

REPUBLIC OF RWANDA



NATIONAL INSTITUTE OF STATISTICS OF RWANDA

MINISTRY OF AGRICULTURE AND ANIMAL RESOURCES

2012-13 NATIONAL AGRICULTURE SURVEY – SEASON A - PHASE I

| General Information | | |
|--|----------|---|
| 0.1. Province: 1= Kigali City, 2=Southern Province, 3=Western Province, 4=Northern Province, 5=Eastern Province. |/ _ | 0.17. Enumerator's name: _____ |
| 0.2. District |/ _ | 0.18. Date of interview: ____/____/____ |
| 0.3. Stratum | _ | 0.19. Enumerator's Signature: |
| 0.4. Segment | _ _ | 0.20. Supervisor's name: |
| 0.5. Tract letter | _ _ | 0.21. Date questionnaire was checked: ____/____/____ |
| 0.6. Tract Number | _ _ _ _ | |
| 0.7. Name of Operator | | 0.22. Supervisor's Signature: |
| 0.8. Sex of Operator : 1= Male; 2= Female 3=N/A | _ | 0.23. Data entry officer name: _____ |
| 0.9. Age of the operator | _ _ _ _ | 0.24. Date processed: |
| 0.10. Education level of the operator: Primary=1, Secondary= 2, Tertiary=3, No education=4 | _ | |
| 0.11. Resident 1= Yes; 2= No | _ | |
| 0.12. Name of Respondent if not operator | | |
| 0.13. Relationship to the operator (Spouse:1, Son/daughter: 2, Brother/Sister:3, Other:4) | _ | |
| 0.14. Contact Phone Number of the operator | | |
| 0.15. Agricultural activity 1= Cropping; 2= Livestock; 3= 1&2 | _ | |
| 0.16. Are you a Member of any Agriculture Cooperative? (1= Yes; 2= No) | _ | |

Part I: Plot identification within the segment (Season A, Phase I)

| 1.1 Plot No. | 1.2 Plot size M ² | 1.3 Specify the crop planted. If the plot is Fallow land put 98 and go to next plot ; If the plot is uncultivated put 99 and go to next plot | | 1.4 Crop density | 1.5 What was the starting date for sowing? | 1.6 Did you use traditional seeds? 1= Yes 2= No 3=N/A | 1.7 Did you use improved seeds? 1= Yes 2= No 3=N/A | 1.8 Do you expect any production on this crop by 28 th February 2013? 1= Yes 2= No 3=N/A | 1.9 What is the expected date for harvesting? |
|--------------|------------------------------|---|-----------|------------------|--|--|---|--|---|
| No. | M ² | Crop Code | Crop name | Code | Code | Code | Code | Code | Code |
| 1 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 2 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 3 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 4 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 5 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Crop Codes : 1-Maize, 2-Paddy rice, 3-Sorghum, 4-Wheat, 5-Other cereals, 6- Bush Beans, 7- Climbing beans, 8- Peas, 9-Other legumes & pulses, 10- Cassava, 11- Irish potatoes, 12- Sweet potatoes, 13-Yams & Taro, 14-Tomatoes, 15- White cabbage, 16- Flower cabbage, 17- Onion, 18- Carrot, 19- Eggplant, 20- Other vegetables, 21- Cooking Bananas , 22-Banana Fruit, 23- Banana for beer, 24- Pineapple , 25-Avocado, 26-Passion fruits, 27- Other fruits, 28- Soya beans, 29- Groundnuts , 30-Sunflower, 31-Other oil seeds, 32-Coffee, 33- Pyrethrum, 34-Other crops.

Crop Density Codes : 1-Under 10% 2- 10% up to 20% 3- 20% up to 30% 4-30% up to 40% 5- 40% up to 50% 6- 50% up to 60% 7- 60% up to 70% 8- 70% up to 80% 9- 80% up to 90% 10- 90% up to 100% 11-above 100%(possible on perennial crops)

Sowing Start Date Codes: 1- Before 01/09/12 2- 01 to15/09/12 3- 16 to 30/09/12 4- After 30/09/12 5- Not applicable.

Expected Harvest Date Codes: 1- Before 01/12/1 2- 01 to 31/12/12 3- 1 to 31/01/13 4-1 to 28/02/13 5- After 28/02/13 6-N/A

| 1.1 Plot | 1.2 Plot size | 1.3 Specify the crop planted. If the plot is Fallow land put 98 and go to next plot ; If the plot is uncultivated put 99 and go to next plot | | 1.4 Crop density | 1.5 What was the starting date for sowing? | 1.6 Did you use traditional seeds? 1= Yes 2= No 3=N/A | 1.7 Did you use improved seeds? 1= Yes 2= No 3=N/A | 1.8 Do you expect any production on this crop by 28 th February 2013? 1= Yes 2= No 3=N/A | 1.9 What is the expected date for harvesting? |
|----------|----------------|---|-----------|------------------|--|--|---|--|---|
| No. | M ² | Crop Code | Crop name | Code | Code | Code | Code | Code | Code |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |

Crop Codes : 1-Maize, 2-Paddy rice, 3-Sorghum, 4-Wheat, 5-Other cereals, 6- Bush Beans, 7- Climbing beans, 8- Peas, 9-Other legumes & pulses, 10- Cassava, 11- Irish potatoes, 12- Sweet potatoes, 13-Yams & Taro, 14-Tomatoes, 15- White cabbage, 16- Flower cabbage, 17- Onion, 18- Carrot, 19- Eggplant, 20- Other vegetables, 21- Cooking Bananas , 22-Banana Fruit, 23- Banana for beer, 24- Pineapple , 25-Avocado, 26-Passion fruits, 27- Other fruits, 28- Soya beans, 29- Groundnuts , 30-Sunflower, 31-Other oil seeds, 32-Coffee, 33- Pyrethrum, 34-Other crops.

Crop Density Codes : 1-Under 10% 2- 10% up to 20% 3- 20% up to 30% 4-30% up to 40% 5- 40% up to 50% 6- 50% up to 60% 7- 60% up to 70% 8- 70% up to 80% 9- 80% up to 90% 10- 90% up to 100% 11-above 100% (possible on perennial crops)

Sowing Start Date Codes: 1- Before 01/09/12 2- 01 to15/09/12 3- 16 to 30/09/12 4- After 30/09/12 5- Not applicable.

Expected Harvest Date Codes: 1- Before 01/12/1 2- 01 to 31/12/12 3- 1 to 31/01/13 4-1 to 28/02/13 5- After 28/02/13 6-N/A

| 1.1 Plot | 1.2 Plot size | 1.3 Specify the crop planted. If the plot is Fallow land put 98 and go to next plot ; If the plot is uncultivated put 99 and go to next plot | | 1.4 Crop density | 1.5 What was the starting date for sowing? | 1.6 Did you use traditional seeds? 1= Yes 2= No 3=N/A | 1.7 Did you use improved seeds? 1= Yes 2= No 3=N/A | 1.8 Do you expect any production on this crop by 28 th February 2013? 1= Yes 2= No 3=N/A | 1.9 What is the expected date for harvesting? |
|----------|----------------|---|-----------|------------------|--|--|---|--|---|
| No. | M ² | Crop Code | Crop name | Code | Code | Code | Code | Code | Code |
| 11 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 12 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 13 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 14 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 15 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Crop Codes : 1-Maize, 2-Paddy rice, 3-Sorghum, 4-Wheat, 5-Other cereals, 6- Bush Beans, 7- Climbing beans, 8- Peas, 9-Other legumes & pulses, 10- Cassava, 11- Irish potatoes, 12- Sweet potatoes, 13-Yams & Taro, 14-Tomatoes, 15- White cabbage, 16- Flower cabbage, 17- Onion, 18- Carrot, 19- Eggplant, 20- Other vegetables, 21- Cooking Bananas , 22-Banana Fruit, 23- Banana for beer, 24- Pineapple , 25-Avocado, 26-Passion fruits, 27- Other fruits, 28- Soya beans, 29- Groundnuts , 30-Sunflower, 31-Other oil seeds, 32-Coffee, 33- Pyrethrum, 34-Other crops.

Crop Density Codes : 1-Under 10% 2- 10% up to 20% 3- 20% up to 30% 4-30% up to 40% 5- 40% up to 50% 6- 50% up to 60% 7- 60% up to 70% 8- 70% up to 80% 9- 80% up to 90% 10- 90% up to 100% 11-above 100% (possible on perennial crops)

Sowing Start Date Codes: 1- Before 01/09/12 2- 01 to15/09/12 3- 16 to 30/09/12 4- After 30/09/12 5- Not applicable.

Expected Harvest Date Codes: 1- Before 01/12/1 2- 01 to 31/12/12 3- 1 to 31/01/13 4-1 to 28/02/13 5- After 28/02/13 6-N/A

Part II: Use of Intermediate Consumption and Inputs (Season A, Phase I)

Expenses on farm activities

| 2.1 Plot | 2.2. State crop type | 2.3. Specify type of irrigation. | 2.4 Did you practice any anti-erosion activity on this plot? 1=Yes, 2=No , if 2 go to next plot | 2.5 Which anti-erosion activities did you practice on this plot in this agriculture season? |
|-------------|-------------------------|----------------------------------|--|--|
| No. | Code | Code | Code | Code |
| 1 | | | | |
| | | | | |
| | | | | |
| 2 | | | | |
| | | | | |
| | | | | |
| 3 | | | | |
| | | | | |
| | | | | |
| 4 | | | | |
| | | | | |
| | | | | |
| 5 | | | | |
| | | | | |
| | | | | |

Crop Codes : 1-Maize, 2-Paddy rice, 3-Sorghum, 4-Wheat, 5-Other cereals, 6- Bush Beans, 7- Climbing beans, 8- Peas, 9-Other legumes & pulses, 10- Cassava, 11- Irish potatoes, 12- Sweet potatoes, 13-Yams & Taro, 14-Tomatoes, 15- White cabbage, 16- Flower cabbage, 17- Onion, 18- Carrot, 19- Eggplant, 20- Other vegetables, 21- Cooking Bananas , 22-Banana Fruit, 23- Banana for beer, 24- Pineapple , 25-Avocado, 26-Passion fruits, 27- Other fruits, 28- Soya beans, 29- Groundnuts , 30-Sunflower, 31-Other oil seeds, 32-Coffee, 33- Pyrethrum, 34-Other crops.

Irrigation Code: 1-Pumps/tube wells/irrigation machines 2-Watering can 3-Water drainage 4-Other.

Anti-erosion activities: 1-Distches 2- trees 3- Radical terracing 4- Progressive terracing 5-Grasses 6-waterway 7-Mulching 8- Others

Part II: Use of Intermediate Consumption and Inputs (Season A, Phase I)

Expenses on farm activities

| 2.1 Plot | 2.2. State crop type | 2.3. Specify type of irrigation. | 2.4 Did you practice any anti-erosion activity on this plot? 1=Yes, 2=No , if 2 go to next plot | 2.5 Which anti-erosion activities did you practice on this plot in this agriculture season? |
|----------|----------------------|----------------------------------|--|---|
| No. | Code | Code | Code | Code |
| 6 | | | | |
| | | | | |
| | | | | |
| 7 | | | | |
| | | | | |
| | | | | |
| 8 | | | | |
| | | | | |
| | | | | |
| 9 | | | | |
| | | | | |
| | | | | |
| 10 | | | | |
| | | | | |
| | | | | |

Crop Codes : 1-Maize, 2-Paddy rice, 3-Sorghum, 4-Wheat, 5-Other cereals, 6- Bush Beans, 7- Climbing beans, 8- Peas, 9-Other legumes & pulses, 10- Cassava, 11- Irish potatoes, 12- Sweet potatoes, 13-Yams & Taro, 14-Tomatoes, 15- White cabbage, 16- Flower cabbage, 17- Onion, 18- Carrot, 19- Eggplant, 20- Other vegetables, 21- Cooking Bananas , 22-Banana Fruit, 23- Banana for beer, 24- Pineapple , 25-Avocado, 26-Passion fruits, 27- Other fruits, 28- Soya beans, 29- Groundnuts , 30-Sunflower, 31-Other oil seeds, 32-Coffee, 33- Pyrethrum, 34-Other crops.

Irrigation Code: 1-Pumps/tube wells/irrigation machines 2-Watering can 3-Water drainage 4-Other.

Anti-erosion activities: 1-Distches 2- trees 3- Radical terracing 4- Progressive terracing 5-Grasses 6-waterway 7-Mulching 8- Others

Part II: Use of Intermediate Consumption and Inputs (Season A, Phase I)

Expenses on farm activities

| 2.1 Plot | 2.2. State crop type | 2.3. Specify type of irrigation. | 2.4 Did you practice any anti-erosion activity on this plot? 1=Yes, 2=No , if 2 go to next plot | 2.5 Which anti-erosion activities did you practice on this plot in this agriculture season? |
|----------|----------------------|----------------------------------|--|---|
| No. | Code | Code | Code | Code |
| 11 | | | | |
| | | | | |
| | | | | |
| 12 | | | | |
| | | | | |
| | | | | |
| 13 | | | | |
| | | | | |
| | | | | |
| 14 | | | | |
| | | | | |
| | | | | |
| 15 | | | | |
| | | | | |
| | | | | |

Crop Codes : 1-Maize, 2-Paddy rice, 3-Sorghum, 4-Wheat, 5-Other cereals, 6- Bush Beans, 7- Climbing beans, 8- Peas, 9-Other legumes & pulses, 10- Cassava, 11- Irish potatoes, 12- Sweet potatoes, 13-Yams & Taro, 14-Tomatoes, 15- White cabbage, 16- Flower cabbage, 17- Onion, 18- Carrot, 19- Eggplant, 20- Other vegetables, 21- Cooking Bananas , 22-Banana Fruit, 23- Banana for beer, 24- Pineapple , 25-Avocado, 26-Passion fruits, 27- Other fruits, 28- Soya beans, 29- Groundnuts , 30-Sunflower, 31-Other oil seeds, 32-Coffee, 33- Pyrethrum, 34-Other crops.

Irrigation Code: 1-Pumps/tube wells/irrigation machines 2-Watering can 3-Water drainage 4-Other.

Anti-erosion activities: 1-Distches 2- trees 3- Radical terracing 4- Progressive terracing 5-Grasses 6-waterway 7-Mulching 8- Others

Part II: Use of Intermediate Consumption and Inputs (Season A, Phase I) – continued

Expenditures on pesticides and fertilizers

| | | |
|--------|--|---------------------------------------|
| 2.6. | Have you already used organic fertilizers during this agriculture season? 1= Yes 2= No | <input type="checkbox"/> |
| 2.7.1. | Have you already used inorganic fertilizers during this agriculture season? | 1= Yes 2= No <input type="checkbox"/> |
| 2.7.2 | Have you already used pesticides during this agriculture season? | 1= Yes 2= No <input type="checkbox"/> |

NB: If the answers to any of 2.7.1.,2.7.2 are Yes, please complete the following table for crops which were identified in the second section of the questionnaire for which the farmer used fertilizer and pesticides during this agriculture season.

| CODE | | Inorganic Fertilizers or pesticides used or will be used in this agriculture season | | On which crops were Fertilizers or Pesticides used? (use codes of the crops identified above) | | |
|----------------|----|---|--|---|--------------------------|--------------------------|
| | | 2.8. Name of Fertilizer or Pesticide | 2.9. Use of Fertilizer or Pesticide 1 = Used 2= Not Used If 2 Go to the next fertilizer/ Pesticide | 2.10. First crop | 2.11. Second crop | 2.12. Third Crop |
| Fertilizers | 1 | NPK | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2 | UREA | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 3 | UREA(LIQUID) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 4 | DAP | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 5 | LIME | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pesticides | 6 | DITHANE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 7 | RIDOMIL | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 8 | DIMETHOATE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 9 | CYPERMETRINE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 10 | DURSIBAN | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 11 | TILT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 12 | PILKARE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| OTHER(SPECIFY) | 99 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Part II: Use of Intermediate Consumption and Inputs (Season A, Phase I), Cont.

Expenditures on small farm equipments

| 2.13 Name of small tools and farm equipments | 2.14 Did you buy this tool/equipment during this season? <i>Yes=1 No=2 Skip to Question 2.25 if 2</i> | 2.15 How many did you buy during this season? | 2.16 How much did you pay for this tool/equipment?(unit price) | 2.17 Total amount spent on this tool/equipment | 2.18 Number received from a non agricultural donor? |
|--|---|---|--|--|---|
| | | Number | Amount(RWF) | Amount(RWF) | Number |
| 1. Hoe | | | | | |
| 2. Spring Hoe | | | | | |
| 3. Hoe majagu | | | | | |
| 4. Rake | | | | | |
| 5. Pick | | | | | |
| 6. Wheelbarrow | | | | | |
| 7. Shovel | | | | | |
| 8. Sprayer | | | | | |
| 9. Watering can | | | | | |
| 10. Scie | | | | | |
| 11. Sickle | | | | | |
| 12. Secataurs | | | | | |
| 13. Scythe | | | | | |
| 14. Axe | | | | | |
| 15. Machete | | | | | |
| 16. Billhook | | | | | |
| 17. Mixer | | | | | |
| 18. Mortar | | | | | |
| 19. Mill | | | | | |
| 20. Basket | | | | | |

Part II: Use of Intermediate Consumption and Inputs (Season A, Phase I), Cont.

| 2.13 Name of small tools and farm equipments | 2.14 Did you buy this tool/equipment during this season? <i>Yes=1 No=2 Skip to another tool/equipment if 2</i> | 2.15 How many did you buy during this season? | 2.16 How much did you pay for this tool/equipment?(unit price) | 2.17 Total amount spent on this tool/equipment | 2.18 Number received from a non agricultural donor? |
|--|--|---|--|--|---|
| | | Number | Amount(RWF) | Amount(RWF) | Number |
| 21. Sack | | | | | |
| 22. Big basket | | | | | |
| 23. Pitcher | | | | | |
| 24. Winnower | | | | | |
| 25. Basket | | | | | |
| 26. Basket | | | | | |
| 27. Churn | | | | | |
| 28. Calabash | | | | | |
| 29. Milk can | | | | | |
| 30. Milk jug/Milk container | | | | | |
| 31. Scales | | | | | |
| 32. Jerry-can | | | | | |
| 33. Barrel | | | | | |
| 34. Bike | | | | | |
| 35. Craft bike | | | | | |
| 36. Bowl | | | | | |
| 37. Others(specify) | | | | | |

THANK YOU FOR YOUR COOPERATION!