☐-999 DA ☐-888 DK ☐-999 DA	|__|__|__|% ☐-888 DK ☐-999 DA |__|__|__|% ☐-888 DK ☐-999 DA |__|__|__|% ☐-888 DK ☐-999 DA |__|__|__|% ☐-888 DK ☐-999 DA |__|__|__|% ☐-888 DK ☐-999 DA	☐ 1. Separated ☐ 2. Mixed ☐-777 Sowed 1 crop or didn't sow ☐-888 DK ☐-999 DA	__/__/2015 ☐-777 NA ☐-888 DK ☐-999 DA

3.9.3. Sowing fertilization

ENUMERATOR READ: I will now ask you about the fertilizers you used in the sowing of _____

3.9.3.1 Did you apply chemical fertilizers during the sowing?	☐1 Yes ☐2 No→ **Go to NEXT SECTION 3.9.4**

FILTER: ENUMERATOR: IF HE/SHE IS A CONTROL PRODUCER GO TO 3.9.3.6

3.9.3.2 Did you apply the "YARA Siembra" bundle?	☐1 Yes ☐2 No → **Go to 3.9.3.6**
3.9.3.3 In which date did you apply the bundle?	___/____ /2015 ☐-888 DK ☐-999 DA
3.9.3.4 How many kilograms of the "YARA Siembra" bundle did you apply?	|__|__|__| kilos ☐-888 DK ☐-999 DA
3.9.3.5 Did you apply any fertilizer different from the "YARA Siembra" bundle?	☐1 Yes ☐2 No → **Go to NEXT SECTION 3.9.4**

[Fertilizer]	3.9.3.6 Did you use **[Fertilizer]** during sowing of the 2015 Spring-Summer cycle?	3.9.3.7 How much **[Fertilizer]** did you apply in sowing per hectare?	3.9.3.8 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	3.9.3.9 From the **[R 3.9.3.7]** bulges/kilograms that you applied, how many bulges/kilograms of **[PRODUCT]** did you obtain via?	3.9.3.10 What was the total **per hectare** cost of **[Fertilizer]**?	3.9.3.11 Brand of Fertilizer 1 Agrogen 2 Yara 3 ADM 4 FYPA 5 Other (Specify) -888 DK -999 DA
A) Urea or Withe	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price ☐ 2. Government's subsidized price purchase ☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B |__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B |__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha |__|__|__|__| $/ha |__|__|__|__| $/ha	|__|_____ |__|_____ |__|_____

[Fertilizer]	3.9.3.6 Did you use **[Fertilizer]** during sowing of the 2015 Spring-Summer cycle?	3.9.3.7 How much **[Fertilizer]** did you apply in sowing per hectare?	3.9.3.8 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	3.9.3.9 From the **[R 3.9.3.7]** bulges/kilograms that you applied, how many bulges/kilograms of **[PRODUCT]** did you obtain via?	3.9.3.10 What was the total **per hectare** cost of **[Fertilizer]**?	3.9.3.11 Brand of Fertilizer 1 Agrogen 2 Yara 3 ADM 4 FYPA 5 Other (Specify) -888 DK -999 DA
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha	|__|_____
B) DAP or Black	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha	|__|_____
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha	|__|_____
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha	|__|_____
C) KCL or Red	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha	|__|_____
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha	|__|_____
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $/ha	|__|_____
D) Triple super-sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase.	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
E) Ammonium sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase.	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
F) Organic fertilizer	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase.	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
G) Other _____ (See catalogue)	☐ 1. Yes ☐2. No →**GO TO 3.10.3.8** ☐-888 DK ☐-999 DA	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 2. Government's subsidized price purchase.	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____

[Fertilizer]	3.9.3.6 Did you use **[Fertilizer]** during sowing of the 2015 Spring-Summer cycle?	3.9.3.7 How much **[Fertilizer]** did you apply in sowing per hectare?	3.9.3.8 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	3.9.3.9 From the **[R 3.9.3.7]** bulges/kilograms that you applied, how many bulges/kilograms of **[PRODUCT]** did you obtain via?	3.9.3.10 What was the total **per hectare** cost of **[Fertilizer]**?	3.9.3.11 Brand of Fertilizer 1 Agrogen 2 Yara 3 ADM 4 FYPA 5 Other (Specify) -888 DK -999 DA
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|_____

3.9.3.12 How much did you spend in the fertilizer transportation from the place of purchase to your plot?	|__|__|__|__|__|__| $ ☐-888 DK ☐-999 DA
3.9.3.13 The implementation was manual or mechanical?	☐ 1. Manual **–> Go to NEXT SECTION 3.9.4** ☐ 2. Mechanical ☐ 3. Both
3.9.3.14 What was the <u>per hectare</u> cost of the machinery?	|__|__|__|__|__|__| $/ha ☐-777 INCLUDED IN THE SEED DRILL ☐-888 DK ☐-999 DA

3.9.4. Fertilization during crop development

3.9.4.0.1 Without counting sowing, did you apply chemical fertilizers at least once during ***the crop development*** in the 2015 Spring-Summer cycle?	☐1 Yes ☐2 No →**GO TO 3.9.4.3 HERBICIDES**
3.9.4.0.2 How many times did you fertilized during the crop development in the 2015 Spring-Summer cycle?	|__|__| **ENUMERATOR: YOU SHOULD FILL UP SECTIONS 3.9.4.1 and 3.9.4.2 ACCORDING TO THE NUMBER OF FERTILIZATIONS DONE, AS APPROPIATE.**
3.9.4.0.3 In which dates did you fertilize?	1. First (1st) fertilization after sowing Date: _____/_____/2015 2. Second (2nd) fertilization after sowing Date: _____/_____/2015

3.9.4.1. First Fertilization after sowing

ENUMERATOR READ: I will now ask you about the fertilizers used in the first fertilization after sowing in your test plot _____

ENUMERATOR VERIFY THAT HE/SHE IS A TREATMENT PRODUCER AND ASK 3.9.4.1.1. IF HE/SHE IS A CONTROL PRODUCER GO TO A 3.9.4.1.5

3.9.4.1.1 Did you apply any of the following YARA bundles during the first fertilization after sowing?	☐1 "YARA siembra" Bundle ☐2 "YARA 2nda dosis" Bundle ☐-777 Didn't apply any YARA Bundle→**GO TO 3.9.4.1.5**
3.9.4.1.2 In which date did you apply the bundle?	___/____ /2015 ☐-888 DK ☐-999 DA
3.9.4.1.3 How many kilograms of the YARA bundle did you apply?	|__|__|__| kilograms ☐-888 DK ☐-999 DA
3.9.4.1.4 Did you apply any different fertilizer from the YARA bundle?	☐1 Yes ☐2 No→**GO TO 3.9.4.1.11.**

[Fertilizer]	3.9.4.1.5 Did you use **[Fertilizer]** during the first implementation of the 2015 Spring-Summer cycle?	3.9.4.1.6 How much **[Fertilizer]** did you apply <u>per hectare</u> in the first implementation?	3.9.4.1.7 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	**3.9.4.1.8** From the **[R 3.9.4.1.6]** bulges/kilograms that you applied **[Fertilizer]**, how many bulges/kilograms did you obtain via?	3.9.4.1.9 What was the total <u>per hectare</u> cost of **[Fertilizer]**?	3.9.4.1.10 Brand of **[Fertilizer]**? 1 Agrogen 2 Yara 3 ADM 4 FYPA 5 Other (Specify) -888 DK -999 DA
A) Urea or Withe	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK	|__|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge	☐ 1 Purchased from distributor at normal price	|__|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|

	☐-999 DA	☐ 3. 50 kg Bulge	☐ 3 Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
B) DAP or Black	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1 Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3 Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
C) KCL or Red	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1 Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3 Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
D) Triple super-sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1 Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3 Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
E) Ammonium sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1 Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3 Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
F) Other _____ (See catalogue)	☐ 1. Yes ☐2. No →**GO TO 3.10.4.1.7** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1 Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3 Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|

3.9.4.1.11 How much did you spend in the fertilizer transportation from the place of purchase to your plot?	|__|__|__|__|__|__| $ ☐-888 DK ☐-999 DA
3.9.4.1.12 The implementation was manual or mechanical?	☐ 1. Manual **-> Go to 3.9.4.1.14** ☐ 2. Mechanical ☐ 3. Both
3.9.4.1.13 What was the <u>per hectare</u> cost of the fertilization machinery?	|__|__|__|__|__|__| $/ha ☐-888 DK ☐-999 DA
3.9.4.1.14 Did you cover the fertilizer after the implementation?	☐ 1. Yes ☐ 2. No ☐ -888. DK ☐ -999. DA

3.9.4.2. Second Fertilization after sowing

ENUMERATOR VERIFY THAT THE PRODUCER FERTILIZED TWO (2) TIMES AFTER SOWING AND ASK THIS SECTION. IF HE/SHE DIDN'T FERTILIZE TWO (2) TIMES GO TO 3.9.4.3 HERBICIDES

ENUMERATOR READ: I will now ask you about the fertilizers used in the second fertilization after sowing in your plot _____

V20072015 Producer's ID |__|__|-|__|__|-||__|__|

ENUMERATOR IF HE/SHE IS A CONTROL PRODUCER GO TO 3.9.4.2.5

3.9.4.2.1 Did you apply any of the following YARA bundles during the second fertilization after sowing?	☐1 "YARA siembra" Bundle ☐2 "YARA 2nda dosis" Bundle ☐-777 Didn't apply any YARA Bundle→**GO TO 3.9.4.2.5**
3.9.4.2.2 In which date did you apply the bundle?	___/____ /2015 ☐-888 DK ☐-999 DA
3.9.4.2.3 How many kilograms of the YARA bundle did you apply?	|__|__|__| kilograms ☐-888 DK ☐-999 DA
3.9.4.2.4 Did you apply any different fertilizer from the YARA bundle?	☐1 Yes ☐2 No→**GO TO 3.9.4.2.11.**

[Fertilizer]	3.9.4.2.5 Did you use **[Fertilizer]** during the second implementation of the 2015 Spring-Summer cycle?	3.9.4.2.6 How much **[Fertilizer]** did you apply per hectare in the second implementation?	3.9.4.2.7 How did you get it? **ENUMERATOR CHECK ALL THAT APPLY**	**3.9.4.2.8** From the **[R. 3.9.4.2.7]** bulges/kilograms that you applied **[Fertilizer]**, how many bulges/kilograms did you obtain via?	3.9.4.2.9 What was the total per hectare cost of **[Fertilizer]**?	3.9.4.2.10 Brand of **[Fertilizer]**? 1 Agrogen 2 Yara 3 ADM 4 FYPA 5 Other (Specify) -888 DK -999 DA
A) Urea or Withe	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
B) DAP or Black	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
C) KCL or Red	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
D) Triple super-sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
E) Ammonium sulfate	☐ 1. Yes ☐2. No →**GO NEXT FERT.** ☐-888 DK ☐-999 DA	|__|__|__|__| ☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 2. Government's subsidized price purchase	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|
F) Other	☐ 1. Yes ☐2. No →**GO**	|__|__|__|__|	☐ 1. Purchased from distributor at normal price	|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__| $	|__|

_____ (See catalogue)	**TO 3.10.4.2.7** ☐-888 DK ☐-999 DA	☐ 1. Kg ☐ 2. 25 kg Bulge ☐ 3. 50 kg Bulge	☐ 2. Government's subsidized price purchase	|__|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $	|__|
			☐ 3. Government fertilizers delivery	|__|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $	|__|
			☐ 4 Other_____	|__|__|__|__|__| ☐ 1. Kg/ha ☐ 2. 25kg B ☐ 3. 50kg B	|__|__|__|__|__| $	|__|

3.9.4.2.11 How much did you spend in the fertilizer transportation from the place of purchase to your plot?	|__|__|__|__|__|__| $ ☐-888 DK ☐-999 DA
3.9.4.2.12 The implementation was manual or mechanical?	☐ 1. Manual →**GO TO 3.9.4.2.14** ☐ 2. Mechanical ☐ 3. Both
3.9.4.2.13 What was the per hectare cost of the fertilization machinery?	|__|__|__|__|__|__| $/ha ☐-888 DK ☐-999 DA
3.9.4.2.14 Did you cover the fertilizer after the implementation?	☐ 1. Yes ☐ 2. No ☐ -888. DK ☐ -999. DA

3.9.4.3. Herbicides

Enumerator. Remember to ask the next questions for the control plot

3.9.4.3.1 Did the technician recommend to apply herbicides?	3.9.4.3.2 Did you apply herbicides in the hectare in the 2015 Spring-Summer cycle?	3.9.4.3.3 Why **DIDN'T** you apply herbicides? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY** **-> GO TO 3.9.4.4 PESTICIDES**	3.9.4.3.4 Why **DID** you apply herbicides? **ENUMERATOR LISTEN AND CHEK ALL THAT APPLY**	3.9.4.3.5 What differences did you notice in your other hectare due to the use of herbicides?
☐1. Yes ☐2. No ☐ -777 Didn't have a technician ☐ -888 DK ☐ -999 DA	☐1. Yes **-> GO TO 3.9.4.3.4** ☐2. No ☐ -888 DK ☐ -999 DA	☐1. Because he/she thinks that they're harmful to the soil ☐2. Because he/she thinks they are harmful to the crop ☐3. Because he/she didn't have money ☐4. Because the herbicides seemed too expensive ☐5. Because he/she doesn't trust in herbicides ☐6. Because he/she pulled out the weeds manually ☐7. Because he/she didn't have time to apply it ☐8. Other _____.	☐1. Because the technician convinced he/she of the importance of doing it ☐2. Because he/she always use them ☐3. Because he/she wanted to try it ☐4. Because weed competes with the plant ☐5. Because is cheaper than doing it manually ☐6. To increase productivity ☐7. Because weed consumes the fertilizer ☐8. Other _____	☐1. The plant laid down ☐2. Leaves turned yellow ☐3. Decreased the amount of weed ☐4. Other_____ ☐5. None

3.9.4.3.6 How many times did you apply herbicides in the hectare?	3.9.4.3.7 Imple mentation	3.9.4.3.8 In which date did you apply the herbicides?	3.9.4.3.9 Which herbicide did you apply? **See catalogue**	3.9.4.3.10 How much did you apply per hectare?	3.9.4.3.11 Unit s	3.9.4.3.12 How much did the purchase of the herbicides cost per hectare?	3.9.4.3.13 How much did the water transportation and the workforce for this implication cost?
|_____| times ☐ -888 DK ☐ -999 DA	1st implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	
	2nd implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	
	3rd implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	

3.9.4.4. Pesticides

Enumerator. Remember to ask the next questions for the control plot

3.9.4.4.1 Did the technician recommend to apply pesticides?	3.9.4.4.2 Did you apply pesticides in the hectare in the 2015 Spring-Summer cycle?	3.9.4.4.3 Why **DIDN'T** you apply pesticides? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY** **-> GO TO 3.9.4.5 FOLIAR FERTILIZERS**	3.9.4.4.4 Why **DID** you apply pesticides? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	3.9.4.4.5 What differences did you notice in your other hectare due to the use of pesticides?
☐1. Yes ☐2. No ☐ -777 Didn't have a technician ☐ -888 DK ☐ -999 DA	☐1. Yes **-> GO TO 3.9.4.4.4** ☐2. No ☐ -888 DK ☐ -999 DA	☐1. Because he/she thinks that they're harmful to the soil ☐2. Because he/she thinks they are harmful to the crop ☐3. Because he/she didn't have money ☐4. Because the pesticide seemed too expensive ☐5. Because he/she doesn't trust in pesticides ☐6. Because he/she didn't have time to apply it ☐7. Because he/she didn't witness any plague ☐8. Other _____.	☐1. Because the technician convinced he/she of the importance of doing it ☐2. Because he/she always use them ☐3. Because he/she wanted to try it ☐4. Because he/she have problems with insects ☐5. Because he/she have problems with moles ☐6. To increase productivity ☐7. Other _____	☐1. The plant laid down ☐2. Leaves turned yellow ☐3. Leaves rolled up ☐4. Decreased the amount of plague ☐5. Less damaged Leaves ☐6. Increased the amount of Leaves ☐7. Other_____☐8. None

3.9.4.4.6 How many times did you apply pesticides in the other hectare?	3.9.4.4.7 Imple mentation	3.9.4.4.8 In which date did you apply the pesticides?	3.9.4.4.9 Which pesticide did you apply? **See catalogue**	3.9.4.4.10 How much did you apply per hectare?	3.9.4.4.11 Unit s	3.9.4.4.12 How much did the purchase of the pesticides cost per hectare?	3.9.4.4.13 How much did the water transportation and the workforce for this implication cost?
|_____| times ☐ -888 DK ☐ -999 DA	1st implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	
	2nd implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	
	3rd implementation	|__/__/2015 ☐ -888 DK ☐ -999 DA	|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	|__|__|__|$ ☐ -888 DK ☐ -999 DA
			|___| ☐ -888 DK ☐ -999 DA	|_____| ☐ -888 DK ☐ -999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐ -888 DK ☐ -999 DA	

V20072015 Producer's ID |__|__|-|__|__|-||__|__|

3.9.4.5. Foliar fertilizers

Enumerator. Remember to ask the next questions for the control plot

3.9.4.5.1 Did the technician recommend to apply foliar fertilizers?	3.9.4.5.2 Did you apply foliar fertilizers in the hectare in the 2015 Spring-Summer cycle?	3.9.4.5.3 Why **DIDN'T** you apply foliar fertilizers? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY** **-> GO TO 4. EXPECTATIONS**	3.9.4.5.4 Why **DID** you apply foliar fertilizers? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	3.9.4.5.5 What differences did you notice in your other hectare due to the use of foliar fertilizers?
☐1. Yes ☐2. No ☐ -777 Didn't have a technician ☐ -888 DK ☐ -999 DA	☐1. Yes **-> GO TO 3.9.4.5.4** ☐2. No ☐ -888 DK ☐ -999 DA	☐1. Because he/she thinks that they're harmful to the soil ☐2. Because he/she thinks they are harmful to the crop ☐3. Because he/she didn't have money ☐4. Because the foliar fertilizer seemed too expensive ☐5. Because he/she doesn't trust in herbicides ☐6. Because he/she didn't have time to apply it ☐7. Because he/she didn't have any deficiency ☐8. Other _____.	☐1. Because the technician convinced he/she of the importance of doing it ☐2. Because he/she always use them ☐3. Because he/she wanted to try it ☐4. Because he/she have deficiencies with micronutrients ☐5. Because he/she have deficiencies with macronutrients ☐6. To increase productivity ☐7. Other _____	☐1. Plant is taller ☐2. Stalk of the plant is thicker ☐3. Leaf of the plant is thicker ☐4. Other_____ ☐5. None

3.9.4.5.6 How many times did you apply foliar fertilizers in the hectare?	3.9.4.5.7 Imple mentation	3.9.4.5.8 In which date did you apply the foliar fertilizer?	3.9.4.5.9 Which foliar fertilizer did you apply? **See catalogue**	3.9.4.5.10 How much did you apply <u>per hectare</u>?	3.9.4.5.11 Unit s	3.9.4.5.12 How much did the purchase of the foliar fertilizers cost <u>per hectare</u>?	3.9.4.5.13 How much did the water transportation and the workforce for this implication cost?
|_____| times ☐-888 DK ☐-999 DA	1st implementation	__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	|__|__|__|$ ☐-888 DK ☐-999 DA
		__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	
	2nd implementation	__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	|__|__|__|$ ☐-888 DK ☐-999 DA
		__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	
	3rd implementation	__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	|__|__|__|$ ☐-888 DK ☐-999 DA
		__/__/2015 ☐-888 DK ☐-999 DA	|___| ☐-888 DK ☐-999 DA	|_____| ☐-888 DK ☐-999 DA	☐1. Kg ☐2. Lt. ☐3. bundle	|__|__|__|$ ☐-888 DK ☐-999 DA	

4. EXPECTATIONS

4.0. Approximate expected date of 2015 in which you think to stack the maize in the defined hectare	_____/_____/2015	☐-777 Will harvest with machinery
4.1. Approximate expected date of 2015 in which you think to harvest with maize combine harvester in the defined hectare	_____/_____/2015	☐-777 Will not harvest with machinery

4.2 Productivity in the plot registered to PIAFEM

ENUMERATOR READ: I will now ask you some questions about the plot REGISTERED IN THE PROGRAM _____

4.2.1 In a scale from 0 to 10, where 10 is the most productive plot in the municipality and 0 is the least productive, how productive do you think your plot will be in the 2015 Spring-Summer cycle?	|__|__|

ENUMERATOR TAKE A COIN AND SHOW IT TO THE PRODUCER:

4.2.2 Let's flip this coin; what is the probability to get tails? How sure are you of this possibility? **WRITE DOWN THE ANSWER TO THE FIRST QUESTION WHEN THE RESPONDANT SAYS HE/SHE IS ABSOLUTELY SURE.**	|__|__|__|%
4.2.3 Think about the previous answer where you rated the productivity of your Plot with **[READ A. 4.2.1]** how sure are you of this rate?	☐1. Absolutely sure ☐2. Fairly sure ☐3. Slightly sure ☐4. Not sure at all

"Now we will play with this board and 20 chips. Note that each box in the board represents the production you might obtain this year from your plot _____."

EUMERATOR: HAND THE 20 CHIPS TO THE RESPONDENT AND ASK HIM/HER:

4.2.4 "What do you think will be the production in your test hectare of the plot_____this year?" **WAIT FOR THE ANSWER AND TELL THE RESPONDENT TO PLACE A CHIP IN THAT BOX**	Between |__|__| tn & |__|__| tn
4.2.5 *THEN* **READ:** *"What do you think will be the production in your test hectare of the plot_____ if the weather is very bad?"* **WAIT FOR THE ANSWER AND TELL THE RESPONDENT TO PLACE A CHIP IN THAT BOX**	Between |__|__| tn & |__|__| tn
4.2.6 *THEN* **READ:** *"What do you think will be the production in your test hectare of the plot_____ if the weather is very good?"* **WAIT FOR THE ANSWER AND TELL THE RESPONDENT TO PLACE A CHIP IN THAT BOX**	Between |__|__| tn & |__|__| tn

4.2.7 **ENUMERATOR POINT AT THE FIRST AND LAST BOX WHERE THERE IS A CHIP, THEN READ***: "Now distribute the remaining 20 chips in the boxes between the interval that you think are more probable. You have to use all the chips, but you may leave empty boxes. If you don't place any chips in a box it means that you believe that option is impossible to happen in the future. The more chips you place in a single box, the more probable you believe that outcome to be"*

4.2.8

0	☐	There will be no harvest	6	☐	More than 2.5 ton/ha to 3 ton/ha
1	☐	Half a ton/ha or less	7	☐	More than 3 ton/ha to 3.5 ton/ha
2	☐	More than half ton/ha to 1 ton/ha	8	☐	More than 3.5 ton/ha to 4 ton/ha
3	☐	More than 1 ton/ha to 1.5 ton/ha	9	☐	More than 4 ton/ha to 4.5 ton/ha
4	☐	More than 1.5 ton/ha to 2 ton/ha	10	☐	More than 4.5 ton/ha to 5 ton/ha
5	☐	More than 2 ton/ha to 2.5 ton/ha	11	☐	More than 5 ton/ha to 6 ton/ha
12	☐	More than 6 ton/ha to 7 ton/ha			
13	☐	More than 7 ton/ha. How much?_____			

ENUMERATOR READ: I WILL ASK YOU ABOUT YOUR PLOT _____(WRITE DOWN THE NAME OF THE COMPARISON PLOT OF 3.9.1)

4.2.9 "What do you think will be the production in your hectare PLOT_____this year?" **WAIT FOR THE ANSWER AND TELL THE RESPONDENT TO PLACE A CHIP IN THAT BOX**	Between |__|__| tn & |__|__| tn
4.2.10 *THEN* **READ:** *"What do you think will be the production in your hectare PLOT_____ if the weather is very bad?"* **WAIT FOR THE ANSWER AND TELL THE RESPONDENT TO PLACE A CHIP IN THAT BOX**	Between |__|__| tn & |__|__| tn
4.2.11 *THEN* **READ:** *"What do you think will be the production in your hectare PLOT_____ if the weather is very good?"* **WAIT FOR THE ANSWER AND TELL THE RESPONDENT TO PLACE A CHIP IN THAT BOX**	Between |__|__| tn & |__|__| tn
4.2.12 In a scale from 0 to 10, where 10 is the most productive plot in the municipality and 0 is the least productive, how productive do you think your plot will be in the 2015 Spring-Summer cycle?	__|__|

4.3 Maize price from the plot registered in the PIAFEM program

ENUMERATOR: GIVE BACK THE 20 CHIPS TO THE RESPONDENT AND ASK: *"What do you think the PRICE OF MAIZE WILL BE IN THE BEGINNINGS OF 2016?"* **WAIT FOR THE ANSWER AND TELL THE RESPONDENT TO PLACE A CHIP IN THAT BOX.** WRITE DOWN THE ANSWER: _____

THEN READ: *"What do you think the WORST PRICE FOR MAIZE COULD BE IN THE BEGINNINGS OF 2016?"* **WAIT FOR THE ANSWER AND TELL THE RESPONDENT TO PLACE A CHIP IN THAT BOX.** WRITE DOWN THE ANSWER: _____

THEN READ: *"What do you think the BEST PRICE FOR MAIZE COULD BE IN THE BEGINNINGS OF 2016?"* **WAIT FOR THE ANSWER AND TELL THE RESPONDENT TO PLACE A CHIP IN THAT BOX.** WRITE DOWN THE ANSWER: _____

ENUMERATOR POINT AT THE FIRST AND LAST BOX WHERE THERE IS A CHIP, THEN READ*: "Now distribute the remaining 20 chips in the boxes between the interval that you think are more probable. You have to use all the chips, but you may leave empty boxes. If you don't place any chips in a box it means that you believe that option is impossible to happen in the future. The more chips you place in a single box, the more probable you believe that outcome to be"*

0	☐	Will not sell any maize	6	☐	More than 2250 to 2500 $ per ton
1	☐	500 or less $ per ton	7	☐	More than 2500 to 2750 $ per ton
2	☐	More than 500 to 1000 $ per ton	8	☐	More than 2750 to 3000 $ per ton
3	☐	More than 1000 to 1500 $ per ton	9	☐	More than 3000 to 3250 $ per ton
4	☐	More than 1500 to 2000 $ per ton	10	☐	More than 3250 to 3500 $ per ton
5	☐	More than 2000 to 2250 $ per ton	11	☐	More than 3500. How much? ____ $ per ton

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5. AGRICULTURAL TECHNOLOGY

ENUMERATOR READ: From now on I will ask about your practices, not only in your plot_____ **but in all your plots**.

5.1. Soil analysis

5.1.1 Are you planning on doing soil analysis in all or some plots for the next year?	☐1. Yes ☐2. No ☐-888 DK ☐-999 DA
5.1.2 Why?	☐1. Because they are expensive ☐2. Because I don't have the resource ☐3. Because I don't see the benefit ☐4. Because I know what my plants need ☐5. Because it tells me what nutrients/fertilizers my plot really needs ☐6. Because I don't have to apply that many fertilizers ☐7. Because it increases my productivity ☐8. Other_____ ☐-888 DK ☐-999 DA

5.1.3 What is the maximum that you are willing to pay for a soil analysis?	5.1.4 Did you implement a soil analysis this year?	5.1.5 What was the cost of that soil analysis?	5.1.6 When did you receive the results?	5.1.7 Who performed the soil analysis?	5.1.8 What type of soil analysis/recommendations did you receive from QFD?	5.1.9 Do you remember the formula of your recommendations for sowing?	5.1.10 What was the formula of your recommendations for sowing? (**kilograms**)
|__|__|__|__|$ ☐-888 DK ☐-999 DA	☐1. Yes ☐2. No → **Go to 5.2 TECHNICAL ASSISTANCE**	|__|__|__|__|$ ☐-888 DK ☐-999 DA	|__|__/|__|__|/2015 ☐-777 Didn't receive the results **→Go to 5.2 TECHNICAL ASSISTANCE**	☐1. QFD ☐2. Other_____ **→Go to 5.1.11** ☐-888 DK ☐-999 DA	☐1. Personalized/of his/her plot ☐ 2. Town's average ☐-888 DK ☐-999 DA	☐1. Yes ☐2. No → **Go to 5.1.11**	1.UREA: |__|__|__|kg 2.DAP: |__|__|__|kg 3.KCL: |__|__| __|kg 4.MICRO: |__|__|__|kg 5. Other: |__|__|__|kg (Specify)_____

5.1.11 Did they give you information that you didn't know?	5.1.12 What new information did they give you? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	5.1.13 Thanks to the information they provided you, did you perform any different practice in relation to the past 3 years?	5.1.14 What did you perform differently? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	5.1.15 Did you follow the recommendations delivered from the soil analysis?
☐1. Yes ☐2. No→**Go to 5.1.14** ☐-888 DK ☐-999 DA	☐1. Apply fertilizers (NPK) to sowing ☐2. Apply microelements (Zinc, Boron, Magnesium) to sowing ☐3. To use precision seed drill ☐4. To do more fertilizer implementations ☐5. To use herbicides ☐6. To use pesticides ☐7. To use foliar fertilizers ☐8. Other_____ ☐-888 DK ☐-999 DA	☐ 1. Yes ☐ 2. No →**Go to 5.1.15** ☐-888 DK ☐-999 DA	☐1. Apply fertilizers (NPK) to sowing ☐2. Apply microelements (Zinc, Boron, Magnesium) to sowing ☐3. To use precision seed drill ☐4. To do more fertilizer implementations ☐5. To use herbicides ☐6. To use pesticides ☐7. To use foliar fertilizers ☐8. Other_____ ☐-888 DK ☐-999 DA	☐1. All ☐2. Almost all ☐3. Some ☐4. Few ☐5. Any ☐-777. I didn't receive any recommendations ☐-888 DK ☐-999 DA

5.2. Technical assistance

5.2.1 Are you planning to hire a technician to follow-up your plots for the next year?	☐1. Yes ☐2. No ☐-888 DK ☐-999 DA
5.2.2 Why?	☐1. Because they are expensive ☐2. Because I don't have the resource ☐3. Because I don't see the benefit ☐4. Because I know what my plants need ☐5. Because technicians don't know ☐6. Because technicians don't come to the plots ☐6. Because they tell me what products my plot really needs ☐7. Because they tell me how to control plagues, weeds and other problems ☐8. Because they increase my productivity ☐9. Other_____ ☐-888 DK ☐-999 DA

5.2.3 What is the maximum that you are willing to pay for a technician or engineer to help you with your crops follow-up?	5.2.4 Do you have a technician or engineer that helps you with your crops follow-up in this cycle?	5.2.5 Why **DON'T** you have a technician/engineer? → **Go to 5.3 Machinery** **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY** **IF THE PRODUCER IS T4 GO TO 5.2.13**	5.2.6 Why **DO** you have a technician/engineer? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	5.2.7 What is the name of your technician/engineer?	5.2.8 How many times does your technician/engineer has visited your plot since the beginning of the 2015 Spring-Summer cycle??	5.2.9 Was the technician/engineer present during sowing?
|__|__|__|__|$ ☐-888 DK ☐-999 DA	☐1. Yes → **Go to 5.2.6** ☐ 2. No ☐-888 DK ☐-999 DA	☐1. Because he/she didn't know they existed ☐2. Because he/she doesn't have money ☐3. Because he/she has always work this way ☐4. Because he/she doesn't see the benefit ☐5. There are no places to hire technicians ☐6. He/she doesn't trust technicians ☐7. Other: _____ ☐-888 DK ☐-999 DA	☐1. It's part of the PIAFEM program from QFD ☐2. From the government ☐3. Because I trust in the technicians' work ☐4. Because a relative is an agronomical engineer ☐5. Other producers recommended to me ☐6. Because he/she advises/helps/guides with the crops ☐7. Other: _____ ☐-888 DK ☐-999 DA	|__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__| ☐-888 DK ☐-999 DA	|__|__| times ☐-888 DK ☐-999 DA	☐1. Yes ☐ 2. No ☐-888 DK ☐-999 DA

5.2.10 Was the technician/engineer present during the first fertilization after sowing?	5.2.11 In a scale from 1 to 10, where 1 is a very poor work and 10 is an excellent work, how would you grade your technician's/engineer's work in this cycle?	5.2.12 How much does he/she charges you per year?	5.2.13 To how many training courses was you invited to?	5.2.14 To how many training courses did you attend?	5.2.15 What subjects were addressed in each training course? **ENUMERATOR ASK THE SUBJECTS OF EACH COURSE THAT THE PRODUCER ATTENDED**		5.2.16 From 1 to 10, where 1 is useless and 10 is very useful, how would you grade the information from the training courses
☐1. Yes ☐ 2. No ☐-888 DK ☐-999 DA	|__|__| ☐-888 DK ☐-999 DA	|__|__|__|__|$ ☐-777 QFD/government pays it ☐-888 DK ☐-999 DA	|__|__| courses ☐-888 DK ☐-999 DA	|__|__| courses ☐-888 DK ☐-999 DA **ENUMERATOR IF HE/SHE DIDN'T ATTEND TO ANY COURSE →Go to 5.3 MACHINERY**	1	☐1.Soil preparation ☐2.Fertilization during sowing ☐3.Use of precision machinery ☐4.Fertilization after sowing ☐5.Weeds control ☐6.Identification and correction of deficiencies ☐7.Plagues control ☐8.Soil preparation for 2016 ☐9.Seed selection for 2016 ☐10.Other: (specify)_____	|__|__| ☐-888 DK ☐-999 DA
					2	☐1.Soil preparation ☐2.Fertilization during sowing ☐3.Use of precision machinery ☐4.Fertilization after sowing ☐5.Weeds control ☐6.Identification and correction of deficiencies ☐7.Plagues control ☐8.Soil preparation for 2016 ☐9.Seed selection for 2016 ☐10.Other: (specify)_____	|__|__| ☐-888 DK ☐-999 DA
					3	☐1.Soil preparation ☐2.Fertilization during sowing ☐3.Use of precision machinery ☐4.Fertilization after sowing ☐5.Weeds control ☐6.Identification and correction of deficiencies ☐7.Plagues control ☐8.Soil preparation for 2016 ☐9.Seed selection for 2016 ☐10.Other: (specify)_____	|__|__| ☐-888 DK ☐-999 DA

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5.3. Recommended machinery

5.3.1 Would you use precision machinery for next year's sowing?		☐1. Yes ☐2. No ☐-888 DK ☐-999 DA
5.3.2 Why?	☐1. **The rent is too expensive** ☐2 I don't have the resource for the rent ☐3. Has already used it and **DIDN'T** see any results ☐4. Is very hard to get the machinery in the town ☐5. Plot's conditions doesn't allow to use the machinery ☐6. I don't think it would increase my productivity	☐7. More plants rise ☐8. Is a more ordered sowing ☐9. Plants seems big ☐10. Increases my productivity ☐11. Other (specify) _____ ☐-888 DK ☐-999 DA

5.3.3 What is the maximum that you would have paid to use the precision seed drill this year?	5.3.4 Did you sow maize with precision machinery as the program recommended? Meaning to sow in row and fertilize at the same time	5.3.5 Why did you decide **NOT** to sow with the precision machinery? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	5.3.6 Why did you decide to sow with this precision machinery? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	5.3.7 What differences did you notice in sowing for the use of precision machinery?	5.3.8 Did you have any problem using the recommended precision machinery? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	5.3.9 From 1 to 10, where 1 is useless and 10 is very useful, how would you grade the precision machinery usage?
|__|__|__|__|$ ☐-888 DK ☐-999 DA	☐1. Yes **-> Go to 5.3.6** ☐ 2. No ☐-888 DK ☐-999 DA	☐1. **DIDN'T** come out with the seed drill from the program ☐2. Has already used it and **DIDN'T** see any results ☐3. Is very hard to get the machinery in the town ☐4. Plot's conditions didn't allow to use machinery ☐5. Didn't have money to rent it ☐6. Rent seems too expensive ☐7. Didn't agree with the proposed date ☐8. Other (specify) _____ ☐-888 DK ☐-999 DA **Finish section GO to 5.4 Yara fertilization**	☐1. Because I did come out with the seed drill from the program ☐2. Because I have already used it and saw results ☐3. Because the technician convinced me of the importance of sowing with machinery ☐4. Because is the first time that I sow with machinery and want to see the results ☐5. Because is the one I always use ☐ 6. Other (specify) _____ ☐-888 DK ☐-999 DA	☐1. Greater amount of seeds ☐2. Greater amount of plants ☐3. More similar/homogeneous growth of the crops ☐4. Distance between plants ☐5. More leveled sowing ☐6. Other (specify) _____ ☐-777 Didn't notice any difference ☐-888 DK ☐-999 DA	☐1. Didn't sow the entire hectare ☐2. Got plugged ☐3. It tightened ☐4. The seed depth wasn't the right one ☐5. The driver was going very fast ☐6. Moisture problems ☐7. Didn't have any problem with the machinery ☐8. Other (specify) _____ ☐-888 DK ☐-999 DA	|__|__| ☐-888 DK ☐-999 DA

5.4. Sowing fertilization and Yara fertilizers

5.4.1. Will you fertilize the sowing next year?			☐1. Yes ☐2. No ☐-888 DK ☐-999 DA
5.4.2. Why?	☐1. Because I don't have the required machinery ☐2. Because the bundle was expensive ☐3. Because I don't have money to pay for the bundle ☐4. I don't think it will increase my productivity	☐7. More plants rise ☐5. It increases my productivity ☐6. The plants seem more green ☐7. The plants seem bigger ☐8. Other (specify)_____	☐-888 DK☐-999 DA

5.4.3. What is the maximum that you would paid for the YARA SIEMBRA bundle recommended from the soil analysis?	5.4.4. Did you fertilize the sowing in this cycle?	5.4.5. Why did you decide **NOT** to fertilize the sowing? **-> GO to 5.4.9**	5.4.6. Did you fertilize the sowing with the YARA bundle recommended from the soil analysis of this year?	5.4.7. Why did you decide to fertilize the sowing with the YARA bundle recommended from the soil analysis? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY** **-> GO TO 5.4.9**	5.4.8. Why did you decide **NOT** to fertilize the sowing with the YARA bundle recommended from the soil analysis? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**
|__|__|__|__|$ ☐-888 DK ☐-999 DA	☐1. Yes **-> IR a 5.4.6** ☐ 2. No ☐-888 DK ☐-999 DA	☐1. Because he/she didn't have the required machinery ☐2. Because I didn't come out with it from the program ☐3. Because the bundle was expensive ☐4. Because he/she didn't have the money to pay for the bundle ☐5. Because I sowed before the technician indicated me ☐6. Because I received fertilizer from a government program ☐7. Because I didn't trust in the recommendation ☐8. Other (specify) _____ ☐-888 DK ☐-999 DA **-> GO to 5.4.9**	☐1. Yes ☐ 2. No **-> GO to 5.4.8** ☐-888 DK ☐-999 DA	☐1. Because I came out with the bundle from the program ☐ 2. Because I want to follow all the recommendations from the soil analysis ☐ 3. Because I have never fertilized the sowing and I want to see if it works ☐ 4. Other (specify) _____ ☐-888 DK ☐-999 DA	☐1. Because he/she didn't have the required machinery ☐2. Because I didn't come out with it from the program ☐3. Because the bundle was expensive ☐4. Because he/she didn't have the money to pay for the bundle ☐5. Because I sowed before the technician indicated me ☐6. Because I received fertilizer from a government program ☐7. Because I didn't trust in the recommendation ☐8. Other (specify) _____ ☐-888 DK ☐-999 DA

5.4.9. Will you fertilize with the YARA bundle during crop development in the next year?			☐1. Yes ☐2. No ☐-888 DK ☐-999 DA
5.4.10. Why?	☐1. Because I don't have the required machinery ☐2. Because the bundle was expensive ☐3. Because I don't have money to pay for the bundle ☐4. I don't think it will increase my productivity	☐7. More plants rise ☐5. It increases my productivity ☐6. The plants seem more green ☐7. The plants seem bigger ☐8. Other (specify)_____	☐-888 DK☐-999 DA

5.4.11. What is the maximum that you would pay for the second fertilization YARA bundle recommended from the soil analysis?	5.4.12. Did you perform the second fertilization with the YARA bundle recommended from the soil analysis?	5.4.13. Why did you decide to apply the second fertilization YARA bundle recommended from the soil analysis? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY> GO TO 5.4.15**	5.4.14. Why did you decide **NOT** to apply the second fertilization YARA bundle recommended from the soil analysis? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**
|__|__|__|__|$ ☐-888 DK ☐-999 DA	☐1. Yes ☐ 2. No **-> GO to 5.4.14** ☐-888 DK ☐-999 DA	☐1. Because I want to follow all the recommendations from the soil analysis ☐2. Because I didn't have to pay the difference for the recommended bundle ☐3. Because I saw great results from the fertilizer of the sowing ☐4. Due to the recommendation from the technician ☐5. Because they gave me a voucher for Chedraui ☐6. Other (specify) _____ ☐-888 DK ☐-999 DA	☐1. Because I didn't have money ☐2. Because the bundle was expensive ☐3. Because the amount of fertilizer was too little ☐4. Because I was going to spend more in transportation than in the fertilizer ☐5. Because I had already bought another fertilizer ☐6. Because I received fertilizer from a government program ☐7. Because I didn't trust in the recommendation ☐8. Other (specify) _____ ☐-888 DK ☐-999 DA

5.4.15. Did you notice any difference between the YARA fertilizer and the fertilizer that you regularly use?	5.4.16. What differences did you notice between the fertilizers? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	5. 4. 17. Did you notice any difference in your crops implementing the YARA fertilizer?	5.4.18. What differences did you notice in your crops implementing the YARA fertilizer? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	5. 4. 19. From 1 to 10, where 1 is the worst quality and 10 is the best quality, how would you grade the YARA fertilizer quality?	5.4.20. From 1 to 10, where 1 is the worst quality and 10 is the best quality, how would you grade the quality of the government's subsidized fertilizer?
☐1. Yes ☐ 2. No**-> GO TO 5.4.17** ☐-777 DOESN'T KNOW THE YARA FERTILIZER**-> GO TO 5.4.20** ☐-888 DK ☐-999 DA	☐1. The Yara was more granulated than the one he/she regularly uses? ☐2. The color was different ☐3. The compaction was different ☐4. The cost ☐5. Other (specify) _____ ☐-888 DK ☐-999 DA	☐1. Yes ☐2. No **-> GO to 5.4.19** ☐-888 DK ☐-999 DA	☐1. The plant's color is more green ☐2. Plant's growth was quicker ☐3. I applied less and saw results ☐4. Deficiency problems decreased ☐5. The plant's color is more yellow ☐6. The seed/plant burned ☐5. Other (specify) _____ ☐-888 DK ☐-999 DA	|__|__| ☐-888 DK ☐-999 DA	|__|__| ☐-888 DK ☐-999 DA

5.4.21. Did you receive the commitment/participation reward from QFD?	5.4.22. How much money did the reward for commitment or participation offer?	5.4.23. If you **WOULDN'T** have received the commitment money from QFD, would you had gotten the second fertilization YARA bundle recommended from the soil analysis?
☐1. Yes ☐2. No **-> GO to 6 Credit** ☐-888 DK ☐-999 DA	☐1. 100 pesos in Chedrahui ☐2. 300 ☐-888 DK ☐-999 DA	☐1. Yes ☐2. No ☐-888 DK ☐-999 DA

6. CREDIT AND INSURANCE

ENUMERATOR READ: I will now ask you some questions about your financial requirements to sow ***in all your plots*** in the 2015 Spring-Summer cycle?

6.1. Credit

6.1.1 Suppose that someone offers you a credit so you could pay for everything left related to your plots. Suppose that this credit has a fair interest rate and that you are going to pay the credit (with interests included) after the harvest. Would you accept it?	☐1.Yes ☐-888 DK ☐2.No ☐-999 DA
6.1.2 In this cycle, did you have enough money to buy the fertilizer and the material you needed ***for sowing***?	☐1.Yes → **Go to 6.1.4** ☐-888 DK ☐2.No ☐-999 DA
6.1.3 How much money per hectare were you short in order to ***sow*** the way you would have wanted?	|__|__|__|__| MXN
6.1.4 In this cycle, did you have enough money to buy the fertilizer and the material you needed ***for the crops follow-up***?	☐1.Yes → **Go to 6.1.6** ☐-888 DK ☐2.No ☐-999 DA
6.1.5 How much money were you short in order to ***follow-up your plot the way you would have wanted***?	|__|__|__|__| MXN
6.1.6 Did you find everything you wanted to buy?	☐1.Yes → **Go to 6.1.8** ☐-888 DK ☐2.No ☐-999 DA
6.1.7 What would you have liked to buy that you didn't find? **WRITE ACCORDING TO CATALOGUE IF POSSIBLE IF NOT WRITE ON THE LINE DESIGNATED FOR IT**	|__|__|__|__|;|__|__|__|__|;|__|__|__|__|;|__|__|__|__| _____ _____

6.1.8 Did you request a credit or a loan this year for matters related to agriculture?	6.1.9 Why not? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY** **→ Go to 6.2 INSURANCE**	6.1.10 In which month did you request it?	6.1.11 How much did you request? (pesos or monetary value of what was requested in kind)	6.1.12 To whom did you request it?	6.1.13 If it was granted, in which month would you have to return it?	6.1.14 If it was granted, what is the total amount that you have to return?	6.1.15 What annual rate they offered you? (percentage) 6.1.16	6.1.17 Was it granted?	6.1.18 Could you pay it/are you up-to-date with the payments?
☐1.Yes → **Go to 6.1.10** ☐2.No	☐1. They ask for many requirements ☐2. Due to high interest rates/they are expensive ☐3. Doesn't like to be indebted ☐4. Has not had the need ☐5. Acquaintances' bad experiences ☐6. Does not know whom to request ☐7. Takes a lot of time ☐8. Didn't have a guarantee ☐9. Other:**(SPECIFY)** _____ ☐-888 DK ☐-999 DA	12.☐2014 Dec 1. ☐2015 Jan 2. ☐2015 Feb 3. ☐2015 Mar 4. ☐2015 Apr 5. ☐2015 May 6. ☐2015 June 7. ☐2015 July ☐-888 DK ☐-999 DA	|__|__|__|__|__| $ ☐-888 DK ☐-999 DA	☐1. Relative / Acquaintance ☐2. Jobber / Moneylender ☐3. FIRA ☐4. Rural Financial ☐5. Office ☐6. Pawnshop / Monte de Piedad ☐7. Other (spec): _____	3. ☐2015 Mar 4. ☐2015 Apr 5. ☐2015 May 6. ☐2015 June 7. ☐2015 July 8. ☐2015 Aug 9. ☐2015 Sept 10. ☐2015 Oct 11. ☐2015 Nov 12. ☐2015 Dec 13. Other: 2016 _____ ☐-888 DK ☐-999 DA	|__|__|__|__|__|$ ☐-888 DK ☐-999 DA	_____% ☐-888 DK ☐-999 DA	☐1. Yes ☐2. No →**Go to 6.2 INSURANCE** ☐3. It is still pending →**Go to 6.2 INSURANCE** ☐-888 DK ☐-999 DA	☐1.Yes ☐2.No ☐-777 It is not time yet ☐-888 DK ☐-999 DA

6.2. Insurance

6.2.1 Do you have agricultural insurance in this 2015 cycle (even if you didn't pay for it)?	6.2.2 What was the cost of the agricultural insurance? ($/ha)	6.2.3 What risk factors were covered by the last agricultural insurance? **ENUMERATOR LISTEN AND CHECK ALL THAT APPLY**	
☐1.Yes ☐2.No →**Go to 7. CONFIDENCE** ☐-888 DK ☐-999 DA	|__|__|__|__| $/ha ☐- 777 He/she didn't pay for it ☐-888 DK ☐-999 DA	☐1. Frost ☐2. Hail ☐3. Drought ☐4. Winds ☐5. Floods	☐6. Fire ☐7. Plague ☐8. Other:_____ ☐-888 DK ☐-999 DA

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7. CONFIDENCE

ENUMERATOR SHOW THE CONFIDENCE TABLE AND ASK:

4.1. How much do you trust each of the following regarding recommendations about how to sow and harvest?
ENUMERATOR READ HE CHOICES

A. Government technician	B. SEFOA	C. Input supplier
☐1. I always believe them ☐2. I almost always believe them ☐3. I sometimes believe them ☐4. I almost never believe them ☐5. I never believe them ☐ -777 I don't know him/her	☐1. I always believe them ☐2. I almost always believe them ☐3. I sometimes believe them ☐4. I almost never believe them ☐5. I never believe them ☐ -777 I don't know them	☐1. I always believe them ☐2. I almost always believe them ☐3. I sometimes believe them ☐4. I almost never believe them ☐5. I never believe them ☐ -777 I don't know him/her
D. Neighbors	**E. SAGARPA**	**F. IPAMPA OFFICE**
☐1. I always believe them ☐2. I almost always believe them ☐3. I sometimes believe them ☐4. I almost never believe them ☐5. I never believe them ☐-777 I don't know them	☐1. I always believe them ☐2. I almost always believe them ☐3. I sometimes believe them ☐4. I almost never believe them ☐5. I never believe them ☐ -777 I don't know them	☐1. I always believe them ☐2. I almost always believe them ☐3. I sometimes believe them ☐4. I almost never believe them ☐5. I never believe them ☐ -777 I don't know them
G. Civil Association Qué Funciona para el Desarrollo (QFD)		
☐1. I always believe them ☐2. I almost always believe them ☐3. I sometimes believe them ☐4. I almost never believe them ☐5. I never believe them ☐ -777 I don't know them		

7. PRODUCER'S USE OF TIME

8.1 Besides your work in agriculture, do you have any other occupation in which you receive money?	8.2 What is your occupation? **ENUMERATOR CHECK ALL THAT APPLY**	8.3 How many hours per week do you dedicate in that/those occupation(s)?	8.4 How many hours per week do you dedicate to your plot?
☐1.Yes ☐2.No → **Go to 8.4** ☐-888 DK ☐-999 DA	☐1. Construction worker ☐2. Driver ☐3. Land worker pawn ☐4. Professional (teacher, agronomist, etc.) ☐5. Dealer ☐6. Rancher ☐7. Night watchman ☐8. Laborer ☐9. Other: _____	|__|__|__|__| hours ☐-888 DK ☐-999 DA	|__|__|__|__| hours ☐-888 DK ☐-999 DA