

**English version**

**PLOT ID** |\_\_||\_\_||\_\_||\_\_||\_\_||\_\_||\_\_||\_\_||

**REPUBLIC OF RWANDA**



**NATIONAL INSTITUTE OF STATISTICS  
OF RWANDA**

## MINISTRY OF AGRICULTURE AND ANIMAL RESOURCES

## PLOT QUESTIONNAIRE FOR SEGMENT 2016-2017

<b>AGRICULTURAL SEASON: .....</b>
<b>1. GENERAL INFORMATION</b>

## 1. GENERAL INFORMATION

Identification	Name	Code
1.1 Province	.....	__
1.2 District	.....	__  __
1.3 Stratum		__  __
1.4 Segment		__  __
1.5 Date of interview	...../...../.....	
1.6 Enumerator's names and ID	.....	__  __  __
1.7 District Team leader's names and ID	.....	__  __

*Introduce yourself to the operator. Rephrase the following in your own words.) "I am working in National Institute of Statistics of Rwanda, particularly in Seasonal Agricultural Survey in which farmers are asked to provide information on the crops they are growing in 2016/2017. The purpose of this survey is to provide data for crop area and production estimates in Rwanda during this current season. Individual reports are kept confidential. The area of land surveyed has been selected for this survey (point out the segment).*

## PART II: CROP PLANTED, SEEDS USED AND PRODUCTION

### Crop planted

2.1 Plot num ber	2.2 Plot area (m <sup>2</sup> )	2.3 Operator's address	Crops planted in the plot					
			2.4 Cropping system in the plot;  <i>1=Pure; 2=Mixed</i>	2.5 Number of main crops in the plot excluding fruits trees	2.6 Crop name (1)	2.7 crop area in square meters	2.8 Number of trees in case of plantation	2.9 Number of trees susceptible to produce in six months (3)
		2.3.1 Names: .....						
		2.3.2 Sector: .....						
		2.3.3 Cell: .....						
		2.3.4 Village: .....						
		2.3.5 Tel : .....						

**(1) Crop codes and names:** 101- Maize, 102- Paddy rice, 103- Sorghum, 104- Wheat, 105- Other cereal(specify), 106- Bush bean, 107- Climbing bean, 108- Pea, 109- Other pulse, 111- Irish potato, 112- Sweet potato, 114- Tomato, 115- Cabbage, 116- Cauliflower, 117- Onion, 118- Carrot, 119- Eggplant, 120- Other seasonal vegetable, 128- Soybean, 129- Groundnut, 130- Sun flower, 134- Other seasonal crop, 135- Black eggplant, 136- Sweet pepper, 138- Amaranth, 139- Celery, 140- Spinach, 141- Small red bean, 142- Sugar beet, 143- Garlic, 144- African cabbage, 145- Leek, 146- French bean, 147- Letus, 148- Broccoli, 162- Millet, 165 – Other tuber (specify), 167- Cucumber, 213- Taro, 214- Yam, 220- Other annual vegetable, 233- Pyrethrum, 234- Other annual crop, 237- Pepper, 249- Napia grass, 257- Tree tomato, 265 – Other tuber, 266- Pumpkin, 310- Cassava, 321- Cooking banana, 322- Dessert banana, 323- Banana for beer, 324- Pineapple, 326- Passion fruit, 325- Avocado, 327- Other fruit, 331- Other oil seed, 332- Coffee, 320- Other perennial vegetable, 334- Other perennial crop, 350- Sugar cane, 352- Macadamia, 353- Olive, 354- Mango, 355- Apple, 356- Papaya, 358- Orange, 359- Lemon, 360- Guava, 361- Mulberry, 363- Stevia, 364- Jatropha, 365 – Other tuber (specify), 368- Palm, 369- Tea, 511- Napia grass for fodder, 512- Maize for fodder, 513- Soya for fodder, 514- Leucena, 515- Desmodium, 516- Mucuna, 517- Setaria, 518- Tripsacum, 519- Other fodder crop (specify).

**(2): Proportion Codes:** 1- ≤ 10%; 2- 11% to 20%; 3- 21% to 30%; 4- 31% to 40%; 5- 41% to 50%; 6- 51% to 60%; 7- 61% to 70%; 8- 71% to 80%; 9- 81% to 90%; 10- 91% to 100%

**(3): Six months for Season A :** From September to February; **Six months for Season B:** From March to August

## PART II: CROP PLANTED, SEEDS USED AND PRODUCTION (Cont'd)

### Seeds used

2.1 Plot No	2.10 Sowing date (1)	2.11 Harvesting date (2)	2.12 Type of seeds sown: 1=Traditional seeds; 2= Improved seeds; 3= 1&2;  <i>If 2, skip to 2.17.1</i>	Traditional seeds				Improved seeds sown				
				2.13 Quantity of traditional seeds sown		2.14 Quantity of traditional seeds purchased	2.15 Amount spent for the purchase of traditional seeds (Rwf)  <i>If only traditional seeds were used, skip to 2.219</i>	2.16 Quantity of improved seeds sown		2.17 Quantity of improved seeds purchased	2.18 Amount spent for the purchase of improved seeds (Rwf)	2.19 Where did improved seeds sown come from? (4)
				2.13.1 Unit (3)	2.13.2 Quantity of traditional seeds sown			2.16.1 Unit (2)	2.16.2 Quantity			

(1) **Sowing date codes:** Season A: 1= Before 01/09; 2= Between 01-15 /09; 3= Between 16- 30/09; 4= Between 01-15/10; 5= Between16- 31/10; 6= After 31/10; 7= Not applicable  
Season B: 1= Before 31/12; 2= Between 01-31/01; 3= Between 01-28/02; 4= Between 01- 15/03; 5= Between16 -31/03; 6= After 31/03; 7= Not applicable  
Season C: 1= Before 30/04; 2= Between 01- 31/05; 3= Between 01- 30/06; 4= Between 01-31/07; 5= After 31/07.

(2) **Harvesting date codes:**  
**Season A:** 1=Before 01/12; 2=Between 01-15 /12; 3=Between 16- 31/12; 4= Between 01-15 /1; 5=Between 16- 31/1, 6= Between 01-28/02; 7= After 28/02; 8= Not applicable  
**Season B:** 1=Between 01-15/05; 2= Between 15-30/05; 3= Between 01-15/06; 4 =Between 16-30/06; 5=Between 01-31/07; 6 =After 31/07; 7=Not applicable; 8= Other season (Perennial crops)  
**Season C:** 1=Before 30/7; 2= Between 1-15/08; 3= Between 15-31/08; 4= Between 1-30/09; After 30/09

(3) **Seeds Units:** 1= Kg; 2= g; 3= Not applicable

(4) **Source of seeds used codes:** 1 = RAB/NAEB/SECTOR; 2 = Recognized seed multipliers/NGO; 3 = Shops of improved seeds ; 4 = Other (Specify

## PART II: CROP PLANTED, SEEDS USED AND PRODUCTION (Cont'd)

### *Crop production*

2.1 Plot number	2.6 Crop name (1)	Crops			2.23 Explanation on production status (2)	2.24 Have you sold any quantity of your produce of this crop during this season?	2.25 What was the farm gate price of this crop?(Frw/Kg)
		2.20 Quantity already harvested (in Kg)	2.21 Remaining quantity to be harvested (in Kg)	2.22 Total quantity of harvest (in Kg)			

**(1) Crop codes:** See codes on page 2

**(2) Explanation on production status :** **1=** Drought; **2=** Heavy rainfall; **3=** Insufficient rainfall; **4=** Inadequate fertilizer; **5=** Late sowing; **6=** Flood; **7=** Landslide; **8=** Crops destroyed by animals (grazed); **9=**Diseases and pests; **10=** Unfertile soil; **11=** Inappropriate seeds; **12=** Good harvest as it was expected; **13=** Other reason (Specify

### PART III: INPUTS USED

#### Use of organic Fertilizer

2.1 Plot number	3.1 Have you used organic fertilizer in this plot during this season? 1= Yes; 2= No; If 2, skip to 3.6	3.2 Quantity of Organic fertilizer used (in Kg)	3.3 Quantity of Organic fertilizer purchased (in Kg)	3.4 Cost of Organic fertilizer purchased (Rwf)

### PART III: INPUTS USED

#### Use of inorganic fertilizer s and pesticides

2.1 Plot number	3.5 Have you used inorganic fertilizer in this plot during this season 1= Yes; 2= No If 2, skip to 3.14	Inorganic fertilizer							3.13 Have you used pesticide in this plot during this season? 1= Yes; 2= No If 2, skip to 4.1	Pesticide				
		3.6 Ty pe (1)	3.7 Unit (2)	3.8 Total quantity used	3.9 Quantity purchased)	3.10 Unit price (Rwf)	3.11 What is the main source of fertilizer used? (3)	3.12 What was the main crop the fertilizer was applied?		3.14 Type (4)	3.15 Unit (2)	3.16 Total quantity used	3.17 Quantity purchased)	3.18 Total amount spent on quantity purchased(Rwf)

**(1) Type of inorganic fertilizers:** 1= NPK 17-17-17; 2= NPK 20-10-10; 3= NPK 25-5-5; 4= Urea; 5= liquid urea; 6= DAP; 7= TSP; 8= KCL/MOP; 9= Other inorganic fertilizer (specify)  
**(2) Units:** 1= Kg; 2= g; 3= l; 4= Cc  
**(3) Main source of fertilizers:** 1= Government (MINAGRI / RAB / NAEB / District) ;2= Market; 3= Government & Market; 4= Other place (specify)  
**(4) Type of pesticides:** 1= Dithane; 2= Ridomil; 3= Dimethoate; 4= Cypermethrin; 5= Dursiban; 6= Tilt; 7= Pilkare; 8= Rocket; 9= Other Pesticide (specify)

## PART IV: AGRICULTURAL PRACTICES

### Soil erosion control measures

2.1 Plot number	4.1 What is the degree of erosion on this plot? <b>(1)</b>	ANTI-EROSION ACTIVITIES				FENCES		
		4.2 Is there any anti-erosion activity on this plot? 1=Yes; 2=No  <i>If 2, skip to 4.6</i>	4.3 Types of anti-erosion activities existing in the plot <b>(2)</b>  Activity name	4.4 Was this anti-erosion activity done during the current agricultural season? 1=Yes; 2=No  <i>If 2, skip to 4.6</i>	4.5 What is the total cost of anti-erosion activity done during this season (Rwf)?	4.6 Is this plot fenced? 1=Yes; 2=No  <i>If 2, skip to Q. 4.9</i>	4.7 Was this fence done during the current agricultural season? 1=Yes; 2=No  <i>If 2, skip to Q. 4.9</i>	4.8 Activity cost (RWF)

**(1) Degree of erosion:** 1=Severe (Rill erosion, Gully erosion , Mass movement/landslides) 2= Moderate (Diffuse overland flow erosion, Overland flow erosion, erosion by infiltration)  
3= Low (Splash erosion, Wind erosion)

**(2) Types of anti-erosion activities:** 1= Ditches; 2= Trees / Wind break/Shelterbelt;3= Bench terraces; 4= Progressive terraces; 5= Cover plants/grasses; 6= Water drainage;  
7= Mulching; 8=Beds/ridges; 9=others (specify)

## PART IV: AGRICULTURAL PRACTICES (Cont'd)

### *Irrigation and Soil preparation*

2.1 Plot number	Cost for soil preparation								Irrigation				
	Manpower	Mechanization											
	4.9 Amount spent on hired labor used to prepare land, sowing and any other agricultural activities in this season (Rwf)	Use of ploughing animals (oxen)	use of tractor		Use of other mechanical equipments				4.17 Has this plot been irrigated during this season?  <i>1=Yes; 2=No</i>  <b>If 2, end the interview</b>	4.18 What is the source of water for irrigation? <b>(1)</b>	4.19 What is irrigation techniques used on this plot? <b>(2)</b>	4.20 What is the cost of hired labor used for irrigation technique?	4.21 What was the main crop being irrigated
		4.10 Have you used ploughing animals (oxen) during this season? <i>1=Yes; 2=No</i>  <b>If 2, skip to 4.12</b>	4.11 Amount paid on rent of ploughing animals during this season (Rwf)	4.12 Have you used a ploughing tractor during this season?  <i>1=Yes; 2=No</i> <b>If 2, skip to 4.14</b>	4.13 Amount paid on rent of ploughing tractor (Rwf)	4.14 Have you used any other mechanical equipment during this season?  <i>1=Yes; 2=No</i> <b>If 2, skip to 4.17</b>	4.15 Name of other mechanical equipment used during this season	4.16 Rent cost for the other mechanical equipment (Rwf)					

**(1) : Irrigation water source :** 1=Rainwater harvesting; 2=Water treatment plant; 3=Underground water; 4=Lake/stream water; 5= Water catchment (dam); 6= Other (Specify)

**(2) : Irrigation Techniques :** 1= Surface irrigation; 2=Flood irrigation (especially for rice) ; 3= Drip irrigation; 4= Sprinkler irrigation ; 5= Traditional techniques

2.1 Plot number	5.1 Is this plot owned or rented? 1= Owned; 2= free lending; 3= Rented  <b>If 2, go to the next plot If 3, skip to 4.5</b>	5.2 Ownership category: 1= heritage; 2= Gift; 3= Exchange; 4= Bought  <b>If 1, 2 or 3 skip to next plot</b>	5.3 When has this plot been bought? 1=This season; 2= Last year; 3= Many years ago  <i>If 3, skip to next plot</i>	5.4 If the plot was purchased during this season or last year, what was the cost?	5.5 If the plot was rented, what kind of payment have you agreed on during this season? 1=Payment by cash; 2=Payment by production share  <b>If 1, fill Q 4.6, then skip to next plot If 2, skip to 4.7</b>	5.6 If the rented plot was paid by cash, what is the amount for this season?	5.7 What are crops in this plot that have been chosen for production share for this season?	5.8 If the rented plot was paid by production share, what is the percentage share from the total production of this crop? (%)