



SEASONAL AGRICULTURAL SURVEY 2021 ANNUAL REPORT

December 2021

SEASONAL AGRICULTURAL

SURVEY

2021

ANNUAL REPORT

| Seasonal Agricultural Survey (SAS) 2021 annual report was produced by the National Institute of Statistics of Rwanda (NISR). |
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| Seasonal Agricultural Survey 2021 report is obtained at NISR website: www.statistics.gov.rw |
| Additional information not available in the report may be obtained from the NISR Office in the Economic Statistics Unit |
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FOREWORD

Since 2012, the National Institute of Statistics of Rwanda (NISR), in partnership with the Ministry of Agriculture and Animal Resources (MINAGRI), National Agriculture Export Board (NAEB), and the Rwanda Agricultural Board (RAB), has been conducting the annual agricultural survey. The study aims at estimating the national crop production, cultivated and harvested area, crop yield, agricultural inputs, and practices crucial for monitoring progress on agriculture programs and policies in Rwanda.

This published report reflects the importance of the Seasonal Agricultural Survey (SAS) information for use as a tool to assist in addressing key agricultural issues and information needs that will inform policymakers and other stakeholders and allow more effective identification of priority intervention needs.

Therefore, I recommend stakeholders, government, researchers, partners, and the general public to optimally make use of the findings of this report.

I am grateful to NISR staff and other partners who worked tirelessly to ensure the 2021 Seasonal agricultural survey was successfully implemented.

Yusuf MURANGWA Director General, NISR TANDA (MISR)

EXECUTIVE SUMMARY

In the agricultural year 2020/2021, the National Institute of Statistics of Rwanda (NISR) conducted the Seasonal Agriculture Survey (SAS) covering three usual agricultural seasons. The main agricultural seasons in Rwanda are Season A which starts from September to February of the following year and Season B which starts from March to June. Season C is the shortest agricultural season with vegetables and sweet potato predominantly grown in swamps and Irish potato mostly grown in the volcanic agro-ecological zone. This report, therefore, consolidates the findings of all seasons and hence, highlights the findings mainly related to:

1. Land use:

- Agricultural land: this indicates land potential for agriculture, including land currently being used for farming as well as land that can be brought back into cultivation (fallow or pastureland).
- Arable land: land able to be grown and produce crops for food and feeds supply purposesThis area
 excludes land under permanent crops¹ and permanent pasture.
- Physical crop cultivated area: area occupied by crops. In other words, it can be called cropland;
- Pastureland: area under natural grasses reserved for livestock or occupied with fodder crops;
- Fallow land: cultivable land free for cultivation in a temporal period (less than 5 years);
- 2. Crop land: Cultivated land devoted to each grown crop.
- 3. Crop production: Amount of harvested crop used for food or livestock (quantified into kilograms or tons.)
- 4. Crop yield: It is a measurement of the amount of crop harvested per unit of land area (kg per hectare). It is used to determine the efficiency of food production.
- 5. Use of inputs (this assesses the use of improved seeds, fertilizers and pesticides)
- 6. Agricultural practices (practice of irrigation and soil protected against erosion) and others.

Estimates for major crops are prepared mainly to give timely and current district and national totals and averages. They are based on data obtained by a sample of surveyed small-scale plots and large-scale farmers. Survey data are supplemented by tea and coffee data from National Agriculture Export Board (NAEB) collected through the routine activities of monitoring coffee and tea production, and coffee census conducted every five years.

Land use

Results of SAS 2021 estimate the total country land area is estimated at 2.377 million of hectares for which 1.43 million hectares (60% of total country land) is used for agriculture. Out of the total agricultural land, 1.1 million hectares was used for Seasonal crops in season A, nearly 0.6 million hectares are area under permanent crops, while 0.131 million ha under permanent pasture.

¹ Permanent crops are crops produced from plants which last for many seasons, rather than being replanted after each harvest. Those crops are fruit trees, sugar cane, coffee, tea, banana, tree plantations, nuts trees...).

Likewise, season B estimate the total country land at 2.377 million hectares of which 1.395 million hectares (59% of total country land) are used for agriculture. Out of the total agricultural land, 1 million hectares was used for seasonal crops in season B, nearly 0.6 million hectares are area under permanent crops, while 0.148 million hectares were used for permanent pasture.

Crop area and production

The overall crop area for the year 2020/2021 has remained unchanged compared to the previous year.

Use of inputs

In 2021, SAS results show that 37.1 percent of farmers used improved seed in season A compared to 17.2 percent in season B and 23.8 percent in season C. In regards to fertilisers, 67 percent of farmers applied organic fertilisers in season A compared to 56.3 percent in season B and around 74 percent in season C, while 40.9 percent applied inorganic fertilizers in season A against 32.7 percent in season B and 68.3 percent in season C. Moreover, 22.4 percent of farmers used pesticides during pest control activities in their farms in season A against 17.9 percent in season B and 65.6 percent in season C.

Agricultural practices

The findings show that nearly 90% of interviewed farmers protected the cultivated land against erosion throughout the year, with 9.2 percent, 8.3 percent, and 59.1 percent of farmers practiced irrigation in seasons A, B, and C respectively, while about 33% of interviewed farmers practiced agroforestry. Table 0 enclosed the main indicators covered during the SAS 2021 are summarized hereunder in table 0

Table 0. Summary of Seasonal Agricultural Survey main indicators

| 040 | | SAS 2019 | | | SAS 2020 | | | SAS 2021 | |
|-----------------------|---------------|----------|-------|---------|---------------------------------------|-------|---------|----------|-------|
| SAS main indicators | | Season | | | Season | | | Season | |
| indicators | Α | В | С | Α | В | С | Α | В | С |
| Cultivated area for m | | | | | | | | | |
| Maize | 215,159 | 73,139 | - | 221,521 | 72,918 | - | 236,642 | 80,570 | - |
| Sorghum | 30,467 | 131,383 | - | 33,295 | 136,124 | - | 33,636 | 133,033 | - |
| Paddy rice | 14,671 | 18,225 | - | 14,507 | 15,077 | - | 15,374 | 16,302 | - |
| Wheat | 5,487 | 7,747 | - | 4,187 | 8,122 | - | 4,418 | 8,749 | - |
| Cassava | 195,135 | 187,511 | - | 190,447 | 192,156 | - | 200,313 | 147,320 | - |
| Sweet potato | 97,639 | 80,919 | 5,331 | 89,427 | 84,545 | 5,583 | 99,496 | 87,762 | 5,226 |
| Irish potato | 49,728 | 49,244 | 8,618 | 51,516 | 43,950 | 9,028 | 52,196 | 51,595 | 9,667 |
| Yams & Taro | 12,695 | 15,469 | - | 18,058 | 14,565 | - | 17,119 | 15,088 | - |
| Banana | 253,996 | 236,417 | - | 272,500 | 207,635 | - | 280,779 | 202,807 | - |
| Cooking banana | - | - | - | 106,409 | 62,054 | - | 108,451 | 71,262 | - |
| Dessert banana | - | - | - | 39,688 | 30,911 | - | 41,394 | 37,668 | - |
| Banana for beer | - | - | - | 126,402 | 114,670 | - | 130,934 | 93,877 | - |
| Bean | 299,443 | 282,099 | 1,128 | 362,199 | 278,213 | 2,681 | 389,149 | 301,658 | 3,748 |
| Pea | 17,658 | 6,859 | 255 | 10,530 | 6,229 | 502 | 11,116 | 7,521 | 542 |
| Groundnut | 23,929 | 19,990 | - | 14,609 | 21,292 | - | 15,978 | 21,534 | - |
| Soybean | 24,593 | 21,543 | 559 | 24,677 | 22,974 | 837 | 27,493 | 25,574 | 741 |
| Vegetables | 15,012 | 14,976 | - | 18,246 | 15,939 | 5,912 | 20,181 | 15,574 | 5,061 |
| Fruits | 8,383 | 7,454 | - | 7,256 | 7,824 | - | 11,206 | 8,371 | - |
| Harvested area for m | ajor crops (l | Ha) | | | | | • | | |
| Maize | 215,159 | 73,139 | - | 221,521 | 72,918 | - | 236,642 | 80,570 | - |
| Sorghum | 30,467 | 131,383 | - | 33,295 | 136,124 | - | 33,636 | 133,033 | - |
| Paddy rice | 14,671 | 18,225 | - | 14,507 | 15,077 | - | 15,374 | 16,302 | - |
| Wheat | 5,487 | 7,747 | - | 4,187 | 8,122 | - | 4,418 | 8,749 | - |
| Cassava | 36,960 | 44,667 | - | 41,160 | 46,509 | - | 42,284 | 47,837 | - |
| Sweet potato | 97,639 | 80,919 | 5,331 | 89,427 | 84,545 | 5,583 | 99,496 | 87,762 | 5,226 |
| Irish potato | 49,728 | 49,244 | 8,618 | 51,516 | 43,950 | 9,028 | 52,196 | 51,595 | 9,667 |
| Yams & Taro | 12,695 | 15,469 | - | 14,450 | 14,565 | - | 15,612 | 15,017 | - |
| Banana | 82,523 | 74,733 | - | 99,876 | 79,107 | - | 105,474 | 82,137 | - |
| Cooking banana | - | - | - | 35,735 | 22,089 | - | 38,916 | 24,193 | - |
| Dessert banana | - | _ | - | 14,980 | 11,337 | _ | 15,345 | 12,174 | - |
| Banana for beer | - | - | - | 49,161 | 45,681 | - | 51,213 | 45,770 | - |
| Beans | 299,443 | 282,099 | 1,128 | 362,199 | 283,104 | 2,681 | 389,149 | 301,584 | 3,748 |
| Pea | 17,658 | 6,859 | 255 | 10,530 | 6,229 | 502 | 11,116 | 7,521 | 542 |
| Groundnut | 23,929 | 19,990 | _ | 14,609 | 21,292 | _ | 15,978 | 21,534 | - |
| Soybean | 24,593 | 21,543 | 559 | 24,677 | 22,974 | 837 | 27,493 | 25,574 | 741 |
| Vegetables | 14,801 | 14,972 | - | 18,246 | 15,945 | 5,912 | 20,181 | 15,574 | 5,061 |
| Fruits | 6,585 | 5,623 | _ | 4,778 | 4,978 | - | 4,599 | 4,429 | - |
| Crop area under perm | | | | • | · · · · · · · · · · · · · · · · · · · | | , | , | |
| Banana | | 17.3 | | | 18.8 | | | | |
| Coffee | | 2.4 | | | 3.5 | | | | |
| Tea | | 2.6 | | | 2.5 | | | | |
| Fruits | | 0.5 | | | 0.6 | | | | |
| Pasture | | 8.9 | | | 8.3 | | | | |
| | | 0.0 | | | 0.0 | | 1 | | |

Table 0. Summary of Seasonal Agricultural Survey main indicators(cont'd)

| | | 2019 | | | 2020 | | | 2021 | |
|-----------------------|------------|---------|--------|-----------|---------|--------|-----------|---------|--------|
| SAS main | | Season | | | Season | | | Season | |
| indicators | Α | В | С | Α | В | С | Α | В | С |
| Production for major | crops (MT) | | | | | | | | |
| Maize | 331,090 | 90,128 | - | 353,999 | 94,634 | - | 378,641 | 104,041 | - |
| Sorghum | 37,584 | 122,042 | - | 42,231 | 128,258 | - | 44,039 | 134,331 | - |
| Paddy Rice | 59,286 | 72,291 | - | 52,225 | 64,279 | - | 63,950 | 67,808 | - |
| Wheat | 7,082 | 8,605 | - | 4,138 | 8,673 | - | 4,500 | 9,184 | - |
| Cassava | 523,117 | 658,708 | - | 578,545 | 701,037 | - | 601,291 | 718,584 | - |
| Sweet potato | 674,257 | 546,788 | 26,539 | 635,007 | 611,425 | 29,182 | 667,346 | 632,614 | 28,790 |
| Irish potato | 468,931 | 422,266 | 82,211 | 427,471 | 352,441 | 78,609 | 463,562 | 393,371 | 81,348 |
| Yams & Taro | 71,104 | 100,700 | _ | 85,414 | 102,628 | _ | 93,819 | 107,037 | · - |
| Banana | 1,020,141 | 830,491 | - | 1,100,082 | 931,991 | - | 1,152,365 | 991,501 | - |
| Cooking banana | _ | , - | _ | 502,972 | 410,259 | _ | 529,788 | 439,405 | - |
| Dessert banana | - | - | - | 120,868 | 138,090 | - | 124,546 | 142,487 | - |
| Banana for beer | _ | - | _ | 476,241 | 383,641 | - | 498,031 | 409,609 | - |
| Bean | 252,569 | 230,744 | 938 | 226,570 | 209,383 | 2,780 | 258,851 | 229,559 | 3,566 |
| Pea | | , - | 149 | 7,933 | 5,668 | 352 | 8,617 | 6,549 | 469 |
| Groundnut | 9,362 | 10,200 | _ | 5,762 | 10,542 | - | 6,313 | 10,763 | - |
| Soybean | 13,638 | 10,588 | 299 | 12,284 | 10,955 | 516 | 14,237 | 12,194 | 426 |
| Vegetables | 158,927 | 155,506 | _ | 160,114 | 166,272 | 52,492 | 159,669 | 172,936 | 56,979 |
| Fruits | 48,791 | 23,315 | _ | 23,542 | 24,830 | , - | 25,275 | 25,340 | · - |
| Yield for major crops | (Kg/ha) | , | | · | · | | , | · | |
| Maize | 1,539 | 1,232 | - | 1,598 | 1,298 | - | 1,600 | 1,291 | - |
| Sorghum | 1,234 | 929 | - | 1,268 | 942.2 | - | 1,309 | 1,010 | - |
| Paddy Rice | 4,041 | 3,967 | _ | 3,600 | 4,264 | _ | 4,160 | 4,159 | - |
| Wheat | 1,291 | 1,111 | _ | 988 | 1,068 | _ | 1,018 | 1,050 | _ |
| Cassava | 14,153 | 14,747 | _ | 14,056 | 15,073 | - | 14,220 | 15,021 | - |
| Sweet potato | 6,906 | 6,757 | 4,979 | 7,101 | 7,232 | _ | 6,707 | 7,208 | _ |
| Irish potato | 9,430 | 8,575 | 9,540 | 8,298 | 8,019 | _ | 8,881 | 7,624 | _ |
| Yams & Taro | 5,601 | 6,510 | , - | 5,911 | 7,046 | - | 6,009 | 7,128 | - |
| Banana | 12362 | 11113 | _ | 10,861 | 11,781 | _ | 10,926 | 12,071 | _ |
| Cooking banana | _ | _ | _ | 13,794 | 18,573 | _ | 13,614 | 18,163 | _ |
| Dessert banana | _ | _ | _ | 7,927 | 12,180 | _ | 8,116 | 11,704 | - |
| Banana for beer | _ | - | _ | 9,606 | 8,398 | - | 9,725 | 8,949 | - |
| Beans | 843 | 818 | 831 | 626 | 740 | 1036.9 | 665 | 761 | 952 |
| Pea | 516 | 895 | 585 | 753 | 910 | - | 775 | 871 | - |
| Groundnut | 1,539 | 1,232 | - | 1,598 | 1,298 | - | 1,600 | 1,291 | - |
| Soybean | 1,234 | 929 | - | 1,268 | 942.2 | - | 1,309 | 1,010 | - |
| Vegetables | 4,041 | 3,967 | _ | 3,600 | 4,264 | _ | 4,160 | 4,159 | _ |
| Fruits | 1,291 | 1,111 | _ | 988 | 1,068 | _ | 1,018 | 1,050 | _ |

Table 0. Summary of Seasonal Agricultural Survey main indicators(contd')

| - | | S | AS 2019 | | S | AS 2020 | | | SAS 2021 |
|---|--------|--------|---------|--------|--------|---------|---------|---------|----------|
| | | Season | | | Season | | | Season | |
| | Α | В | С | Α | В | С | Α | В | С |
| Share of pure crop in agricultural land | | | | | | | | | |
| Small Scale Farmers | - | - | - | 28.3 | 32.3 | - | 26.7 | 30.9 | 30.9 |
| Large Scale Farmers | - | - | - | 96.6 | 93.5 | - | 96.0 | 93.8 | - |
| Agricultural inputs | | | | | | | | | |
| Percentage of plots with improved seeds | 11.0 | 6.0 | 12.6 | 27.8 | 11.2 | 16.7 | 28.7 | 11.9 | 18.8 |
| Percentage of plots with organic fertilizer use | 52.8 | 43.8 | 66.7 | 61.9 | 52.4 | 67.0 | 66.3 | 55.3 | 71.5 |
| Percentage of plots with inorganic fertilizers use | 26.0 | 21.3 | 42.9 | 28.0 | 20.7 | 50.9 | 32.8 | 26.2 | 55.8 |
| Percentage of plots with pesticides use | 18.1 | 14.7 | 42.3 | 16.0 | 11.2 | 54.4 | 16.0 | 13.0 | 56.2 |
| Percentage of farmers who used improved seeds | 22.4 | 11.8 | 14.6 | 35.2 | 15.6 | 30.6 | 37.1 | 17.2 | 23.8 |
| Percentage of farmers who used organic fertilizer | 53.3 | 46.9 | 66.9 | 63.6 | 51.7 | 76.1 | 67.0 | 56.3 | 73.8 |
| Percentage of farmers who used inorganic fertilizers | 26.1 | 23.1 | 42.4 | 33.8 | 25.8 | 67.5 | 40.9 | 32.7 | 68.3 |
| Percentage of farmers who used pesticides | 17.6 | 14.5 | 42.3 | 21.2 | 15.3 | 64.1 | 22.4 | 17.9 | 65.6 |
| Percentage of land area sown with improved seeds | 10.9 | 6.1 | 12.2 | 34.3 | 15.2 | 20.5 | 27.6 | 15.2 | 19.4 |
| Percentage of fertilized land with organic fertilizer | 57.2 | 46.5 | 70.6 | 59.9 | 48.7 | 66.1 | 64.1 | 52.7 | 68.6 |
| Percentage of fertilized land with inorganic fertilizer | 26.3 | 21.3 | 56.2 | 32.1 | 24.0 | 64.4 | 38.9 | 31.5 | 71.1 |
| Percentage of land with pesticides application | 17.1 | 14.2 | 58.9 | 19.6 | 14.1 | 67.4 | 20.2 | 16.8 | 71.6 |
| Agricultural practices | | | | | | | | | |
| Percentage of farmers who practiced irrigation | 3.1 | 3.5 | 26.4 | 6.5 | 11.8 | 66.9 | 9.2 | 8.3 | 59.1 |
| Percentage of farmers who practiced anti-erosion activities | 72.5 | 73.8 | 86.2 | 88.9 | 88.0 | 94.6 | 91.0 | 90.8 | 94.9 |
| Agricultural area | | | | | | | | | |
| Total land area (,000Ha) | 2377.0 | 2377.1 | - | 2377.1 | 2377.1 | - | 2,377.1 | 2,377.1 | - |
| Agriculture land (,000Ha) | 1411.0 | 1414.7 | - | 1394.9 | 1394.9 | - | 1,436.6 | 1,339.8 | - |
| Percentage of agricultural area | 59.4 | 59.5 | - | 58.7 | 58.7 | - | 60.4 | 56.4 | - |
| Area under permanent crops (,000Ha) | 514.0 | 495.5 | - | 554.1 | 591.5 | - | 592.4 | 545.3 | - |
| Area under permanent pasture (,000Ha) | 147.0 | 151.0 | - | 147.9 | 140.7 | - | 131.6 | 132.1 | - |
| Modern irrigated agricultural land (,000Ha) | 18.0 | 21.4 | - | 19.0 | 21.7 | 0.9 | 24.4 | 23.9 | 1.6 |
| Area under seasonal crops(,000Ha) | 1041.0 | 1024.5 | - | 1042.1 | 1068.5 | - | 1,111.8 | 989.3 | - |
| Temporary fallow land(,000Ha) | 107.7 | 114.6 | - | 104.5 | 129.4 | - | 96.1 | 113.4 | - |
| Temporarily meadow and pasture(,000Ha) | 8.1 | 8.1 | - | 10.6 | 13.8 | - | 10.0 | 9.4 | - |

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Acronyms and Abbreviations

%: Percentage

AHS: Agricultural Household Survey

CAPI: Computer Assisted Personal Interviewing

Cs Entry: Census and Survey Processing data collection application

CSPro: Census and Survey Processing System

DAP: Diammonium Phosphate

GIS: Geographic Information System

GPS: Global Positioning System

Ha: Hectares

KCL/MOP: Potassium Chloride or Muriate of Potash

Kg: Kilograms

LSF: Large-Scale Farmer

MINAGRI: Ministry of Agriculture and Animal Resources

MFS: Multiple-Frame Sampling

MT: Metric Tones

NAEB: National Agriculture Export Board NGOs: Non- Governmental Organization

NISR: The National Institute of Statistics of Rwanda

NPK: Nitrogen, Phosphorus and Potassium NST1: National Strategy for Transformation

PSUs: Primary Sampling Units

PSTA: Strategic Plan for Agriculture Transformation

RAB: Rwanda Agriculture Board SAS: Seasonal Agricultural Survey

Sqm: Square meter

SSF: Small Scale Farmer SSUs: Second Sampling Units

STATA: Software for Statistics and data Science

SAS: Seasonal Agricultural Survey

I. INTRODUCTION

Agriculture continues to be one of the most important pillars of economic growth for Rwanda, and a much emphasis for agriculture transformation has been underpinned under the new national development strategy. In recognition of its potential in economic development, food security and poverty reduction, the government has set an ambitious agricultural agenda under the new strategy for transformation of agriculture (PSTA 4) aiming at transformation of Rwandan agriculture from a sector characterised by low productivity to a sector using knowledge to increase productivity and investing in value addition and commercialization.

Quality agriculture statistics are useful in evaluating the performance of national agricultural programs and hence, imperative for evidence-based decision making. While the use of statistics in decision-making processes continues to grow, the demand for agriculture data is also increasing. In this regard, the National Institute of Statistics of Rwanda (NISR) in collaboration with the Ministry of Agriculture and Animal Resource (MINAGRI) conducts the Seasonal Agricultural Survey (SAS) to gather various agriculture information mainly related to potential agricultural land use; crop area, yield and production; agricultural inputs, agricultural practices as well as other agricultural items.

The survey data are supplemented by administrative records on tea and coffee from the National Agriculture Export Board (NAEB). These data are collected through routine activities during monitoring of coffee and tea production. Other agriculture related information including total of quantity of agricultural inputs used, total agricultural exports, crop varieties grown, crop intensification program among others is obtained from MINAGRI working closely with Rwanda Agriculture Board (RAB), district agronomists, and other partners working in the agriculture sector.

The NISR has steered the Seasonal Agriculture Survey covered three main agricultural seasons A, B and C. Season A (September to February of the following year), season B (March to June) while season C is a shorter season mainly for vegetables and sweet potato grown in swamps and Irish potato grown in the volcanic agro-ecological zone sector.

1.1.Objective of the Survey

The main objective of SAS is to provide timely, accurate, reliable and comprehensive agricultural statistics that describe the structure of agriculture in Rwanda mainly in terms of land use, crop area, yield and crop production to monitor current agricultural and food supply conditions and to facilitate evidence-based decision making for the development of the agricultural sector.

Therefore, this report presents thoroughly the findings of 2021 Seasonal Agricultural Survey in relation to:

1. Land use:

- Agricultural land: this includes land under farming and land that can be taken back into cultivation (fallow or pastureland). Agricultural land indicates the potential land for agriculture.
- Arable land: land able to be grown and produce crops for food and feeds supply purpose. This area of land excludes land under permanent crops and permanent pasture.
- Physical crop cultivated area: this is the area of land occupied by crops.
- Pastureland: area under natural grasses reserved for livestock or occupied by fodder crops;
- Fallow land: cultivable land free for cultivation in a temporal period (less than 5 years);
- 2. Crop land: Cultivated land devoted to any grown crop
- 3. Crop production: Quantity of harvested crop produce used for food/livestock (kilograms or tons)
- 4. Crop yield: It is a measurement of the quantity of crop harvested per unit of land area (kg per hectare). It is used to determine the efficiency of food production at a certain period.
- 5. Use of inputs (this assesses the level of use of improved seeds, fertilizers, pesticides and other soil remedies)
- 6. Agricultural practices (practices of irrigation and erosion control measures) and others.

II. SURVEY DESIGN

2.1. Sample frame design

The SAS uses a Multiple-Frame Sampling (MFS) methodology providing the basis for conducting probability surveys. This approach is mainly based on complete coverage of the area and enables to avail agricultural data with precise survey estimates. The methodology encompasses two sample frames:

- the area frame from which the main survey sample is drawn; and
- a list frame of large-scale farmers (LSF) to complement the area frame, with the aim to cover crops
 mostly grown by large scale farmers which are not easily covered in the area frame. The large-scale
 farmer should have at least 10 hectares of agricultural holdings to be included.

The process of area frame construction is a three-pronged process involving the following steps: land cover classification, land stratification and sampling of segment.

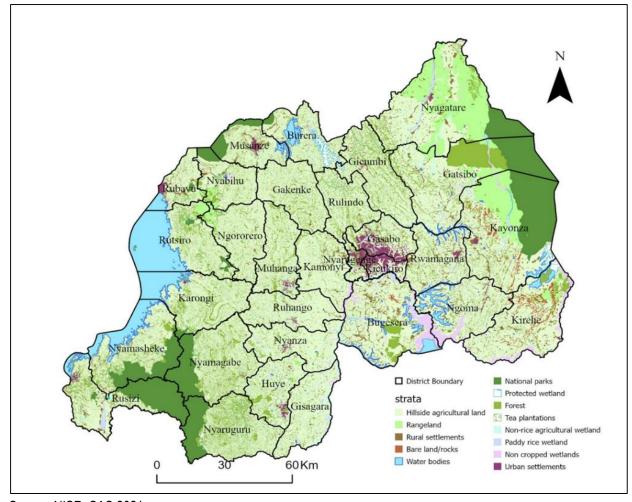
2.1.1. Land classification

Land classification was done using Rwanda land cover map combining different geographical layers available in the country, plus a photo interpretation of a series (2010 to 2019) of high-resolution satellite images from Worldview. As a result, the Rwanda land cover map has been divided into 13 land cover classes (as shown in Table 1).

Table 1: List of Rwanda land cover classes

| Code | Land cover class name | Area (Ha) | Percentage share |
|------|-------------------------------|-----------|------------------|
| 1.0 | Consolidated tea plantations | 17,821 | 0.7 |
| 1.1 | Hillside agricultural land | 1,343,933 | 53.1 |
| 2.1 | Non-rice agricultural wetland | 55,807 | 2.2 |
| 2.2 | Paddy rice wetland | 21,848 | 0.9 |
| 2.3 | Non cropped wetlands | 37,743 | 1.5 |
| 3.0 | Rangeland | 144,490 | 5.7 |
| 4.1 | Urban settlements | 31,612 | 1.2 |
| 4.2 | Rural settlements | 78,928 | 3.1 |
| 5.0 | Bare land/rocks | 15,404 | 0.6 |
| 6.0 | Water bodies | 135,295 | 5.3 |
| 7.0 | National parks | 241,455 | 9.5 |
| 8.0 | Protected wetland | 12,201 | 0.5 |
| 9.0 | Forest plantations | 395,001 | 15.6 |

Source: NISR, SAS, 2021



Map 1: Rwanda land classification map

Source: NISR, SAS 2021

Among 13 land cover classes, some of them are related to agricultural activities. The next step of building the area sample frame was to group land cover classes into strata in order to identify agricultural strata to be considered in sample frame.

2.1.2. Stratification

Out of 13 land cover classes, 5 are considered for the agricultural survey frame. These classes are tea plantation, hillside agricultural land, non-rice agricultural land, paddy rice agricultural wetland, and rural settlement (potential for agricultural production of kitchen gardens crops, fruit trees, and livestock). The remaining land cover classes are considered as excluded from the frame of potential land for agriculture. The sampling frame is made of a set of square clusters(segments) of 9 hectares each covering the whole country. By overlapping the clusters layer with land cover classes layer, each cluster was assigned a dominant land cover class as a stratum definition, basing on a defined threshold as follow:

Table 2. List of strata

| Stratum | Stratum name | Definition |
|---------|---------------------------------|--|
| 1.0 | Dominant hill crop land stratum | Clusters with Hillside agricultural land cover class greater or equal to 60 percent of the total area of the cluster |
| | | · · |
| 2.0 | Dominant Wetland crops stratum | Clusters with non-rice wetland land cover class greater than 25 percent of total area of the cluster |
| 3.0 | Dominant rangeland | Clusters with rangeland land cover class greater or equal to 60 percent of the total area of the cluster |
| 4.0 | Mixed stratum | The rest of other possible combinations |
| 9.0 | Excluded stratum | All clusters with excluded land cover classes greater or equal to 50 percent of the total area of the cluster |

Source: NISR, SAS, 2021

In addition, tea plantation class data which are recorded by the National Agriculture Export Board and large-scale farms which are completely enumerated during the Seasonal Agricultural Survey, were not considered in the agricultural strata taken in sample frame. This means that only dominant hill crop land stratum, dominant wetland crops stratum, dominant rangeland stratum and mixed stratum were considered as area frame from which a sample segment was selected.

Table 3. Population size per district by stratum (number of segments)

| | | Dominant | Domir | nant | Mixed | Excluded | |
|------------|-------------------------|---------------|--------|-------|---------|----------|---------|
| | Dominant hill crop land | wetland crops | rangel | and | stratum | stratum | Total |
| Nyarugenge | 515 | 238 | - | | 114 | 605 | 1,472 |
| Gasabo | 2,111 | 296 | - | | 405 | 1,959 | 4,771 |
| Kicukiro | 517 | 148 | - | | 90 | 1,099 | 1,854 |
| Nyanza | 5,847 | 522 | - | | 418 | 678 | 7,465 |
| Gisagara | 5,485 | 684 | - | | 520 | 858 | 7,547 |
| Nyaruguru | 3,783 | 388 | - | | 1,290 | 5,757 | 11,218 |
| Huye | 3,869 | 369 | - | | 837 | 1,375 | 6,450 |
| Nyamagabe | 5,577 | 226 | - | | 1,194 | 5,134 | 12,131 |
| Ruhango | 5,631 | 338 | - | | 475 | 508 | 6,952 |
| Muhanga | 5,003 | 340 | - | | 662 | 1,177 | 7,182 |
| Kamonyi | 5,605 | 406 | - | | 679 | 636 | 7,326 |
| Karongi | 6,039 | 114 | - | | 675 | 1,924 | 8,752 |
| Rutsiro | 4,673 | - | | 353 | 691 | 1,639 | 7,356 |
| Rubavu | 2,668 | - | - | | 574 | 525 | 3,767 |
| Nyabihu | 3,766 | - | | 272 | 607 | 1,324 | 5,969 |
| Ngororero | 5,630 | 112 | | 359 | 545 | 872 | 7,518 |
| Rusizi | 3,866 | 159 | - | | 839 | 5,322 | 10,186 |
| Nyamasheke | 4,849 | 137 | - | | 923 | 4,640 | 10,549 |
| Rulindo | 4,209 | 312 | - | | 622 | 1,167 | 6,310 |
| Gakenke | 5,919 | 255 | - | | 669 | 986 | 7,829 |
| Musanze | 3,241 | 120 | - | | 634 | 1,859 | 5,854 |
| Burera | 4,437 | 259 | - | | 510 | 1,965 | 7,171 |
| Gicumbi | 5,919 | 214 | - | | 868 | 2,202 | 9,203 |
| Rwamagana | 5,130 | 173 | - | | 1,098 | 1,162 | 7,563 |
| Nyagatare | 6,688 | 532 | | 9,057 | 1,160 | 3,869 | 21,306 |
| Gatsibo | 7,358 | 434 | | 1,048 | 1,074 | 7,675 | 17,589 |
| Kayonza | 7,376 | 280 | | 3,857 | 1,262 | 8,694 | 21,469 |
| Kirehe | 7,874 | - | | 548 | 1,337 | 3,445 | 13,204 |
| Ngoma | 6,379 | - | - | | 1,035 | 2,244 | 9,658 |
| Bugesera | 8,155 | 452 | - | | 1,626 | 4,135 | 14,368 |
| National | 148,119 | 7,508 | 1 | 5,494 | 23,433 | 75,435 | 269,989 |

2.1.3. Sampling procedures

Out of 5 defined agricultural strata, only dominant hill crop land stratum, dominant wetland crops stratum, dominant rangeland stratum and mixed stratum were considered as land potential for agriculture. The remaining stratum is the non-agricultural land. Note that clusters covered by tea plantations were not considered in the area sample frame due to reasons stated above. Thus, SAS is conducted on 4 above mentioned strata to cover other major crops.

In 2021 agricultural year, the total sample used was 1200 segments. At first stage,1200 segments were selected and allocated at district level based on the power allocation approach (Bankier2, 1988). Sampled segments inside each district were distributed among strata with a proportional-to-area criterion.

Table 4: Allocation of sampled segments per district by stratum

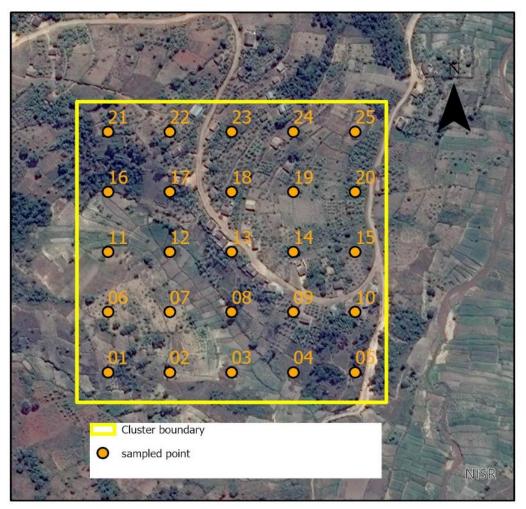
| Stratum | | | | | | | | |
|------------|---------------|------------------|-----------|---------|-------------|----------|--|--|
| | Dominant hill | Dominant wetland | Dominant | Mixed | | | | |
| District | crop land | crops | rangeland | stratum | Total A & B | Season C | | |
| Nyarugenge | 12 | 6 | - | 2 | 20 | 10 | | |
| Gasabo | 22 | 4 | - | 3 | 29 | 14 | | |
| Kicukiro | 13 | 5 | - | 2 | 20 | 9 | | |
| Nyanza | 37 | 4 | - | 2 | 43 | 21 | | |
| Gisagara | 33 | 5 | - | 3 | 41 | 18 | | |
| Nyaruguru | 25 | 3 | - | 7 | 35 | 20 | | |
| Huye | 27 | 3 | - | 5 | 35 | 17 | | |
| Nyamagabe | 36 | 2 | - | 6 | 44 | 17 | | |
| Ruhango | 36 | 3 | - | 3 | 42 | 18 | | |
| Muhanga | 33 | 3 | - | 4 | 40 | 13 | | |
| Kamonyi | 36 | 3 | - | 4 | 43 | 17 | | |
| Karongi | 38 | 2 | - | 3 | 43 | 11 | | |
| Rutsiro | 32 | - | 2 | 4 | 38 | 7 | | |
| Rubavu | 21 | - | - | 4 | 25 | 30 | | |
| Nyabihu | 27 | - | 2 | 3 | 32 | 37 | | |
| Ngororero | 36 | 2 | 2 | 3 | 43 | 10 | | |
| Rusizi | 27 | 2 | - | 5 | 34 | 2 | | |
| Nyamasheke | 31 | 2 | - | 5 | 38 | 11 | | |
| Rulindo | 28 | 3 | - | 4 | 35 | 13 | | |
| Gakenke | 37 | 2 | - | 4 | 43 | 14 | | |
| Musanze | 24 | 2 | - | 4 | 30 | 37 | | |
| Burera | 30 | 2 | - | 3 | 35 | 46 | | |
| Gicumbi | 37 | 2 | - | 5 | 44 | 14 | | |
| Rwamagana | 34 | 2 | - | 6 | 42 | 14 | | |
| Nyagatare | 31 | 5 | 25 | 7 | 68 | 21 | | |
| Gatsibo | 38 | 3 | 5 | 5 | 51 | 20 | | |
| Kayonza | 32 | 2 | 13 | 5 | 52 | 11 | | |
| Kirehe | 45 | - | 3 | 6 | 54 | 8 | | |
| Ngoma | 39 | - | - | 6 | 45 | 8 | | |
| Bugesera | 45 | 3 | - | 8 | 56 | 15 | | |
| Total | 942 | 75 | 52 | 131 | 1,200 | 503 | | |

Source: NISR, SAS, 2021

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² Bankier M.D. (1988) Power allocations: determining sample sizes for subnational areas. The American Statistician, Vol. 42, n. 3 pp. 174-177.

At second stage, 25 sample points were systematically selected, following a special distance of 60 meters between points. Sample points are reporting units within each segment, where enumerators go to every point, locate and delineate plots in which the sample points fall, and collect records of land use and related information. The recorded information represents the characteristics of the whole segment which are extrapolated to the stratum level and hence the combination of strata within each district provides district area related statistics.



Map 2: Map showing square cluster(segment) with 25 sampled points

Source: NISR, SAS, 2021

2.1.4. Weighting Procedures

Based on the stratified two-stage sample design used with the new area frame, the first stage sampling probability for the sample segments in each stratum is calculated as:

$$p_{1h} = \frac{n_h}{N_h}$$

where:

 p_{1h} = probability of selection of sample segments in stratum h (district by stratum)

 n_h =number of sample segments selected in stratum h

 N_h = Total number of segments in the area frame for stratum h in each stratum

The second stage probability was calculated at the plot level based on the assumption that the plots within each sample segment were implicitly selected with PPS using the area of the plot as the measure of size. Therefore, the second stage probability of selection can be expressed as follows:

$$p_{2hi} = \frac{g_{hi} \times A_{hij}}{A_{hi} \times g_{hij}}$$

Where:

 $p2_h$ = Probability of selection of the plot in segment h

ghi = Number of grid squares selected in the i-th sample segment of stratum h;

Ahij = Area of the j-th sample plot selected in the i-th sample segment of stratum h

Ahi = Area of the i-th sample segment of stratum h:

ghij = Number of selected grid squares in the j-th sample plot of the i-th sample segment of stratum h

The weight of a sample plot is equal to the inverse of the first and second stage probabilities of selection:

$$W_{Phij} = \frac{1}{p_{1h} \times p_{2hi}} = \frac{N_h \times A_{hi} \times g_{hij}}{n_h \times g_{hi} \times A_{hij}}$$

Where:

 W_{Phij} =weight for the j-th sample plot in the i-th sample segment in stratum h

2.2. Data Collection design

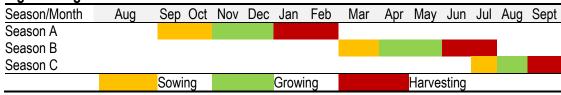
During the SAS 2021 exercise, data collection covered three main agricultural seasons A, B and C and was conducted into two separate phases in each season: the first phase, known as screening activity (post-planting phase), consists of visiting all sampled segments and demarcating all plots with sampled points with the aim of covering the information related to land area, planted crops and land use. While the second phase involves capturing of production data by visiting sampled agricultural plots identified from screening activity as well as all Large-Scale Farmers (LSF). To ensure the smooth completion of the SAS workload, NISR employed 128 Enumerators, 29 Team Leaders and 3 Editors. All fieldwork staff hold a degree in agriculture sciences and were consistently trained by NISR headquarter staff before starting data collection in each season. Moreover, a higher-level supervision was organised and done by staff from NISR who frequently visited the field teams during each phase of data collection in order to ensure the quality of collected data.

2.2.1. SAS timeframe and agricultural seasons in Rwanda

The Seasonal Agriculture Survey (SAS) data collection was conducted following the three ordinary agricultural seasons. The SAS field activities were carried out during the regular seasons' calendar that covers the approximate monthly periods as follows:

- Season A started in September 2020 and ended with February 2021
- Season B started in March 2021 and ended with June 2021; while
- Season C that starts in July and ends in September 2021, it is a short agricultural season with vegetables
 and sweet potato predominantly grown in marshlands, whereas Irish potato are grown in volcanic agroecological zone.

Figure 1: Agricultural seasons calendar



Source: NISR, SAS, 2021

Specifically, During the 2021 SAS, the field work for season A covered the period from 2nd December 2020 to 4th February 2021 while season B data collection was conducted from 2nd May to 30th June 2021. In both cases, data collection was carried out in 1,200 segments and 330 large scale farmers' holdings across the country. During the farmer's interviews, the survey covered 13,807 small scale farmers and 330 large scale farmers. Besides, the data collection was carried out in 843 sites potential to grow season C crops in addition to 1200 segments and covered the period from 15th August to 8th September 2021.

2.2.2. Data collection tools and materials

Seasonal Agricultural Survey used two questionnaires:

- Screening Questionnaire: Screening questionnaire is used to collect information on the delineated plot.
 This information is mainly related to land use, plot area and crop cultivated.
- Plot Questionnaire: Plot questionnaire is used to collect information mainly related to crop production, inputs used (seeds, fertilizers and pesticides), and agricultural practices in the sampled plots.

The computer assisted personal interview (CAPI) data collection methodology was used during the SAS exercise and it mainly comprises three different software applications:

- **Collector:** which is GIS based application, is used to identify and navigate the enumerator team to the exact GPS sample-point location and for mapping the plot boundary for GIS area determination,
- Survey 123: which is GIS based application, used to collect screening data for Large-scale farmers.
- CS Entry application, which is a CSPro data entry application used on Android tablets to collect data for interview of plot questionnaire.

In addition, each enumerator and team leader had adequate materials composed of enumerator's instruction manual, android tablet, charger, Power banks, pens, notebooks, pencils, calculator, weighing scales, Global Positioning System (GPS), boots, etc. Teams were given vehicles for transport facilitation.

2.2.3. Field data collection procedures

Before proceeding to the field, enumerators and their team leaders must check if they have required materials for their fieldwork. Filed workers use Explorer software to direct them to sampled segment. Data are collected as follows:

- Screening Activity of the Segment: Arriving at the segment, field workers use GPS to direct them to
 the sampled point inside the segment. Arriving at the point, enumerators identify plot boundary with the
 guide of the farmer and delineate the plot using collector with external GPS connected to the tablet. For
 large scale farmers, complete enumeration of plots with at least 10 hectares is done.
- Farm Interview: After screening activity, only agricultural plots are given to enumerators to collect information provided in the plot questionnaire.

2.3. Data processing and analysis

CAPI data collection method allows enumerators to collect and enter data using tablets and send those data to the server at headquarter where data are received by NISR staff, checked for consistency and thereafter transmitted to analysts for tabulation and reporting using STATA Excel software.

2.4. Concepts, definitions and estimation methods

1. Total land area

Total land area at district level is the district area excluding area under inland water bodies. The definition of inland water bodies generally includes major rivers and lakes.

2. Agricultural area

Agricultural area includes arable land, land under permanent crops and permanent pasture.

3. Arable land

Arable land includes land defined by the FAO as land under temporary crops (double-cropped areas are counted only once), temporary meadows for mowing or pasture, land under market and kitchen gardens and land temporarily fallow (less than five years).

The abandoned land resulting from shifting cultivation is not included in this category. Data for arable land are not meant to indicate the amount of land that is potentially cultivable.

4. Permanent crop land

Permanent crops are sown or planted once and occupy the land for some years and do not need to be replanted after each annual harvest, such as cocoa, coffee and rubber. This category includes flowering shrubs, fruit trees, nut trees and vines, but excludes trees grown for wood or timber. The following crops are considered as permanent crops in SAS: Cooking banana, Dessert banana, Banana for beer, Avocado, Coffee, Sugar cane, Macadamia, Olive, Mango, Apple, Papaya, Orange, Lemon, Guava, Mulberry, Stevia, Jatropha, Palm, and Tea.

5. Permanent pastureland

Land used permanently (five years or more) for herbaceous forage crops, either cultivated or growing wild (wild prairie or grazing land).

6. Irrigated agricultural land

Area equipped for irrigation, which is actually irrigated, (sometimes expressed as a percentage of the total land area). Part of the area equipped for irrigation refers to area equipped to provide water to crops and includes areas equipped for full/partial control irrigation, equipped lowland areas, and areas equipped for spate irrigation. Part of the area equipped for irrigation which is actually irrigated refers to physical areas. Irrigated land that is cultivated more than once a year is counted only once.

7. Physical area

Physical area refers to the total area of the plot as physically measured. The physical agricultural area in a district is estimated by aggregating all weighted individual agricultural plots area for that district.

8. Crop area (cultivated area)

Crop area refers to the area occupied by a given crop in a plot considering its density or occupation. In context of Rwanda as well as many African countries, mixed cropping system is a general practice in agriculture.

This practice makes it complex to estimate area under crop cultivation. In case of pure stands (for crop completely covering a plot), crop area is equal or less to physical plot area (if a crop is partially covering the plot, the share is estimated then applied to the plot area). In case of mixed crops, the share of each crop in the plot is estimated by enumerator by eye estimation method and applied to the physical area of the plot to obtain area for each specific crop planted in plot. In this context, the crop share is eye estimation of crop density or occupation in a plot (in %) basing on spacing between plants. Cultivated area at district level is equal to the total weighted crop areas within plots in the whole district.

Examples

- In case of pure stands, crop area will be equal to the physical area if the crop entirely covers the whole plot. Otherwise, the crop area will be less than physical area. For example, a plot of 1 hectare in which maize was grown and completely occupies the whole plot (100 % occupied), it means that cultivated area for maize is 1 hectare. On the other side let us assume that the maize crop occupies 80 % of the total plot area. In that case the area of maize equals 0.8 hectares (1hectare times 0.8).
- In case of mixed cropping system, specifically seasonal crops the crop area is less than physical area. For example, a plot of 1 hectare grown with maize and beans which occupies 60 % and 40 % of total plot area respectively.
 - The maize area will be 0.6 hectare (1hectare times 0.6), and beans area will be 0.4(1hectare times 0.4). It is important to note that sum of shares of seasonal crops do not exceed one hundred percent.
- When seasonal and perennial crops are mixed in same plot, since perennial crops are permanent crops in nature, their shares are treated separately from seasonal crops. The sum of seasonal crops share does not exceed 100 %, while for perennial crops shares are given based on density (spacing between trees) and it may exceed 100 percent. For example, a plot of 1 hectare grown with maize, bean and cassava with 60 %, 40 % and 50% shares respectively.
- Maize area will be 0.6 hectare (1hectare times 0.6), beans area will be 0.4(1hectare times 0.4), while cassava area will be 0.5 hectare (1hectare times 0.5).

9. Developed area

Developed area is the land covered by crops. Due to mixed cropping (over exploitation of agriculture land or under exploitation in case pure cropping), developed area can be less or greater than the physical area.

Basing on the example provided above of the plot in which maize, beans and cassava have been mixed, maize has 0.6, beans have 0.4 while cassava has 0.5 ha. The developed area equals the sum of the crops area equivalent to 1.5 ha.

10. Harvested area

Area harvested is defined as the total number of hectares for all crops that is harvested in a given agriculture season. In case of crops considered as seasonal, the harvested area is assumed to be equal to the cultivated area. For perennial crops a farmer can decide to harvest a portion of land and stores the remaining production in the farm or harvest the whole plot for commercial or other purposes. In this case, the proportion of harvested area is estimated and applied to the plot area to obtain actual harvested area.

For example, cassava which occupies 0.5 hectare has 5,000 trees of cassava. if the farmer only harvested 1,250 trees. In this case, the farmer has harvested only a quarter (0.125hectares) of the cultivated area.

11. Crop yield

Crop yield is defined as total reported quantity of harvested crop over the harvested area of that crop.

12. Crop production

Crop production is the product of crop yield and crop area (harvested). At district level, crop production is estimated by taking crop yield of crop produces times the total harvested area in the district.

III. MAIN FINDINGS

This section presents the main findings covered during the SAS 2021 seasons A, B and C. These results are mainly related to area (physical land use, cultivated area, and harvested area), crop yield and production, agricultural inputs as well as agricultural practices in Rwanda.

3.1. Agricultural land use (1000Ha) for 2021 Season A and B

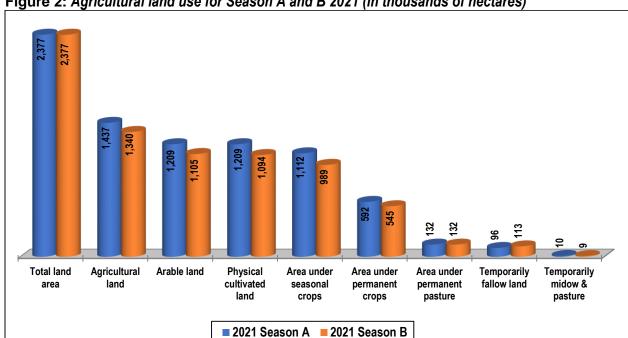
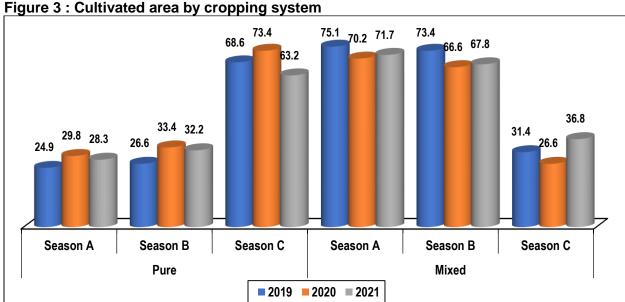


Figure 2: Agricultural land use for Season A and B 2021 (in thousands of hectares)

Source: NISR, SAS, 2021

The total country land area is estimated at 2.377 million of hectares for which 1.43 million hectares (56.4% of total country land) is used for agriculture. Out of the total agricultural land, 1.1 million hectares was used for Seasonal crops in season A, nearly 0.6 million hectares are area under permanent crops, 0.131 million ha under permanent pasture while 0.131 million ha was fallow coverage. For season B, 1.340 million hectares (56.4% of total country land) is used for agriculture, 1 million hectares was used for Seasonal crops, nearly 0.6 million hectares are area under permanent crops, 0.132 million ha under permanent pasture while 0.113 million ha was fallow. (See district details in Table 6).

3.2. Crop area, yield and production for major crops



Source: NISR, SAS, 2021

Figure 3 above shows that, the mixed cropping system was done on 71.7 percent of cultivated area in season A compared to 67.8 percent in season B and 36.8 percent in the small season C.

Maize:

• In 2021, Maize was cultivated area estimated at 236,642 hectares and 80,570 hectares in season A and B respectively, an increase of 7 percent and 10 percent in season A and B when compared to respective seasons of 2020. Maize production was 378,641 metric tons in season A and 104,041 metric tons in season B, an increase of 7 percent and 10 percent in season A and B when compared to respective season of 2020. The average yield was 1.6 tons and 1.3 tons in season A and B. (See district details in Tables 8-22).

Sweet potato:

- In 2021, sweet potatoes were cultivated to area estimated at 99,496 hectares and 87,762 hectares in A and B respectively, an increase of 11 percent in season A and 4 percent in season B when compared to respective seasons of 2020. The production of sweet potatoes was 667,346 metric tons and 632,614 metric tons in season A and B respectively, thus an increase of 5 percent and 3 percent when compared to 2020 season A and B production while the average yield was 6,7 tons and 7.2 tons per hectare in season A and B respectively.
- The results of 2021 season C show that the cultivated area under sweet potatoes was 5,583 hectares, a
 decrease of 6 percent compared to 2020 season C estimates. Likewise, the production for 2021 season
 C decreased by 1 percent compared to the same season's estimates of the previous year. The average
 yield of sweet potato was estimated at 5.5 tons per hectare (see district details in table 8-22).

Irish potatoes:

- In 2021, Irish potatoes was cultivated to area estimated at 52,196 hectares in season A and 51,595 hectares in season B, an increase of 1 percent and 17 percent in season A and B when compared to respective seasons of 2020. Irish potatoes production was 463,562 metric tons in season A and 393,371 metric tons in season B, an increase of 8 percent and 12 percent in season A and B when compared to respective seasons of 2020. The average yield of Irish potato was 8,9 tons per hectares in season A and 7.6 hectares per hectare in season B.
- Results of 2021 season C show that the cultivated area under Irish potatoes was 9,667 hectares, an
 increase of 7 percent when compared to the same season of 2020. The overall production was estimated
 at 81,348 metric tons, which is an increase of 3 percent when compared to the estimates of the same
 season in 2020. The average yield for Irish potatoes was estimated at 8.4 tons per hectare (see district
 details in table 8-22).

Cassava:

• In 2021 cassava was cultivated to area estimated at 200,313 hectares in season A, and 147,320 hectares in season B, an increase of 5 percent in season A and 23 percent when compared to respective seasons of 2020. Besides, harvested area was estimated at 42,284 hectares for season A and 47,837 hectares for season B, up 3 percent for both seasons when compared to respective seasons of 2020. Cassava production was 601,291 metric tons in season A and 718,584 metric tons in season B, an increase of 4 percent and 2.5 percent in season A and B when compared to respective seasons of 2020. The average yield for cassava was 14.2 tons in season A and 15 tons in season B (See district details in Tables 8-22).

Paddy rice:

• In 2021, the cultivated area for paddy rice was estimated to be 15,374 hectares in season A and 16,302 hectares in season B, an increase of 5 percent season A and 8 percent in season B when compared to respective seasons of 2020. Paddy rice production was 63,950 metric tons in season A and 67,808 metric tons in season B, an increase of 22 percent in season A and 5.5 percent in season B when compared to respective season of 2020. The average yield was 4,1 tons per hectare in season A and 4.2 tons per hectares in season B. (See district details in Tables 8-22).

Banana:

• In 2021, the total cultivated area for banana was estimated at 280,779 hectares in season A and 202,807 hectares in season B, an increase of 3 percent in season A and 2 percent in season B when compared to respective seasons of 2020. Besides, harvested area was estimated at 42,284 hectares for season A and 47,837 hectares for season B, up 6 percent for season A and 3 percent for season B when compared to respective seasons of 2020. The production of banana was estimated at 1,152,365 metric tons in season A and 991,501 metric tons in season B, an increase of 5 percent in season A and 6 percent in season B when compared to respective seasons of 2020. The average yield of banana was 10,9 tons per hectare in season A and 12.1 tons per hectare in season B. (See district details in Tables 8-22).

Beans:

- In 2021, bean's cultivated area was estimated at 389,149 ha in season A and 301,658 in season B, an increase of 7 percent for both seasons A and B when compared to respective seasons of 2020. Bean's production was estimated at 258,851 metric tons in season A and 229,559 metric tons in season B, an increase of 14 percent in season A and 9.6 tons in season B when compared to respective seasons of 2020. The average yield of beans was 0.67 tons per hectare in season A and 0.76 tons in season B.
- The results of 2021 Season C show that beans cultivated area was 3,748 hectares an increase of 40 percent when compared to season C of 2020 while the production was 3,566 metric tons, an increase of 28 percent respectively when compared to season C of 2020. The average yield was estimated at 0.85 tons per hectare (see district details in table 8-22).

3.3. Agricultural inputs

The survey results related to use of agricultural inputs (seeds, fertilizers and pesticides) are presented in terms of percentage of farmers who applied such agricultural inputs during the season.

3.3.1. Use of seeds

91.9 92.8 87.0 85.3 79.2 73.4 26.6 20.8 14.7 13.0 8.1 7.2 Season A Season B Season C Season A Season B Season C **Improved Seeds Traditional seeds 2020 2021**

Figure 4: Types of seeds used (%)

Source: NISR, SAS, 2021

Figure 3 above shows that, out of total seeds used in 2021 87 percent in season A were traditional compared to 92.8 percent in season B and 73.4 in season C. Improved seeds accounted for 13 percent in season A compared to 7.2 percent in season B and 26.6 percent in season C.

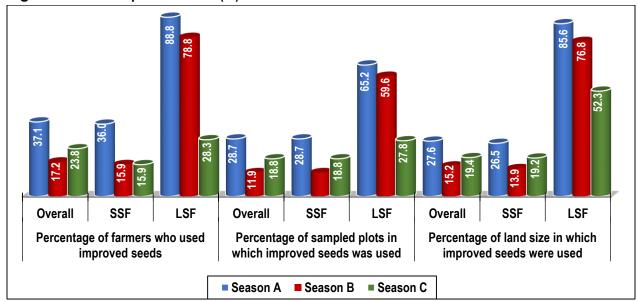


Figure 5: Use of improved seeds (%)

Source: NISR, SAS, 2021

In 2021, 37.1 percent of farmers used improved seeds in season A against 17.2 percent in season B and 23.8 percent in season C. In regards to farmer type, 36 percent of small-scale farmers (SSF) and 88.8 percent of Large-scale farmers (LSF) used improved seeds in season A while 15.9 percent of small-scale farmers (SSF) and 78.8 percent of Large-scale farmers (LSF) used improved seeds in season B.

Table 5: Source of improved seeds (%)

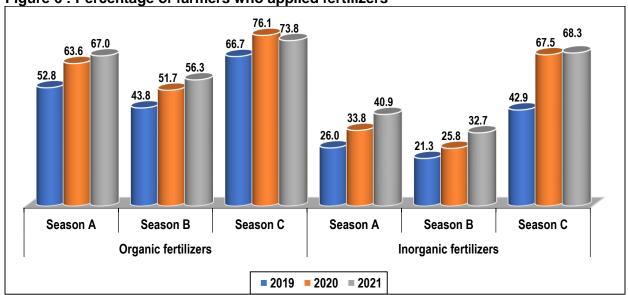
| | | 2021 | | 2020 | | | |
|-------------------------------|----------|----------|----------|----------|----------|----------|--|
| | Season A | Season B | Season C | Season A | Season B | Season C | |
| NGOs/Companies | 39.3 | 30.3 | 2.7 | 28.8 | 20.0 | 1.7 | |
| Agro dealers | 37.6 | 38.9 | 39.8 | 36.6 | 41.6 | 48.4 | |
| Government (MINAGRI/RAB/NAEB) | 8.3 | 9.2 | 12.6 | 16.5 | 13.1 | 5.8 | |
| Market | 5.2 | 7.1 | 28.6 | 5.4 | 9.4 | 31.0 | |
| Recognized seed multipliers | 4.3 | 7.5 | 9.3 | 5.4 | 9.6 | 6.6 | |
| Agriculture cooperative | 4.3 | 5.9 | 6.7 | 6.1 | 5.3 | 3.9 | |
| Other source | 1.0 | 1.0 | 0.3 | 1.4 | 0.9 | 2.7 | |

Source: NISR, SAS, 2021

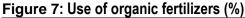
In season A, 39.3 percent of improved seeds came from NGO/companies, 37.6 percent from agro-dealers, 8.3 percent from government, 5.2 percent purchased from market, 4.3 percent from cooperatives, and 4.3 percent from seeds multipliers. In season B, 38.9 percent of improved seeds came from agro-dealers, and 30.3 percent from NGO/companies. Improved seeds were used mostly for crops such as paddy rice, maize, vegetables, fruits and wheat. (See details in Tables 29-34).

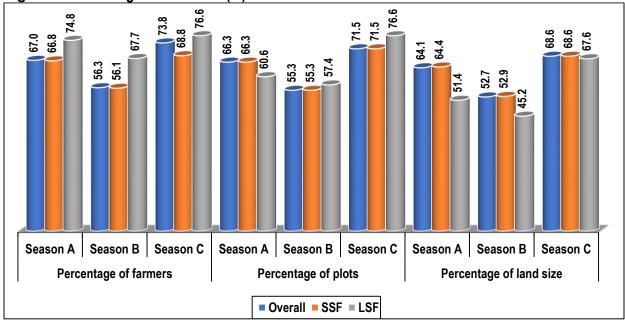
3.3.2. Use of fertilizers





In 2021, 67 percent of farmers applied organic fertilizer in their farms in season A against 56.3 percent in season B and 73.8 percent in season C, while the inorganic fertilizer was applied by 40.9 percent in season A compared to 32.7 percent in season B and 68.3 percent in season C.





Source: NISR, SAS, 2021

In regards to farmer types, 66.8 percent of small-scale farmers against 74.8 percent of large-scale farmers applied organic in season A while 56.1 percent of small-scale farmers against 67.7 percent of large-scale farmers applied organic fertilizer in season B (See details in Tables 35-37).

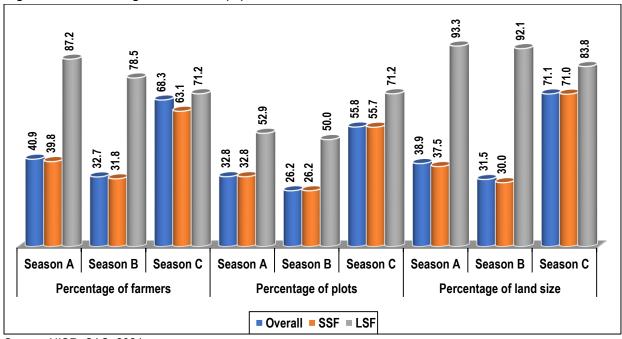


Figure 8: Use of inorganic fertilizer (%)

Source: NISR, SAS, 2021

In 2021, 40.9 percent of famers applied inorganic fertilizer in season A against 32.7 percent in season B and 68.3 in season C. In regards to farmer types, 39.8 percent of small-scale farmers against 87.2 percent of large-scale farmers applied inorganic fertilizer in season A compared to 31.8 percent of small-scale farmers and 78.5 percent of large-scale farmers in season B.

Table 6 : Percentage of farmers by source of inorganic fertilizers

| | | 2021 | | 2020 | | |
|-------------------------------|----------|----------|----------|----------|----------|----------|
| | Season A | Season B | Season C | Season A | Season B | Season C |
| Government (MINAGRI/RAB/NAEB) | 3.6 | 3.5 | 1.7 | 5.8 | 5.3 | 1.3 |
| Agro-dealers | 46.0 | 50.3 | 64.4 | 51.0 | 54.7 | 68.0 |
| NGOs/Companies | 42.2 | 36.9 | 15.1 | 33.4 | 30.1 | 14.1 |
| Market | 3.8 | 5.9 | 10.6 | 5.1 | 6.3 | 10.8 |
| Agriculture cooperative | 3.7 | 3.1 | 7.8 | 3.7 | 3.4 | 5.3 |
| Other sources | 0.7 | 0.4 | 0.3 | 1.0 | 0.2 | 0.5 |

Source: NISR, SAS, 2021

In regards to source of fertilizers, in season A, 46 percent of famers bought inorganic fertilizers from agrodealers; 42.2 percent of farmers gained inorganic fertilizers from NGOs/companies while in season B, 50.3 percent and 36.9 percent of farmers sourced the inorganic fertilizer from agro dealers and NGOs/companies respectively.

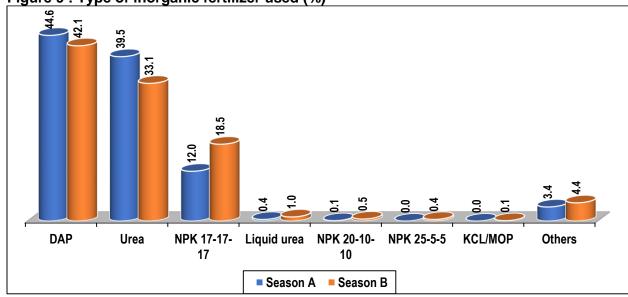
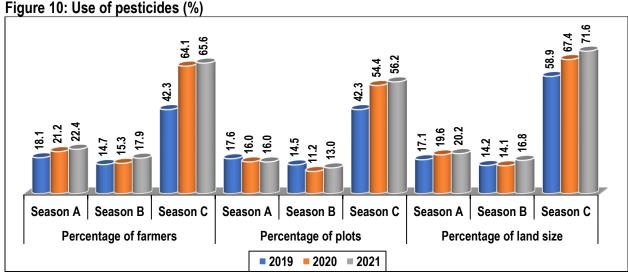


Figure 9: Type of inorganic fertilizer used (%)

Source: NISR, SAS, 2021

In regards to type of fertilizers, DAP was used by 44.6 percent of farmers, UREA was used by 39.5 percent of farmers while NPK was used by 12.1 percent of farmers in season A. In season B, DAP was used by 42.1 percent of farmers, UREA was used by 33.1 percent of farmers while NPK was used by 18.5 percent of farmers. (See details in Tables 38-47).

3.3.3. Use of pesticides



Source: NISR, SAS, 2021

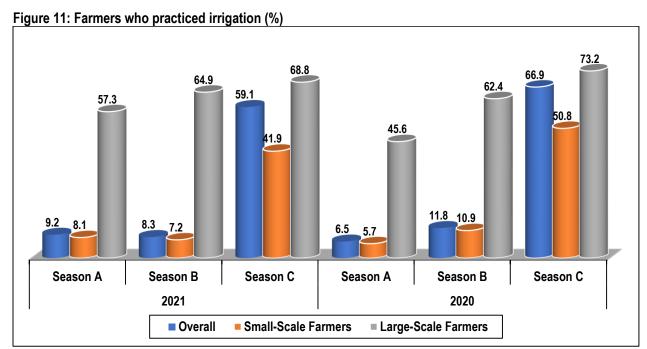
In 2021, 22.4 percent of farmers applied pesticides in season A against 17.9 percent of farmers in season B and 65.6 percent of farmers in season C. in regards to farmer types, 20.9 percent of small-scale farmers and 87.2 percent of Large-scale farmers applied pesticides in season A compared to 16.6 percent of small-scale farmers and 79.5 percent of large-scale farmers in season B.

In regards to type of pesticides, 37.8 percent of farmers applied Rocket, 20.9 percent of farmers applied Dithane and 14.3 percent applied Cypermethrin in season A while in season B, 28.8 percent of farmers applied Rocket, 24.6 percent applied Dithane, and 15.8 percent applied Cypermethrin. (See details in Tables 48-51).

3.4. Agricultural practices

During the SAS 2021, information about agricultural practices were collected and the data are presented in terms of percentage of farmers who were involved into such practices.

3.4.1. Irrigation practices



Source: NISR, SAS, 2021

In 2021, 9.2 percent of farmers practiced irrigation in season A compared to 8.3 percent of farmers in season B. In regards to farmer types 8.1 percent of small-scale farmers and 57.3 percent of large-scale farmers practiced irrigation in season A compare to 7.2 percent of small-scale farmers and 64.9 percent of large-scale farmers in season B.

Traditional irrigation technique was practiced by 40 percent of farmers in season A compared to 32.3 percent in season B and 80.4 percent in season C while modern irrigation was practiced by 60.1 percent in season A, 67.8 percent in season B and 19.6 percent in season C. In regards to source of water used for irrigation Lakes/stream is predominant across seasons with 53.7 percent in season A, 51.2 percent in season B and 53.3 percent in season C followed by underground water by 25.6 percent in season A, 27.9 percent in season B and 43.8 percent in season C. (See details in Tables 52-57).

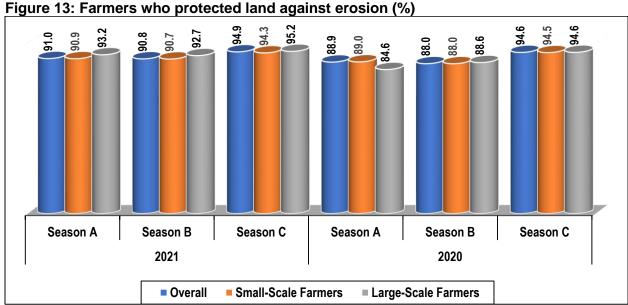
3.4.2. Mechanisation

Figure 12: Farmers who used any mechanical equipment for agriculture activities (%) 22.1 17.4 17.1 12.9 0.9 0.5 0.8 0.5 0.8 0.4 0.6__0.4 0.7 0.5 0.8 0.5 0.3 0.6 Season A Season B Season C Season A Season B Season C 2021 2020 Overall SSF LSF

Source: NISR, SAS, 2021

In 2021, 0.9 percent of farmers used mechanical equipment for agriculture in season A compared to 0.8 percent of farmers in season B and 0.5 in season C. In regards to farmer types 22.1 percent of large-scale farmers practiced irrigation in season A compare to 17.4 percent of large-scale farmers in season B. (See details in Tables 53-55)

3.4.3. Erosion control measures



In 2021, 91 percent of farmers practiced anti-erosion activities in season A compared to 90.8 percent in season B and 94.9 in season C. in regards to farmer types, 90.9 percent of small-scale farmers and 93.2 percent of large-scale farmers protected their land against erosion in season A compared to 90.7 percent of small-scale farmers and 92.7 percent of large-scale farmers in season B.

In regards to types of anti-erosion used, cover plants was the most used type of anti-erosion with 57.2 percent of farmers in season A against 58.7 percent in season B and 29.2 percent in season C. In regards to erosion degree, splash erosion or low erosion appeared the most across season with 55 percent in season A, 56.6 percent in season B and 58.3 percent in season C while severe erosion cases were few across seasons with 2 percent in season A, and 1.6 percent in season B. (See details in Tables 52-57).

3.5 Sowing dates

The SAS 2021 Season A results indicate that 30 percent of crops were planted in September in the dates between 01-15/09 and 16-30/09 2020, and those crops include maize, beans, Irish potatoes, sorghum, peas, cassava and groundnuts. 24 percent of crops were sown in October in the dates between 01-15/10 2020, while the rest of crops have been sown after October 2020. For 2021 season B, 28.7 percent of the crops were sown before in February 2021, 22.7 percent in march 2021, while the rest have been sown after 31/3/2021. For Season C 2021, 36.4 percent of crops were grown in June 2021 and 27.7 percent in May 2021 (see district details in table 26 and 27).

3.6 Gross Value Added (GVA)

The Gross Value-Added value of different crops is shown in current prices at constant price of 2017. The results shown that during the 2021 year the gross value added of crops such as maize, sorghum, Paddy rice, cassava, sweet potatoes, banana for beer, cooking banana, Irish potatoes and beans. increased comparing to the 2020 year. While the Gross Value Added for crops such as wheat, dessert banana, groundnut, peas, and soya remained constant compared to previous year.

Table 7: Main crops GVA in constant prices (RWF/ha)

| | | | GVA in cons | tant prices | | |
|-----------------|-----------|-----------|-------------|-------------|-----------|--------------|
| Crops | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
| Maize | 402,114 | 309,457 | 365,527 | 373,066 | 389,059 | 387,753.86 |
| Sorghum | 274,987 | 296,000 | 298,689 | 274,485 | 280,068 | 299,995.94 |
| Paddy rice | 1,304,073 | 1,633,520 | 1,492,544 | 1,718,397 | 1,691,890 | 1,799,479.73 |
| Wheat | 237,012 | 282,068 | 306,210 | 329,278 | 289,132 | 303,795.29 |
| Cassava | 177,496 | 305,145 | 1,377,459 | 1,629,739 | 1,642,935 | 1,653,321.67 |
| Sweet potato | 808,499 | 784,244 | 899,497 | 890,254 | 932,227 | 903,968.81 |
| Irish potato | 1,230,891 | 1,713,831 | 1,444,199 | 1,700,490 | 1,544,227 | 1,551,234.10 |
| Cooking banana | 185,884 | 199,565 | 3,715,919 | 3,623,122 | 3,180,479 | 3,089,891.86 |
| Dessert banana | 122,667 | 117,981 | 2,163,072 | 1,481,763 | 1,162,979 | 1,162,822.31 |
| Banana for beer | 108,416 | 102,332 | 1,122,757 | 879,672 | 931,198 | 958,934.51 |
| Beans | 401,317 | 391,605 | 410,264 | 391,121 | 318,642 | 334,062.72 |
| Pea | 1,086,082 | 1,060,761 | 964,611 | 1,049,992 | 1,365,309 | 1,355,647.18 |
| Groundnut | 177,694 | 187,362 | 221,069 | 183,218 | 187,008 | 186,607.63 |
| Soybean | 55,189 | 52,694 | 48,631 | 61,358 | 57,232 | 55,754.17 |
| Overall GVA | 853,218 | 906,817 | 965,556 | 1,013,106 | 1,039,414 | |

MAIN TABLES

Table 8. Season A 2021_Agricultural land use per district (,000Ha)

| | | <u></u> | % of | V | Physical | Area under | Area under | | Temporarily | Area under |
|------------|------------|--------------|--------------|---------|------------|------------|------------|-------------|-------------|------------|
| | Total land | Agricultural | agricultural | Arable | cultivated | seasonal | permanent | Temporary | meadow | permanent |
| District | area | land | land | land | land | crops | crops | fallow land | and pasture | pasture |
| Nyarugenge | 13.1 | 6.2 | 47.4 | 5.4 | 5.9 | 5.1 | 3.1 | 0.3 | 0.0 | 0.0 |
| Gasabo | 42.7 | 22.3 | 52.3 | 20.7 | 19.9 | 18.8 | 9.0 | 1.9 | 0.7 | 0.5 |
| Kicukiro | 16.6 | 6.6 | 39.9 | 5.1 | 5.7 | 4.5 | 3.3 | 0.7 | 0.0 | 0.3 |
| Nyanza | 67.1 | 51.0 | 75.9 | 47.9 | 44.8 | 42.1 | 20.7 | 5.8 | 0.5 | 0.3 |
| Gisagara | 67.3 | 43.7 | 64.9 | 42.8 | 37.9 | 37.0 | 16.6 | 5.8 | 0.1 | - |
| Nyaruguru | 100.7 | 36.0 | 35.7 | 32.4 | 31.7 | 28.1 | 12.0 | 4.2 | 0.3 | |
| Huye | 58.1 | 35.3 | 60.7 | 34.0 | 33.1 | 31.7 | 14.5 | 2.2 | 0.1 | 0.0 |
| Nyamagabe | 109.1 | 50.5 | 46.3 | 44.8 | 45.6 | 39.8 | 17.6 | 4.9 | 0.4 | |
| Ruhango | 62.6 | 45.7 | 73.0 | 42.1 | 42.3 | 38.7 | 14.5 | 3.3 | 0.7 | 0.1 |
| Muhanga | 64.4 | 41.1 | 63.8 | 36.8 | 37.0 | 32.7 | 19.4 | 4.0 | 0.6 | - |
| Kamonyi | 65.8 | 43.8 | 66.5 | 39.2 | 41.3 | 36.8 | 17.5 | 2.4 | 0.4 | 0.1 |
| Karongi | 78.9 | 44.6 | 56.6 | 37.8 | 40.3 | 34.0 | 17.9 | 3.8 | 0.6 | 0.6 |
| Rutsiro | 66.0 | 41.6 | 63.0 | 31.5 | 30.4 | 26.3 | 18.5 | 5.2 | 0.3 | 6.0 |
| Rubavu | 33.8 | 25.1 | 74.2 | 21.9 | 22.5 | 19.9 | 7.2 | 2.0 | 0.0 | 0.6 |
| Nyabihu | 53.6 | 36.3 | 67.8 | 32.0 | 30.2 | 29.9 | 7.0 | 1.9 | 0.2 | 4.2 |
| Ngororero | 67.5 | 47.5 | 70.4 | 41.9 | 41.2 | 38.4 | 22.2 | • | 0.3 | 2.8 |
| Rusizi | 91.4 | 38.0 | 41.5 | 36.1 | 37.1 | 35.3 | 13.8 | 0.9 | 0.0 | - |
| Nyamasheke | 94.8 | 41.7 | 44.0 | 34.9 | 40.3 | 33.4 | 20.9 | 1.5 | 0.1 | - |
| Rulindo | 56.7 | 36.7 | 64.7 | 33.9 | 34.5 | 31.7 | 13.9 | 2.2 | 1.0 | - |
| Gakenke | 70.1 | 48.9 | 69.8 | 44.6 | 46.1 | 41.8 | 19.9 | 2.6 | 0.2 | 0.2 |
| Musanze | 50.9 | 30.8 | 60.5 | 30.4 | 29.4 | 28.7 | 5.1 | 1.5 | 0.2 | - |
| Burera | 58.4 | 37.9 | 64.8 | 37.4 | 35.5 | 35.0 | 4.7 | 2.4 | 0.2 | - |
| Gicumbi | 82.5 | 54.3 | 65.8 | 51.8 | 50.7 | 47.9 | 15.3 | 3.6 | 1.0 | - |
| Rwamagana | 65.3 | 47.0 | 71.9 | 40.7 | 42.1 | 38.8 | 23.2 | 1.8 | 0.4 | 3.0 |
| Nyagatare | 191.1 | 146.2 | 76.5 | 73.7 | 75.2 | 70.9 | 88.6 | 2.8 | 0.0 | 68.2 |
| Gatsibo | 153.6 | 77.4 | 50.4 | 61.7 | 66.7 | 59.4 | 40.1 | 2.2 | 0.0 | 8.5 |
| Kayonza | 179.2 | 94.4 | 52.7 | 66.0 | 60.6 | 57.3 | 44.6 | 8.6 | 0.1 | 25.1 |
| Kirehe | 114.9 | 78.2 | 68.1 | 67.7 | 69.6 | 64.4 | 34.2 | 3.3 | 0.1 | 5.3 |
| Ngoma | 80.5 | 55.6 | 69.1 | 49.9 | 51.0 | 46.7 | 25.3 | 3.1 | 0.5 | 1.5 |
| Bugesera | 120.4 | 72.3 | 60.1 | 64.2 | 60.4 | 56.6 | 21.8 | 7.7 | 1.0 | 4.3 |
| National | 2,377.1 | 1,436.6 | 60.4 | 1,209.4 | 1,208.8 | 1,111.8 | 592.4 | 96.1 | 10.0 | 131.6 |

Table 9. Season B 2021_Agricultural land use per district (,000Ha)

| | | | % of | • | Physical | Area under | Area under | | Temporarily | Area under |
|------------|------------|--------------|--------------|---------|------------|------------|------------|-------------|-------------|------------|
| | Total land | Agricultural | agricultural | Arable | cultivated | seasonal | permanent | Temporary | meadow and | permanent |
| District | area | land | land | land | land | crops | crops | fallow land | pasture | pasture |
| Nyarugenge | 13.1 | 5.1 | 38.9 | 4.5 | 4.8 | 4.2 | 2.3 | 0.3 | 0.1 | 0.0 |
| Gasabo | 42.7 | 19.5 | 45.8 | 18.1 | 15.6 | 14.2 | 6.4 | 3.8 | 0.4 | 0.1 |
| Kicukiro | 16.6 | 5.4 | 32.4 | 4.6 | 4.5 | 4.2 | 2.3 | 0.4 | 0.1 | 0.5 |
| Nyanza | 67.1 | 34.4 | 51.3 | 33.4 | 29.1 | 28.3 | 9.0 | 5.1 | 0.3 | 0.2 |
| Gisagara | 67.3 | 38.2 | 56.8 | 36.7 | 33.0 | 31.5 | 11.8 | 5.2 | 0.1 | - |
| Nyaruguru | 100.7 | 32.2 | 32.0 | 29.1 | 26.9 | 23.6 | 9.4 | 5.4 | 0.6 | - |
| Huye | 58.1 | 28.7 | 49.4 | 27.7 | 26.1 | 25.1 | 10.5 | 2.6 | 0.2 | - |
| Nyamagabe | 109.1 | 43.2 | 39.6 | 38.6 | 37.9 | 33.6 | 13.0 | 5.0 | 0.3 | 0.2 |
| Ruhango | 62.6 | 43.3 | 69.1 | 41.1 | 39.8 | 37.6 | 10.7 | 3.5 | 0.6 | - |
| Muhanga | 64.4 | 40.0 | 62.1 | 35.3 | 34.9 | 30.1 | 17.9 | 5.1 | 0.5 | - |
| Kamonyi | 65.8 | 42.1 | 64.0 | 37.5 | 39.3 | 34.7 | 18.2 | 2.8 | 0.3 | - |
| Karongi | 78.9 | 41.8 | 53.0 | 36.0 | 34.3 | 28.5 | 13.4 | 7.5 | 0.5 | - |
| Rutsiro | 66.0 | 40.1 | 60.8 | 29.6 | 27.3 | 22.8 | 17.4 | 6.8 | 0.3 | 6.1 |
| Rubavu | 33.8 | 23.3 | 68.8 | 21.7 | 21.5 | 20.1 | 6.1 | 1.5 | 0.5 | 0.3 |
| Nyabihu | 53.6 | 36.5 | 68.1 | 32.1 | 26.8 | 26.3 | 6.2 | 5.6 | 0.6 | 4.1 |
| Ngororero | 67.5 | 38.2 | 56.6 | 32.2 | 29.5 | 26.4 | 15.8 | 5.8 | 0.5 | 2.8 |
| Rusizi | 91.4 | 34.8 | 38.1 | 32.6 | 33.6 | 31.2 | 12.1 | 1.2 | 0.0 | - |
| Nyamasheke | 94.8 | 35.4 | 37.4 | 27.0 | 34.1 | 25.5 | 16.9 | 1.3 | 0.1 | - |
| Rulindo | 56.7 | 39.8 | 70.2 | 36.0 | 35.6 | 32.5 | 18.5 | 3.4 | 0.1 | 0.8 |
| Gakenke | 70.1 | 47.9 | 68.3 | 42.5 | 42.9 | 37.6 | 19.3 | 4.9 | 0.2 | 0.1 |
| Musanze | 50.9 | 25.5 | 50.0 | 24.8 | 22.5 | 21.8 | 3.3 | 2.9 | 0.3 | - |
| Burera | 58.4 | 36.9 | 63.2 | 36.3 | 33.8 | 33.5 | 4.2 | 2.9 | 0.2 | 0.2 |
| Gicumbi | 82.5 | 51.3 | 62.2 | 48.5 | 47.2 | 44.2 | 16.8 | 4.0 | 8.0 | - |
| Rwamagana | 65.3 | 50.8 | 77.7 | 42.6 | 46.6 | 41.3 | 27.8 | 1.3 | 0.5 | 2.8 |
| Nyagatare | 191.1 | 145.9 | 76.3 | 72.9 | 75.9 | 71.3 | 93.7 | 1.6 | 0.0 | 68.3 |
| Gatsibo | 153.6 | 71.9 | 46.8 | 54.9 | 59.9 | 51.1 | 37.0 | 3.6 | 0.1 | 8.4 |
| Kayonza | 179.2 | 91.3 | 50.9 | 59.9 | 58.3 | 54.0 | 45.7 | 5.8 | 0.1 | 27.2 |
| Kirehe | 114.9 | 65.0 | 56.5 | 54.0 | 56.7 | 51.5 | 24.5 | 2.5 | - | 5.7 |
| Ngoma | 80.5 | 55.3 | 68.6 | 48.4 | 52.1 | 45.2 | 27.2 | 2.9 | 0.5 | 0.2 |
| Bugesera | 120.4 | 76.1 | 63.2 | 65.8 | 63.6 | 57.3 | 28.0 | 8.6 | 0.7 | 4.0 |
| National | 2,377.1 | 1,339.8 | 56.4 | 1,104.6 | 1,094.3 | 989.3 | 545.3 | 113.4 | 9.4 | 132.1 |

Table 10. 2021_Area under agricultural practices

| | Modern i | rrigated ag | ricultural | | al area unde | er erosion | | ıltural area ı | | | | | er fertilizer a | | |
|------------|----------|-------------|------------|---------|--------------|------------|---------|----------------|--------|---------|----------------|--------|-----------------|-----------------|--------|
| District | | land (Ha) | | | control (Ha) | | | oforestry tre | | | ganic fertiliz | | | ganic fertilize | |
| | Season | Season | Season | Season | Season | Season | Season | Season | Season | Season | Season | Season | Season | Season | Season |
| | Α | В | С | Α | В | С | Α | В | С | Α | В | С | Α | В | С |
| Nyarugenge | 30 | 51 | 98 | 2,572 | 2,596 | - | 2,764 | 2,596 | - | 784 | 443 | 326 | 2,908 | 2,231 | 131 |
| Gasabo | 362 | 300 | - | 14,375 | 16,321 | - | 8,472 | 10,494 | - | 4,376 | 3,274 | 341 | 10,005 | 8,446 | 385 |
| Kicukiro | 258 | 97 | 22 | 3,233 | 1,940 | - | 2,609 | 2,866 | - | 1,917 | 1,473 | 50 | 2,117 | 1,729 | 27 |
| Nyanza | 633 | 696 | 154 | 30,175 | 28,937 | - | 12,468 | 11,448 | - | 7,747 | 4,707 | 247 | 21,220 | 10,608 | 399 |
| Gisagara | 1,630 | 3,339 | 16 | 25,017 | 22,682 | - | 13,907 | 14,622 | - | 11,172 | 9,561 | 265 | 18,904 | 12,181 | 311 |
| Nyaruguru | 313 | 379 | 48 | 29,472 | 29,932 | - | 13,285 | 12,683 | - | 16,373 | 11,577 | 460 | 21,902 | 16,842 | 974 |
| Huye | 1,091 | 984 | 18 | 25,010 | 25,259 | - | 10,822 | 12,831 | - | 7,816 | 4,441 | 220 | 21,309 | 13,781 | 307 |
| Nyamagabe | 133 | 122 | 0 | 38,657 | 36,683 | - | 14,624 | 12,954 | - | 15,545 | 11,847 | 76 | 27,341 | 22,646 | 234 |
| Ruhango | 1,608 | 1,093 | 20 | 39,213 | 32,598 | - | 11,919 | 12,855 | - | 4,575 | 4,334 | 72 | 22,986 | 17,057 | 262 |
| Muhanga | 153 | 153 | 18 | 31,954 | 32,151 | - | 7,817 | 7,619 | - | 3,421 | 4,008 | 75 | 22,550 | 18,961 | 276 |
| Kamonyi | 263 | 348 | 0 | 33,890 | 30,568 | - | 14,223 | 12,947 | - | 5,180 | 4,271 | 226 | 20,706 | 21,230 | 272 |
| Karongi | | 63 | 10 | 32,555 | 34,325 | - | 13,289 | 15,774 | - | 14,911 | 7,609 | 37 | 26,709 | 18,253 | 60 |
| Rutsiro | | | - | 29,530 | 28,513 | - | 11,597 | 11,303 | - | 11,368 | 9,756 | 23 | 19,920 | 15,518 | 60 |
| Rubavu | | | - | 19,760 | 18,250 | - | 8,360 | 6,626 | - | 8,514 | 11,368 | 961 | 5,350 | 7,640 | 446 |
| Nyabihu | | | 218 | 26,392 | 26,926 | - | 15,477 | 14,825 | - | 15,587 | 17,722 | 3,171 | 17,450 | 16,375 | 2,733 |
| Ngororero | | | 35 | 35,119 | 35,260 | - | 8,459 | 9,400 | - | 15,831 | 11,927 | 47 | 32,692 | 22,692 | 139 |
| Rusizi | 1,525 | 1,537 | 85 | 26,623 | 22,888 | - | 20,701 | 20,620 | - | 18,961 | 11,062 | 282 | 23,524 | 15,562 | 239 |
| Nyamasheke | 346 | 371 | 0 | 30,287 | 28,882 | - | 21,730 | 22,373 | - | 19,125 | 11,446 | 61 | 25,821 | 16,564 | 100 |
| Rulindo | 1,124 | 154 | 88 | 32,772 | 29,031 | - | 9,462 | 8,510 | - | 12,307 | 6,927 | 309 | 25,686 | 26,414 | 399 |
| Gakenke | 181 | 146 | 0 | 42,362 | 44,533 | - | 19,447 | 21,396 | - | 24,040 | 17,997 | 315 | 39,544 | 33,028 | 369 |
| Musanze | | | 0 | 24,336 | 23,469 | - | 9,705 | 8,419 | - | 12,260 | 12,717 | 2,470 | 16,849 | 14,390 | 2,331 |
| Burera | | | 66 | 30,012 | 29,829 | - | 4,726 | 8,207 | - | 14,129 | 10,973 | 2,420 | 25,622 | 22,715 | 2,037 |
| Gicumbi | 127 | 95 | 57 | 43,443 | 44,749 | - | 14,336 | 11,851 | - | 14,491 | 11,951 | 273 | 39,861 | 31,079 | 344 |
| Rwamagana | 697 | 1,335 | 57 | 33,602 | 36,353 | - | 21,258 | 22,533 | - | 16,908 | 13,914 | 325 | 24,914 | 20,638 | 114 |
| Nyagatare | 2,988 | 2,383 | 493 | 38,704 | 36,312 | - | 36,672 | 23,132 | - | 28,744 | 33,545 | 798 | 27,746 | 24,607 | 394 |
| Gatsibo | 2,313 | 2,238 | 0 | 65,307 | 57,270 | - | 35,086 | 33,526 | - | 22,662 | 16,293 | 86 | 40,295 | 29,230 | 105 |
| Kayonza | 2,795 | 2,043 | 80 | 28,342 | 36,044 | - | 21,903 | 24,554 | - | 17,925 | 17,943 | 143 | 26,089 | 20,005 | 89 |
| Kirehe | 2,946 | 3,123 | - | 37,655 | 41,108 | - | 33,104 | 31,183 | - | 28,224 | 14,553 | 68 | 38,460 | 18,424 | 111 |
| Ngoma | 806 | 605 | 4 | 33,310 | 34,722 | - | 24,368 | 24,007 | - | 18,548 | 6,886 | 27 | 29,934 | 15,904 | 32 |
| Bugesera | 2,149 | 2,321 | 99 | 37,374 | 35,766 | - | 33,170 | 27,383 | - | 14,602 | 16,419 | 113 | 22,342 | 22,649 | 92 |
| National | 24,474 | 23,976 | 1,688 | 921,052 | 903,900 | - | 475,757 | 459,535 | - | 408,044 | 320,944 | 14,286 | 700,757 | 537,398 | 13,771 |

Table 11. Season A 2021_Cultivated area by crop type per district (ha)

| | | | | | | | | | • | _ ` | | | | | | | | | |
|--------------|---------|---------|------------|-------|---------------|---------|--------------|--------------|-------------|---------|---------|--------|-----------|---------|------------|--------|--------------|-------------|-------------------------|
| District | Maize | Sorghum | Paddy rice | Wheat | Other cereals | Cassava | Sweet potato | Irish potato | Yams & Taro | Bananas | Beans | Pea | Groundnut | Soybean | Vegetables | Fruits | Fodder Crops | Other crops | Total developed land |
| Nyarugenge | 874 | - | | | | 1,068 | 371 | 82 | 55 | 2,080 | 2,448 | | 47 | 277 | 246 | 39 | 29 | 406 | 8,022 |
| Gasabo | 3,120 | _ | 232 | _ | 9 | 4,221 | 1,192 | 626 | 148 | 5,003 | 9,250 | 143 | 441 | 363 | 764 | 176 | 565 | 518 | 26,771 |
| Kicukiro | 966 | _ | 27 | _ | - | 381 | 423 | 15 | 50 | 1,068 | 2,320 | - | 69 | 77 | 210 | 24 | 31 | 839 | 6,501 |
| Nyanza | 5,242 | 278 | 357 | _ | _ | 13,078 | 2,483 | 311 | 943 | 10,125 | 21,173 | 103 | 893 | 1,647 | 607 | 243 | 410 | 1,748 | 59,640 |
| Gisagara | 6,320 | 538 | 2,045 | _ | 166 | 7,574 | 2,441 | 347 | 375 | 9,683 | 17,434 | 114 | 482 | 2,016 | 461 | 1,058 | 56 | 656 | 51,764 |
| Nyaruguru | 5,796 | - | _,0 .0 | 33 | 7 | 5,336 | 4,845 | 1,379 | 726 | 5,493 | 9,294 | 370 | 36 | 697 | 620 | 225 | 342 | 1,866 | 37,063 |
| Huye | 4,507 | _ | 972 | - | 363 | 9,412 | 3,137 | 941 | 227 | 7,867 | 14,668 | 144 | 237 | 1,906 | 469 | 171 | 106 | 1,470 | 46,598 |
| Nyamagabe | 5,604 | _ | 267 | 128 | - | 7,231 | 8,111 | 2,622 | 397 | 7,347 | 11,919 | 1,410 | 19 | 1,572 | 680 | 215 | 267 | 996 | 48,785 |
| Ruhango | 3,454 | 11 | 852 | _ | 30 | 18,194 | 1,951 | 458 | 578 | 9,161 | 13,874 | 121 | 1,115 | 2,958 | 470 | 215 | 613 | 1,818 | 55,874 |
| Muhanga | 1,796 | 28 | 145 | 3 | 23 | 9,577 | 4,333 | 356 | 3,146 | 16,746 | 7,047 | 55 | 20 | 1,943 | 408 | 178 | 495 | 1,046 | 47,345 |
| Kamonyi | 4,067 | _ | 184 | - | _ | 12,303 | 2,381 | 673 | 361 | 12,510 | 13,843 | 83 | 958 | 2,657 | 787 | 930 | 416 | 2,459 | 54,611 |
| Karongi | 8,208 | _ | _ | 65 | _ | 8,703 | 5,102 | 1,070 | 1,303 | 11,692 | 6,812 | 812 | - | 1,136 | 966 | 199 | 430 | 1,338 | 47,835 |
| Rutsiro | 6,698 | - | - | 318 | - | 2,395 | 3,889 | 3,141 | 1,305 | 7,078 | 4,335 | 605 | _ | 840 | 452 | 653 | 286 | 3,395 | 35,390 |
| Rubavu | 2,128 | 135 | - | - | - | 736 | 708 | 5,468 | 107 | 3,324 | 7,788 | 78 | 42 | 260 | 1,985 | 78 | 1 | 2,149 | 24,987 |
| Nyabihu | 3,458 | 1,248 | - | 1,242 | - | 859 | 3,008 | 9,059 | 102 | 1,425 | 7,538 | 822 | _ | _ | 806 | 380 | 154 | 2,575 | 32,678 |
| Ngororero | 5,231 | 452 | - | 513 | - | , | 5,389 | 1,728 | 1,807 | 12,867 | 12,213 | 483 | - | 1,407 | 243 | 390 | 202 | 1,643 | 49,239 |
| Rusizi | 7,133 | 30 | 1,499 | - | - | 14,995 | 2,242 | 200 | 1,433 | 5,948 | 12,847 | 149 | 442 | 1,422 | 931 | 437 | 50 | 3,114 | 52,870 |
| Nyamasheke | 5,433 | 99 | 337 | 30 | 85 | 11,954 | 3,833 | 122 | 1,256 | 7,592 | 8,245 | 148 | 260 | 1,465 | 419 | 211 | 60 | 4,535 | 46,084 |
| Rulindo | 4,164 | - | 17 | 51 | 6 | 4,566 | 4,329 | 1,153 | 79 | 7,224 | 12,543 | 432 | 56 | 352 | 1,243 | 532 | 871 | 1,806 | 39,423 |
| Gakenke | 11,195 | 47 | 104 | 139 | 501 | 6,857 | 8,206 | 1,157 | 1,332 | 14,277 | 8,541 | 554 | 94 | 738 | 489 | 416 | 183 | 2,099 | 56,927 |
| Musanze | 7,337 | 1,949 | - | 982 | 25 | 219 | 2,287 | 3,968 | 153 | 2,222 | 6,547 | 173 | - | 23 | 823 | 312 | 159 | 2,633 | 29,813 |
| Burera | 9,888 | 1,310 | - | 725 | 34 | 183 | 2,702 | 5,523 | 44 | 2,976 | 11,184 | 1,755 | - | - | 300 | 146 | 174 | - | 36,945 |
| Gicumbi | 4,579 | 134 | - | 188 | - | 3,430 | 7,032 | 2,886 | 77 | 6,330 | 20,474 | 1,562 | 294 | 162 | 715 | 734 | 848 | 368 | 49,812 |
| Rwamagana | 10,210 | - | 363 | - | 41 | 4,767 | 2,254 | 1,033 | 194 | 13,899 | 19,237 | 129 | 1,634 | 294 | 979 | 490 | 357 | 1,299 | 57,180 |
| Nyagatare | 26,575 | 15,223 | 1,537 | - | 165 | 3,930 | 1,851 | 523 | 15 | 11,274 | 19,935 | 265 | 1,546 | 635 | 744 | 130 | 16 | 332 | 84,697 |
| Gatsibo | 17,825 | 3,589 | 1,473 | - | 193 | 6,426 | 2,837 | 2,270 | 82 | 23,321 | 23,029 | 91 | 2,435 | 960 | 1,010 | 311 | 4 | 3,119 | 88,973 |
| Kayonza | 14,714 | 2,277 | 1,407 | 1 | 684 | 14,295 | 2,135 | 1,917 | 209 | 13,125 | 19,718 | 181 | 1,248 | 156 | 805 | 714 | 122 | 999 | 74,706 |
| Kirehe | 24,651 | 2,272 | 1,071 | - | 69 | 7,475 | 1,762 | 1,355 | 274 | 19,040 | 23,865 | 242 | 527 | 507 | 733 | 67 | 73 | 1,034 | 85,019 |
| Ngoma | 14,913 | 176 | 829 | - | 260 | 7,818 | 3,252 | 1,508 | 173 | 19,082 | 19,853 | 71 | 649 | 406 | 260 | 1,160 | 399 | 1,089 | 71,901 |
| Bugesera | 10,559 | 3,841 | 1,656 | - | 102 | 7,661 | 5,010 | 306 | 167 | 10,999 | 21,176 | 20 | 2,437 | 614 | 554 | 371 | 831 | 1,631 | 67,934 |
| National | 236,642 | 33,636 | 15,374 | 4,418 | 2,762 | | | | 17,119 | 280,779 | 389,149 | 11,116 | 15,978 | 27,493 | 20,181 | 11,206 | 8,548 | 48,980 | 1,475,385 |
| SSF | 229,757 | 33,611 | 1,347 | 4,399 | 2,762 | 200,263 | 99,481 | 52,081 | 17,117 | 280,616 | 388,106 | 11,096 | 15,973 | 27,087 | 20,051 | 10,853 | 7,982 | 48,273 | 1,450,856 |
| LSF | 6,885 | 25 | 14,026 | 19 | - | 50 | 15 | 115 | 1 | 163 | 1,042 | 21 | 5 | 406 | 130 | 353 | 566 | 706 | 24,529 |
| Course: MICI | 0 000 | 024 | | | | | | - | | | | - | | | | | | | |

Table 12. Season B 2021_Cultivated area by crop type per district (ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Other cereals | Cassava | Sweet potato | Irish potato | 22 Taro & Yams | Bananas | Beans | Pea | Groundnut | Soybean | Vegetables | Fruits | Fodder crops | Other crops | Total developed land |
|------------|--------|---------|------------|-------|---------------|---------|--------------|--------------|----------------|---------|---------|-------|-----------|---------|------------|--------|--------------|-------------|----------------------------|
| Nyarugenge | 283 | 529 | | | | 756 | 137 | 59 | 37 | 1,122 | 1,197 | 10 | 80 | 210 | 263 | 47 | 55 | 185.9 | 4,970.5 |
| Gasabo | 974 | 3,605 | 258 | | | 2,324 | 929 | 696 | 73 | 3,128 | 4,911 | 41 | 248 | 284 | 556 | | 377 | 403.2 | 18,838.1 |
| Kicukiro | 505 | 790 | 26 | | | 423 | 397 | 48 | 67 | 829 | 1,469 | 11 | 62 | 181 | 51 | 35 | 49 | 141.6 | 5,086.3 |
| Nyanza | 2,095 | 4,179 | 598 | | 63 | 8,432 | 2,227 | 355 | 511 | 3,725 | 10,991 | 29 | 1,022 | 1,244 | 326 | | 258 | 1113.3 | 37,333.3 |
| Gisagara | 2,244 | 4,387 | 3,184 | | 174 | 4,142 | 2,357 | 172 | 202 | 4,195 | 13,445 | 39 | 743 | 2,062 | 332 | 968 | 108 | 470.7 | 39,224.1 |
| Nyaruguru | 513 | 3,677 | | 521 | | 3,675 | 4,038 | 1,618 | 355 | 2,333 | 4,504 | 208 | | 823 | 318 | 165 | 496 | 3,601.9 | 26,844.4 |
| Huye | 678 | 6,436 | 953 | | 180 | 5,277 | 2,477 | 478 | 458 | 3,329 | 7,180 | 62 | 328 | 1,716 | | 167 | 158 | 1,284.1 | 31,345.3 |
| Nyamagabe | 797 | 4,498 | 19 | 1,564 | | 4,618 | 7,637 | 2,506 | 332 | 4,373 | 5,975 | | | 815 | 388 | 62 | 256 | 3,145.9 | 38,666.3 |
| Ruhango | 789 | 3,138 | 890 | | 150 | 17,309 | 2,845 | 250 | 543 | 5,232 | 11,680 | 74 | 2,129 | 2,161 | 313 | | 604 | 1,335.3 | 49,479.9 |
| Muhanga | 344 | 184 | 148 | 5 | | 8,532 | 6,061 | 101 | 1,842 | 12,444 | 8,597 | 44 | 148 | 2,265 | | | 398 | 692.5 | 42,503.0 |
| Kamonyi | 1,673 | 4,206 | 197 | | 9 | 10,717 | 3,185 | 632 | 1,040 | 10,125 | 11,637 | 101 | 539 | 2,396 | | | 247 | 1,935.6 | 50,245.3 |
| Karongi | 632 | 2,007 | | 312 | | 8,242 | 3,649 | 874 | 813 | 7,644 | 7,347 | 406 | 22 | 1,788 | | 103 | 407 | 2,919.2 | 37,724.9 |
| Rutsiro | 1,794 | 34 | | 540 | | 2,102 | 3,250 | 3,483 | 1,110 | | 5,075 | 522 | | 791 | 182 | 628 | 219 | 2,566.2 | 27,985.8 |
| Rubavu | 1,753 | 439 | | | | 422 | 698 | 6,572 | 191 | 2,393 | 3,891 | 167 | | 150 | 2,260 | 90 | 458 | 1,323.7 | 20,809.3 |
| Nyabihu | 3,652 | | | 1,326 | | 293 | 2,725 | 7,605 | 38 | 805 | 2,038 | 195 | | 40 | 862 | | 526 | 765.8 | 21,324.8 |
| Ngororero | 2,849 | | | 1,444 | | 1,740 | 7,259 | 1,316 | 781 | 7,473 | 4,179 | 308 | | 774 | 235 | | 364 | 812.2 | 29,554.7 |
| Rusizi | 1,241 | 85 | 1,482 | | | 14,293 | 1,935 | 81 | 605 | 3,153 | 8,677 | 144 | 237 | 719 | | 375 | 50 | 2,508.9 | 35,817.1 |
| Nyamasheke | 615 | 15 | 357 | 48 | | 8,975 | 3,445 | | 974 | 4,110 | 5,365 | 182 | 690 | 1,563 | 304 | 251 | 60 | 6,967.7 | 33,920.0 |
| Rulindo | 969 | 4,310 | 17 | 74 | | 4,051 | 3,265 | 994 | 160 | , | 10,612 | 215 | 47 | 182 | 530 | 221 | 90 | 1,093.1 | 35,412.7 |
| Gakenke | 1,415 | 552 | 28 | 490 | | 3,795 | 7,607 | 1,249 | 1,275 | 12,750 | 12,236 | 200 | 49 | 754 | 406 | 287 | 170 | 1,565.8 | 44,828.7 |
| Musanze | 2,833 | 1,076 | | 759 | | 80 | 1,319 | 5,335 | 202 | 1,441 | 4,470 | 289 | | 7 | 1,129 | 378 | 264 | 814.9 | 20,396.4 |
| Burera | 2,525 | 6,103 | | 1,416 | | 74 | 2,997 | 4,273 | 133 | 2,182 | 11,768 | 601 | | | 333 | 76 | 192 | 42.2 | 32,713.2 |
| Gicumbi | 2,089 | 16,871 | | 208 | | 1,305 | 5,845 | 2,792 | 142 | 7,913 | 10,833 | 930 | 298 | 79 | | 417 | 794 | 1,166.6 | 51,982.1 |
| Rwamagana | 3,870 | 10,058 | 474 | | | 5,103 | 1,061 | 1,952 | 770 | 11,215 | 10,558 | 131 | 1,638 | 218 | 1,158 | 520 | 435 | 1,555.8 | 50,716.4 |
| Nyagatare | 18,329 | 7,569 | 1,493 | | 12 | 4,317 | 1,748 | 886 | 114 | 12,681 | 31,180 | 89 | 3,519 | 1,076 | | 247 | 11 | 185.9 | 84,249.1 |
| Gatsibo | 8,243 | 8,856 | 1,504 | | 71 | 2,927 | 1,514 | 1,855 | 423 | 15,138 | 18,336 | 120 | 4,537 | 965 | 403 | 187 | 17 | 2,635.8 | 67,732.3 |
| Kayonza | 6,872 | 14,887 | 1,474 | | 234 | 7,026 | 1,628 | 2,495 | 398 | 9,649 | 16,069 | 129 | 1,114 | 223 | 464 | 383 | 98 | 1,403.1 | 64,545.8 |
| Kirehe | 3,035 | 13,279 | 950 | 44 | 251 | 3,794 | 1,508 | 1,429 | 905 | 11,766 | 19,733 | 427 | 649 | 588 | 566 | 67 | | 788.7 | 59,780.5 |
| Ngoma | 2,405 | 4,764 | 857 | | 477 | 6,927 | 1,504 | 796 | 268 | 14,771 | 19,878 | 125 | 618 | 605 | 357 | 616 | 531 | 1,719.4 | 57,218.6 |
| Bugesera | 4,556 | 6,500 | 1,393 | | 38 | 5,648 | 2,517 | 692 | 327 | 12,615 | 17,831 | 42 | | 895 | 497 | 337 | 568 | 1,871.6 | 59,147.1 |
| National | 80,570 | 133,033 | | 8,749 | 1,660 | 147,320 | 87,762 | | 15,088 | 202,807 | 301,658 | 7,521 | 21,534 | 25,574 | , | | 8,260 | 4,7016.9 | 1,180,396 |
| SSF | 78,782 | 132,985 | | 8,700 | 1,643 | 147,251 | 87,751 | 51,263 | 15,082 | 202,665 | 300,223 | 7,321 | 21,506 | 25,162 | 15,364 | 8,037 | 7,721 | 46,225.8 | 1,158,015 |
| LSF | 1,788 | 48 | 15,967 | 48 | 18 | 70 | 11 | 333 | 6 | 142 | 1,435 | 200 | 28 | 412 | 210 | 335 | 540 | 791 | 22,380.9 |

Table 13. Season C 2021_Cultivated area by crop type per district (ha)

| District/Crop | Sweet potato | Irish potato | Yams & Taro | Beans | Bush bean | Climbing bean | Pea | Soybean | Vegetables | Developed land |
|---------------|--------------|--------------|-------------|-------|-----------|---------------|-----|---------|------------|----------------|
| Nyarugenge | 10 | 27 | - | 140 | 140 | 0 | - | 104 | 156 | 437 |
| Gasabo | 115 | 3 | - | 7 | 7 | - | - | 0 | 427 | 552 |
| Kicukiro | 34 | - | - | 71 | 71 | - | - | 0 | 79 | 184 |
| Nyanza | 221 | 3 | - | 120 | 99 | 20 | 128 | 25 | 260 | 757 |
| Gisagara | 529 | 2 | - | 311 | 311 | 1 | 19 | 215 | 225 | 1,301 |
| Nyaruguru | 553 | 254 | - | 283 | 282 | 1 | 31 | - | 68 | 1,189 |
| Huye | 371 | 85 | - | 239 | 221 | 19 | 98 | 4 | 248 | 1,046 |
| Nyamagabe | 303 | 59 | - | 13 | 13 | - | 12 | - | 45 | 431 |
| Ruhango | 208 | 0 | - | 36 | 36 | - | 28 | 0 | 88 | 361 |
| Muhanga | 161 | 43 | - | 72 | 69 | 3 | 71 | 112 | 132 | 593 |
| Kamonyi | 94 | 25 | - | 411 | 411 | - | 43 | 72 | 314 | 957 |
| Karongi | 131 | 47 | - | 3 | 2 | 2 | 0 | 13 | 34 | 228 |
| Rutsiro | 64 | 35 | - | - | - | - | 5 | - | 7 | 111 |
| Rubavu | 64 | 888 | - | 134 | 3 | 131 | 35 | - | 190 | 1,310 |
| Nyabihu | 169 | 2,624 | - | 117 | 85 | 32 | 64 | - | 92 | 3,066 |
| Ngororero | 107 | 44 | - | 1 | 1 | - | - | 8 | 4 | 163 |
| Rusizi | 75 | 34 | - | 60 | 60 | - | - | 4 | 361 | 533 |
| Nyamasheke | 122 | 0 | - | - | - | - | - | - | 93 | 216 |
| Rulindo | 92 | 243 | - | 2 | 2 | - | 2 | - | 61 | 400 |
| Gakenke | 149 | 263 | - | 36 | 33 | 3 | 0 | 144 | 57 | 650 |
| Musanze | 401 | 2,054 | - | 38 | 33 | 5 | 1 | - | 289 | 2,784 |
| Burera | 396 | 2,287 | - | 28 | 19 | 9 | - | - | 24 | 2,736 |
| Gicumbi | 103 | 483 | - | 4 | 1 | 3 | - | - | 21 | 611 |
| Rwamagana | 67 | 13 | - | 174 | 174 | - | - | - | 271 | 526 |
| Nyagatare | 227 | 7 | - | 3 | 2 | 1 | - | 0 | 823 | 1,061 |
| Gatsibo | 203 | 4 | - | 2 | 2 | - | - | 0 | 140 | 349 |
| Kayonza | 36 | 84 | - | 28 | 28 | - | 1 | - | 189 | 338 |
| Kirehe | 76 | 42 | - | 18 | 17 | 1 | 1 | 2 | 150 | 289 |
| Ngoma | 35 | 2 | - | 187 | 187 | - | 2 | - | 83 | 309 |
| Bugesera | 111 | 9 | - | 1,211 | 1,211 | | 0 | 38 | 130 | 1,500 |
| National | 5,226 | 9,667 | - | 3,748 | 3,517 | 230 | 542 | 741 | 5,061 | 24,985 |

Table 14. Season A 2021_Harvested area by crop type per district (ha)

| District name | 1 abie 14. 3 | casuli A | ZUZ I_ | naives | icu ai | ea by | crop ty | pe per | uistric | t (IIa) | | | | | | | | | | |
|---|---------------|----------|---------|------------|--------|---------------|---------|--------------|--------------|---------|---------|--------|--------|-----------|---------|------------|--------|--------------|-------------|-------------------|
| Nyarugenge | District name | Maize | Sorghum | Paddy rice | Wheat | Other cereals | Cassava | Sweet potato | Irish potato | S | Bananas | Beans | Pea | Groundnut | Soybean | vegetables | Fruits | Fodder crops | Other crops | Developed land |
| Gasabo | Nyarugenge | 874 | _ | - | | - | 187 | 371 | 82 | | 1,003 | | - | 47 | 277 | 246 | 6 | 29 | 14 | 5,641 |
| Name | | 3,120 | _ | 232 | _ | 9 | 898 | 1,192 | 626 | 148 | 1,827 | 9,250 | 143 | 441 | 363 | 764 | 2 | 565 | 47 | 19,626 |
| Nyanza 5,242 278 357 - - 3,684 2,483 311 282 3,551 21,173 103 893 1,647 607 109 410 41 41,179 Gisagara 6,329 2578 2,-17 10,105 2,484 1,379 726 1,486 9,294 370 36 667 620 118 342 298 27,422 Huye 4,507 - 972 - 363 2,488 3,137 726 1,486 9,294 370 36 667 620 118 342 298 27,422 1,111 1,111 2,022 377 1,411 1,111 1,111 1,111 2,023 3,718 1,111 1,111 2,023 3,718 1,111 1,111 2,028 1,111 1,111 2,028 1,111 1,111 1,111 1,111 1,111 1,111 1,111 1,111 1,111 1,111 1,111 1,111 1,111 <td>Kicukiro</td> <td></td> <td>-</td> <td>27</td> <td>_</td> <td>-</td> <td>44</td> <td>423</td> <td>15</td> <td>50</td> <td></td> <td></td> <td>_</td> <td>69</td> <td>77</td> <td>210</td> <td>16</td> <td>31</td> <td>98</td> <td></td> | Kicukiro | | - | 27 | _ | - | 44 | 423 | 15 | 50 | | | _ | 69 | 77 | 210 | 16 | 31 | 98 | |
| Gisagara 6,320 538 2,045 - 166 1,103 2,441 375 3,795 1,743 114 482 2,016 461 49 56 54 37,733 Nyaruguru 4,507 - - -33 7 1,015 4,845 1,379 24 1,846 9,294 370 36 697 620 118 342 298 2,742 Nyarugagbe 5,604 - 267 128 - 1,563 8,111 2,622 397 2,474 11,919 1,410 19 1,572 680 149 267 0 3,7181 Ruhango 1,744 11 852 - 30 4,464 1,951 458 578 2,567 1,381 9 4,067 1,06 43 3,331 4,333 356 3,146 6,327 7,047 55 20 1,943 40 1,16 613 31,715 33,728 Kam | Nyanza | 5,242 | 278 | 357 | - | - | 3,694 | 2,483 | 311 | 282 | 3,551 | 21,173 | 103 | 893 | 1,647 | 607 | 109 | 410 | 41 | 41,179 |
| Nyangara Nyangara | • | | 538 | 2,045 | _ | 166 | 1,103 | 2,441 | 347 | 375 | 3,795 | 17,434 | 114 | 482 | 2,016 | 461 | 49 | 56 | 54 | |
| Huyangabe 4,507 - 972 - 363 2,488 3,137 941 205 2,800 14,668 144 237 1,906 469 39 106 44 32,985 3,181 32,985 3,181 2,622 397 2,474 11,191 1,410 19 1,572 680 149 267 0 37,181 3,181 | - | 5,796 | - | · - | 33 | 7 | 1,015 | 4,845 | 1,379 | 726 | 1,846 | 9,294 | 370 | 36 | 697 | 620 | 118 | 342 | 298 | 27,422 |
| Nymagabe 5,604 - 267 128 - 1,563 8,111 2,622 397 2,474 11,919 1,410 19 1,572 680 149 267 0 37,181 Ruhanga 1,796 28 145 3 23 1,371 458 578 2,567 13,874 121 1,115 2,988 470 116 613 95 33,728 Kamonyi 4,067 - 184 - - 1,687 2,381 673 328 4,536 13,843 83 958 2,657 787 809 361 119 3,3470 Karongi 4,067 - 318 - 1,744 5,102 1,070 1,303 3,928 6,812 812 - 1,136 966 130 371 550 32,146 Rubtavu 2,128 135 - - - - 708 5,468 107 1,532 7,788 | , , | 4,507 | - | 972 | - | 363 | 2,488 | 3,137 | 941 | 205 | 2,800 | 14,668 | 144 | 237 | 1,906 | 469 | 39 | 106 | 4 | |
| Muhanga 1,796 28 | • | 5,604 | - | 267 | 128 | - | 1,563 | 8,111 | 2,622 | 397 | 2,474 | 11,919 | 1,410 | 19 | 1,572 | 680 | 149 | 267 | 0 | 37,181 |
| Kamonyi 4,067 - 184 - - 1,687 2,381 673 328 4,536 13,843 83 958 2,657 787 809 361 119 33,470 Karongi 8,208 - - 65 - 1,744 5,102 1,070 1,303 3,928 6,812 812 - 1,136 966 130 371 550 32,196 Rubavu 2,128 135 - - - - 708 5,688 107 1,532 7,788 78 42 260 1,983 32,11 1,219 21,484 Nyabihu 3,458 1,248 - 1,242 - 108 3,008 9,059 102 418 7,538 822 - - 806 56 154 2,525 30,546 Ngororeo 5,231 452 - 513 - 1,470 3,322 1,262 2,211 3483 | Ruhango | 3,454 | 11 | 852 | - | 30 | 4,464 | 1,951 | 458 | 578 | 2,567 | 13,874 | 121 | 1,115 | 2,958 | 470 | 116 | 613 | 95 | 33,728 |
| Karongi 8,208 - - 65 - 1,744 5,102 1,070 1,303 3,928 6,812 812 - 1,136 966 130 371 550 32,196 Rubavu 2,128 135 - - - 708 5,468 107 1,325 7,788 72 260 1,985 32 1 1,219 21,484 Nyabihu 3,458 1,248 - 1,242 - 108 3,008 9,059 102 418 7,538 822 - - 806 56 154 2,525 30,546 Ngororero 5,231 452 - 513 - 1,470 2,242 200 1,433 2,982 12,847 149 442 1,407 243 267 202 503 34,517 Rusizi 7,133 30 1,493 30 85 2,713 3,833 1122 1,256 2,262 1,843 | | | 28 | 145 | 3 | 23 | 1,371 | 4,333 | 356 | 3,146 | 6,327 | 7,047 | 55 | 20 | 1,943 | 408 | 116 | 461 | 244 | |
| Rutsiro 6,698 318 - 179 3,889 3,141 1,305 2,953 4,335 605 - 840 452 497 286 1,343 26,840 Rubavu 2,128 135 708 5,468 107 1,532 7,788 78 42 260 1,985 32 1 1,219 21,484 Nyabihu 3,458 1,248 - 1,242 - 108 3,008 9,059 102 418 7,538 822 806 56 154 2,525 30,546 Rubici 7,133 30 1,499 - 513 - 1,470 2,242 200 1,433 2,982 12,847 149 442 1,422 931 84 50 804 33,717 Nyamasheke 5,433 99 337 30 85 2,713 3,833 122 1,256 2,362 8,245 148 260 1,465 419 36 60 624 27,528 Rulido 4,164 - 177 51 6 738 4,329 1,153 79 2,294 12,543 432 56 352 1,243 334 346 567 28,701 Gakenke 11,195 47 104 139 501 1,004 8,206 1,157 1,332 6,609 8,541 554 94 738 489 206 183 675 41,533 Rusrar 9,888 1,310 - 725 34 38 2,702 5,523 14 699 11,184 1,755 300 49 174 0 34,426 Gicumbi 4,579 134 - 188 - 617 7,032 2,886 64 1,738 20,474 1,562 2,94 162 715 261 848 27 41,582 Rwamagana 10,210 - 363 - 41 1,114 2,254 1,815 523 15 538 19,935 265 1,546 635 744 97 174 357 112 44,131 Nyagatare 26,575 15,223 1,537 - 165 1,235 1,851 523 15 538 19,935 265 1,546 635 744 97 16 199 75,700 Gatsibo 17,825 3,589 1,473 - 193 1,644 2,837 2,270 72 9,838 23,029 91 2,435 960 1,010 218 4 78 67,565 Kayonza 14,714 2,277 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,551 3,551 1,551 1,551 1,551 2,437 3,641 1,554 1,554 2,555 3,589 1,473 3,661 1,343 2,762 2,275 1,440 1,562 2,475 1,470 2,477 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,551 1,5 | Kamonyi | 4,067 | - | 184 | - | - | 1,687 | 2,381 | 673 | 328 | 4,536 | 13,843 | 83 | 958 | 2,657 | 787 | 809 | 361 | 119 | 33,470 |
| Rubavu 2,128 135 - - - - - - - - - | Karongi | 8,208 | - | - | 65 | - | 1,744 | 5,102 | 1,070 | 1,303 | 3,928 | 6,812 | 812 | - | 1,136 | 966 | 130 | 371 | 550 | 32,196 |
| Nyabihu 3,458 1,248 - 1,242 - 108 3,008 9,059 102 418 7,538 822 806 56 154 2,525 30,546 Ngororero 5,231 452 - 513 - 533 9 1,728 1,777 3,825 12,213 483 - 1,407 243 267 202 503 34,577 Rusizi 7,133 30 1,499 1,470 2,242 200 1,433 2,982 12,847 149 442 1,422 931 84 50 804 33,717 Nyamasheke 5,433 99 337 30 85 2,713 3,833 122 1,226 2,826 2,826 2,8245 148 260 1,465 419 36 60 624 27,528 Rulindo 4,164 - 17 51 6 738 4,329 1,153 79 2,294 12,543 432 56 352 1,243 334 346 567 28,701 Gakenke 11,195 47 104 139 501 1,004 8,206 1,157 1,332 6,369 8,541 554 94 738 489 206 183 675 41,533 Musanze 7,337 1,949 - 982 25 28 2,287 3,968 153 754 6,547 173 - 23 823 96 159 2,240 27,544 Burera 9,888 1,310 - 725 34 38 2,702 5,523 44 699 11,184 1,755 300 49 174 0 34,426 Gicumbi 4,579 134 - 188 - 617 7,032 2,886 64 1,738 20,474 1,562 294 162 715 261 848 27 41,582 Rwamagana 10,210 - 363 3 - 41 1,114 2,254 1,033 159 6,041 19,237 129 1,634 294 979 174 357 112 44,131 Nyagatare 26,575 15,223 1,537 - 165 1,235 1,851 523 1,537 1,949 2,762 4,275 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,355 274 7,330 23,865 242 527 507 733 37 73 68 66,268 Ngoma 14,913 176 829 - 260 2,551 3,252 1,508 173 7,548 19,853 71 649 406 260 187 399 2 53,040 Ngoma 14,913 176 829 - 260 2,551 3,252 1,508 176 1,610 2,176 20 2,437 614 559 7,493 20,181 4,599 7,875 12,671 1,096,956 83F 229,757 3,3611 1,347 4,499 2,762 4,228 9,481 5,008 15,611 10,538 38,106 11,096 15,973 27,097 20,051 4,389 7,309 12,303 1,073,031 1,009,056 12,007 13,007 1,009,056 12,007 13,007 1,009,056 12,007 13,007 1,009,056 12,007 13,007 1,009,056 12,007 13,007 1,009,056 12,007 13,007 1,009,056 12,007 13,007 1,009,056 12,007 13,007 13,007 1,009,056 12,007 13,007 | Rutsiro | 6,698 | - | - | 318 | - | 179 | 3,889 | 3,141 | 1,305 | 2,953 | 4,335 | 605 | - | 840 | 452 | 497 | 286 | 1,343 | 26,840 |
| Ngororero 5,231 452 - 513 - 1,389 1,728 1,077 3,825 12,213 483 - 1,407 243 267 202 503 34,577 Rusizi 7,133 30 1,499 - 1,470 2,242 200 1,433 2,982 12,847 149 442 1,422 931 84 50 804 33,717 Nyamasheke 5,433 99 337 30 85 2,713 3,833 122 1,256 2,362 8,245 148 260 1,465 419 36 60 624 27,528 Rulindo 4,164 - 17 51 6 738 4,329 1,153 79 2,294 12,543 432 56 352 1,243 334 346 567 28,701 Gakenke 11,195 47 104 139 501 1,004 8,206 1,157 1,332 6,369 8,541 554 94 738 489 206 183 675 41,533 Musanze 7,337 1,949 - 982 25 28 2,287 3,968 153 754 6,547 173 - 23 823 96 159 2,240 27,544 Burera 9,888 1,310 - 725 34 38 2,702 5,523 44 699 11,184 1,755 300 49 174 0 34,426 Gicumbi 4,579 134 - 188 - 617 7,032 2,886 64 1,738 20,474 1,562 294 162 715 261 848 27 41,582 Rwamagana 10,210 - 363 - 41 1,114 2,254 1,033 159 6,041 19,237 129 1,634 294 979 174 357 112 44,131 Nyagatare 26,575 15,223 1,537 - 165 1,235 1,851 523 15 5,138 19,935 265 1,546 635 744 97 16 199 75,700 Gatsibo 17,825 3,589 1,473 - 193 1,644 2,837 2,270 72 9,838 23,029 91 2,435 960 1,010 218 4 78 67,565 Kayonza 14,714 2,277 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,355 274 7,330 23,865 242 527 507 733 37 73 68 66,268 Ngmaa 14,913 176 829 - 260 2,551 3,252 1,508 173 7,548 19,853 71 649 406 260 187 399 2 53,040 Bugesera 10,559 3,841 1,656 - 102 914 5,010 306 167 4,160 21,176 20 2,437 614 559 20,48 14,599 7,875 12,671 1,096,956 10,000 10, | Rubavu | 2,128 | 135 | - | - | - | - | 708 | 5,468 | 107 | 1,532 | 7,788 | 78 | 42 | 260 | 1,985 | 32 | 1 | 1,219 | 21,484 |
| Rusizi 7,133 30 1,499 - - 1,470 2,242 200 1,433 2,982 12,847 149 442 1,422 931 84 50 804 33,717 Nyamasheke 5,433 99 337 30 85 2,713 3,833 122 1,256 2,362 8,245 148 260 1,465 419 36 60 624 27,528 Rulindo 4,164 - 17 51 6 738 4,329 1,153 79 2,294 12,543 432 56 352 1,243 334 346 567 28,701 Gakenke 11,195 47 104 139 501 1,004 8,206 1,157 7,332 6,669 8,541 554 94 738 489 206 183 675 41,533 Musanze 7,337 1,949 - 982 25 28 2,287 3,968 153 | Nyabihu | 3,458 | 1,248 | - | 1,242 | - | 108 | 3,008 | 9,059 | 102 | 418 | 7,538 | 822 | - | - | 806 | 56 | 154 | 2,525 | 30,546 |
| Nyamasheke 5,433 99 337 30 85 2,713 3,833 122 1,256 2,362 8,245 148 260 1,465 419 36 60 624 27,528 Rulindo 4,164 17 51 6 738 4,329 1,153 79 2,294 12,543 432 56 352 1,243 334 346 567 28,701 Gakenke 11,195 47 104 139 501 1,004 8,206 1,157 1,332 6,369 8,541 554 94 738 489 206 183 675 41,533 Musanze 7,337 1,949 982 25 28 2,287 3,968 153 754 6,547 173 23 823 96 159 2,240 27,544 Burera 9,888 1,310 725 34 38 2,702 5,523 44 699 11,184 1,755 300 49 174 0 34,426 Gicumbi 4,579 134 188 617 7,032 2,886 64 1,738 20,474 1,562 294 162 715 261 848 27 41,582 Rwamagana 10,210 363 41 1,114 2,254 1,033 159 6,041 19,237 129 1,634 294 979 174 357 112 44,131 Nyagatare 26,575 15,223 1,537 165 1,235 1,851 523 15 5,138 19,935 265 1,546 635 744 97 16 199 75,700 Gatsibo 17,825 3,589 1,473 193 1,644 2,837 2,270 72 9,838 23,029 91 2,435 960 1,010 218 4 78 67,565 Kayonza 14,714 2,277 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 69 1,430 1,762 1,355 274 7,330 23,865 242 527 507 733 37 73 68 66,268 Ngoma 14,913 176 829 260 2,551 3,252 1,508 173 7,548 19,853 71 649 406 260 187 399 2 53,040 Bugesera 10,559 3,841 1,656 102 914 5,010 306 167 4,160 21,176 20 2,437 614 554 129 831 119 52,594 National 236,642 33,661 1,347 4,399 2,762 42,284 99,496 52,196 15,611 105,389 38,106 11,096 15,973 27,087 20,051 4,389 7,309 12,303 1,073,031 | Ngororero | 5,231 | 452 | - | 513 | - | • | 5,389 | 1,728 | 1,077 | 3,825 | 12,213 | 483 | - | 1,407 | 243 | 267 | 202 | 503 | 34,577 |
| Rulindo 4,164 - 17 51 6 738 4,329 1,153 79 2,294 12,543 432 56 352 1,243 334 346 567 28,701 Gakenke 11,195 47 104 139 501 1,004 8,206 1,157 1,332 6,369 8,541 554 94 738 489 206 183 675 41,533 Musanze 7,337 1,949 - 982 25 28 2,287 3,968 153 754 6,547 173 - 23 823 96 159 2,240 27,544 Burera 9,888 1,310 - 725 34 38 2,702 5,523 44 699 11,184 1,755 - - 300 49 174 0 34,426 Gicumbi 4,579 134 - 161 7,132 2,886 64 1,738 20,474 | Rusizi | 7,133 | 30 | 1,499 | - | - | 1,470 | 2,242 | 200 | 1,433 | 2,982 | 12,847 | 149 | 442 | 1,422 | 931 | 84 | 50 | 804 | 33,717 |
| Gakenke 11,195 47 104 139 501 1,004 8,206 1,157 1,332 6,369 8,541 554 94 738 489 206 183 675 41,533 Musanze 7,337 1,949 - 982 25 28 2,287 3,968 153 754 6,547 173 - 23 823 96 159 2,240 27,544 Burera 9,888 1,310 - 725 34 38 2,702 5,523 44 699 11,184 1,755 - - 300 49 174 0 34,426 Gicumbi 4,579 134 - 188 - 617 7,032 2,886 64 1,738 20,474 1,562 294 162 715 261 848 27 41,582 Rwamagana 10,210 - 363 - 41 1,114 2,254 1,033 155 | Nyamasheke | 5,433 | 99 | 337 | 30 | 85 | 2,713 | 3,833 | 122 | 1,256 | 2,362 | 8,245 | 148 | 260 | 1,465 | 419 | 36 | 60 | 624 | 27,528 |
| Musanze 7,337 1,949 - 982 25 28 2,287 3,968 153 754 6,547 173 - 23 823 96 159 2,240 27,544 Burera 9,888 1,310 - 725 34 38 2,702 5,523 44 699 11,184 1,755 - - 300 49 174 0 34,426 Gicumbi 4,579 134 - 188 - 617 7,032 2,886 64 1,738 20,474 1,562 294 162 715 261 848 27 41,582 Rwamagana 10,210 - 363 - 41 1,114 2,254 1,033 159 6,041 19,237 129 1,634 294 979 174 357 112 44,131 Nyagatare 26,575 15,223 1,537 - 165 1,235 1,851 523 15 | Rulindo | 4,164 | - | 17 | 51 | 6 | 738 | 4,329 | 1,153 | 79 | 2,294 | 12,543 | 432 | 56 | 352 | 1,243 | 334 | 346 | 567 | 28,701 |
| Burera 9,888 1,310 - 725 34 38 2,702 5,523 44 699 11,184 1,755 300 49 174 0 34,426 Gicumbi 4,579 134 - 188 - 617 7,032 2,886 64 1,738 20,474 1,562 294 162 715 261 848 27 41,582 Rwamagana 10,210 - 363 - 41 1,114 2,254 1,033 159 6,041 19,237 129 1,634 294 979 174 357 112 44,131 Nyagatare 26,575 15,223 1,537 - 165 1,235 1,851 523 15 5,138 19,935 265 1,546 635 744 97 16 199 75,700 Gatsibo 17,825 3,589 1,473 - 193 1,644 2,837 2,270 72 9,838 23,029 91 2,435 960 1,010 218 4 78 67,565 Kayonza 14,714 2,277 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,355 274 7,330 23,865 242 527 507 733 37 73 68 66,268 Ngoma 14,913 176 829 - 260 2,551 3,252 1,508 173 7,548 19,853 71 649 406 260 187 399 2 53,040 Bugesera 10,559 3,841 1,656 - 102 914 5,010 306 167 4,160 21,176 20 2,437 614 554 129 831 119 52,594 National 236,642 33,636 15,374 4,418 2,762 42,284 99,496 52,196 15,611 105,389 388,106 11,096 15,973 27,087 20,051 4,389 7,309 12,303 1,073,031 | Gakenke | 11,195 | 47 | 104 | 139 | 501 | 1,004 | 8,206 | 1,157 | 1,332 | 6,369 | 8,541 | 554 | 94 | 738 | 489 | 206 | 183 | 675 | 41,533 |
| Gicumbi 4,579 134 - 188 - 617 7,032 2,886 64 1,738 20,474 1,562 294 162 715 261 848 27 41,582 Rwamagana 10,210 - 363 - 41 1,114 2,254 1,033 159 6,041 19,237 129 1,634 294 979 174 357 112 44,131 Nyagatare 26,575 15,223 1,537 - 165 1,235 1,851 523 15 5,138 19,935 265 1,546 635 744 97 16 199 75,700 Gatsibo 17,825 3,589 1,473 - 193 1,644 2,837 2,270 72 9,838 23,029 91 2,435 960 1,010 218 4 78 67,565 Kayonza 14,714 2,277 1,407 1 684 5,198 2,135 1,917 </td <td>Musanze</td> <td>7,337</td> <td>1,949</td> <td>-</td> <td>982</td> <td>25</td> <td>28</td> <td>2,287</td> <td>3,968</td> <td>153</td> <td>754</td> <td>6,547</td> <td>173</td> <td>-</td> <td>23</td> <td>823</td> <td>96</td> <td>159</td> <td>2,240</td> <td>27,544</td> | Musanze | 7,337 | 1,949 | - | 982 | 25 | 28 | 2,287 | 3,968 | 153 | 754 | 6,547 | 173 | - | 23 | 823 | 96 | 159 | 2,240 | 27,544 |
| Rwamagana 10,210 - 363 - 41 1,114 2,254 1,033 159 6,041 19,237 129 1,634 294 979 174 357 112 44,131 Nyagatare 26,575 15,223 1,537 - 165 1,235 1,851 523 15 5,138 19,935 265 1,546 635 744 97 16 199 75,700 Gatsibo 17,825 3,589 1,473 - 193 1,644 2,837 2,270 72 9,838 23,029 91 2,435 960 1,010 218 4 78 67,565 Kayonza 14,714 2,277 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,555 274 7,330 23,865 242 527 507 733 37 | Burera | 9,888 | 1,310 | - | 725 | 34 | 38 | 2,702 | 5,523 | 44 | 699 | 11,184 | 1,755 | - | - | 300 | 49 | 174 | 0 | 34,426 |
| Nyagatare 26,575 15,223 1,537 - 165 1,235 1,851 523 15 5,138 19,935 265 1,546 635 744 97 16 199 75,700 Gatsibo 17,825 3,589 1,473 - 193 1,644 2,837 2,270 72 9,838 23,029 91 2,435 960 1,010 218 4 78 67,565 Kayonza 14,714 2,277 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,355 274 7,330 23,865 242 527 507 733 37 73 68 66,268 Ngoma 14,913 176 829 - 260 2,551 3,252 1,508< | Gicumbi | 4,579 | 134 | | 188 | - | 617 | 7,032 | 2,886 | 64 | 1,738 | 20,474 | 1,562 | 294 | | 715 | 261 | | | 41,582 |
| Gatsibo 17,825 3,589 1,473 - 193 1,644 2,837 2,270 72 9,838 23,029 91 2,435 960 1,010 218 4 78 67,565 Kayonza 14,714 2,277 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,355 274 7,330 23,865 242 527 507 733 37 73 68 66,268 Ngoma 14,913 176 829 - 260 2,551 3,252 1,508 173 7,548 19,853 71 649 406 260 187 399 2 53,040 Bugesera 10,559 3,841 1,656 - 102 914 5,010 306 167 4,160 21,176 20 2,437 614 554 129 831 119 52,594 National 236,642 33,636 15,374 4,418 2,762 42,284 99,496 52,196 15,612 105,474 389,149 11,116 15,978 27,493 20,181 4,599 7,875 12,671 1,096,956 SSF 229,757 33,611 1,347 4,399 2,762 42,278 99,481 52,081 15,611 105,389 388,106 11,096 15,973 27,087 20,051 4,389 7,309 12,303 1,073,031 | Rwamagana | 10,210 | - | 363 | - | 41 | 1,114 | 2,254 | 1,033 | 159 | 6,041 | 19,237 | 129 | 1,634 | 294 | 979 | 174 | 357 | 112 | 44,131 |
| Kayonza 14,714 2,277 1,407 1 684 5,198 2,135 1,917 209 4,364 19,718 181 1,248 156 805 179 122 0 55,315 Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,355 274 7,330 23,865 242 527 507 733 37 73 68 66,268 Ngoma 14,913 176 829 - 260 2,551 3,252 1,508 173 7,548 19,853 71 649 406 260 187 399 2 53,040 Bugesera 10,559 3,841 1,656 - 102 914 5,010 306 167 4,160 21,176 20 2,437 614 554 129 831 119 52,594 National 236,642 33,636 15,374 4,418 2,762 42,284 99,496 52,196 15,611 105,389 388,106 11,096 15,973 27,493 20,051 <td>Nyagatare</td> <td>26,575</td> <td>15,223</td> <td>1,537</td> <td>-</td> <td>165</td> <td>1,235</td> <td>1,851</td> <td>523</td> <td></td> <td>5,138</td> <td>19,935</td> <td>265</td> <td>1,546</td> <td>635</td> <td>744</td> <td>97</td> <td>16</td> <td></td> <td>75,700</td> | Nyagatare | 26,575 | 15,223 | 1,537 | - | 165 | 1,235 | 1,851 | 523 | | 5,138 | 19,935 | 265 | 1,546 | 635 | 744 | 97 | 16 | | 75,700 |
| Kirehe 24,651 2,272 1,071 - 69 1,430 1,762 1,355 274 7,330 23,865 242 527 507 733 37 73 68 66,268 Ngoma 14,913 176 829 - 260 2,551 3,252 1,508 173 7,548 19,853 71 649 406 260 187 399 2 53,040 Bugesera 10,559 3,841 1,656 - 102 914 5,010 306 167 4,160 21,176 20 2,437 614 554 129 831 119 52,594 National 236,642 33,636 15,374 4,418 2,762 42,284 99,496 52,196 15,612 105,474 389,149 11,116 15,978 27,493 20,181 4,599 7,307 12,671 1,096,956 SSF 229,757 33,611 1,347 4,399 2,762 42,278 | Gatsibo | 17,825 | 3,589 | 1,473 | - | 193 | 1,644 | 2,837 | 2,270 | 72 | 9,838 | 23,029 | 91 | 2,435 | 960 | 1,010 | 218 | 4 | 78 | 67,565 |
| Ngoma 14,913 176 829 - 260 2,551 3,252 1,508 173 7,548 19,853 71 649 406 260 187 399 2 53,040 Bugesera 10,559 3,841 1,656 - 102 914 5,010 306 167 4,160 21,176 20 2,437 614 554 129 831 119 52,594 National 236,642 33,636 15,374 4,418 2,762 42,284 99,496 52,196 15,612 105,474 389,149 11,116 15,978 27,493 20,181 4,599 7,875 12,671 1,096,956 SSF 229,757 33,611 1,347 4,399 2,762 42,278 99,481 52,081 15,611 105,389 388,106 11,096 15,973 27,087 20,051 4,389 7,309 12,303 1,073,031 | Kayonza | 14,714 | 2,277 | 1,407 | 1 | 684 | 5,198 | 2,135 | 1,917 | 209 | 4,364 | 19,718 | 181 | 1,248 | 156 | 805 | 179 | 122 | 0 | 55,315 |
| Bugesera 10,559 3,841 1,656 - 102 914 5,010 306 167 4,160 21,176 20 2,437 614 554 129 831 119 52,594 National 236,642 33,636 15,374 4,418 2,762 42,284 99,496 52,196 15,612 105,474 389,149 11,116 15,978 27,493 20,181 4,599 7,875 12,671 1,096,956 SSF 229,757 33,611 1,347 4,399 2,762 42,278 99,481 52,081 15,611 105,389 388,106 11,096 15,973 27,087 20,051 4,389 7,309 12,303 1,073,031 | Kirehe | 24,651 | 2,272 | 1,071 | - | 69 | 1,430 | 1,762 | 1,355 | 274 | 7,330 | 23,865 | 242 | 527 | 507 | 733 | 37 | 73 | 68 | 66,268 |
| National 236,642 33,636 15,374 4,418 2,762 42,284 99,496 52,196 15,612 105,474 389,149 11,116 15,978 27,493 20,181 4,599 7,875 12,671 1,096,956 SSF 229,757 33,611 1,347 4,399 2,762 42,278 99,481 52,081 15,611 105,389 388,106 11,096 15,973 27,087 20,051 4,389 7,309 12,303 1,073,031 | Ngoma | 14,913 | | | - | | | | | | | | | | | | | | | |
| SSF 229,757 33,611 1,347 4,399 2,762 42,278 99,481 52,081 15,611 105,389 388,106 11,096 15,973 27,087 20,051 4,389 7,309 12,303 1,073,031 | Bugesera | 10,559 | 3,841 | 1,656 | - | 102 | | 5,010 | | | 4,160 | 21,176 | 20 | 2,437 | | | | | | 52,594 |
| | National | 236,642 | | 15,374 | 4,418 | 2,762 | 42,284 | 99,496 | 52,196 | 15,612 | 105,474 | | 11,116 | 15,978 | 27,493 | 20,181 | 4,599 | 7,875 | 12,671 | 1,096,956 |
| LSF 6,885 25 14,026 19 - 6 15 115 1 85 1,042 21 5 406 130 210 566 368 23,926 | | 229,757 | 33,611 | 1,347 | 4,399 | 2,762 | 42,278 | 99,481 | 52,081 | 15,611 | 105,389 | | 11,096 | 15,973 | 27,087 | 20,051 | | 7,309 | 12,303 | 1,073,031 |
| | LSF | 6,885 | 25 | 14,026 | 19 | - | 6 | 15 | 115 | 1 | 85 | 1,042 | 21 | 5 | 406 | 130 | 210 | 566 | 368 | 23,926 |

Table 15. Season B 2021_Harvested area by crop type per district (ha)

| Table 15. C | Cuson L | <u> </u> | iui vosi | .cu uit | ,u by | or ob ty | pe pei | uistrict | (IIIa) | | | | | , | | | | | |
|-------------|---------|----------|------------|---------|------------------|----------|-----------------|--------------|-----------------|---------|---------|-------|-----------|---------|------------|--------|-----------------|----------------|-------------------|
| District | Maize | Sorghum | Paddy rice | Wheat | Other cereals | Cassava | Sweet potato | Irish potato | Yarms & Taro | Bananas | Beans | Pea | Groundnut | Soybean | vegetables | Fruits | Fodder crops | Other crops | Developed land |
| Nyarugenge | 283 | 529 | | | - | 190 | 137 | <u></u> | 37 | 635 | 1,197 | 10 | 80 | 210 | 263 | 14 | 55 | 61 | 3,760 |
| Gasabo | 974 | 3,605 | 258 | _ | _ | 312 | 929 | 696 | 73 | 1,233 | 4,911 | 41 | 248 | 284 | 556 | 9 | 371 | 193 | 14,691 |
| Kicukiro | 505 | 790 | 26 | _ | _ | 84 | 397 | 48 | 67 | 411 | 1,469 | 11 | 62 | 181 | 51 | 11 | 49 | 118 | 4,281 |
| Nyanza | 2,095 | 4,179 | 598 | _ | 63 | 1,334 | 2,227 | 355 | 496 | 1,041 | 10,991 | 29 | 1,022 | 1,244 | 326 | 66 | 257 | 845 | 27,167 |
| Gisagara | 2,244 | 4,387 | 3,184 | _ | 174 | 2,574 | 2,357 | 172 | 202 | 1,479 | 13,420 | 39 | 743 | 2,062 | 332 | 112 | 108 | 279 | 33,867 |
| Nyaruguru | 513 | 3,677 | - | 521 | - | 1,404 | 4,038 | 1,618 | 355 | 656 | 4,504 | 208 | _ | 823 | 318 | 53 | 496 | 610 | 19,794 |
| Huye | 678 | 6,436 | 953 | _ | 180 | 859 | 2,477 | 478 | 458 | 950 | 7,180 | 62 | 328 | 1,716 | 182 | 24 | 158 | 823 | 23,944 |
| Nyamagabe | 797 | 4,498 | 19 | 1,564 | - | 1,101 | 7,637 | 2,506 | 332 | 1,396 | 5,975 | 1,679 | _ | 815 | 388 | 62 | 256 | 818 | 29,844 |
| Ruhango | 789 | 3,138 | 890 | ´ - | 150 | 6,831 | 2,845 | 250 | 543 | 1,895 | 11,671 | 74 | 2,129 | 2,161 | 313 | 39 | 604 | 1,028 | 35,350 |
| Muhanga | 344 | 184 | 148 | 5 | - | 2,681 | 6,061 | 101 | 1,842 | 6,650 | 8,597 | 44 | 148 | 2,265 | 419 | 142 | 398 | 405 | 30,432 |
| Kamonyi | 1,673 | 4,206 | 197 | - | 9 | 1,514 | 3,185 | 632 | 1,040 | 4,548 | 11,637 | 101 | 539 | 2,396 | 856 | 685 | 247 | 1,656 | 35,119 |
| Karongi | 632 | 2,007 | - | 312 | - | 1,855 | 3,649 | 874 | 813 | 4,584 | 7,347 | 406 | 22 | 1,788 | 561 | 60 | 407 | 1,016 | 26,332 |
| Rutsiro | 1,794 | 34 | - | 540 | - | 924 | 3,250 | 3,483 | 1,110 | 2,317 | 5,075 | 522 | - | 791 | 182 | 554 | 219 | 1,894 | 22,689 |
| Rubavu | 1,753 | 439 | - | - | - | 196 | 698 | 6,572 | 191 | 907 | 3,891 | 167 | - | 150 | 2,260 | 68 | 458 | 906 | 18,656 |
| Nyabihu | 3,652 | - | - | 1,326 | - | 66 | 2,725 | 7,605 | 38 | 259 | 2,038 | 195 | - | 40 | 862 | 92 | 526 | 697 | 20,120 |
| Ngororero | 2,849 | - | - | 1,444 | - | 325 | 7,259 | 1,316 | 769 | 3,767 | 4,179 | 308 | - | 774 | 235 | 11 | 364 | 61 | 23,662 |
| Rusizi | 1,241 | 85 | 1,482 | - | - | 8,143 | 1,935 | 81 | 605 | 1,235 | 8,677 | 144 | 237 | 719 | 231 | 193 | 50 | 2,066 | 27,125 |
| Nyamasheke | 615 | 15 | 357 | 48 | - | 3,720 | 3,445 | - | 974 | 1,247 | 5,333 | 182 | 690 | 1,563 | 304 | 212 | 60 | 2,794 | 21,558 |
| Rulindo | 969 | 4,310 | 17 | 74 | - | 1,068 | 3,265 | 994 | 160 | 2,587 | 10,612 | 215 | 47 | 182 | 530 | 89 | 90 | 550 | 25,758 |
| Gakenke | 1,415 | 552 | 28 | 490 | - | 1,072 | 7,607 | 1,249 | 1,275 | 5,935 | 12,236 | 200 | 49 | 754 | 406 | 210 | 170 | 1,027 | 34,675 |
| Musanze | 2,833 | 1,076 | - | 759 | - | - | 1,319 | 5,335 | 202 | 445 | 4,470 | 289 | - | 7 | 1,129 | 75 | 264 | 742 | 18,944 |
| Burera | 2,525 | 6,103 | - | 1,416 | - | 28 | 2,997 | 4,273 | 133 | 612 | 11,768 | 601 | - | - | 333 | 28 | 192 | 42 | 31,050 |
| Gicumbi | 2,089 | 16,871 | - | 208 | - | 500 | 5,845 | 2,792 | 142 | 1,959 | 10,833 | 930 | 298 | 79 | 300 | 356 | 794 | 259 | 44,254 |
| Rwamagana | 3,870 | 10,058 | 474 | - | - | 1,634 | 1,061 | 1,952 | 770 | 4,274 | 10,558 | 131 | 1,638 | 218 | 1,158 | 332 | 431 | 767 | 39,326 |
| Nyagatare | 18,329 | 7,569 | 1,493 | - | 12 | 1,770 | 1,748 | 886 | 114 | 4,774 | 31,180 | 89 | 3,519 | 1,076 | 793 | 82 | 11 | 46 | 73,490 |
| Gatsibo | 8,243 | 8,856 | 1,504 | - | 71 | 680 | 1,514 | 1,855 | 423 | 5,541 | 18,336 | 120 | 4,537 | 965 | 403 | 106 | 17 | 2,020 | 55,191 |
| Kayonza | 6,872 | 14,887 | 1,474 | - | 234 | 2,626 | 1,628 | 2,495 | 396 | 3,228 | 16,069 | 129 | 1,114 | 223 | 464 | 187 | 97 | 749 | 52,872 |
| Kirehe | 3,035 | 13,279 | 950 | 44 | 251 | 1,821 | 1,508 | 1,429 | 892 | 4,432 | 19,724 | 427 | 649 | 588 | 566 | 67 | - | 510 | 50,174 |
| Ngoma | 2,405 | 4,764 | 857 | - | 477 | 1,471 | 1,504 | 796 | 268 | 6,301 | 19,878 | 125 | 618 | 605 | 357 | 297 | 531 | 1,144 | 42,398 |
| Bugesera | 4,556 | 6,500 | 1,393 | | 38 | 1,053 | 2,517 | 692 | 298 | 6,839 | 17,831 | 42 | 2,818 | 895 | 497 | 193 | 568 | 903 | 47,635 |
| National | 80,570 | 133,033 | 16,302 | 8,749 | 1,660 | 47,837 | 87,762 | 51,595 | 15,017 | 82,137 | 301,584 | 7,521 | 21,534 | 25,574 | 15,574 | 4,429 | 8,249 | 25,032 | 934,159 |
| SSF | 78,782 | 132,985 | 335 | 8,700 | 1,643 | 47,818 | 87,751 | 51,263 | 15,014 | 82,086 | 300,148 | 7,321 | 21,506 | 25,162 | 15,364 | 4,265 | 7,721 | | 912,373 |
| LSF | 1,787 | 48 | 15,967 | 48 | 18 | 19 | 11 | 333 | 4 | 51 | 1,435 | 200 | 28 | 412 | 210 | 164 | 529 | 523 | 21,786 |

Table 16. Season C 2021_Harvested area by crop type per district (ha)

| District/Crop | Sweet potato | Irish potato | Yarms & Taro | Beans | Bush bean | Climbing bean | Pea | Soybean | vegetables | Developed land |
|---------------|--------------|--------------|--------------|-------|-----------|---------------|-----|---------|------------|----------------|
| Nyarugenge | 10 | 27 | - | 140 | 140 | 0 | - | 104 | 156 | 437 |
| Gasabo | 115 | 3 | - | 7 | 7 | - | - | 0 | 427 | 552 |
| Kicukiro | 34 | - | - | 71 | 71 | - | - | 0 | 79 | 184 |
| Nyanza | 221 | 3 | - | 120 | 99 | 20 | 128 | 25 | 260 | 757 |
| Gisagara | 529 | 2 | - | 311 | 311 | 1 | 19 | 215 | 225 | 1,301 |
| Nyaruguru | 553 | 254 | - | 283 | 282 | 1 | 31 | - | 68 | 1,189 |
| Huye | 371 | 85 | - | 239 | 221 | 19 | 98 | 4 | 248 | 1,046 |
| Nyamagabe | 303 | 59 | - | 13 | 13 | - | 12 | - | 45 | 431 |
| Ruhango | 208 | 0 | - | 36 | 36 | - | 28 | 0 | 88 | 361 |
| Muhanga | 161 | 43 | - | 72 | 69 | 3 | 71 | 112 | 132 | 593 |
| Kamonyi | 94 | 25 | - | 411 | 411 | - | 43 | 72 | 314 | 957 |
| Karongi | 131 | 47 | - | 3 | 2 | 2 | 0 | 13 | 34 | 228 |
| Rutsiro | 64 | 35 | - | - | - | - | 5 | - | 7 | 111 |
| Rubavu | 64 | 888 | - | 134 | 3 | 131 | 35 | - | 190 | 1,310 |
| Nyabihu | 169 | 2,624 | - | 117 | 85 | 32 | 64 | - | 92 | 3,066 |
| Ngororero | 107 | 44 | - | 1 | 1 | - | - | 8 | 4 | 163 |
| Rusizi | 75 | 34 | - | 60 | 60 | - | - | 4 | 361 | 533 |
| Nyamasheke | 122 | 0 | - | - | - | - | - | - | 93 | 216 |
| Rulindo | 92 | 243 | - | 2 | 2 | - | 2 | - | 61 | 400 |
| Gakenke | 149 | 263 | - | 36 | 33 | 3 | 0 | 144 | 57 | 650 |
| Musanze | 401 | 2,054 | - | 38 | 33 | 5 | 1 | - | 289 | 2,784 |
| Burera | 396 | 2,287 | - | 28 | 19 | 9 | - | - | 24 | 2,736 |
| Gicumbi | 103 | 483 | - | 4 | 1 | 3 | - | - | 21 | 611 |
| Rwamagana | 67 | 13 | - | 174 | 174 | - | - | - | 271 | 526 |
| Nyagatare | 227 | 7 | - | 3 | 2 | 1 | - | 0 | 823 | 1,061 |
| Gatsibo | 203 | 4 | - | 2 | 2 | - | - | 0 | 140 | 349 |
| Kayonza | 36 | 84 | - | 28 | 28 | - | 1 | - | 189 | 338 |
| Kirehe | 76 | 42 | - | 18 | 17 | 1 | 1 | 2 | 150 | 289 |
| Ngoma | 35 | 2 | - | 187 | 187 | - | 2 | - | 83 | 309 |
| Bugesera | 111 | 9 | - | 1,211 | 1,211 | - | 0 | 38 | 130 | 1,500 |
| National | 5,226 | 9,667 | - | 3,748 | 3,517 | 230 | 542 | 741 | 5,061 | 24,985 |

Table 17. Season A 2021_Average yield by crop type per district (Kg/Ha)

| Nyarugenge 1,383 - - - - 9,101 5,429 4,879 6,469 10,456 705 - 460 637 10,107 18,861 21,825 Gasabo 1,158 - 3,709 - 117 11,951 6,556 4,311 4,138 11,147 584 1,106 439 329 8,005 7,195 12,546 Kicukiro 1,663 - 6,293 - - 10,286 6,956 3,756 5,057 10,399 568 - 458 538 4,913 6,971 32,718 Nyanza 1,552 603 3,798 - - 15,870 5,607 3,582 3,292 7,885 576 787 234 289 9,292 5,708 14,569 Gisagara 1,902 760 4,266 - 539 15,962 5,893 2,751 9,367 7,955 581 922 388 530 6,081 | District | Maize | Sorghum | Paddy rice | Wheat | Other Cereals | Cassava | Sweet potatoes | Irish potatoes | ams & Taro | Banana | Bean | Peas | Ground nuts | Soya beans | Negetables | Fruits | Fodder crops |
|---|----------|----------|----------|------------|-------------|---------------|---------|----------------|----------------|------------|--------|----------|----------|-------------|------------|------------|--------|--------------|
| Gasabo 1,158 - 3,709 - 117 11,951 6,556 4,311 4,138 11,147 584 1,106 439 329 8,005 7,195 12,546 Kicukiro 1,663 - 6,293 10,286 6,956 3,756 5,057 10,399 568 - 458 538 4,913 6,971 32,718 Nyanza 1,552 603 3,798 15,870 5,607 3,582 3,292 7,885 576 787 234 289 9,292 5,708 14,569 Gisagara 1,902 760 4,266 - 539 15,962 5,893 2,751 9,367 7,955 581 922 388 530 6,081 11,898 10,245 Nyaruguru 1,924 901 324 11,043 9,265 5,620 7,145 10,481 540 860 216 349 9,000 2,755 17,941 Huye 1,551 - 4,117 - 423 18,716 5,610 3,627 7,546 10,327 658 989 427 499 6,832 2,381 13,390 Nyamagabe 1,476 - 2,155 487 - 9,722 6,682 5,741 4,450 8,143 515 929 238 475 7,203 2,593 15,077 Ruhango 1,296 323 4,900 - 527 21,308 6,216 3,672 3,719 9,138 695 708 268 498 7,262 1,542 12,281 | District | <u>∑</u> | <u> </u> | عَدَّ | | 0 | 0 101 | | | | 10 4FG | <u>~</u> | <u>a</u> | | <u> </u> | 10 107 | | |
| Kicukiro 1,663 - 6,293 - - 10,286 6,956 3,756 5,057 10,399 568 - 458 538 4,913 6,971 32,718 Nyanza 1,552 603 3,798 - - 15,870 5,607 3,582 3,292 7,885 576 787 234 289 9,292 5,708 14,569 Gisagara 1,902 760 4,266 - 539 15,962 5,893 2,751 9,367 7,955 581 922 388 530 6,081 11,898 10,245 Nyaruguru 1,924 - - 901 324 11,043 9,265 5,620 7,145 10,481 540 860 216 349 9,000 2,755 17,941 Huye 1,551 - 4,117 - 423 18,716 5,610 3,627 7,546 10,327 658 989 427 499 6,832 2,381 13,390 Nyamagabe 1,476 - 2,155 487 < | | | | 2 700 | - | 117 | | | | | | | 1 106 | | | 0.005 | , | |
| Nyanza 1,552 603 3,798 15,870 5,607 3,582 3,292 7,885 576 787 234 289 9,292 5,708 14,569 Gisagara 1,902 760 4,266 - 539 15,962 5,893 2,751 9,367 7,955 581 922 388 530 6,081 11,898 10,245 Nyaruguru 1,924 901 324 11,043 9,265 5,620 7,145 10,481 540 860 216 349 9,000 2,755 17,941 Huye 1,551 - 4,117 - 423 18,716 5,610 3,627 7,546 10,327 658 989 427 499 6,832 2,381 13,390 Nyamagabe 1,476 - 2,155 487 - 9,722 6,682 5,741 4,450 8,143 515 929 238 475 7,203 2,593 15,077 Ruhango 1,296 323 4,900 - 527 21,308 6,216 3,672 3,719 9,138 695 708 268 498 7,262 1,542 12,281 | | | | | | 117 | | | | | | | 1,100 | | | | | |
| Gisagara 1,902 760 4,266 - 539 15,962 5,893 2,751 9,367 7,955 581 922 388 530 6,081 11,898 10,245 Nyaruguru 1,924 901 324 11,043 9,265 5,620 7,145 10,481 540 860 216 349 9,000 2,755 17,941 Huye 1,551 - 4,117 - 423 18,716 5,610 3,627 7,546 10,327 658 989 427 499 6,832 2,381 13,390 Nyamagabe 1,476 - 2,155 487 - 9,722 6,682 5,741 4,450 8,143 515 929 238 475 7,203 2,593 15,077 Ruhango 1,296 323 4,900 - 527 21,308 6,216 3,672 3,719 9,138 695 708 268 498 7,262 1,542 12,281 | | | | | | - | | | | | | | - 707 | | | | | |
| Nyaruguru 1,924 901 324 11,043 9,265 5,620 7,145 10,481 540 860 216 349 9,000 2,755 17,941 Huye 1,551 - 4,117 - 423 18,716 5,610 3,627 7,546 10,327 658 989 427 499 6,832 2,381 13,390 Nyamagabe 1,476 - 2,155 487 - 9,722 6,682 5,741 4,450 8,143 515 929 238 475 7,203 2,593 15,077 Ruhango 1,296 323 4,900 - 527 21,308 6,216 3,672 3,719 9,138 695 708 268 498 7,262 1,542 12,281 | • | | | | | - 520 | | | | | | | | | | | | |
| Huye 1,551 - 4,117 - 423 18,716 5,610 3,627 7,546 10,327 658 989 427 499 6,832 2,381 13,390 Nyamagabe 1,476 - 2,155 487 - 9,722 6,682 5,741 4,450 8,143 515 929 238 475 7,203 2,593 15,077 Ruhango 1,296 323 4,900 - 527 21,308 6,216 3,672 3,719 9,138 695 708 268 498 7,262 1,542 12,281 | • | | | 4,200 | | | | | | | | | | | | | | |
| Nyamagabe 1,476 - 2,155 487 - 9,722 6,682 5,741 4,450 8,143 515 929 238 475 7,203 2,593 15,077 Ruhango 1,296 323 4,900 - 527 21,308 6,216 3,672 3,719 9,138 695 708 268 498 7,262 1,542 12,281 | | | | - 1 117 | | | | | | | | | | | | | | |
| Ruhango 1,296 323 4,900 - 527 21,308 6,216 3,672 3,719 9,138 695 708 268 498 7,262 1,542 12,281 | • | | | , | | 423 | | | | | | | | | | | | |
| | | | | | | - 527 | | | | | | | | | | | | |
| Muhanga 1.779 795 2.466 2.695 711 12.415 6.401 2.150 6.725 0.124 590 007 272 540 11.649 2.002 24.991 | | 1,272 | | 3,466 | 3,625 | 711 | 13,415 | 6,401 | 3,150 | 6,735 | 9,136 | 528 | 927 | 373 | 548 | 11,642 | 2,093 | 24,221 |
| Muhanga 1,272 725 3,466 3,625 711 13,415 6,401 3,150 6,735 9,134 528 927 373 548 11,642 2,093 24,221 Kamonyi 1,381 - 4,176 14,537 4,610 3,379 4,494 9,704 634 402 332 579 7,314 7,010 18,882 | | | | | • | / 1 1 | | | | | | | | | | | | |
| | • | | | 4,170 | | - | | | | | | | | | | | | |
| D. 1000 F00 10150 7005 0511 7117 1117 001 010 015 7500 0707 10105 | | | | - | | - | | | | | | | | - | | | | |
| Rutsiro 1,602 536 - 12,453 7,365 9,511 7,417 11,147 694 842 - 645 7,539 6,797 12,405 Rubavu 1,581 769 7,056 12,764 4,620 10,228 595 656 621 1,072 8,692 4,246 24,549 | | | | - | 550 | - | 12,433 | | | | | | | 621 | | | | |
| Nyabihu 1,216 858 - 1,021 - 10,812 6,973 12,704 4,020 10,226 393 030 021 1,072 0,092 4,240 24,349 | | | | - | 1 021 | - | 10 912 | | | | | | | | 1,072 | | | |
| Ngororero 921 819 - 864 - ` 6,321 4,651 6,728 7,824 590 782 - 325 8,288 6,063 10,303 | • | | | - | | - | 10,012 | | | | | | | | 325 | | | |
| Rusizi 1,512 429 4,833 10,786 5,842 3,897 6,562 9,271 621 848 602 738 7,329 8,695 4,411 | | | | V 833 - | 004 | - | 10 796 | | | | | | | | | | , | |
| | | | | | 50 <i>4</i> | 1 1 1 6 | | | | | | | | | | | | |
| Nyamasheke 1,548 726 5,658 504 1,146 9,991 4,026 4,742 4,834 7,846 741 730 498 610 8,971 8,108 22,021 Rulindo 1,534 - 3,919 878 - 11,896 6,764 4,803 4,693 9,737 520 713 438 516 9,510 6,038 9,691 | | | | | | 1,140 | | | | | | | | | | | | |
| Gakenke 1,646 1,558 2,022 563 750 13,514 6,222 5,546 6,467 10,677 698 772 718 537 6,821 11,450 16,714 | | | | | | 750 | | | | | | | | | | | , | |
| Musanze 1,639 1,549 - 1,182 294 5,815 7,386 13,222 2,920 12,016 712 676 - 724 6,351 4,846 6,596 | | | | 2,022 | | | | | | | | | | | | | | |
| Burera 2,088 1,312 - 1,468 593 11,725 9,283 10,805 6,670 10,899 640 688 6,975 735 14,420 | | | | _ | | | | | | | | | | | 124 | | | |
| Gicumbi 1,391 886 - 612 - 13,092 8,970 9,018 6,235 10,529 743 657 596 489 6,921 2,685 13,575 | | | | _ | , | 333 | | | | | | | | | 180 | | | |
| Rwamagana 1,503 - 3,005 - 495 19,537 6,323 6,071 3,468 12,622 741 688 313 367 6,022 1,996 17,237 | | | | 3 005 | | 105 | | | | | | | | | | | | |
| Nyagatare 1,794 1,658 4,199 - 936 15,613 4,426 6,609 1,881 14,820 747 624 541 658 4,801 2,842 7,602 | | | | | | | | | | | | | | | | | | |
| Gatsibo 1,610 974 3,159 - 453 13,230 7,455 5,111 2,598 11,648 593 587 433 545 3,682 6,088 11,474 | | | | | _ | | | | | | | | | | | | | |
| Kayonza 1,514 1,270 4,175 500 730 12,061 6,252 3,494 5,459 13,309 712 467 386 400 9,130 2,643 20,937 | | | | | 500 | | | | | | | | | | | | | |
| Kirehe 1,519 851 4,860 - 658 15,037 5,934 4,785 2,661 13,657 747 756 366 545 6,887 16,609 16,080 | | | | | | | | | | | | | | | | | | |
| Ngoma 1,719 1,072 3,676 - 314 11,935 6,142 5,258 4,528 12,593 717 817 419 430 9,675 3,396 11,342 | | | | | | | | | | | | | | | | | | |
| Bugesera 1,613 817 4,266 - 688 17,030 6,725 2,418 1,406 10,670 635 720 368 351 9,387 3,121 10,619 | | | | | | | | | | | | | | | | | | |
| National 1,600 1,309 4,160 1,018 629 14,220 6,707 8,881 6,009 10,926 687 775 395 518 7,912 5,495 14,226 | | | | | | | | | | | | | | | | | | |
| SSF 1,529 1,309 3,191 1,015 629 14,220 6,708 8,877 6,009 10,925 687 775 395 515 7,910 5,585 14,437 | | | | | | | | | | | | | | | | | | |
| LSF 3,975 2,253 4,253 1,740 - 17,543 3,232 10,853 4,318 11,703 1,048 604 528 711 8,264 3,617 11,503 | | | | | | - | | | | | | | | | | | | |

Table 18. Season B 2021_Average yield by crop type per district (Kg/Ha)

| | | | | | | <u> </u> | | , , | | | | | | | | | | |
|------------|-------|---------|------------|-------|---------------|----------|-------------------|----------------|----------|---------|-------|-------|--------|------------|------------|--------|--------------|---------|
| | o) | Sorghum | Paddy rice | at | Other Cereals | ava | at oes | Irish potatoes | s & Taro | nas | v | | ţ | Soya beans | 'egetables | 40 | Fodder crops | r crops |
| District | Maize | Sorgl | >add | Wheat | Othe | Cassava | Sweet potatoes | rish | Yams | Bananas | Beans | Peas | G-nuts | Soya | Vege | Fruits | ppo_ | Other |
| Nyarugenge | 1,122 | 842 | | | | 11,593 | 4,501 | 2,584 | 7,250 | 9,851 | 637 | 539 | 277 | 426 | 8,603 | 5,043 | 5,470 | 1,408 |
| Gasabo | 1,210 | 1,032 | 3,416 | _ | _ | 12,850 | 5,648 | 3,384 | 2,424 | 12,828 | 749 | 675 | 336 | 437 | 12,053 | 7,038 | 11,233 | 910 |
| Kicukiro | 1,071 | 1,180 | 6,632 | - | - | 14,485 | 10,375 | 3,786 | 5,573 | 13,437 | 747 | 551 | 498 | 839 | 14,351 | 3,716 | 20,832 | 32,371 |
| Nyanza | 1,123 | 1,117 | 3,403 | - | 917 | 18,280 | 9,123 | 3,153 | 3,981 | 9,470 | 693 | 602 | 344 | 341 | 13,770 | 6,905 | 5,416 | 492 |
| Gisagara | 1,056 | 829 | 3,533 | - | 803 | 17,128 | 5,345 | 2,528 | 3,624 | 11,429 | 619 | 567 | 427 | 418 | 10,592 | 19,628 | 8,212 | 1,321 |
| Nyaruguru | 1,705 | 631 | - | 849 | - | 14,786 | 7,983 | 6,945 | 10,541 | 9,770 | 912 | 1,130 | - | 567 | 10,143 | 5,929 | 10,809 | 1,300 |
| Huye | 1,357 | 860 | 3,856 | - | 867 | 18,607 | 8,591 | 3,230 | 4,360 | 9,814 | 685 | 895 | 480 | 446 | 12,089 | 557 | 3,289 | 1,018 |
| Nyamagabe | 1,276 | 715 | 3,320 | 1,277 | - | 12,663 | 6,035 | 7,228 | 8,363 | 7,181 | 684 | 942 | - | 445 | 10,967 | 2,500 | 24,895 | 832 |
| Ruhango | 1,046 | 837 | 3,203 | - | 796 | 18,755 | 3,969 | 3,662 | 7,056 | 9,299 | 640 | 969 | 503 | 520 | 9,430 | 7,270 | 11,792 | 35,534 |
| Muhanga | 1,108 | 752 | 2,903 | 1,133 | - | 16,332 | 6,809 | 3,874 | 7,116 | 9,077 | 632 | 505 | 363 | 385 | 10,258 | 3,435 | 21,840 | 4,458 |
| Kamonyi | 885 | 1,026 | 3,029 | - | 700 | 16,035 | 5,943 | 2,291 | 8,860 | 9,303 | 583 | 856 | 394 | 443 | 10,609 | 5,601 | 10,845 | 8,816 |
| Karongi | 1,385 | 757 | - | 888 | - | 14,071 | 10,967 | 4,537 | 9,463 | 10,182 | 793 | 1,105 | 467 | 467 | 9,390 | 3,057 | 11,901 | 1,279 |
| Rutsiro | 1,518 | 1,333 | - | 380 | - | 14,660 | 6,634 | 4,597 | 8,146 | 14,458 | 800 | 740 | - | 544 | 10,683 | 6,249 | 9,337 | 1,592 |
| Rubavu | 1,849 | 1,769 | - | - | - | 11,902 | 6,340 | 10,845 | 5,284 | 12,830 | 926 | 903 | - | 991 | 14,384 | 3,449 | 447 | 13,543 |
| Nyabihu | 1,436 | - | - | 965 | - | 9,276 | 5,945 | 11,075 | 8,690 | 9,834 | 945 | 697 | - | 370 | 18,284 | 3,778 | 8,032 | 248 |
| Ngororero | 1,031 | - | - | 862 | - | 12,108 | 6,452 | 4,063 | 9,496 | 9,941 | 683 | 950 | - | 325 | 11,556 | 792 | 10,199 | 1,468 |
| Rusizi | 1,337 | 585 | 5,317 | - | - | 9,133 | 8,952 | 6,989 | 7,416 | 12,818 | 797 | 917 | 457 | 539 | 6,850 | 3,324 | 2,646 | 2,104 |
| Nyamasheke | 1,034 | 1,040 | 4,290 | 670 | - | 11,362 | 8,303 | - | 6,579 | 12,209 | 729 | 792 | 480 | 500 | 11,249 | 5,293 | 9,175 | 2,183 |
| Rulindo | 1,158 | 1,003 | 2,398 | 840 | - | 15,873 | 7,033 | 5,359 | 6,278 | 12,027 | 793 | 554 | 488 | 513 | 7,998 | 6,007 | 22,192 | 36,725 |
| Gakenke | 1,104 | 1,107 | 3,921 | 1,409 | - | 18,310 | 10,906 | 5,160 | 7,359 | 11,651 | 934 | 509 | 378 | 614 | 9,768 | 7,436 | 6,198 | 1,975 |
| Musanze | 1,605 | 1,219 | - | 1,159 | - | - | 10,188 | 10,736 | 10,086 | 9,530 | 1,114 | 1,224 | - | 612 | 7,915 | 8,006 | 10,613 | 3,339 |
| Burera | 1,238 | 1,369 | - | 1,335 | - | 12,410 | 7,610 | 10,604 | 7,696 | 13,449 | 1,092 | 812 | - | - | 11,304 | 2,381 | 10,888 | - |
| Gicumbi | 1,051 | 1,120 | - | 856 | - | 15,670 | 7,117 | 8,328 | 7,620 | 12,641 | 967 | 945 | 602 | 306 | 12,908 | - | 11,888 | 1,045 |
| Rwamagana | 977 | 1,221 | 4,912 | - | - | 16,006 | 4,615 | 4,299 | 6,207 | 14,792 | 629 | 380 | 329 | 372 | 10,488 | 5,549 | 16,318 | 2,648 |
| Nyagatare | 1,430 | 921 | 4,543 | - | 1,041 | 18,337 | 3,976 | 3,606 | 5,495 | 13,816 | 837 | 491 | 637 | 655 | 9,784 | 5,921 | 10,166 | 327 |
| Gatsibo | 1,410 | 1,145 | 3,646 | - | 942 | 15,163 | 8,056 | 4,345 | 7,729 | 13,764 | 699 | 617 | 522 | 639 | 7,763 | 5,995 | 10,011 | 2,563 |
| Kayonza | 977 | 1,135 | 4,246 | - | 884 | 16,480 | 4,866 | 3,233 | 5,513 | 16,145 | 639 | 654 | 575 | 620 | 9,413 | 6,418 | 4,340 | 1,105 |
| Kirehe | 2,092 | 858 | 4,494 | 50 | 1,004 | 17,813 | 5,659 | 2,390 | 4,758 | 16,533 | 703 | 1,042 | 444 | 564 | 8,160 | 12,161 | - | 2,213 |
| Ngoma | 807 | 991 | 3,190 | - | 1,113 | 17,048 | 6,225 | 4,668 | 3,551 | 14,828 | 823 | 560 | 560 | 496 | 10,705 | 8,980 | 21,127 | 1,298 |
| Bugesera | 1,162 | 687 | 6,054 | - | 1,334 | 17,240 | 3,986 | 2,365 | 6,684 | 9,719 | 674 | 445 | 486 | 318 | 10,909 | 5,175 | 32,715 | 1,238 |
| National | 1,291 | 1,010 | 4,159 | 1,050 | 964 | 15,021 | 7,208 | 7,624 | 7,128 | 12,071 | 761 | 871 | 500 | 477 | 11,104 | 5,721 | 13,235 | 4,961 |
| SSF | 1,236 | 1,009 | 3,823 | 1,048 | 968 | 15,020 | 7,209 | 7,569 | 7,128 | 12,070 | 759 | 852 | 499 | 464 | 11,126 | 5,766 | 12,103 | 5,019 |
| LSF | 3,749 | 1,804 | 4,166 | 1,412 | 606 | 18,133 | 4,865 | 16,166 | 4,500 | 13,514 | 1,195 | 1,545 | 788 | 1,273 | 9,481 | 4,542 | 29,775 | 2,252 |

Table 19. Season A 2021_detailed banana and beans average yield per district (Kg/Ha)

| District | To | tal Banana | Cooki | ng Banana | Dess | ert banana | Bana | na for beer | 1 | otal beans | | Bush bean | Clir | nbing bean |
|------------|----------|------------|----------|-----------|----------|------------|----------|-------------|----------|------------|----------|-----------|----------|------------|
| | Season A | Season B | Season A | Season B | Season A | Season B | Season A | Season B | Season A | Season B | Season A | Season B | Season A | Season B |
| Nyarugenge | 10,456 | 9,851 | 10,464 | 19,359 | 9,279 | 7,846 | 10,872 | 8,277 | 9,332 | 637 | 690 | 632 | 720 | 826 |
| Gasabo | 11,147 | 12,828 | 12,315 | 17,801 | 9,874 | 13,334 | 10,433 | 8,280 | 11,214 | 749 | 570 | 746 | 597 | 789 |
| Kicukiro | 10,399 | 13,437 | 10,533 | 19,081 | 11,096 | 14,425 | 10,009 | 9,594 | 11,843 | 747 | 627 | 743 | 509 | 1,013 |
| Nyanza | 7,885 | 9,470 | 6,968 | 12,455 | 7,302 | 8,744 | 8,631 | 8,793 | 8,226 | 693 | 608 | 668 | 543 | 796 |
| Gisagara | 7,955 | 11,429 | 6,745 | 16,748 | 7,122 | 9,894 | 8,876 | 10,374 | 8,631 | 619 | 563 | 587 | 598 | 843 |
| Nyaruguru | 10,481 | 9,770 | 11,051 | 14,857 | 8,380 | 8,032 | 10,873 | 7,913 | 9,095 | 912 | 523 | 620 | 557 | 981 |
| Huye | 10,327 | 9,814 | 10,175 | 12,277 | 8,551 | 10,114 | 11,351 | 8,616 | 10,005 | 685 | 635 | 633 | 681 | 776 |
| Nyamagabe | 8,143 | 7,181 | 6,868 | 9,790 | 6,940 | 12,822 | 8,834 | 6,401 | 9,532 | 684 | 459 | 576 | 571 | 712 |
| Ruhango | 9,138 | 9,299 | 8,837 | 18,376 | 6,868 | 12,819 | 9,704 | 8,150 | 9,797 | 640 | 607 | 598 | 783 | 737 |
| Muhanga | 9,134 | 9,077 | 10,308 | 15,172 | 9,569 | 10,058 | 8,770 | 8,471 | 9,466 | 632 | 470 | 595 | 585 | 699 |
| Kamonyi | 9,704 | 9,303 | 10,788 | 17,576 | 7,266 | 11,167 | 9,903 | 8,066 | 9,445 | 583 | 561 | 555 | 707 | 793 |
| Karongi | 11,907 | 10,182 | 13,062 | 15,614 | 12,020 | 12,758 | 11,541 | 9,761 | 12,106 | 793 | 572 | 766 | 1,013 | 806 |
| Rutsiro | 11,147 | 14,458 | 12,979 | 23,250 | 8,238 | 17,814 | 11,061 | 9,764 | 12,371 | 800 | 466 | 675 | 921 | 817 |
| Rubavu | 10,228 | 12,830 | 9,543 | 18,656 | 6,110 | 12,624 | 11,470 | 11,212 | 10,068 | 926 | 433 | 388 | 757 | 995 |
| Nyabihu | 7,902 | 9,834 | 11,107 | 16,985 | 6,609 | 9,276 | 7,223 | 7,522 | 7,703 | 945 | 382 | - | 566 | 945 |
| Ngororero | 7,824 | 9,941 | 8,035 | 15,336 | 7,324 | 12,944 | 7,917 | 9,330 | 9,395 | 683 | 432 | 564 | 748 | 708 |
| Rusizi | 9,271 | 12,818 | 8,530 | 17,741 | 7,417 | 17,075 | 9,948 | 9,133 | 11,480 | 797 | 619 | 774 | 623 | 849 |
| Nyamasheke | 7,846 | 12,209 | 8,351 | 14,741 | 7,963 | 13,919 | 7,600 | 11,376 | 9,827 | 729 | 591 | 542 | 891 | 784 |
| Rulindo | 9,737 | 12,027 | 10,378 | 19,968 | 9,545 | 12,669 | 9,381 | 9,251 | 10,532 | 793 | 500 | 678 | 539 | 911 |
| Gakenke | 10,677 | 11,651 | 11,889 | 21,054 | 8,982 | 13,066 | 10,642 | 9,263 | 10,897 | 934 | 506 | 647 | 890 | 962 |
| Musanze | 12,016 | 9,530 | 13,596 | 14,167 | 8,297 | 7,139 | 11,416 | 9,099 | 8,951 | 1,114 | 423 | 901 | 1,001 | 1,130 |
| Burera | 10,899 | 13,449 | 13,412 | 20,214 | 5,598 | 12,240 | 9,091 | 8,041 | 8,976 | 1,092 | 550 | 740 | 730 | 1,114 |
| Gicumbi | 10,529 | 12,641 | 12,958 | 20,494 | 7,517 | 11,166 | 9,436 | 9,250 | 9,373 | 967 | 570 | 664 | 916 | 1,119 |
| Rwamagana | 12,622 | 14,792 | 15,490 | 18,509 | 8,120 | 9,119 | 8,617 | 7,642 | 8,619 | 629 | 636 | 618 | 846 | 1,023 |
| Nyagatare | 14,820 | 13,816 | 18,428 | 18,599 | 8,399 | 8,078 | 11,051 | 8,661 | 9,176 | 837 | 744 | 836 | 750 | 852 |
| Gatsibo | 11,648 | 13,764 | 14,750 | 17,611 | 7,783 | 10,550 | 8,849 | 10,234 | 9,061 | 699 | 656 | 679 | 530 | 888 |
| Kayonza | 13,309 | 16,145 | 15,953 | 18,665 | 8,467 | 13,833 | 9,103 | 8,793 | 10,468 | 639 | 746 | 635 | 678 | 1,047 |
| Kirehe | 13,657 | 16,533 | 16,982 | 21,725 | 7,856 | 10,303 | 10,355 | 8,586 | 9,505 | 703 | 670 | 632 | 824 | 834 |
| Ngoma | 12,593 | 14,828 | 15,233 | 17,421 | 7,154 | 8,153 | 10,780 | 10,980 | 8,696 | 823 | 593 | 801 | 841 | 1,012 |
| Bugesera | 10,670 | 9,719 | 14,189 | 13,768 | 7,716 | 12,275 | 8,865 | 7,927 | 9,619 | 674 | 697 | 673 | 573 | 719 |
| National | 10,926 | 12,071 | 13,614 | 18,163 | 8,116 | 11,704 | 9,725 | 8,949 | 9,848 | 761 | 628 | 687 | 746 | 911 |
| SSF | 10,925 | 12,070 | 13,616 | 18,170 | 8,116 | 11,704 | 9,725 | 8,949 | 9,848 | 759 | 627 | 684 | 746 | 910 |
| LSF | 11,703 | 13,514 | 12,132 | 13,929 | 9,103 | 11,918 | 10,552 | 11,216 | 10,524 | 1,195 | 1,001 | 1,192 | 1,094 | 1,235 |

Table 20. Season C 2020_Average yield by crop type per district (Kg/Ha)

| District/Crop | Tubers and Roots | Sweet potatoes | Irish potatoes | Bush bean | Climbing bean | Peas | Soya beans | Vegetables |
|---------------|------------------|----------------|----------------|-----------|---------------|-------|------------|------------|
| Nyarugenge | 3,913 | 3,851 | 3,937 | 881 | - | - | 632 | 14,184 |
| Gasabo | 4,377 | 4,375 | 4,461 | 966 | - | - | - | 10,229 |
| Kicukiro | 7,190 | 7,190 | - | 898 | - | - | - | 12,864 |
| Nyanza | 4,468 | 4,487 | 3,241 | 945 | 1,067 | 845 | 191 | 17,163 |
| Gisagara | 4,271 | 4,246 | 10,307 | 776 | - | 992 | 374 | 11,555 |
| Nyaruguru | 5,086 | 4,552 | 6,249 | 938 | 4,119 | 1,104 | - | 6,965 |
| Huye | 5,354 | 5,644 | 4,099 | 978 | 823 | 554 | - | 8,114 |
| Nyamagabe | 5,172 | 5,353 | 4,235 | 983 | - | 666 | - | 9,822 |
| Ruhango | 7,723 | 7,723 | - | 1,025 | - | 932 | 967 | 11,545 |
| Muhanga | 6,650 | 7,052 | 5,156 | 888 | 482 | 588 | 814 | 10,335 |
| Kamonyi | 4,829 | 5,252 | 3,232 | 1,265 | - | 638 | 650 | 12,199 |
| Karongi | 7,280 | 5,732 | 11,621 | 1,273 | - | - | 734 | 11,902 |
| Rutsiro | 6,427 | 6,594 | 6,117 | - | - | 764 | - | 8,262 |
| Rubavu | 10,655 | 5,338 | 11,037 | 377 | 760 | 440 | - | 8,734 |
| Nyabihu | 8,019 | 5,362 | 8,189 | 655 | 344 | 1,975 | - | 16,697 |
| Ngororero | 5,633 | 4,830 | 7,595 | 1,392 | - | - | 211 | 9,412 |
| Rusizi | 7,573 | 8,657 | 5,199 | 1,615 | - | - | - | 13,061 |
| Nyamasheke | 4,042 | 4,046 | - | - | - | - | - | 8,693 |
| Rulindo | 4,022 | 4,332 | 3,905 | 1,278 | - | 771 | - | 10,683 |
| Gakenke | 6,684 | 9,153 | 5,285 | 1,035 | - | - | 809 | 13,216 |
| Musanze | 8,217 | 6,325 | 8,587 | 355 | 1,241 | - | - | 11,378 |
| Burera | 9,073 | 5,286 | 9,730 | 846 | 794 | - | - | 23,029 |
| Gicumbi | 6,339 | 4,988 | 6,626 | - | - | - | - | 8,763 |
| Rwamagana | 4,338 | 4,237 | 4,845 | 1,162 | - | - | - | 8,657 |
| Nyagatare | 5,397 | 5,457 | 3,578 | - | - | - | - | 8,968 |
| Gatsibo | 6,788 | 6,733 | 9,318 | 552 | - | - | - | 9,701 |
| Kayonza | 5,534 | 7,466 | 4,709 | 746 | - | 355 | - | 15,605 |
| Kirehe | 4,262 | 4,436 | 3,942 | 1,260 | 1,558 | - | - | 11,664 |
| Ngoma | 5,579 | 5,781 | 2,593 | 850 | - | 1,234 | - | 13,256 |
| Bugesera | 5,249 | 5,569 | 1,225 | 936 | | 904 | 226 | 12,658 |
| National | 7,395 | 5,509 | 8,415 | 966 | 731 | 864 | 574 | 11,257 |

Table 21. Season A 2021_Average yield on Large scale farmers by crop type and district (Kg/Ha)

| Paddy rice Wheat Wheat Cassava Sweet potatoes Irish potatoes Yams & Taro Bananas Cooking Banana Dessert banana | Bush bean Climbing bean Peas Ground nuts Soya beans Vegetables Fruits Fodder crops | Other crops |
|--|--|-------------|
| Gasabo 3,843 - 3,709 6,825 8,851 8,851 | 755 755 342 1,201 2,888 7,195 8, | 179 |
| Kicukiro 1,106 - 6,293 10,255 10,554 9,600 - | | 805 |
| Nyanza 2,746 - 4,370 | | - |
| Gisagara 3,215 - 4,335 1,921 8,265 11,091 5,228 8,246 | 446 446 1,007 2,089 - | _ |
| Nyaruguru 4,493 9,796 - 9,906 5,963 7,650 13,459 | | 493 |
| Huye 4,150 - 4,117 5,098 8,389 8,389 | 335 335 23,775 - | - |
| Nyamagabe 1,083 9,978 | 1,546 - 1,546 | - |
| Ruhango 1,034 - 5,115 - 20,849 10,600 8,944 8,944 | 217 217 265 - 209 147 9,474 - 29, | 915 |
| Muhanga 1,933 - 3,466 3,625 9,673 | | - |
| Kamonyi 3,030 - 4,176 | 308 308 889 | - |
| Karongi | | - |
| Rubavu | | - |
| Rusizi 1,616 22,259 2,629 11,185 11,185 | 827 124 1,907 1,105 1,234 - 24, | 549 |
| Nyamasheke | | - |
| Rulindo | | - |
| Gicumbi 2,337 - 4,950 2,554 - 6,116 11,986 9,144 - 12,775 | 788 788 1,906 | - |
| Rwamagana 229 - 5,658 | 746 713 801 - 586 | - |
| Nyagatare 4,223 - 3,919 1,636 8,704 - 10,631 10,631 | 806 408 2,174 707 13,812 - | - |
| Gatsibo | | - |
| Kayonza | | - |
| Kirehe | | - |
| Ngoma 2,256 1,129 10,217 | 567 - 567 633 11,874 - 11, | 354 |
| Bugesera 3,538 - 3,005 - 25,034 9,022 8,583 2,547 15,157 15,617 8,427 9,383 | 572 575 271 539 211 498 6,644 1,592 25, | 121 |
| National 4,302 2,109 4,199 - 22,841 3,079 6,454 - 8,758 8,585 7,305 16,683 | 512 507 627 767 - 1,053 7,665 3,424 7, | 602 |

Table 22. Season B 2020_Average yield on large scale farmers by crop type and district (Kg/Ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potatoes | lrish potatoes | rams & Taro | Bananas | Cooking Banana | Dessert banana | Banana for beer | Beans | Bush bean | Climbing bean | Peas | Ground nuts | Soya beans | /egetables | Fruits | Fodder crops | Other crops |
|------------|-------|------------|------------|-------|---------|----------------|----------------|-------------|---------|-------------------|----------------|-----------------|--------|-----------|---------------|-------|-------------|------------|------------|----------|--------------|-------------|
| Gasabo | 2,755 | 1,536 | 3,416 | | | - | 6,060 | - | | 3,848 | 3,848 | | - | 830 | 830 | | <u> </u> | - | 446 | 3,525 | 20,376 | 5,850 |
| Kicukiro | 988 | 1,769 | 6,632 | _ | _ | _ | <i>'</i> - | - | _ | 13,322 | 11,720 | 14,736 | - | 236 | 236 | _ | _ | _ | 1,848 | 67,075 | , - | 30,901 |
| Nyanza | - | , <u>-</u> | 3,367 | - | - | - | - | 7,220 | - | , - | , <u>-</u> | ´ - | - | 1,443 | - | 1,443 | - | - | <i>'</i> - | <i>-</i> | - | , - |
| Gisagara | 2,054 | - | 3,541 | - | - | - | 6,118 | · - | - | 10,854 | 16,431 | 6,288 | 10,837 | 311 | 281 | 1,012 | - | - | 1,278 | 1,002 | - | - |
| Nyaruguru | 4,000 | - | · - | - | - | - | · - | 20,472 | - | 8,293 | 6,133 | 7,220 | 9,500 | 1,048 | 1,054 | 795 | - | - | · - | · - | 7,270 | 38,614 |
| Huye | 3,692 | - | 3,856 | - | - | - | - | · - | - | · - | · - | · - | · - | · - | · - | - | - | - | - | - | · - | · - |
| Nyamagabe | - | - | - | 846 | - | - | - | 6,622 | - | - | - | - | - | 401 | - | 401 | 653 | - | - | - | - | _ |
| Ruhango | 3,715 | - | 3,223 | - | - | 26,398 | - | - | 4,240 | 10,556 | 11,001 | 15,017 | 10,468 | 331 | 331 | - | - | - | - | 3,956 | - | - |
| Muhanga | 1,114 | - | 2,903 | 1,133 | - | - | - | 6,776 | - | - | - | - | - | 1,053 | 293 | 1,078 | - | - | - | 8,705 | - | - |
| Kamonyi | 4,088 | - | 3,029 | - | - | - | - | 2,799 | - | - | - | - | - | 1,290 | 1,290 | - | 1,425 | - | - | 15,073 | - | - |
| Karongi | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rubavu | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rusizi | 2,919 | - | - | - | - | - | - | 12,707 | 4,790 | 12,387 | 12,387 | - | - | 1,430 | - | 1,430 | - | - | - | - | - | - |
| Nyamasheke | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rulindo | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Gicumbi | 2,256 | - | 5,334 | - | - | 9,489 | - | - | - | 9,664 | 8,619 | - | 11,057 | 830 | 830 | - | - | - | - | - | - | - |
| Rwamagana | - | - | 4,290 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 238 | - | - | - | - |
| Nyagatare | 2,846 | 1,857 | 2,398 | 2,104 | - | - | - | 8,469 | - | - | - | - | - | 926 | 911 | 935 | - | - | - | 3,187 | - | - |
| Gatsibo | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Kayonza | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Kirehe | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ngoma | 665 | - | - | 1,278 | - | - | - | 6,350 | - | - | - | - | - | 891 | - | 891 | - | - | - | - | - | 27,737 |
| Bugesera | 1,848 | 2,097 | 4,912 | - | - | 17,782 | 5,535 | 6,936 | 4,798 | 16,400 | 17,280 | 8,056 | - | 720 | 710 | 3,216 | | 467 | 138 | 8,467 | 4,140 | 19,693 |
| National | 3,354 | 1,668 | 4,543 | - | - | 49,096 | 2,661 | 4,433 | - | 15,374 | 15,755 | 10,474 | 12,223 | 1,295 | 1,294 | 1,450 | 855 | - | 1,312 | 4,585 | 12,206 | 10,166 |

Table 23. Season C_Average yield by crop type and district-SITE (Kg/Ha)

| | Sweet potatoes | Irish potatoes | Bush bean | Climbing bean | Peas | Soya beans | Vegetables |
|------------|----------------|----------------|-----------|---------------|-------|------------|------------|
| Nyarugenge | 3,644 | - | - | - | - | 520 | 18,434 |
| Gasabo | 7,147 | - | 1,452 | - | - | - | 11,143 |
| Kicukiro | 8,740 | - | 958 | - | - | - | 16,014 |
| Nyanza | 5,076 | 3,241 | 1,026 | - | 845 | - | 15,416 |
| Gisagara | 5,015 | 10,307 | 772 | - | 992 | 432 | 10,740 |
| Nyaruguru | 5,271 | 5,079 | 991 | 4,119 | - | - | - |
| Huye | 5,072 | 3,231 | 1,074 | - | 571 | - | 7,620 |
| Nyamagabe | 6,251 | 4,598 | 949 | - | 940 | - | 9,647 |
| Ruhango | 9,765 | - | 819 | - | 1,249 | 967 | 9,958 |
| Muhanga | 5,512 | 5,156 | 879 | 482 | 677 | 548 | 10,168 |
| Kamonyi | 5,300 | 1,942 | 1,210 | - | 624 | - | 9,819 |
| Karongi | 6,122 | 11,621 | 1,273 | - | - | - | 10,535 |
| Rutsiro | 5,786 | 6,975 | - | - | 752 | - | - |
| Rubavu | - | 11,434 | - | - | - | - | 1,639 |
| Nyabihu | - | 10,749 | - | - | - | - | 11,403 |
| Ngororero | - | 7,457 | - | - | - | - | - |
| Rusizi | 8,432 | - | 1,783 | - | - | - | 10,607 |
| Nyamasheke | 4,394 | - | - | - | - | - | 10,294 |
| Rulindo | 5,433 | 5,260 | 1,278 | - | 771 | - | 12,176 |
| Gakenke | 8,129 | 5,040 | 1,334 | - | - | 804 | 13,519 |
| Musanze | 8,191 | 9,744 | 770 | - | - | - | 8,272 |
| Burera | - | 11,996 | 1,729 | - | - | - | - |
| Gicumbi | 7,394 | 4,392 | - | - | - | - | 12,989 |
| Rwamagana | 4,389 | 4,140 | 1,363 | - | - | - | 12,104 |
| Nyagatare | 3,690 | 3,578 | - | - | - | - | 9,316 |
| Gatsibo | 7,437 | 9,318 | 552 | - | - | - | 11,155 |
| Kayonza | 8,475 | 5,774 | 706 | - | 355 | - | 15,253 |
| Kirehe | 3,736 | 4,147 | 1,426 | - | - | - | 10,365 |
| Ngoma | 5,544 | 2,862 | 850 | - | 1,234 | - | 13,952 |
| Bugesera | 5,528 | 1,212 | 919 | - | 904 | - | 12,788 |
| National | 5,989 | 7,546 | 971 | 199 | 742 | 392 | 11,277 |

Table 24. Season A 2021_Crop production by crop type per district (MT)

| District | Maize | Sorghum | Paddy rice | Wheat | Other Cereals | Cassava | Sweet potatoes | lrish potatoes | rams & Taro | Bananas | Beans | Peas | Ground nuts | Soya beans | Vegetables | Fruits | Fodder crops | Other crops |
|------------|---------|---------|------------|-------|---------------|---------|----------------|----------------|-------------|-----------|---------|----------|-------------|------------|------------|--------|--------------|-------------|
| Nyarugenge | 1,209 | - 07 | | | | 1,704 | 2,016 | 401 | 353 | 10,492 | 1,689 | <u> </u> | 22 | 176 | 2,491 | 114 | 630 | 416 |
| Gasabo | 3,613 | _ | 862 | _ | 1 | 10,731 | 7,814 | 2,699 | 611 | 20,365 | 5,280 | 159 | 193 | 119 | 6,118 | 15 | 7,083 | 1,205 |
| Kicukiro | 1,606 | _ | 171 | _ | - | 456 | 2,940 | 55 | 252 | 4,943 | 1,450 | - | 31 | 42 | 1,033 | 109 | 1,020 | 1,150 |
| Nyanza | 8,134 | 168 | 1,355 | _ | - | 58,622 | 13,922 | 1,112 | 927 | 27,998 | 12,707 | 81 | 209 | 476 | 5,640 | 622 | 5,975 | 92 |
| Gisagara | 12,020 | 409 | 8,722 | _ | 89 | 17,606 | 14,383 | 954 | 3,512 | 30,184 | 9,859 | 105 | 187 | 1,069 | 2,803 | 577 | 576 | 496 |
| Nyaruguru | 11,155 | - | · - | 30 | 2 | 11,205 | 44,884 | 7,751 | 5,184 | 19,353 | 5,104 | 319 | 8 | 243 | 5,584 | 326 | 6,128 | 3,289 |
| Huye | 6,989 | - | 4,003 | - | 153 | 46,557 | 17,601 | 3,414 | 1,546 | 28,913 | 9,455 | 142 | 101 | 951 | 3,202 | 93 | 1,422 | 48 |
| Nyamagabe | 8,269 | - | 575 | 63 | - | 15,196 | 54,195 | 15,055 | 1,766 | 20,142 | 6,340 | 1,309 | 4 | 746 | 4,901 | 386 | 4,026 | - |
| Ruhango | 4,475 | 4 | 4,177 | - | 16 | 95,120 | 12,128 | 1,681 | 2,150 | 23,462 | 8,998 | 86 | 299 | 1,474 | 3,410 | 179 | 7,527 | 1,725 |
| Muhanga | 2,284 | 21 | 503 | 12 | 16 | 18,393 | 27,735 | 1,120 | 21,191 | 57,788 | 3,698 | 51 | 7 | 1,065 | 4,752 | 243 | 11,170 | 802 |
| Kamonyi | 5,617 | - | 767 | - | - | 24,521 | 10,976 | 2,273 | 1,473 | 44,022 | 8,041 | 33 | 318 | 1,538 | 5,757 | 5,670 | 6,811 | 2,631 |
| Karongi | 12,988 | - | - | 35 | - | 14,074 | 35,085 | 9,329 | 7,324 | 46,770 | 5,783 | 751 | - | 664 | 9,592 | 970 | 6,479 | 562 |
| Rutsiro | 10,727 | - | - | 171 | - | 2,225 | 28,640 | 29,874 | 9,676 | 32,913 | 3,734 | 510 | - | 542 | 3,408 | 3,380 | 3,542 | 8,642 |
| Rubavu | 3,366 | 103 | - | - | - | - | 4,998 | 69,790 | 492 | 15,673 | 5,634 | 51 | 26 | 278 | 17,255 | 137 | 24 | 28,453 |
| Nyabihu | 4,207 | 1,071 | - | 1,268 | - | 1,172 | 20,979 | 115,357 | 859 | 3,300 | 4,225 | 673 | - | - | 10,401 | 145 | 1,138 | 818 |
| Ngororero | 4,818 | 370 | - | 443 | - | ` | 34,059 | 8,036 | 7,248 | 29,923 | 8,495 | 378 | - | 457 | 2,012 | 1,617 | 2,080 | 7,267 |
| Rusizi | 10,782 | 13 | 7,243 | - | - | 15,855 | 13,098 | 780 | 9,402 | 27,648 | 7,959 | 126 | 266 | 1,049 | 6,824 | 732 | 220 | 8,807 |
| Nyamasheke | 8,408 | 72 | 1,906 | 15 | 98 | 27,110 | 15,429 | 580 | 6,073 | 18,531 | 6,537 | 108 | 129 | 894 | 3,762 | 292 | 1,320 | 3,507 |
| Rulindo | 6,385 | - | 65 | 45 | - | 8,780 | 29,283 | 5,536 | 371 | 22,334 | 6,542 | 308 | 25 | 182 | 11,820 | 2,018 | 3,350 | 23,820 |
| Gakenke | 18,428 | 74 | 209 | 78 | 375 | 13,565 | 51,056 | 6,418 | 8,611 | 68,007 | 6,844 | 428 | 68 | 397 | 3,333 | 2,361 | 3,053 | 2,280 |
| Musanze | 12,023 | 3,019 | - | 1,161 | 7 | 161 | 16,892 | 52,462 | 448 | 9,065 | 6,354 | 117 | - | 17 | 5,226 | 466 | 1,051 | 5,625 |
| Burera | 20,650 | 1,720 | - | 1,065 | 20 | 446 | 25,086 | 59,671 | 296 | 7,622 | 8,066 | 1,208 | - | - | 2,095 | 36 | 2,515 | - |
| Gicumbi | 6,369 | 119 | - | 115 | - | 8,083 | 63,080 | 26,028 | 401 | 18,296 | 16,318 | 1,026 | 175 | 79 | 4,948 | 702 | 11,509 | 24 |
| Rwamagana | 15,341 | - | 1,091 | - | 21 | 21,768 | 14,251 | 6,272 | 550 | 76,253 | 12,309 | 89 | 511 | 108 | 5,897 | 347 | 6,145 | 821 |
| Nyagatare | 47,679 | 25,232 | 6,453 | - | 155 | 19,277 | 8,195 | 3,458 | 29 | 76,142 | 14,835 | 166 | 836 | 418 | 3,572 | 277 | 118 | 7,528 |
| Gatsibo | 28,704 | 3,496 | 4,653 | - | 87 | 21,751 | 21,152 | 11,601 | 186 | 114,590 | 14,912 | 53 | 1,055 | 524 | 3,719 | 1,330 | 41 | 117 |
| Kayonza | 22,280 | 2,890 | 5,876 | 0 | 500 | 62,691 | 13,349 | 6,700 | 1,141 | 58,082 | 14,685 | 84 | 482 | 62 | 7,350 | 472 | 2,546 | 0 |
| Kirehe | 37,451 | 1,933 | 5,206 | - | 45 | 21,509 | 10,456 | 6,484 | 728 | 100,103 | 16,240 | 183 | 193 | 276 | 5,050 | 622 | 1,174 | 16 |
| Ngoma | 25,636 | 189 | 3,049 | - | 82 | 30,443 | 19,975 | 7,930 | 783 | 95,056 | 12,011 | 58 | 272 | 175 | 2,518 | 637 | 4,531 | 14 |
| Bugesera | 17,026 | 3,137 | 7,064 | - | 70 | 15,561 | 33,690 | 739 | 235 | 44,393 | 14,745 | 15 | 896 | 215 | 5,197 | 403 | 8,829 | 76 |
| National | 378,641 | 44,039 | 63,950 | 4,500 | 1,738 | 601,291 | 667,346 | 463,562 | 93,819 | 1,152,365 | 258,851 | 8,617 | 6,313 | 14,237 | 159,669 | 25,275 | 112,030 | 110,233 |

Table 25. Season B 2021_Crop production by crop type per district (MT)

| | Maize | Sorghum | Paddy rice | Wheat | Other Cereals | Cassava | Sweet potatoes | rish potatoes | Yams & Taro | Bananas | Beans | as | Ground nuts | Soya beans | Vegetables | Fruits | Fodder crops | Other crops |
|-----------------|---------|---------|------------|--------|---------------|---------|-------------------|---------------|-------------|---------|---------|-------|-------------|------------|------------|--------|--------------|-------------|
| District | | | Pa | ≶ | ₹ | | S D | | | Ba | Be | Peas | <u> </u> | တ္တ | | | | ₹ |
| Nyarugenge | 317 | 445 | - | - | - | 2,200 | 617 | 153 | 270 | 6,253 | 762 | 5 | 22 | 90 | 2,266 | 72 | 302 | 4,166 |
| Gasabo | 1,179 | 3,719 | 883 | - | - | 4,012 | 5,245 | 2,354 | 177 | 15,817 | 3,677 | 28 | 83 | 124 | 6,697 | 60 | 4,166 | 1,029 |
| Kicukiro | 541 | 932 | 172 | - | - | 1,214 | 4,122 | 182 | 372 | 5,523 | 1,097 | 6 | 31 | 152 | 728 | 40 | 1,029 | 1,390 |
| Nyanza | 2,352 | 4,669 | 2,035 | - | 58 | 24,382 | 20,313 | 1,118 | 1,975 | 9,859 | 7,613 | 18 | 352 | 424 | 4,487 | 455 | 1,390 | 884 |
| Gisagara | 2,370 | 3,636 | 11,248 | - | 140 | 44,084 | 12,599 | 435 | 732 | 16,899 | 8,307 | 22 | 317 | 861 | 3,512 | 2,205 | 884 | 5,366 |
| Nyaruguru | 875 | 2,321 | - | 442 | - | 20,764 | 32,234 | 11,234 | 3,737 | 6,413 | 4,109 | 235 | - | 467 | 3,222 | 316 | 5,366 | 521 |
| Huye | 920 | 5,536 | 3,676 | - | 156 | 15,990 | 21,280 | 1,545 | 1,995 | 9,324 | 4,916 | 56 | 157 | 765 | 2,206 | 13 | 521 | 6,370 |
| Nyamagabe | 1,017 | 3,217 | 63 | 1,997 | - | 13,944 | 46,093 | 18,117 | 2,777 | 10,026 | 4,089 | 1,581 | | 362 | 4,254 | 156 | 6,370 | 7,119 |
| Ruhango | 825 | 2,628 | 2,851 | - | 119 | 128,115 | 11,293 | 916 | 3,833 | 17,621 | 7,472 | 71 | 1,070 | 1,123 | 2,953 | 287 | 7,119 | 8,701 |
| Muhanga | 381 | 138 | 428 | 6 | - | 43,782 | 41,272 | 391 | 13,107 | 60,360 | 5,434 | 22 | 54 | 873 | 4,303 | 487 | 8,701 | 2,677 |
| Kamonyi | 1,480 | 4,314 | 595 | - | 7 | 24,270 | 18,925 | 1,448 | 9,216 | 42,313 | 6,786 | 86 | 212 | 1,062 | 9,085 | 3,838 | 2,677 | 4,847 |
| Karongi | 875 | 1,520 | - | 277 | - | 26,106 | 40,014 | 3,966 | 7,697 | 46,681 | 5,827 | 449 | 10 | 834 | 5,265 | 182 | 4,847 | 2,046 |
| Rutsiro | 2,724 | 45 | - | 205 | - | 13,542 | 21,559 | 16,010 | 9,042 | 33,493 | 4,058 | 387 | - | 430 | 1,940 | 3,464 | 2,046 | 205 |
| Rubavu | 3,240 | 777 | - | - - | - | 2,335 | 4,428 | 71,273 | 1,008 | 11,632 | 3,602 | 151 | - | 149 | 32,505 | 234 | 205 | 4,225 |
| Nyabihu | 5,244 | - | - | 1,280 | - | 609 | 16,199 | 84,219 | 329 | 2,546 | 1,927 | 136 | - | 15 | 15,759 | 346 | 4,225 | 3,715 |
| Ngororero | 2,938 | - | - | 1,245 | - | 3,941 | 46,830 | 5,349 | 7,301 | 37,446 | 2,853 | 293 | - | 251 | 2,718 | 9 | 3,715 | 132 |
| Rusizi | 1,660 | 50 | 7,880 | - | - | 74,377 | 17,325 | 565 | 4,484 | 15,837 | 6,912 | 132 | 108 | 387 | 1,581 | 642 | 132 | 550 |
| Nyamasheke | 636 | 16 | 1,533 | 32 | - | 42,266 | 28,601 | - | 6,406 | 15,220 | 3,887 | 144 | 331 | 782 | 3,417 | 1,122 | 550 | 2,002 |
| Rulindo | 1,122 | 4,323 | 40 | 62 | - | 16,956 | 22,962 | 5,326 | 1,003 | 31,120 | 8,418 | 119 | 23 | 93 | 4,237 | 535 | 2,002 | 1,057 |
| Gakenke | 1,562 | 611 | 111 | 690 | - | 19,630 | 82,959 | 6,447 | 9,386 | 69,141 | 11,431 | 102 | 18 | 463 | 3,965 | 1,565 | 1,057 | 2,801 |
| Musanze | 4,546 | 1,312 | - | 879 | - | - | 13,439 | 57,278 | 2,040 | 4,237 | 4,980 | 354 | - | 4 | 8,932 | 598 | 2,801 | 2,086 |
| Burera | 3,127 | 8,356 | - | 1,890 | - | 351 | 22,808 | 45,308 | 1,022 | 8,236 | 12,857 | 488 | - | - | 3,760 | 67 | 2,086 | 9,438 |
| Gicumbi | 2,195 | 18,903 | - | 178 | - | 7,839 | 41,602 | 23,255 | 1,081 | 24,769 | 10,477 | 878 | 179 | 24 | 3,878 | - | 9,438 | 7,039 |
| Rwamagana | 3,780 | 12,275 | 2,327 | - | - | 26,152 | 4,897 | 8,390 | 4,779 | 63,219 | 6,645 | 50 | 540 | 81 | 12,147 | 1,844 | 7,039 | 109 |
| Nyagatare | 26,215 | 6,972 | 6,781 | - | 12 | 32,451 | 6,950 | 3,195 | 628 | 65,959 | 26,095 | 43 | 2,242 | 705 | 7,761 | 486 | 109 | 167 |
| Gatsibo | 11,623 | 10,136 | 5,485 | - | 67 | 10,311 | 12,199 | 8,060 | 3,269 | 76,267 | 12,824 | 74 | 2,369 | 616 | 3,127 | 634 | 167 | 422 |
| Kayonza | 6,714 | 16,898 | 6,258 | - | 207 | 43,280 | 7,920 | 8,066 | 2,181 | 52,119 | 10,273 | 85 | 640 | 138 | 4,368 | 1,202 | 422 | - |
| Kirehe | 6,350 | 11,395 | 4,271 | 2 | 252 | 32,442 | 8,532 | 3,415 | 4,245 | 73,266 | 13,858 | 445 | 288 | 332 | 4,622 | 819 | - | 11,228 |
| Ngoma | 1,941 | 4,721 | 2,734 | - | 531 | 25,081 | 9,364 | 3,718 | 951 | 93,429 | 16,356 | 70 | 346 | 300 | 3,817 | 2,663 | 11,228 | 18,591 |
| Bugesera | 5,294 | 4,464 | 8,437 | - | 51 | 18,157 | 10,031 | 1,637 | 1,994 | 66,474 | 12,018 | 19 | 1,369 | 284 | 5,423 | 997 | 18,591 | 109,181 |
| National 2020 B | 104,041 | 134,331 | 67,808 | 9,184 | 1,600 | 718,584 | 632,614 | 393,371 | 107,037 | 991,501 | 229,559 | 6,549 | 10,763 | 12,194 | 172,936 | 25,340 | 109,181 | 93,438 |

Table 26. Season C 2021_Crop production by crop type per district (MT)

| District/Crop | Sweet potatoes | Irish potatoes | Bush bean | Climbing bean | Peas | Soya beans | Vegetables | Total |
|-----------------|----------------|----------------|-----------|---------------|------|------------|------------|---------|
| Nyarugenge | 39 | 104 | 123 | - | - | 66 | 2,212 | 2,544 |
| Gasabo | 501 | 12 | 7 | - | - | - | 4,370 | 4,890 |
| Kicukiro | 246 | - | 63 | - | - | - | 1,013 | 1,322 |
| Nyanza | 991 | 11 | 94 | 22 | 108 | 5 | 4,464 | 5,694 |
| Gisagara | 2,245 | 23 | 241 | - | 18 | 81 | 2,598 | 5,206 |
| Nyaruguru | 2,519 | 1,588 | 264 | 4 | 34 | - | 474 | 4,883 |
| Huye | 2,093 | 350 | 216 | 15 | 55 | - | 2,011 | 4,740 |
| Nyamagabe | 1,619 | 248 | 12 | - | 8 | - | 439 | 2,327 |
| Ruhango | 1,607 | - | 37 | - | 26 | 0 | 1,020 | 2,691 |
| Muhanga | 1,135 | 223 | 62 | 1 | 42 | 91 | 1,369 | 2,923 |
| Kamonyi | 492 | 80 | 519 | - | 27 | 47 | 3,827 | 4,992 |
| Karongi | 749 | 541 | 2 | - | - | 9 | 411 | 1,712 |
| Rutsiro | 425 | 213 | - | - | 4 | - | 56 | 698 |
| Rubavu | 340 | 9,801 | 1 | 100 | 15 | - | 1,656 | 11,914 |
| Nyabihu | 904 | 21,493 | 56 | 11 | 127 | - | 1,529 | 24,119 |
| Ngororero | 516 | 332 | 1 | - | - | 2 | 34 | 886 |
| Rusizi | 648 | 178 | 96 | - | - | - | 4,714 | 5,635 |
| Nyamasheke | 495 | - | - | - | - | - | 810 | 1,305 |
| Rulindo | 398 | 950 | 2 | - | 1 | _ | 655 | 2,006 |
| Gakenke | 1,365 | 1,391 | 34 | - | - | 117 | 752 | 3,660 |
| Musanze | 2,538 | 17,641 | 12 | 7 | - | _ | 3,289 | 23,486 |
| Burera | 2,096 | 22,255 | 16 | 7 | - | - | 550 | 24,924 |
| Gicumbi | 514 | 3,203 | _ | - | - | _ | 182 | 3,899 |
| Rwamagana | 282 | 64 | 202 | - | - | _ | 2,350 | 2,900 |
| Nyagatare | 1,237 | 27 | - | - | - | - | 7,383 | 8,647 |
| Gatsibo | 1,368 | 41 | 1 | - | - | _ | 1,356 | 2,766 |
| Kayonza | 269 | 397 | 21 | - | 0 | - | 2,950 | 3,637 |
| Kirehe | 338 | 164 | 22 | 1 | - | _ | 1,753 | 2,279 |
| Ngoma | 201 | 6 | 159 | - | 2 | - | 1,102 | 1,470 |
| Bugesera | 621 | 11 | 1,134 | - | 0 | 9 | 1,647 | 3,421 |
| National 2021 C | 28,790 | 81,348 | 3,398 | 168 | 469 | 426 | 56,979 | 171,577 |
| National 2020 C | 29,182 | 78,609 | 1,741 | 1,042 | 352 | 516 | 52,492 | 163,934 |

Table 27. Season A 2021_Use of crop production by farmers (%)

| | | | | | Dortor | | | | Doot | |
|------|--|---|--|--|---|---|---|--|---|--|
| | Our | Magaa for | Form | Offered | | | Foddor | | | Other |
| Cald | | | | | | Caada | | Chanad | | |
| 5010 | consumption | nirea iabor | rent | as girt | with other things | Seeas | purposes | Storea | iosses | usage |
| | | | | | | | | | | |
| | | | | | | | | | | 0.3 |
| | | | | | | | 0.0 | 1.1 | | 0.4 |
| | | | 0.2 | | 0.0 | | - | - | | 1.7 |
| | | 0.0 | - | 5.8 | - | 10.7 | 0.1 | 0.4 | 0.0 | 0.4 |
| 15.4 | 67.0 | 0.6 | 0.4 | 6.2 | <u>-</u> | 8.9 | | 0.4 | 0.1 | 0.8 |
| | | | | | | | | | | |
| 20.5 | 71.0 | 1.5 | 0.6 | 4.8 | 0.0 | 0.0 | 1.4 | 0.1 | 0.0 | 0.1 |
| 40.4 | 41.4 | 0.6 | 0.3 | 3.4 | 0.0 | 13.2 | 0.0 | 0.2 | 0.2 | 0.3 |
| 22.5 | 64.5 | 1.2 | 1.0 | 6.0 | 0.1 | 4.7 | - | - | - | 0.1 |
| 42.5 | 50.6 | 1.5 | 1.2 | 3.3 | 0.0 | 0.0 | 0.2 | 0.1 | 0.2 | 0.4 |
| | | | | | | | | | | |
| 18.9 | 56.5 | 1.6 | 2.0 | 3.9 | 0.1 | 13.5 | 0.0 | 3.0 | 0.3 | 0.2 |
| 12.9 | 64.2 | 0.9 | 0.6 | 5.2 | 0.1 | 14.1 | 0.0 | 1.8 | 0.1 | 0.2 |
| 24.8 | 56.4 | 0.1 | 0.0 | 3.6 | - | 14.4 | - | 0.5 | 0.1 | 0.0 |
| 18.3 | 56.3 | 0.6 | 1.2 | 3.1 | 0.0 | 20.1 | • | 0.3 | 0.0 | 0.1 |
| 15.6 | 60.4 | 0.2 | 0.9 | 3.1 | 0.3 | 18.0 | 0.2 | 1.0 | 0.1 | 0.0 |
| | | | | | | | | | | |
| 30.3 | 64.9 | 1.0 | 0.1 | 3.3 | - | 0.0 | 0.0 | - | 0.1 | 0.3 |
| 61.7 | 35.7 | 0.2 | 0.1 | 1.9 | 0.0 | 0.0 | 0.0 | - | 0.2 | 0.3 |
| 78.6 | 17.2 | 0.1 | 0.0 | 3.1 | 0.0 | - | 0.0 | - | 0.7 | 0.2 |
| | | | | | | | | | | |
| 77.0 | 16.1 | 0.1 | 0.3 | 3.3 | 0.0 | 1.1 | 0.0 | 0.1 | 0.9 | 1.0 |
| 71.7 | 23.7 | - | - | 3.3 | - | 0.0 | 0.0 | - | 0.2 | 1.1 |
| 3.5 | - | 1.3 | - | 0.6 | 0.0 | 0.0 | 91.7 | 2.6 | 0.0 | 0.4 |
| | 20.5 40.4 22.5 42.5 18.9 12.9 24.8 18.3 15.6 30.3 61.7 78.6 | 34.6 54.2 56.4 30.9 79.3 16.0 44.2 38.4 15.4 67.0 20.5 71.0 40.4 41.4 22.5 64.5 42.5 50.6 18.9 56.5 12.9 64.2 24.8 56.4 18.3 56.3 15.6 60.4 30.3 64.9 61.7 35.7 78.6 17.2 77.0 16.1 71.7 23.7 | Sold consumption hired labor 34.6 54.2 1.0 56.4 30.9 1.5 79.3 16.0 1.2 44.2 38.4 0.0 15.4 67.0 0.6 20.5 71.0 1.5 40.4 41.4 0.6 22.5 64.5 1.2 42.5 50.6 1.5 18.9 56.5 1.6 12.9 64.2 0.9 24.8 56.4 0.1 18.3 56.3 0.6 15.6 60.4 0.2 30.3 64.9 1.0 61.7 35.7 0.2 78.6 17.2 0.1 77.0 16.1 0.1 71.7 23.7 - | Sold consumption hired labor rent 34.6 54.2 1.0 1.6 56.4 30.9 1.5 2.9 79.3 16.0 1.2 0.2 44.2 38.4 0.0 - 15.4 67.0 0.6 0.4 20.5 71.0 1.5 0.6 40.4 41.4 0.6 0.3 22.5 64.5 1.2 1.0 42.5 50.6 1.5 1.2 18.9 56.5 1.6 2.0 12.9 64.2 0.9 0.6 24.8 56.4 0.1 0.0 18.3 56.3 0.6 1.2 15.6 60.4 0.2 0.9 30.3 64.9 1.0 0.1 61.7 35.7 0.2 0.1 78.6 17.2 0.1 0.0 77.0 16.1 0.1 0.3 71.7 | Sold consumption hired labor rent as gift 34.6 54.2 1.0 1.6 5.4 56.4 30.9 1.5 2.9 4.2 79.3 16.0 1.2 0.2 0.3 44.2 38.4 0.0 - 5.8 15.4 67.0 0.6 0.4 6.2 20.5 71.0 1.5 0.6 4.8 40.4 41.4 0.6 0.3 3.4 22.5 64.5 1.2 1.0 6.0 42.5 50.6 1.5 1.2 3.3 18.9 56.5 1.6 2.0 3.9 12.9 64.2 0.9 0.6 5.2 24.8 56.4 0.1 0.0 3.6 18.3 56.3 0.6 1.2 3.1 15.6 60.4 0.2 0.9 3.1 30.3 64.9 1.0 0.1 3.3 | Sold consumption hired labor rent as gift with other things 34.6 54.2 1.0 1.6 5.4 0.0 56.4 30.9 1.5 2.9 4.2 0.0 79.3 16.0 1.2 0.2 0.3 0.0 44.2 38.4 0.0 - 5.8 - 15.4 67.0 0.6 0.4 6.2 - 20.5 71.0 1.5 0.6 4.8 0.0 40.4 41.4 0.6 0.3 3.4 0.0 22.5 64.5 1.2 1.0 6.0 0.1 42.5 50.6 1.5 1.2 3.3 0.0 18.9 56.5 1.6 2.0 3.9 0.1 12.9 64.2 0.9 0.6 5.2 0.1 24.8 56.4 0.1 0.0 3.6 - 18.3 56.3 0.6 1.2 | Sold Own consumption Wages for hired labor Farm rent Offered as gift trade/Exchanged with other things Seeds 34.6 54.2 1.0 1.6 5.4 0.0 0.9 56.4 30.9 1.5 2.9 4.2 0.0 2.4 79.3 16.0 1.2 0.2 0.3 0.0 0.7 44.2 38.4 0.0 - 5.8 - 10.7 15.4 67.0 0.6 0.4 6.2 - 8.9 20.5 71.0 1.5 0.6 4.8 0.0 0.0 40.4 41.4 0.6 0.3 3.4 0.0 13.2 22.5 64.5 1.2 1.0 6.0 0.1 4.7 42.5 50.6 1.5 1.2 3.3 0.0 0.0 18.9 56.5 1.6 2.0 3.9 0.1 13.5 12.9 64.2 0.9 0.6 5.2 | Sold Own consumption Wages for hired labor Farm rent Offered as gift trade/Exchanged with other things Seeds Fodder purposes 34.6 54.2 1.0 1.6 5.4 0.0 0.9 0.2 56.4 30.9 1.5 2.9 4.2 0.0 2.4 0.0 79.3 16.0 1.2 0.2 0.3 0.0 0.7 - 44.2 38.4 0.0 - 5.8 - 10.7 0.1 15.4 67.0 0.6 0.4 6.2 - 8.9 - 20.5 71.0 1.5 0.6 4.8 0.0 0.0 1.4 40.4 41.4 0.6 0.3 3.4 0.0 13.2 0.0 22.5 64.5 1.2 1.0 6.0 0.1 4.7 - 42.5 50.6 1.5 1.2 3.3 0.0 0.0 0.2 18.9 56.5 1.6 | Sold Own consumption Wages for hired labor Farm rent Offered as gift trade/Exchanged with other things Seeds Fodder purposes Stored 34.6 54.2 1.0 1.6 5.4 0.0 0.9 0.2 1.7 56.4 30.9 1.5 2.9 4.2 0.0 2.4 0.0 1.1 79.3 16.0 1.2 0.2 0.3 0.0 0.7 - - - 44.2 38.4 0.0 - 5.8 - 10.7 0.1 0.4 15.4 67.0 0.6 0.4 6.2 - 8.9 - 0.4 20.5 71.0 1.5 0.6 4.8 0.0 0.0 1.4 0.1 40.4 41.4 0.6 0.3 3.4 0.0 13.2 0.0 0.2 22.5 64.5 1.2 1.0 6.0 0.1 4.7 - - - 42.5 50.6 | Sold Own consumption Wages for hired labor Farm rent Offered as gift trade/Exchanged with other things Seeds Fodder purposes Stored harvesting losses 34.6 54.2 1.0 1.6 5.4 0.0 0.9 0.2 1.7 0.1 56.4 30.9 1.5 2.9 4.2 0.0 2.4 0.0 1.1 0.2 79.3 16.0 1.2 0.2 0.3 0.0 0.7 - - 0.6 44.2 38.4 0.0 - 5.8 - 10.7 0.1 0.4 0.0 15.4 67.0 0.6 0.4 6.2 - 8.9 - 0.4 0.1 20.5 71.0 1.5 0.6 4.8 0.0 0.0 1.4 0.1 0.0 40.4 41.4 0.6 0.3 3.4 0.0 0.0 1.4 0.1 0.0 22.5 64.5 1.2 1.0 |

Table 28. Season B 2021_Use of crop production by farmers (%)

| | | | Wages | | | Barter trade / | | | | Post | |
|-----------------------|------|-------------|-----------|------|---------|----------------------|-------|----------|--------|------------|-------|
| | | Own | for hired | Farm | Offered | Exchanged with other | | Fodder | | harvesting | Other |
| Crops | Sold | consumption | labor | rent | as gift | things | Seeds | purposes | Stored | losses | usage |
| Cereals | | | | | | | | | | | |
| Maize | 25.6 | 63.8 | 0.9 | 1.8 | 5.3 | 0.0 | 0.6 | 0.4 | 1.5 | 0.0 | 0.1 |
| Sorghum | 44.4 | 41.6 | 0.9 | 2.2 | 5.5 | 0.1 | 3.4 | 0.0 | 1.5 | 0.1 | 0.3 |
| Paddy rice | 79.5 | 13.6 | 0.9 | 0.1 | 0.0 | - | 0.4 | 0.0 | - | 0.8 | 4.6 |
| Wheat | 43.0 | 41.4 | - | 0.2 | 7.0 | - | 8.0 | 0.0 | 0.2 | 0.1 | 0.0 |
| Other cereals | 17.2 | 72.4 | 0.3 | 1.2 | 2.9 | 0.6 | 4.0 | - | 1.3 | 0.1 | 0.0 |
| Tubers and Roots | | | | | | | | | | | |
| Sweet potato | 24.3 | 65.8 | 1.6 | 0.7 | 4.8 | 0.1 | 0.0 | 2.5 | 0.1 | 0.0 | 0.1 |
| Irish potato | 40.2 | 39.6 | 0.4 | 0.4 | 3.5 | 0.0 | 15.4 | _ | 0.1 | 0.3 | 0.1 |
| Yam & Taro | 27.4 | 65.5 | 0.3 | 0.9 | 4.0 | - | 1.9 | _ | - | 0.0 | 0.0 |
| Cassava | 42.0 | 50.6 | 1.3 | 1.6 | 4.0 | 0.0 | - | 0.2 | 0.1 | 0.1 | 0.1 |
| Legumes and Pulses | | | | | | | | | | | |
| Bush bean | 21.7 | 54.3 | 1.6 | 2.8 | 4.0 | 0.1 | 13.1 | 0.0 | 2.1 | 0.1 | 0.1 |
| Climbing bean | 15.0 | 60.6 | 0.9 | 0.6 | 6.0 | 0.1 | 15.0 | 0.0 | 1.6 | 0.1 | 0.1 |
| Pea | 31.3 | 51.4 | 0.1 | 0.2 | 2.7 | 0.0 | 14.2 | _ | 0.1 | 0.1 | 0.0 |
| Groundnut | 34.7 | 42.7 | 0.5 | 1.0 | 3.5 | - | 15.8 | _ | 1.6 | 0.0 | 0.2 |
| Soybean | 19.5 | 57.9 | 0.3 | 0.5 | 3.2 | 0.1 | 17.8 | 0.2 | 0.3 | 0.1 | 0.1 |
| Banana | | | | | | | | | | | |
| Cooking banana | 38.1 | 56.6 | 0.9 | 0.1 | 4.0 | 0.0 | - | 0.0 | - | 0.0 | 0.2 |
| Dessert banana | 64.4 | 32.7 | 0.2 | 0.1 | 1.9 | 0.0 | - | 0.0 | - | 0.2 | 0.5 |
| Banana for beer | 79.9 | 15.2 | 0.1 | 0.2 | 3.7 | 0.0 | 0.0 | 0.0 | - | 0.7 | 0.3 |
| Vegetables and fruits | | | | | | | | | | | |
| Vegetables | 76.9 | 18.7 | 0.5 | 0.0 | 2.9 | - | 0.3 | 0.1 | - | 0.6 | 0.1 |
| Fruits | 80.9 | 15.5 | - | - | 2.7 | - | 0.0 | 0.0 | - | 0.0 | 0.8 |
| Fodder crops | 4.0 | - | 3.1 | - | 0.9 | - | 0.0 | 88.9 | 0.1 | 0.0 | 3.0 |

Table 29. Season C 2021_ Use of crop production by farmers (%)

| | | | Wages for | | | Barter trade / | | | | Post | |
|-----------------------|-------|-------------|-----------|------|---------|----------------|-------|----------|--------|------------|-------|
| | | Auto | hired | Farm | Offered | Exchanged with | | Fodder | | harvesting | Other |
| Crop Category | Sold | consumption | labour | rent | as gift | other things | Seeds | purposes | Stored | losses | usage |
| Tubers and Roots | | | | | | | | | | | |
| Sweet potato | 31.7 | 57.6 | 1.3 | 0.9 | 5.6 | 0.0 | - | 2.5 | 0.1 | 0.2 | 0.1 |
| Irish potato | 51.5 | 31.9 | 0.6 | 0.2 | 5.1 | 0.0 | 10.1 | 0.0 | 0.2 | 0.2 | 0.1 |
| Legumes and Pulses | - | - | - | - | - | - | - | - | - | - | - |
| Bush bean | 16.6 | 65.1 | 0.5 | 0.5 | 3.9 | 0.1 | 12.3 | - | 0.9 | 0.0 | - |
| Climbing bean | 16.0 | 65.8 | 3.2 | - | 3.9 | - | 11.1 | - | - | - | - |
| Pea | 62.2 | 31.7 | - | - | 2.1 | - | 4.0 | - | - | 0.0 | - |
| Groundnut | - | - | - | - | - | - | - | - | - | - | - |
| Soybean | 24.6 | 51.4 | 1.0 | - | 8.6 | 0.4 | 12.6 | 0.3 | 0.5 | 0.5 | 0.0 |
| Vegetables and fruits | - | - | - | - | - | - | - | - | - | - | - |
| Vegetables | 77.3 | 17.1 | 0.0 | 0.2 | 3.9 | 0.0 | 0.5 | 0.1 | - | 0.6 | 0.3 |
| Fruits | - | - | - | - | - | - | - | - | - | - | - |
| Other crops | 100.0 | - | - | - | - | - | - | - | - | - | |

Table 30. Sowing date per Season and District in 2021 (%)

| | | | | Seaso | on A 20 |)21 | | | | 1 (70) | | | Seaso | on B 202 | 21 | | | | | S | eason | C 2021 | |
|-----------------------|--------------|----------------------|----------------------|----------------------|--------------------|------------|----------------------------------|----------------|--------------|----------------------|--------------------|----------------------|-----------------|----------------|---------------------|-------------|-----------------------------------|----------------|--------------|----------------------|----------------------|----------------------|---------------------|
| | 3efore 01/09 | Between 01- 15/09 | Between 16- 30/09 | Between 01- 15/10 | etween 16- 1/10 | . 31/10 | Other seasons or perennial srops | | Before 01/01 | Between 01- 15/01 | etween 16- 1/01 | Between 01- 15/02 | en 16- | en 01- | Between16- 31/03 | After 31/03 | Other seasons for perennial crops | le. | Before 01/05 | Between 01- 31/05 | Between 01- 30/06 | Between 01- 31/07 | чпег 31/07 Total |
| District | 3efo | 3etwe 15/09 | Betwe 30/09 | 3etwe 15/10 | Betwe 31/10 | After | Other for per crops | Total | 3efo | 3etw 15/0 | Betwe 31/01 | 3etwe 15/02 | Betwee 28/02 | Betwe 15/03 | 3etw 31/0; | √ffer | Other for per crops | Total | 3efo | 3etw 31/0 | Betwe 30/06 | Betwe 31/07 | Total |
| Nyarugenge | 11.1 | 2.8 | 14.4 | 30.6 | 13.0 | 7.6 | 20.5 | 100.0 | 3.3 | 6.5 | 2.1 | 20.0 | 18.3 | 6.7 | 1.7 | 0.3 | 41.2 | 100.0 | 6.1 | 22.7 | 51.5 | | .5 100.0 |
| Gasabo | 14.8 | 5.9 | 25.4 | 25.1 | 8.1 | 6.6 | 14.2 | 100.0 | 23.2 | 10.6 | 3.9 | 17.4 | 15.8 | 9.1 | 3.4 | 3.1 | 13.6 | 100.0 | 7.1 | 35.4 | 27.4 | 23.0 7 | .1 100.0 |
| Kicukiro | 19.2 | 0.7 | 13.0 | 35.6 | 13.4 | 7.1 | 10.9 | 100.0 | 5.6 | 8.0 | 2.3 | 9.8 | 19.7 | 12.7 | 4.7 | 1.6 | 35.6 | 100.0 | 8.1 | 16.2 | 62.2 | 13.5 0 | .0 100.0 |
| Nyanza | 2.9 | 4.0 | 10.8 | 37.9 | 12.6 | 7.1 | 24.8 | 100.0 | 2.9 | 6.3 | 4.0 | 22.4 | 19.6 | 9.1 | 2.3 | 2.4 | 31.0 | 100.0 | 3.8 | 22.2 | 44.9 | 28.5 0 | .6 100.0 |
| Gisagara | 15.0 | 5.1 | 13.0 | 35.1 | 13.9 | 6.5 | 11.5 | 100.0 | 9.5 | 7.0 | 3.6 | 21.6 | 17.7 | 8.4 | 2.4 | 2.5 | 27.4 | 100.0 | 4.8 | 18.6 | 37.1 | 35.5 4 | .0 100.0 |
| Nyaruguru | 20.2 | 11.0 | 19.2 | 24.8 | 9.1 | 6.0 | 9.8 | 100.0 | 16.0 | 10.2 | 3.5 | 11.1 | 11.4 | 13.6 | 8.2 | 6.8 | 19.3 | 100.0 | 2.2 | 8.2 | 41.8 | 42.5 5 | .2 100.0 |
| Huye | 7.0 | 11.4 | 13.5 | 26.9 | 11.0 | 7.9 | 22.4 | 100.0 | 2.6 | 5.8 | 7.8 | 21.7 | 19.7 | 4.6 | 1.5 | 1.4 | 35.0 | 100.0 | 18.8 | 22.9 | 29.2 | | .7 100.0 |
| Nyamagabe | 10.3 | 17.3 | 16.5 | 25.5 | 8.2 | 8.7 | 13.4 | 100.0 | 6.2 | 9.2 | 5.6 | 10.1 | 16.0 | 17.3 | 8.8 | 6.4 | 20.5 | 100.0 | 0.9 | 28.3 | 44.3 | | .8 100.0 |
| Ruhango | 10.9 | 8.8 | 11.1 | 37.3 | 8.5 | 5.1 | 18.2 | 100.0 | 15.4 | 7.6 | 9.7 | 31.5 | 9.5 | 4.7 | 0.6 | 0.6 | 20.4 | 100.0 | 5.2 | 12.9 | 49.1 | | .6 100.0 |
| Muhanga | 5.1 | 6.0 | 9.9 | 20.6 | | 11.9 | 36.7 | 100.0 | 4.5 | 4.2 | 2.0 | 9.3 | 15.9 | 9.9 | 2.9 | 2.1 | 49.3 | 100.0 | 1.1 | 31.5 | 42.7 | | .7 100.0 |
| Kamonyi | 2.3 | 4.3 | 8.5 | 37.5 | 11.7 | 8.0 | 27.6 | 100.0 | 26.2 | 5.6 | 3.9 | 26.7 | 12.4 | 4.3 | 1.4 | 4.0 | 15.5 | 100.0 | 4.7 | 27.1 | 28.2 | | .7 100.0 |
| Karongi | 17.6 | 24.7 | 23.9 | 11.5 | 4.1 | 6.4 | 11.9 | 100.0 | 12.5 | 1.7 | 3.0 | 6.2 | 23.7 | 15.2 | 7.0 | 6.3 | 24.4 | 100.0 | 0.0 | 35.3 | 44.7 | | .0 100.0 |
| Rutsiro | 26.2 | 22.5 | 15.2 | 8.1 | 2.7 | 8.3 | 17.0 | 100.0 | 4.0 | 0.9 | 2.6 | 10.1 | 16.0 | 14.3 | 6.3 | 6.6 | 39.3 | 100.0 | 2.0 | 38.0 | 20.0 | | .0 100.0 |
| Rubavu | 37.7 | 31.5 | 9.8 | 8.9 | 3.2 | 3.3 | 5.7 | 100.0 | 24.1 | 3.4 | 6.1 | 18.8 | 18.8 | 12.3 | 10.1 | 5.7 | 0.7 | 100.0 | 0.0 6.1 | 6.6 | 14.0 | | .9 100.0 |
| Nyabihu | 35.5 | 14.5 17.6 | 17.6 18.8 | 16.9 15.9 | 3.1 3.7 | 6.4 9.3 | 6.0 18.8 | 100.0 100.0 | 8.7 13.1 | 5.7 2.4 | 5.1 1.6 | 11.0 16.6 | 20.3 26.7 | 18.9 8.0 | 14.0 4.2 | 8.1 7.0 | 8.2 | 100.0 100.0 | 1.5 | 42.1 21.7 | 48.2 55.1 | | .0 100.0 |
| Ngororero | 15.8 4.7 | 16.4 | 23.7 | 37.3 | 3. <i>1</i> 4.4 | 2.1 | 11.4 | 100.0 | 2.3 | 2.4 | 0.7 | 11.0 | 14.2 | 17.8 | 4.2 1.4 | 1.5 | 20.5 49.1 | 100.0 | 45.4 | 24.4 | 19.3 | | .7 100.0 |
| Rusizi | 12.0 | 18.0 | 26.1 | 20.4 | 3.5 | 4.4 | 15.6 | 100.0 | 37.9 | 2.0 | 1.4 | 7.2 | 17.5 | 15.1 | 2.7 | 2.2 | 13.9 | 100.0 | 10.3 | 35.7 | 37.3 | | .4 100.0 |
| Nyamasheke Rulindo | 6.6 | 15.3 | 25.4 | 11.5 | 4.5 | 4.4 | 32.2 | 100.0 | 18.4 | 6.6 | 7.8 | 8.2 | 7.1 | 15.1 | 9.6 | 4.5 | 22.6 | 100.0 | 0.0 | 47.9 | 32.4 | | 6.6 100.0 |
| Gakenke | 18.1 | 12.6 | 24.7 | 12.7 | 3.3 | 5.6 | 23.0 | 100.0 | 15.7 | 4.0 | 3.6 | 7.5 | 8.9 | 13.7 | 8.5 | 7.5 | 30.7 | 100.0 | 2.7 | 35.7 | 44.3 | | .0 100.0 |
| Musanze | 31.8 | 30.5 | 11.7 | 7.9 | 2.5 | 7.7 | 8.1 | 100.0 | 6.2 | 4.8 | 4.4 | 8.6 | 10.5 | 21.2 | 19.4 | 14.9 | 10.0 | 100.0 | 0.6 | 22.6 | 31.5 | | .9 100.0 |
| Burera | 20.1 | 28.9 | 27.0 | 8.4 | 4.0 | 5.0 | 6.7 | 100.0 | 4.0 | 9.0 | 6.7 | 11.4 | 10.5 | 19.2 | 21.3 | 11.1 | 6.8 | 100.0 | 4.0 | 30.1 | 42.1 | | .0 100.0 |
| Gicumbi | 17.2 | 15.5 | 24.3 | 16.2 | 7.6 | 6.7 | 12.5 | 100.0 | 9.2 | 8.2 | 10.0 | 12.1 | 8.3 | 16.2 | 12.1 | 7.8 | 16.2 | 100.0 | 11.2 | 61.2 | 21.4 | | .0 100.0 |
| Rwamagana | 19.7 | 8.1 | 18.5 | 21.9 | 11.1 | 4.1 | 16.8 | 100.0 | 17.9 | 9.3 | 5.0 | 9.4 | 15.1 | 12.8 | 2.0 | 1.4 | 27.1 | 100.0 | 2.4 | 18.9 | 35.4 | 43.3 0 | .0 100.0 |
| Nyagatare | 18.5 | 34.9 | 25.9 | 8.0 | 1.6 | 1.4 | 9.6 | 100.0 | 7.3 | 2.1 | 1.5 | 10.2 | 21.5 | 30.0 | 5.8 | 1.9 | 19.8 | 100.0 | 5.2 | 40.3 | 37.7 | 15.6 1 | .3 100.0 |
| Gatsibo | 16.2 | 16.5 | 23.9 | 19.4 | 5.8 | 2.4 | 15.8 | 100.0 | 23.6 | 4.5 | 2.8 | 14.7 | 17.1 | 15.1 | 4.1 | 1.1 | 17.1 | 100.0 | 0.0 | 36.4 | 34.1 | 27.3 2 | .3 100.0 |
| Kayonza | 5.8 | 8.7 | 23.1 | 26.2 | 8.1 | 4.2 | 23.9 | 100.0 | 7.7 | 7.1 | 3.1 | 4.1 | 12.1 | 26.5 | 12.7 | 1.8 | 24.9 | 100.0 | 16.7 | 34.3 | 25.5 | 16.7 6 | .9 100.0 |
| Kirehe | 9.4 | 2.1 | 10.6 | 39.5 | 11.3 | 4.4 | 22.7 | 100.0 | 14.1 | 8.5 | 2.5 | 9.6 | 18.8 | 17.0 | 1.6 | 8.0 | 27.1 | 100.0 | 14.8 | 27.9 | 31.2 | | .6 100.0 |
| Ngoma | 24.6 | 10.8 | 21.4 | 26.0 | 5.0 | 2.1 | 10.2 | 100.0 | 2.8 | 6.6 | 2.8 | 6.1 | 13.8 | 15.1 | 4.9 | 0.4 | 47.4 | | 31.2 | 23.7 | 29.0 | | .2 100.0 |
| Bugesera | 6.3 | 5.3 | 8.6 | 36.7 | 15.9 | 7.5 | 19.7 | 100.0 | 4.0 | 8.0 | 1.8 | 6.2 | 13.3 | 32.1 | 7.6 | 2.6 | 24.4 | 100.0 | 0.0 | 12.4 | 33.0 | | .0 100.0 |
| National | 14.3 | 13.0 | 17.9 | 24.1 | 7.8 | 5.7 | 17.3 | 100.0 | 4.7 | 6.3 | 3.3 | 11.7 | 12.7 | 14.3 | 5.5 | 5.3 | 36.3 | 100.0 | 7.1 | 27.7 | 36.4 | 26.7 2 | .2 100.0 |

Table 31. Sowing dates per Season and crop type in 2021 (%)

| | | | S | eason | | 1 | | | | | | , | Seasor | n B 202 | 21 | | | | | (| Seasor | n C 202 | 1 | |
|-----------------------|--------------|------------------|------------------|------------------|------------------|-------------|-----------------------------------|------------|--------------|------------------|------------------|------------------|------------------|-------------------|-----------------|-------------|-----------------------------------|------------|--------------|-------------------|-------------------|------------------|-------------|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Crops | Before 01/09 | Between 01-15/09 | Between 16-30/09 | Between 01-15/10 | Between 16-31/10 | After 31/10 | Other seasons for perennial crops | Total | Before 01/01 | Between 01-15/01 | Between 16-31/01 | Between 01-15/02 | Between 16-28/02 | Between 01- 15/03 | Between16-31/03 | After 31/03 | Other seasons for perennial crops | Total | Before 01/05 | Between 01- 31/05 | Between 01- 30/06 | Between 01-31/07 | After 31/07 | Total |
| Fruits | 42.1 | 3.8 | 3.1 | 4.5 | 2.4 | 7.9 | 36.3 | 100 | 50.8 | 2.5 | 0.4 | 1.7 | 3.3 | 3.3 | 1.7 | 5.4 | 30.8 | 100 | 0.0 | 0.0 | 12.5 | 75.0 | 12.5 | 100 |
| Vegetables | 19.3 | 13.0 | 12.0 | 19.0 | 11.6 | 25.2 | 0.0 | 100 | 11.1 | 9.7 | 5.6 | 18.2 | 11.4 | 14.3 | 10.8 | 18.8 | 0.0 | 100 | | 31.7 | 30.1 | 19.5 | 3.6 | 100 |
| Other crops | 66.3 | 3.6 | 2.5 | 4.1 | 2.5 | 4.9 | 16.2 | 100 | 42.7 | 0.6 | 0.1 | 0.9 | 1.1 | 2.9 | 0.9 | 2.6 | 48.3 | 100 | 50.0 | 0.0 | 50.0 | 0.0 | 0.0 | 100 |
| Other cereals | 0.6 | 16.2 | 22.8 | 43.7 | 13.2 | 3.6 | 0.0 | 100 | 0.0 | 2.5 | 2.5 | 32.3 | 28.5 | 26.6 | 7.6 | 0.0 | 0.0 | 100 | - | | - | | - | |
| Taro & Yams | 17.0 | 23.5 | 18.5 | 18.5 | 5.8 | 16.4 | 0.3 | 100 | 42.3 | 16.8 | 5.7 | 12.4 | 5.9 | 6.4 | 2.2 | 6.9 | 1.2 | 100 | - | | - | | - | |
| Fodder crops Maize | 81.1 4.8 | 6.6 18.9 | 1.8 27.3 | 3.1 36.1 | 2.6 10.1 | 4.9 2.9 | 0.0 0.0 | 100 100 | 81.9 0.5 | 0.8 2.1 | 1.3 4.6 | 3.8 24.4 | 2.5 34.9 | 3.0 26.1 | 2.1 5.8 | 4.6 1.6 | 0.0 | 100 100 | - | | - | | - | |
| Paddy rice | 86.2 | 9.6 | 1.6 | 1.1 | 0.5 | 1.1 | 0.0 | 100 | 13.4 | 27.9 | 11.4 | 28.9 | 11.4 | 3.5 | 1.0 | 2.5 | 0.0 | 100 | - | | - | | - | |
| Sorghum | 28.5 | 30.6 | 21.6 | 13.9 | 4.8 | 0.6 | 0.0 | 100 | 3.8 | 48.6 | 25.1 | 17.4 | 4.4 | 0.6 | 0.2 | 0.1 | 0.0 | 100 | _ | | _ | | _ | |
| Wheat | 6.5 | 7.6 | 14.1 | 34.8 | 16.3 | 20.7 | 0.0 | 100 | 0.4 | 0.9 | 0.4 | 4.3 | 6.0 | 14.9 | 35.3 | 37.9 | 0.0 | 100 | _ | | _ | | _ | |
| Bush bean | 0.8 | 10.8 | 25.0 | 46.4 | 14.7 | 2.3 | 0.0 | 100 | 0.0 | 0.3 | 1.3 | 23.5 | 31.5 | 34.4 | 8.1 | 1.0 | 0.0 | 100 | 0.3 | 6.1 | 28.7 | 60.5 | 4.4 | 100 |
| Climbing bean | 5.5 | 26.8 | 34.5 | 26.4 | 6.1 | 0.7 | 0.0 | 100 | 0.0 | 0.5 | 1.8 | 18.9 | 31.4 | 30.4 | 14.6 | 2.4 | 0.0 | 100 | 6.7 | 13.3 | 13.3 | 60.0 | 6.7 | 100 |
| Pea | 8.6 | 20.7 | 31.8 | 22.4 | 10.0 | 6.5 | 0.0 | 100 | 0.6 | 1.4 | 1.6 | 10.4 | 18.1 | 34.0 | 20.4 | 13.6 | 0.0 | 100 | 2.0 | 12.3 | 52.0 | 32.5 | 1.3 | 100 |
| Irish potato | 13.9 | 20.1 | 21.5 | 23.1 | 9.3 | 12.1 | 0.0 | 100 | 1.1 | 2.6 | 3.9 | 11.6 | 18.7 | 26.3 | 19.5 | 16.3 | 0.0 | 100 | 2.9 | 32.4 | 36.9 | 26.6 | 1.2 | 100 |
| Sweet potato | 16.8 | 8.8 | 8.4 | 16.3 | 12.1 | 37.6 | 0.0 | 100 | 9.0 | 13.2 | 8.1 | 16.2 | 14.6 | 14.7 | 8.2 | 16.1 | 0.0 | 100 | 6.0 | 36.1 | 43.3 | 14.3 | 0.3 | 100 |
| Soybean | 0.9 | 11.8 | 21.7 | 43.3 | 16.6 | 5.8 | 0.0 | 100 | 0.0 | 1.5 | 4.0 | 31.2 | 33.8 | 22.9 | 5.4 | 1.3 | 0.0 | 100 | 0.0 | 3.6 | 68.8 | 27.7 | 0.0 | 100 |
| Groundnut | 0.5 | 15.5 | 29.3 | 39.7 | 12.3 | 2.8 | 0.0 | 100 | 0.0 | 1.7 | 4.4 | 34.8 | 32.2 | 23.6 | 2.9 | 0.5 | 0.0 | 100 | - | | - | | - | - |
| Cooking banana | 34.2 | 0.7 | 0.6 | 0.6 | 0.2 | 0.5 | 63.3 | 100 | 33.1 | 0.1 | 0.0 | 0.2 | 0.0 | 0.3 | 0.1 | 0.3 | 65.9 | 100 | - | | - | | - | - |
| Dessert banana | 30.9 | 0.8 | 0.4 | 0.6 | 0.2 | 0.6 | 66.5 | 100 | 31.6 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 | 0.3 | 67.6 | 100 | - | | - | | - | - |
| Banana for beer | 28.1 | 0.7 | 0.5 | 0.3 | 0.1 | 0.6 | 69.8 | 100 | 30.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 69.1 | 100 | - | | - | | - | - |
| Cassava | 12.8 | 15.9 | 17.4 | 23.4 | 6.0 | 6.2 | 18.4 | 100 | 21.9 | 3.5 | 2.9 | 6.1 | 4.6 | 3.4 | 1.2 | 2.3 | 54.1 | 100 | | | - | | - | |
| National | 14.3 | 13.0 | 17.9 | 24.1 | 7.8 | 5.7 | 17.3 | 100 | 50.8 | 2.5 | 0.4 | 1.7 | 3.3 | 3.3 | 1.7 | 5.4 | 30.8 | 100 | 5.6 | 33.9 | 38.3 | 21.8 | 0.4 | 100 |

Table 32. Cultivated area by cropping system, per season and district (%) in 2021

| | | Pure | | | Mixed | |
|---------------------|----------|----------|----------|----------|----------|----------|
| District | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | 14.9 | 15.8 | 18.0 | 85.1 | 84.2 | 82.0 |
| Gasabo | 20.8 | 28.4 | 54.7 | 79.2 | 71.6 | 45.3 |
| Kicukiro | 26.6 | 20.5 | 31.2 | 73.4 | 79.5 | 68.8 |
| Nyanza | 24.7 | 26.1 | 53.2 | 75.3 | 73.9 | 46.8 |
| Gisagara | 25.2 | 35.0 | 37.4 | 74.8 | 65.0 | 62.6 |
| Nyaruguru | 38.3 | 42.0 | 64.6 | 61.7 | 58.0 | 35.4 |
| Huye | 19.8 | 25.2 | 40.9 | 80.2 | 74.8 | 59.1 |
| Nyamagabe | 33.3 | 37.0 | 77.6 | 66.7 | 63.0 | 22.4 |
| Ruhango | 31.6 | 31.4 | 51.2 | 68.4 | 68.6 | 48.8 |
| Muhanga | 27.0 | 30.2 | 21.4 | 73.0 | 69.8 | 78.6 |
| Kamonyi | 28.4 | 22.1 | 33.0 | 71.6 | 77.9 | 67.0 |
| Karongi | 32.2 | 48.9 | 58.0 | 67.8 | 51.1 | 42.0 |
| Rutsiro | 38.1 | 41.6 | 53.1 | 61.9 | 58.4 | 46.9 |
| Rubavu | 54.3 | 53.8 | 76.2 | 45.7 | 46.2 | 23.8 |
| Nyabihu | 49.0 | 61.7 | 86.4 | 51.0 | 38.3 | 13.6 |
| Ngororero | 25.4 | 36.1 | 62.2 | 74.6 | 63.9 | 37.8 |
| Rusizi | 19.1 | 36.2 | 21.5 | 80.9 | 63.8 | 78.5 |
| Nyamasheke | 30.6 | 46.7 | 53.2 | 69.4 | 53.3 | 46.8 |
| Rulindo | 31.0 | 28.1 | 80.8 | 69.0 | 71.9 | 19.2 |
| Gakenke | 23.1 | 30.0 | 56.5 | 76.9 | 70.0 | 43.5 |
| Musanze | 47.3 | 56.0 | 87.4 | 52.7 | 44.0 | 12.6 |
| Burera | 48.8 | 48.1 | 85.6 | 51.2 | 51.9 | 14.4 |
| Gicumbi | 35.7 | 39.3 | 73.0 | 64.3 | 60.7 | 27.0 |
| Rwamagana | 14.3 | 20.9 | 37.7 | 85.7 | 79.1 | 62.3 |
| Nyagatare | 29.9 | 21.0 | 64.4 | 70.1 | 79.0 | 35.6 |
| Gatsibo | 21.5 | 22.5 | 80.4 | 78.5 | 77.5 | 19.6 |
| Kayonza | 23.8 | 26.5 | 35.3 | 76.2 | 73.5 | 64.7 |
| Kirehe | 18.0 | 33.4 | 35.9 | 82.0 | 66.6 | 64.1 |
| Ngoma | 22.1 | 19.0 | 69.7 | 77.9 | 81.0 | 30.3 |
| Bugesera | 20.9 | 23.9 | 19.4 | 79.1 | 76.1 | 80.6 |
| National | 28.3 | 32.2 | 63.2 | 71.7 | 67.8 | 36.8 |
| Small scale farmers | 26.7 | 30.9 | 76.0 | 73.3 | 69.1 | 24.0 |
| Large scale farmers | 96.0 | 93.8 | | 4.0 | 6.2 | |

Table 33: Season A 2021_ Use of improved seeds by farmer type per district (%)

| | Percentage of | of farmers v | vho used | Percentage | of sampled | plots in | Percentage of la | and size i | n which |
|------------|---------------|--------------|----------|------------|-------------|----------|------------------|------------|---------|
| | impr | oved seeds | 3 | | ved seeds w | | improved see | eds were | used |
| District | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 35.7 | 35.7 | - | 27.8 | 27.8 | - | 25.2 | 25.2 | - |
| Gasabo | 35.6 | 33.4 | 91.7 | 21.1 | 21.1 | 71.0 | 26.1 | 24.9 | 80.4 |
| Kicukiro | 44.1 | 42.8 | 100.0 | 28.0 | 28.0 | 83.3 | 29.8 | 28.3 | 91.1 |
| Nyanza | 30.7 | 29.7 | 87.5 | 21.8 | 21.8 | 77.8 | 23.7 | 22.7 | 83.9 |
| Gisagara | 45.5 | 43.3 | 90.9 | 35.2 | 35.2 | 71.4 | 33.3 | 29.3 | 81.4 |
| Nyaruguru | 38.4 | 36.9 | 90.0 | 31.0 | 31.0 | 84.6 | 27.4 | 26.7 | 88.6 |
| Huye | 38.6 | 35.4 | 96.0 | 27.3 | 27.3 | 73.5 | 27.4 | 25.4 | 90.7 |
| Nyamagabe | 28.3 | 28.3 | - | 26.3 | 26.3 | - | 20.9 | 21.0 | - |
| Ruhango | 25.1 | 23.9 | 88.9 | 19.5 | 19.5 | 65.2 | 20.1 | 18.7 | 85.0 |
| Muhanga | 17.7 | 16.2 | 100.0 | 10.5 | 10.5 | 90.9 | 11.5 | 10.2 | 99.3 |
| Kamonyi | 35.1 | 33.5 | 100.0 | 26.4 | 26.4 | 80.0 | 24.8 | 23.6 | 97.9 |
| Karongi | 39.0 | 39.1 | - | 33.9 | 33.9 | - | 28.4 | 28.5 | - |
| Rutsiro | 24.4 | 24.4 | - | 20.8 | 20.8 | - | 18.4 | 18.4 | - |
| Rubavu | 24.1 | 23.3 | 100.0 | 20.4 | 20.4 | 83.3 | 19.8 | 19.7 | 53.7 |
| Nyabihu | 21.9 | 21.9 | - | 19.2 | 19.2 | - | 18.0 | 18.0 | - |
| Ngororero | 25.5 | 25.5 | - | 16.8 | 16.8 | - | 20.2 | 20.2 | - |
| Rusizi | 41.2 | 40.2 | 90.0 | 29.7 | 29.7 | 86.7 | 30.3 | 27.7 | 98.1 |
| Nyamasheke | 30.5 | 30.1 | 57.1 | 27.7 | 27.7 | 66.7 | 23.0 | 22.8 | 49.7 |
| Rulindo | 35.5 | 34.8 | 100.0 | 31.1 | 31.1 | 47.4 | 25.9 | 25.8 | 57.5 |
| Gakenke | 40.3 | 40.3 | - | 35.6 | 35.6 | - | 29.0 | 29.0 | - |
| Musanze | 35.0 | 35.0 | - | 34.3 | 34.3 | - | 29.5 | 29.5 | - |
| Burera | 43.9 | 43.9 | - | 36.5 | 36.5 | - | 31.7 | 31.7 | - |
| Gicumbi | 25.3 | 24.9 | 100.0 | 19.9 | 19.9 | 58.3 | 18.5 | 18.5 | 81.5 |
| Rwamagana | 50.9 | 49.2 | 82.8 | 39.7 | 39.7 | 59.1 | 33.3 | 32.6 | 76.9 |
| Nyagatare | 44.1 | 40.0 | 93.3 | 26.3 | 26.3 | 82.4 | 31.4 | 28.8 | 95.5 |
| Gatsibo | 44.0 | 42.3 | 100.0 | 32.6 | 32.6 | 78.5 | 32.6 | 30.4 | 98.9 |
| Kayonza | 48.9 | 46.3 | 95.7 | 37.9 | 37.9 | 44.3 | 34.0 | 32.4 | 78.3 |
| Kirehe | 51.1 | 50.5 | 90.0 | 43.6 | 43.6 | 91.3 | 34.4 | 33.2 | 75.1 |
| Ngoma | 54.8 | 54.3 | 75.0 | 47.8 | 47.8 | 49.0 | 35.2 | 34.6 | 73.7 |
| Bugesera | 37.5 | 35.3 | 75.7 | 33.6 | 33.6 | 60.4 | 26.9 | 25.1 | 82.5 |
| National | 37.1 | 36.0 | 88.8 | 28.7 | 28.7 | 65.2 | 27.6 | 26.5 | 85.6 |

Table 34: Season B 2021_Use of improved seeds by farmer type per district (%)

| | Percentage (| of farmers v | vho used | Percentage | of sampled | plots in | Percentage of | land size | in which |
|------------|--------------|--------------|----------|-------------|-------------|----------|---------------|-----------|----------|
| | impr | roved seeds | | which impro | ved seeds v | vas used | improved se | eds were | e used |
| District | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 9.6 | 9.6 | | 6.1 | 6.1 | | 7.8 | 7.8 | |
| Gasabo | 22.2 | 21.0 | 60.0 | 15.9 | 15.9 | 45.3 | 17.6 | 17.6 | 17.5 |
| Kicukiro | 24.1 | 22.6 | 100.0 | 20.4 | 20.4 | 75.0 | 21.2 | 19.7 | 91.3 |
| Nyanza | 24.2 | 23.5 | 83.3 | 16.3 | 16.3 | 71.4 | 19.0 | 17.9 | 78.2 |
| Gisagara | 18.0 | 16.0 | 75.0 | 11.8 | 11.8 | 63.6 | 19.8 | 13.4 | 75.4 |
| Nyaruguru | 16.2 | 13.8 | 90.0 | 12.4 | 12.4 | 76.9 | 12.6 | 11.6 | 93.5 |
| Huye | 15.7 | 12.9 | 79.0 | 9.5 | 9.5 | 79.0 | 12.9 | 10.0 | 87.1 |
| Nyamagabe | 10.1 | 9.9 | 100.0 | 8.4 | 8.4 | 100.0 | 8.7 | 8.6 | 100.0 |
| Ruhango | 11.2 | 9.7 | 81.8 | 6.8 | 6.8 | 62.5 | 10.8 | 8.9 | 87.5 |
| Muhanga | 6.0 | 4.8 | 100.0 | 3.9 | 3.9 | 70.0 | 4.6 | 4.0 | 77.4 |
| Kamonyi | 16.4 | 15.3 | 87.5 | 9.0 | 9.0 | 86.7 | 14.5 | 13.8 | 68.3 |
| Karongi | 9.9 | 9.6 | 100.0 | 8.4 | 8.4 | 100.0 | 9.2 | 9.1 | 100.0 |
| Rutsiro | 14.8 | 14.8 | | 13.8 | 13.8 | | 11.9 | 11.9 | |
| Rubavu | 24.4 | 23.8 | 75.0 | 15.9 | 15.9 | 33.3 | 21.3 | 21.3 | 25.9 |
| Nyabihu | 34.3 | 34.3 | | 31.3 | 31.3 | | 28.5 | 28.5 | |
| Ngororero | 26.2 | 26.2 | | 24.8 | 24.8 | | 21.1 | 21.1 | |
| Rusizi | 5.6 | 5.1 | 30.0 | 3.4 | 3.4 | 35.7 | 6.2 | 4.7 | 32.2 |
| Nyamasheke | 8.8 | 8.1 | 50.0 | 7.7 | 7.7 | 44.4 | 8.8 | 8.2 | 46.6 |
| Rulindo | 11.4 | 10.5 | 80.0 | 9.0 | 9.0 | 54.6 | 8.2 | 8.1 | 47.9 |
| Gakenke | 11.7 | 11.7 | | 8.9 | 8.9 | | 10.5 | 10.5 | |
| Musanze | 16.8 | 16.8 | | 13.9 | 13.9 | | 18.8 | 18.8 | |
| Burera | 12.1 | 12.1 | | 10.1 | 10.1 | | 10.7 | 10.7 | |
| Gicumbi | 13.8 | 13.5 | 66.7 | 11.3 | 11.3 | 72.7 | 10.6 | 10.6 | 71.2 |
| Rwamagana | 19.3 | 16.4 | 77.8 | 12.9 | 12.9 | 54.4 | 13.6 | 12.5 | 77.6 |
| Nyagatare | 39.6 | 36.7 | 82.1 | 24.3 | 24.2 | 69.4 | 28.0 | 26.3 | 90.0 |
| Gatsibo | 23.8 | 21.8 | 94.7 | 15.6 | 15.6 | 71.9 | 20.8 | 18.2 | 94.2 |
| Kayonza | 25.0 | 21.9 | 90.0 | 17.0 | 17.0 | 62.9 | 19.9 | 17.7 | 89.0 |
| Kirehe | 6.9 | 5.5 | 100.0 | 3.1 | 3.1 | 58.3 | 7.0 | 3.8 | 72.4 |
| Ngoma | 8.5 | 6.7 | 75.0 | 4.5 | 4.5 | 56.9 | 7.2 | 5.6 | 84.4 |
| Bugesera | 27.8 | 25.1 | 72.2 | 18.1 | 18.1 | 45.5 | 20.2 | 18.2 | 78.9 |
| National | 17.2 | 15.9 | 78.8 | 11.9 | 11.9 | 59.6 | 15.2 | 13.9 | 76.8 |

Table 35: Season C 2021_Use of improved seeds types per district (%)

| | Percentage | of farmers v | who used | Percentag | e of sampled | d plots in | Percentage of | land size | in which |
|------------|------------|--------------|----------|------------|--------------|------------|---------------|-----------|----------|
| | imp | proved seeds | 3 | which impr | oved seeds v | was used | improved se | eds were | used |
| District | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE |
| Nyarugenge | 47.6 | 31.6 | 60.9 | 16.8 | 16.7 | 50.0 | 22.9 | 22.9 | 47.2 |
| Gasabo | 54.6 | 54.2 | 54.7 | 60.3 | 60.3 | 52.6 | 54.8 | 54.8 | 64.0 |
| Kicukiro | 26.1 | 37.5 | 20.0 | 18.6 | 18.5 | 100.0 | 42.7 | 42.6 | 100.0 |
| Nyanza | 25.2 | 16.0 | 27.7 | 19.1 | 19.0 | 33.3 | 23.1 | 22.9 | 63.4 |
| Gisagara | 15.0 | 4.8 | 18.6 | 4.5 | 4.5 | 40.0 | 4.7 | 4.6 | 28.9 |
| Nyaruguru | 20.2 | 20.4 | 20.0 | 19.8 | 19.8 | 18.4 | 20.4 | 20.5 | 6.4 |
| Huye | 25.0 | 38.7 | 19.8 | 40.2 | 40.2 | 24.4 | 29.6 | 29.6 | 16.6 |
| Nyamagabe | 20.3 | 9.5 | 25.0 | 21.3 | 21.3 | 19.1 | 10.5 | 10.0 | 45.3 |
| Ruhango | 22.1 | 5.0 | 28.1 | 8.0 | 8.0 | 22.2 | 5.5 | 5.5 | 47.9 |
| Muhanga | 20.9 | 6.3 | 26.5 | 10.6 | 10.6 | 21.2 | 8.2 | 8.1 | 34.4 |
| Kamonyi | 22.6 | 8.3 | 27.8 | 10.9 | 10.9 | 26.5 | 6.9 | 6.8 | 32.3 |
| Karongi | 16.9 | 23.1 | 15.5 | 17.9 | 17.8 | 40.0 | 24.4 | 21.0 | 93.9 |
| Rutsiro | 2.3 | 10.0 | - | 2.3 | 2.3 | - | 8.1 | 8.5 | - |
| Rubavu | 7.3 | 5.3 | 10.4 | 5.0 | 5.0 | 25.0 | 5.8 | 5.4 | 77.5 |
| Nyabihu | 9.6 | 10.7 | 7.6 | 11.3 | 11.3 | 8.3 | 16.9 | 16.9 | 14.0 |
| Ngororero | 15.9 | 6.3 | 21.4 | 0.6 | 0.6 | - | 20.6 | 20.6 | - |
| Rusizi | 43.6 | 33.3 | 50.0 | 29.0 | 28.9 | 66.7 | 28.3 | 27.4 | 50.0 |
| Nyamasheke | 27.8 | 30.0 | 27.5 | 27.3 | 27.3 | 38.1 | 30.6 | 30.6 | 38.4 |
| Rulindo | 23.4 | 12.0 | 30.8 | 12.1 | 12.1 | 16.7 | 12.5 | 12.5 | 1.2 |
| Gakenke | 25.2 | 16.7 | 29.4 | 28.0 | 28.0 | 23.5 | 22.1 | 22.1 | 5.5 |
| Musanze | 17.7 | 14.1 | 21.4 | 14.5 | 14.5 | 23.5 | 26.5 | 26.5 | 24.4 |
| Burera | 1.9 | 2.8 | - | 3.2 | 3.2 | - | 5.0 | 5.0 | - |
| Gicumbi | 7.3 | - | 11.8 | 0.0 | - | 18.2 | 0.6 | - | 29.6 |
| Rwamagana | 25.6 | 18.2 | 27.9 | 22.4 | 22.3 | 29.6 | 23.4 | 23.4 | 30.3 |
| Nyagatare | 46.3 | 56.5 | 38.7 | 55.4 | 55.4 | 40.0 | 46.2 | 46.0 | 88.8 |
| Gatsibo | 44.7 | 37.5 | 46.7 | 46.5 | 46.6 | 40.0 | 29.0 | 29.2 | 14.2 |
| Kayonza | 52.1 | 54.6 | 51.7 | 36.4 | 36.4 | 54.6 | 45.3 | 42.0 | 80.4 |
| Kirehe | 36.2 | 33.3 | 37.1 | 44.0 | 44.0 | 25.0 | 32.1 | 32.1 | 5.9 |
| Ngoma | 56.0 | 25.0 | 61.9 | 22.7 | 22.7 | 40.0 | 27.4 | 23.6 | 86.6 |
| Bugesera | 35.6 | 9.7 | 54.8 | 21.4 | 21.3 | 46.2 | 6.3 | 6.1 | 53.1 |
| National | 23.8 | 15.9 | 28.3 | 18.8 | 18.8 | 27.8 | 19.4 | 19.2 | 52.3 |

Table 36: Seed use by crop type and season in 2021 (%)

| | 7 | raditional seeds | 11 = 0 = 1 (70) | lm | proved seeds | |
|-----------------|----------|------------------|-----------------|----------|--------------|----------|
| Crop | Season A | Season B | Season C | Season A | Season B | Season C |
| Maize | 38.7 | 44.6 | | 61.3 | 55.4 | |
| Paddy rice | 28.3 | 35.7 | | 71.7 | 64.3 | |
| Sorghum | 100 | 100 | | - | - | |
| Wheat | 80.4 | 77.8 | | 19.6 | 22.2 | |
| Other cereal | 100.0 | 98.7 | | - | 1.3 | |
| Bush bean | 99.3 | 99.4 | 98.5 | 0.7 | 0.6 | 1.5 |
| Climbing bean | 99.7 | 99.9 | 100.0 | 0.3 | 0.1 | - |
| Pea | 99.7 | 99.4 | 100.0 | 0.3 | 0.6 | - |
| Irish potato | 97.1 | 96.3 | 90.7 | 2.9 | 3.8 | 9.3 |
| Sweet potato | 99.9 | 99.9 | 99.7 | 0.1 | 0.1 | 0.3 |
| Taro & Yams | 100.0 | | | - | | |
| Soybean | 97.0 | 97.9 | 99.1 | 3.0 | 2.1 | 0.9 |
| Groundnut | 99.5 | 99.8 | 100.0 | 0.5 | 0.2 | - |
| Cooking banana | 99.5 | 99.4 | | 0.5 | 0.6 | |
| Dessert banana | 98.6 | 98.6 | | 1.4 | 1.4 | |
| Banana for beer | 99.0 | 99.2 | | 1.0 | 0.8 | |
| Cassava | 99.7 | 99.6 | | 0.3 | 0.4 | |
| Vegetables | 55.0 | 48.8 | 46.4 | 45.0 | 51.2 | 53.6 |
| Fruits | 66.9 | 64.6 | - | 33.1 | 35.4 | 100.0 |
| Fodder | 82.7 | 86.1 | | 17.3 | 13.9 | |
| Other crops | 71.9 | | 50.0 | 28.1 | | 50.0 |
| National | 85.3 | 91.9 | 79.2 | 14.7 | 8.1 | 20.8 |

Table 37: Source of improved seeds per district and season in 2021 (%)

| | | overnmer | | | ognized | | | | | | | | | | | | | | | | |
|------------|------|----------|------|------|------------|------|------|----------|------|------|--------|------|------|--------|------|----------|------|------|-----|---------|-----|
| | | GRI/RAB/ | | | multiplier | | כ | ro deale | | | s/Comp | | | Market | | Agricult | | | | her sou | |
| District | SA | SB | SC | SA | SB | SC | SA | SB | SC | SA | SB | SC | SA | SB | SC | SA | SB | SC | SA | SB | SC |
| Nyarugenge | 34.6 | 10.0 | 5.0 | - | 10.0 | - | 44.4 | 75.0 | 50.0 | 4.9 | - | 5.0 | 11.1 | 5.0 | 30.0 | 1.2 | - | 10.0 | 3.7 | - | - |
| Gasabo | 20.9 | 15.6 | 11.5 | 9.7 | 6.5 | 3.9 | 61.9 | 53.3 | 23.1 | 8.0 | - | - | 5.2 | 23.4 | 50.0 | 0.8 | 1.3 | 11.5 | 0.8 | - | - |
| Kicukiro | 6.2 | 5.7 | - | 3.1 | 5.7 | - | 70.1 | 71.7 | 14.3 | 1.0 | 3.8 | - | 16.5 | 7.6 | 85.7 | 2.1 | 1.9 | - | 1.0 | 3.8 | - |
| Nyanza | 4.8 | 4.8 | 3.3 | 1.8 | 6.4 | - | 15.5 | 13.6 | 36.7 | 67.3 | 60.8 | 3.3 | 4.2 | 4.0 | 56.7 | 3.0 | 8.0 | - | 3.6 | 2.4 | - |
| Gisagara | 8.0 | 6.0 | 13.3 | 4.2 | 7.1 | - | 23.9 | 23.8 | 40.0 | 60.3 | 45.2 | 6.7 | 1.3 | 9.5 | 33.3 | 1.7 | 8.3 | 6.7 | 8.0 | - | - |
| Nyaruguru | 5.4 | 25.6 | 42.3 | 1.4 | 4.7 | 23.1 | 21.6 | 18.6 | 11.5 | 64.9 | 20.9 | - | 3.4 | 4.7 | 19.2 | 0.7 | 16.3 | 3.9 | 2.7 | 9.3 | - |
| Huye | 6.8 | 17.3 | 27.6 | 14.0 | 22.7 | 6.9 | 15.9 | 28.0 | 10.3 | 51.2 | 18.7 | - | 11.1 | 6.7 | 44.8 | 0.5 | 5.3 | 10.3 | 0.5 | 1.3 | - |
| Nyamagabe | 8.0 | 4.7 | 40.0 | 16.9 | 39.5 | 13.3 | 35.4 | 11.6 | 33.3 | 29.2 | 30.2 | - | 8.5 | 7.0 | 13.3 | 7.7 | 7.0 | - | 1.5 | - | - |
| Ruhango | 9.4 | 21.2 | - | 4.0 | 18.2 | - | 47.7 | 22.7 | 44.4 | 6.0 | 1.5 | - | 22.8 | 25.8 | 50.0 | 9.4 | 9.1 | 5.6 | 0.7 | 1.5 | - |
| Muhanga | 14.1 | 4.0 | - | 3.5 | 8.0 | 16.7 | 31.8 | 36.0 | 8.3 | 18.8 | 32.0 | - | 4.7 | 8.0 | 8.3 | 27.1 | 12.0 | 62.5 | - | - | 4.2 |
| Kamonyi | 7.8 | 15.9 | 3.2 | 2.9 | 10.2 | 3.2 | 47.6 | 44.3 | 67.7 | 20.9 | 17.1 | - | 7.3 | 3.4 | 9.7 | 11.7 | 9.1 | 16.1 | 1.9 | - | - |
| Karongi | 17.1 | 39.5 | 38.5 | 2.0 | 2.6 | - | 12.2 | 21.1 | 46.2 | 65.9 | 34.2 | 15.4 | 1.5 | - | - | 0.5 | 2.6 | - | 1.0 | - | - |
| Rutsiro | 11.2 | 13.5 | - | 4.1 | 7.7 | - | 26.5 | 46.2 | 100 | 51.0 | 30.8 | - | 3.1 | 1.9 | - | 1.0 | - | - | 3.1 | - | - |
| Rubavu | 6.6 | 3.9 | - | 3.3 | 1.9 | 10.0 | 57.1 | 79.6 | 90.0 | 19.8 | 11.7 | - | 11.0 | - | - | 1.1 | - | - | 1.1 | 2.9 | - |
| Nyabihu | 2.9 | 2.2 | 11.1 | 1.0 | 8.6 | 16.7 | 58.1 | 51.8 | 44.4 | 28.6 | 31.7 | 5.6 | 3.8 | 1.4 | 22.2 | 5.7 | 4.3 | - | - | - | - |
| Ngororero | 6.8 | 5.0 | 46.2 | 10.2 | 7.5 | 7.7 | 20.4 | 35.0 | 46.2 | 57.8 | 49.2 | - | 3.4 | 2.5 | - | 1.4 | 8.0 | - | - | - | - |
| Rusizi | 6.1 | 17.4 | 5.9 | 3.5 | - | 11.8 | 37.8 | 17.4 | 50.0 | 49.6 | 52.2 | - | 1.3 | 8.7 | 29.4 | - | - | - | 1.7 | 4.4 | 2.9 |
| Nyamasheke | 17.0 | 41.7 | 25.9 | 1.8 | 4.2 | 3.7 | 12.3 | 16.7 | 66.7 | 62.6 | 29.2 | - | 2.3 | 4.2 | - | 1.8 | 4.2 | 3.7 | 2.3 | - | - |
| Rulindo | 9.9 | 4.2 | - | 2.3 | 2.1 | - | 65.1 | 62.5 | 68.8 | 15.7 | 18.8 | - | 7.0 | 8.3 | 18.8 | - | 4.2 | 12.5 | - | - | - |
| Gakenke | 2.3 | 8.9 | 3.0 | 4.5 | 3.6 | 60.6 | 67.4 | 50.0 | 21.2 | 18.0 | 23.2 | 3.0 | 5.6 | 7.1 | 12.1 | 2.3 | 7.1 | - | - | - | - |
| Musanze | 6.2 | 3.2 | 15.4 | 1.0 | 6.5 | 23.1 | 76.3 | 67.7 | 23.1 | 11.9 | 10.8 | 7.7 | 2.8 | 8.6 | 30.8 | 1.4 | 1.1 | - | 0.5 | 2.2 | - |
| Burera | 1.2 | 1.4 | 40.0 | - | 1.4 | 20.0 | 81.7 | 75.7 | 20.0 | 12.0 | 14.3 | - | 0.4 | 4.3 | 20.0 | 4.8 | 2.9 | - | - | - | - |
| Gicumbi | 7.1 | 13.1 | 28.6 | 0.6 | 6.0 | - | 64.7 | 67.9 | 57.1 | 10.9 | 2.4 | 14.3 | 12.8 | 9.5 | - | 1.9 | 1.2 | - | 1.9 | - | - |
| Rwamagana | 2.6 | 3.1 | 8.0 | 11.1 | 17.8 | 12.0 | 24.8 | 31.0 | 24.0 | 46.4 | 30.2 | 12.0 | 9.0 | 15.5 | 44.0 | 5.3 | - | - | 0.9 | 2.3 | - |
| Nyagatare | 8.7 | 6.9 | 3.9 | 4.0 | 3.5 | - | 47.7 | 33.1 | 53.9 | 29.5 | 39.6 | 11.5 | 1.7 | 7.3 | 30.8 | 8.1 | 8.9 | - | 0.3 | 8.0 | - |
| Gatsibo | 6.8 | 9.0 | 11.8 | 5.3 | 5.4 | 5.9 | 20.9 | 23.4 | 70.6 | 61.7 | 53.3 | - | 3.2 | 4.8 | 5.9 | 1.8 | 4.2 | 5.9 | 0.3 | - | - |
| Kayonza | 5.8 | 14.3 | 5.1 | 3.6 | 2.3 | 5.1 | 28.9 | 26.3 | 53.9 | 58.2 | 44.4 | 2.6 | 2.7 | 7.5 | 23.1 | 0.9 | 5.3 | 10.3 | - | - | - |
| Kirehe | 8.2 | 9.4 | - | 0.5 | 11.3 | - | 13.3 | 22.6 | 76.5 | 64.4 | 24.5 | - | 1.1 | 5.7 | 23.5 | 10.3 | 22.6 | - | 2.2 | 3.8 | - |
| Ngoma | 18.3 | 21.7 | 13.6 | 2.4 | 5.0 | - | 22.5 | 11.7 | 18.2 | 46.7 | 35.0 | 2.3 | 5.5 | 6.7 | 61.4 | 3.7 | 16.7 | 4.6 | 1.0 | 3.3 | - |
| Bugesera | 5.5 | 3.2 | 13.8 | 5.1 | 5.4 | 6.9 | 41.4 | 38.9 | 51.7 | 33.6 | 33.5 | | 3.8 | 7.0 | 24.1 | 10.6 | 11.9 | 3.5 | | | |
| National | 8.3 | 9.2 | 12.6 | 4.3 | 7.5 | 9.3 | 37.6 | 38.9 | 39.8 | 39.3 | 30.3 | 2.7 | 5.2 | 7.1 | 28.6 | 4.3 | 5.9 | 6.7 | 1.0 | 1.0 | 0.3 |

Table 38: Source of improved seeds by season per crop type in 2021 (%)

| | G | overnme | nt | Reco | gnized s | seed | - | | - | | | | | | | Agı | riculture |) | | | |
|-----------------|--------|----------|--------|--------|------------|--------|--------|----------|--------|--------|----------|--------|--------|----------|------|--------|-----------|--------|--------|---------|--------|
| District | (MINAC | GRI/RAB | /NAEB) | m | ultipliers | 3 | Ag | ro deale | ers | NGOs | /Compa | nies | | Market | | COO | perative | Э | Othe | er sour | се |
| | | | | | | | | | | | | | | | | | | | | | |
| | ⋖_ | <u>B</u> | ၁ | ٧ | В | ပ | ⋖ | <u>B</u> | ပ | ⋖ | <u>B</u> | S | ٧ | <u> </u> | S | ٧ | Ω. | ပ | ⋖_ | В | ပ |
| | son | Son | son | son | Son | son | Son | son | son | son | Son | son | son | son | son | son | Son | SOL | son | Son | SOL |
| | Season | Season | Season | Season | Season | Season | Season | Season | Season | Season | Season B | Season | Season | Season B | Sea | Season | Season B | Season | Season | Season | Season |
| Fruits | 24.7 | 11.7 | - | 34.8 | 55.0 | _ | 14.6 | 10.0 | 62.5 | 5.6 | 3.3 | - | 13.5 | 15.0 | 37.5 | 6.7 | _ | _ | _ | 5.0 | |
| Vegetables | 3.5 | 3.6 | 8.8 | 3.3 | 3.0 | 2.7 | 53.3 | 58.8 | 46.2 | 4.3 | 2.4 | 2.6 | 32.5 | 26.4 | 33.7 | 0.3 | 3.0 | 5.8 | 3.0 | 2.7 | 0.2 |
| Other crops | 32.2 | 62.2 | - | 25.6 | 15.7 | - | 4.4 | - | 100.0 | 8.9 | 4.1 | - | 13.3 | 9.3 | - | 7.8 | 7.0 | - | 7.8 | 1.7 | - |
| Taro & Yams | - | - | | - | - | | - | - | | - | - | | - | 100.0 | | - | - | | - | - | |
| Fodder crops | 33.3 | 55.9 | | 2.6 | 5.9 | | 35.9 | 23.5 | | 2.6 | - | | 23.1 | 5.9 | | 2.6 | - | | - | 8.8 | |
| Maize | 7.3 | 4.4 | | 2.4 | 3.0 | | 39.4 | 44.7 | | 44.0 | 40.7 | | 3.4 | 4.6 | | 3.0 | 2.3 | | 0.7 | 0.4 | |
| Paddy rice | 2.2 | 6.8 | | 39.7 | 30.1 | | 0.7 | 1.5 | | 1.5 | 8.0 | | - | 8.0 | | 55.9 | 60.2 | | - | - | |
| Wheat | 15.8 | - | | - | - | | 63.2 | 100.0 | | 10.5 | - | | - | - | | 10.5 | - | | - | - | |
| Bush bean | 17.7 | 16.1 | - | 8.8 | 16.1 | 16.7 | 38.2 | 55.4 | 33.3 | 19.1 | - | - | 13.2 | 3.6 | 33.3 | 2.9 | 5.4 | 16.7 | - | 3.6 | |
| Climbing bean | 31.6 | 67.1 | | 5.3 | 4.3 | | 31.6 | 4.3 | | 31.6 | 18.6 | | - | 2.9 | | - | 1.4 | | - | 1.4 | |
| Irish potato | 18.3 | 38.5 | 29.6 | 33.8 | 7.7 | 44.4 | 11.3 | 7.7 | 7.4 | 4.2 | 23.1 | 6.5 | 21.1 | - | 0.9 | 8.5 | 23.1 | 10.2 | 2.8 | - | 0.9 |
| Sweet potato | 9.1 | 100.0 | 100.0 | - | - | - | 81.8 | - | - | 9.1 | - | - | - | - | - | - | - | - | - | - | |
| Soybean | 34.2 | 11.9 | 87.5 | 7.9 | 54.8 | - | 36.8 | 7.1 | 12.5 | 13.2 | 2.4 | - | 5.3 | 13.1 | - | 2.6 | 10.7 | - | - | - | |
| Cooking banana | 27.8 | - | | 50.0 | 50.0 | | - | - | | 5.6 | 50.0 | | - | - | | 5.6 | - | | 11.1 | - | |
| Dessert banana | 35.7 | 33.3 | | 31.0 | 3.7 | | 2.4 | 33.3 | | 7.1 | 18.5 | | 4.8 | 7.4 | | 7.1 | 3.7 | | 11.9 | - | |
| Banana for beer | 26.3 | - | | 42.1 | - | | 13.2 | 100.0 | | - | - | | - | - | | 10.5 | - | | 7.9 | - | |
| Cassava | 32.1 | 20.0 | | 17.9 | 46.7 | | 50.0 | - | | - | 6.7 | | - | 13.3 | | - | 6.7 | | - | 6.7 | |

Table 39: Season A 2021_Use of organic fertilizer by farmer type per district (%)

| | Percentage of farmers who applied organic fertilizer | | | Percentage | | | Percentage of land size in which organic fertilizer was applied | | | | | |
|------------|--|------|-------|--------------|------|-------|---|------|-------|--|--|--|
| | applied o | | | organic fert | | | organic fer | | | | | |
| District | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF | | | |
| Nyarugenge | 53.8 | 53.8 | | 42.0 | 42.0 | - | 53.8 | 53.8 | - | | | |
| Gasabo | 60.8 | 60.3 | 75.0 | 54.2 | 54.2 | 80.6 | 56.3 | 56.8 | 36.5 | | | |
| Kicukiro | 44.1 | 42.8 | 100.0 | 32.0 | 32.0 | 83.3 | 45.0 | 43.9 | 79.4 | | | |
| Nyanza | 57.9 | 57.4 | 87.5 | 55.9 | 55.9 | 88.9 | 57.6 | 56.8 | 92.9 | | | |
| Gisagara | 59.7 | 58.6 | 81.8 | 56.4 | 56.4 | 68.6 | 60.0 | 59.3 | 66.3 | | | |
| Nyaruguru | 83.5 | 83.0 | 100.0 | 79.5 | 79.5 | 92.3 | 81.7 | 81.5 | 99.6 | | | |
| Huye | 75.7 | 74.3 | 100.0 | 73.1 | 73.1 | 91.2 | 73.2 | 72.2 | 97.0 | | | |
| Nyamagabe | 77.8 | 77.7 | 100.0 | 73.4 | 73.4 | 100.0 | 74.3 | 74.3 | 100.0 | | | |
| Ruhango | 69.7 | 70.1 | 44.4 | 64.1 | 64.1 | 65.2 | 65.6 | 67.1 | 8.8 | | | |
| Muhanga | 72.4 | 71.9 | 100.0 | 65.5 | 65.5 | 100.0 | 70.9 | 70.4 | 100.0 | | | |
| Kamonyi | 64.9 | 64.3 | 91.7 | 59.2 | 59.2 | 73.3 | 58.5 | 58.0 | 84.8 | | | |
| Karongi | 78.6 | 78.6 | 100.0 | 74.2 | 74.2 | 100.0 | 76.9 | 76.9 | 100.0 | | | |
| Rutsiro | 70.7 | 70.7 | | 69.4 | 69.4 | - | 70.6 | 70.6 | - | | | |
| Rubavu | 27.1 | 26.3 | 100.0 | 24.9 | 24.9 | 58.3 | 25.7 | 25.6 | 80.5 | | | |
| Nyabihu | 61.2 | 61.2 | | 56.1 | 56.1 | - | 58.8 | 58.8 | - | | | |
| Ngororero | 89.6 | 89.6 | | 86.8 | 86.8 | - | 89.5 | 89.5 | - | | | |
| Rusizi | 71.5 | 72.5 | 20.0 | 74.7 | 74.7 | 46.7 | 66.5 | 69.9 | 1.9 | | | |
| Nyamasheke | 83.3 | 83.0 | 100.0 | 81.0 | 81.0 | 88.9 | 81.5 | 81.2 | 99.8 | | | |
| Rulindo | 85.6 | 85.7 | 80.0 | 82.4 | 82.4 | 63.2 | 82.8 | 82.9 | 41.1 | | | |
| Gakenke | 89.5 | 89.5 | | 87.1 | 87.1 | - | 87.9 | 87.9 | - | | | |
| Musanze | 60.2 | 60.2 | | 57.5 | 57.5 | - | 58.1 | 58.1 | - | | | |
| Burera | 76.2 | 76.2 | | 74.9 | 74.9 | - | 73.9 | 73.9 | - | | | |
| Gicumbi | 88.4 | 88.3 | 100.0 | 84.9 | 84.9 | 58.3 | 86.9 | 86.9 | 78.3 | | | |
| Rwamagana | 65.1 | 63.8 | 89.7 | 58.9 | 58.9 | 51.9 | 61.4 | 61.6 | 51.0 | | | |
| Nyagatare | 40.0 | 38.7 | 55.6 | 35.2 | 35.2 | 56.0 | 38.5 | 38.9 | 30.5 | | | |
| Gatsibo | 68.6 | 68.6 | 68.4 | 62.5 | 62.5 | 55.4 | 63.5 | 65.8 | 13.6 | | | |
| Kayonza | 51.1 | 49.0 | 87.0 | 45.2 | 45.2 | 53.6 | 50.1 | 49.3 | 66.8 | | | |
| Kirehe | 60.4 | 60.1 | 80.0 | 55.3 | 55.3 | 91.3 | 61.0 | 59.8 | 92.0 | | | |
| Ngoma | 62.7 | 62.8 | 56.3 | 56.7 | 56.7 | 61.2 | 61.6 | 62.4 | 25.5 | | | |
| Bugesera | 43.0 | 42.3 | 54.1 | 41.1 | 41.1 | 47.2 | 39.4 | 39.8 | 29.2 | | | |
| National | 67.0 | 66.8 | 74.8 | 66.3 | 66.3 | 60.6 | 64.1 | 64.4 | 51.4 | | | |

Table 40: Season B 2021_Use of organic fertilizer by farmer type per district (%)

| | Percentage of farmers who applied organic fertilizer | | | Percentage | | | Percentage of | | |
|------------|--|------|-------|---------------|------|-------|---------------|----------------|-------|
| _ | | | | organic ferti | | | | tilizer was ap | |
| District | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 51.3 | 51.3 | | 43.8 | 43.8 | | 50.4 | 50.4 | |
| Gasabo | 58.7 | 58.0 | 80.0 | 52.5 | 52.4 | 77.4 | 58.1 | 57.5 | 79.2 |
| Kicukiro | 40.4 | 39.2 | 100.0 | 26.9 | 26.9 | 91.7 | 39.8 | 39.7 | 44.6 |
| Nyanza | 42.0 | 41.7 | 66.7 | 36.4 | 36.4 | 71.4 | 39.7 | 38.8 | 74.5 |
| Gisagara | 45.3 | 46.0 | 25.0 | 42.2 | 42.2 | 22.7 | 39.2 | 43.4 | 7.7 |
| Nyaruguru | 79.1 | 78.5 | 100.0 | 70.7 | 70.7 | 84.6 | 74.8 | 74.5 | 99.0 |
| Huye | 59.9 | 58.8 | 84.2 | 53.5 | 53.5 | 84.2 | 55.7 | 54.4 | 84.5 |
| Nyamagabe | 70.8 | 70.8 | 100.0 | 67.2 | 67.2 | 75.0 | 67.8 | 67.8 | 83.4 |
| Ruhango | 49.4 | 49.1 | 63.6 | 43.1 | 43.1 | 62.5 | 47.5 | 46.6 | 80.8 |
| Muhanga | 70.9 | 70.8 | 80.0 | 58.9 | 58.9 | 90.0 | 66.1 | 66.1 | 69.9 |
| Kamonyi | 58.1 | 57.8 | 75.0 | 55.1 | 55.1 | 66.7 | 55.6 | 55.4 | 73.8 |
| Karongi | 68.6 | 68.5 | 100.0 | 59.8 | 59.8 | 100.0 | 65.3 | 65.2 | 100.0 |
| Rutsiro | 64.8 | 64.8 | | 57.7 | 57.7 | | 61.4 | 61.4 | |
| Rubavu | 32.1 | 31.6 | 75.0 | 32.1 | 32.1 | 33.3 | 36.5 | 36.4 | 62.9 |
| Nyabihu | 68.1 | 68.1 | | 59.3 | 59.3 | | 64.0 | 64.0 | |
| Ngororero | 88.0 | 88.0 | | 83.4 | 83.4 | | 88.2 | 88.2 | |
| Rusizi | 53.6 | 53.9 | 40.0 | 53.8 | 53.8 | 28.6 | 50.3 | 51.9 | 22.6 |
| Nyamasheke | 69.2 | 68.8 | 87.5 | 65.2 | 65.2 | 88.9 | 62.5 | 62.0 | 92.4 |
| Rulindo | 83.3 | 83.4 | 80.0 | 81.2 | 81.2 | 72.7 | 80.8 | 80.9 | 67.6 |
| Gakenke | 82.0 | 82.0 | | 77.8 | 77.8 | | 79.4 | 79.4 | |
| Musanze | 63.6 | 63.6 | | 64.7 | 64.7 | | 65.3 | 65.3 | |
| Burera | 72.2 | 72.2 | | 68.5 | 68.5 | | 69.5 | 69.5 | |
| Gicumbi | 74.7 | 74.6 | 100.0 | 71.3 | 71.3 | 81.8 | 71.3 | 71.2 | 88.0 |
| Rwamagana | 49.7 | 48.0 | 85.2 | 45.9 | 45.9 | 55.3 | 46.1 | 45.8 | 64.9 |
| Nyagatare | 34.6 | 32.7 | 61.5 | 35.0 | 35.0 | 61.2 | 32.7 | 32.9 | 26.4 |
| Gatsibo | 54.4 | 54.4 | 52.6 | 51.5 | 51.5 | 51.6 | 50.5 | 52.3 | 6.4 |
| Kayonza | 40.0 | 38.5 | 70.0 | 34.2 | 34.2 | 48.5 | 35.6 | 36.5 | 10.6 |
| Kirehe | 31.0 | 30.1 | 90.0 | 23.4 | 23.4 | 91.7 | 33.4 | 30.3 | 98.3 |
| Ngoma | 30.3 | 29.5 | 62.5 | 25.0 | 25.0 | 49.0 | 31.9 | 31.8 | 37.5 |
| Bugesera | 35.1 | 34.0 | 52.8 | 35.0 | 35.0 | 37.2 | 37.2 | 35.9 | 72.7 |
| National | 56.3 | 56.1 | 67.7 | 55.3 | 55.3 | 57.4 | 52.7 | 52.9 | 45.2 |

Table 41: Season C 2021_Use of organic fertilizer per district (%)

| | | ge of farmers | | Percentage of p | | | Percentage of land size in which | | | |
|------------|---------|----------------|------|-----------------|---------------|------|----------------------------------|------|------|--|
| <u>.</u> | applied | organic fertil | | fertilize | r was applied | | organic fertil | | | |
| District | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE | |
| Nyarugenge | 61.9 | 31.6 | 87.0 | 23.7 | 23.3 | 85.7 | 27.8 | 27.6 | 88.3 | |
| Gasabo | 88.6 | 83.3 | 90.6 | 78.2 | 78.2 | 91.0 | 82.8 | 82.7 | 94.1 | |
| Kicukiro | 69.6 | 62.5 | 73.3 | 54.8 | 54.6 | 73.3 | 32.4 | 31.4 | 78.3 | |
| Nyanza | 62.2 | 64.0 | 61.7 | 61.0 | 61.0 | 62.8 | 65.0 | 64.9 | 70.5 | |
| Gisagara | 66.3 | 61.9 | 67.8 | 63.4 | 63.3 | 68.9 | 57.0 | 57.0 | 63.0 | |
| Nyaruguru | 95.0 | 95.9 | 94.3 | 96.7 | 96.7 | 94.5 | 97.1 | 97.1 | 97.5 | |
| Huye | 83.0 | 67.7 | 88.9 | 64.1 | 64.0 | 89.0 | 65.1 | 64.9 | 91.2 | |
| Nyamagabe | 88.4 | 76.2 | 93.8 | 66.0 | 65.8 | 94.2 | 73.1 | 72.8 | 98.8 | |
| Ruhango | 83.1 | 80.0 | 84.2 | 78.9 | 78.9 | 84.2 | 74.6 | 74.5 | 84.6 | |
| Muhanga | 82.6 | 75.0 | 85.5 | 75.5 | 75.5 | 85.4 | 81.5 | 81.5 | 80.5 | |
| Kamonyi | 79.0 | 55.6 | 87.6 | 54.6 | 54.5 | 87.3 | 49.5 | 49.0 | 93.1 | |
| Karongi | 77.5 | 38.5 | 86.2 | 45.3 | 44.8 | 86.4 | 48.4 | 44.2 | 97.6 | |
| Rutsiro | 81.4 | 80.0 | 81.8 | 88.7 | 88.7 | 81.8 | 82.9 | 82.4 | 88.9 | |
| Rubavu | 34.2 | 42.7 | 20.8 | 39.3 | 39.4 | 20.8 | 43.1 | 43.3 | 14.7 | |
| Nyabihu | 73.0 | 72.3 | 74.2 | 71.2 | 71.2 | 74.3 | 72.8 | 72.7 | 81.9 | |
| Ngororero | 72.7 | 81.3 | 67.9 | 91.7 | 91.9 | 66.7 | 80.6 | 80.7 | 55.7 | |
| Rusizi | 88.5 | 73.3 | 97.9 | 83.9 | 83.8 | 96.0 | 79.4 | 78.6 | 99.4 | |
| Nyamasheke | 83.3 | 70.0 | 85.0 | 63.4 | 63.0 | 84.2 | 69.9 | 69.4 | 88.0 | |
| Rulindo | 96.9 | 96.0 | 97.4 | 96.3 | 96.3 | 97.5 | 97.0 | 97.0 | 98.8 | |
| Gakenke | 74.8 | 73.8 | 75.3 | 65.9 | 65.9 | 75.3 | 71.8 | 71.8 | 65.7 | |
| Musanze | 83.7 | 76.1 | 91.4 | 76.1 | 76.1 | 92.4 | 83.1 | 83.1 | 98.0 | |
| Burera | 85.2 | 82.1 | 91.1 | 79.0 | 79.0 | 91.2 | 77.1 | 77.1 | 94.6 | |
| Gicumbi | 81.7 | 87.1 | 78.4 | 93.7 | 93.8 | 80.0 | 89.4 | 89.4 | 89.1 | |
| Rwamagana | 45.6 | 27.3 | 51.5 | 38.4 | 38.2 | 51.4 | 29.4 | 29.1 | 49.6 | |
| Nyagatare | 46.3 | 60.9 | 35.5 | 72.1 | 72.3 | 35.3 | 37.4 | 37.4 | 37.6 | |
| Gatsibo | 86.8 | 87.5 | 86.7 | 87.4 | 87.4 | 86.7 | 86.7 | 86.5 | 97.0 | |
| Kayonza | 60.6 | 63.6 | 60.0 | 48.9 | 48.7 | 60.0 | 46.0 | 51.4 | 12.9 | |
| Kirehe | 59.6 | 75.0 | 54.3 | 84.4 | 84.7 | 54.3 | 79.8 | 80.3 | 58.3 | |
| Ngoma | 69.3 | 58.3 | 71.4 | 44.5 | 43.6 | 69.7 | 61.0 | 59.5 | 69.7 | |
| Bugesera | 30.1 | 19.4 | 38.1 | 33.1 | 33.1 | 37.5 | 16.2 | 15.9 | 29.1 | |
| National | 73.8 | 68.8 | 76.6 | 71.5 | 71.5 | 76.6 | 68.6 | 68.6 | 67.6 | |

Table 42: Season A 2021_Use of inorganic fertilizer by farmer type per district (%)

| | | of farmers v | | | ge of plots ir | | Percentage of land under which | | | |
|------------|-----------------|-----------------|--------------------------|---------|----------------|-----------|--------------------------------|----------------|-------|--|
| District | | ganic fertilize | | | fertilizer was | | | fertilizer was | | |
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF | |
| Nyarugenge | 16.7 | 16.7 | | 9.3 | 9.3 | | 14.5 | 14.5 | - | |
| Gasabo | 28.0 | 25.9 | 83.3 | 18.1 | 18.1 | 27.4 | 26.1 | 24.8 | 74.0 | |
| Kicukiro | 43.7 | 42.3 | 100.0 | 33.4 | 33.4 | 33.4 75.0 | | 39.8 | 96.3 | |
| Nyanza | 22.8 | 21.6 | 100.0 | 15.5 | 15.5 | 100.0 | 22.5 | 20.8 | 100.0 | |
| Gisagara | 41.1 38.3 100.0 | | 100.0 | 31.3 | 31.3 | 82.9 | 41.9 | 35.1 | 99.9 | |
| Nyaruguru | 64.5 | | | 53.8 | 53.8 53.8 92.3 | | 61.4 | 60.9 | 99.6 | |
| Huye | 32.4 | | | 25.3 | 25.3 | 76.5 | 29.4 | 26.5 | 99.0 | |
| Nyamagabe | 46.1 | 46.1 46.0 | | 38.4 | 38.4 | 100.0 | 42.3 | 42.2 | 100.0 | |
| Ruhango | 15.5 | 14.3 | 14.3 77.8 11.5 11.5 43.5 | | 15.4 | 13.4 | 91.5 | | | |
| Muhanga | 17.0 | 15.5 | 100.0 | 11.8 | 11.8 | 100.0 | 12.2 | 10.7 | 100.0 | |
| Kamonyi | 21.1 | 19.2 | 100.0 | 16.7 | 16.7 | 80.0 | 16.2 | 14.5 | 97.9 | |
| Karongi | 47.1 | 47.0 | 100.0 | 39.3 | 39.3 | 50.0 | 42.9 | 42.9 | 93.4 | |
| Rutsiro | 41.5 | 41.5 | | 30.4 | 30.4 | | 40.3 | 40.3 | - | |
| Rubavu | 42.4 | 42.3 | 50.0 | 33.3 | 33.3 | 25.0 | 40.8 | 40.8 | 48.4 | |
| Nyabihu | 52.1 | 52.1 | | 41.9 | 41.9 | | 52.5 | 52.5 | - | |
| Ngororero | 42.5 | 42.5 | | 31.7 | 31.7 | | 43.3 | 43.3 | - | |
| Rusizi | 59.8 | 59.4 | 80.0 | 53.1 | 53.1 | 53.3 | 57.9 | 56.3 | 87.8 | |
| Nyamasheke | 63.5 | 62.9 | 100.0 | 58.4 | 58.4 | 88.9 | 60.6 | 60.2 | 99.8 | |
| Rulindo | 43.6 | 43.2 | 80.0 | 31.4 | 31.4 | 31.4 68.4 | | 39.7 | 89.7 | |
| Gakenke | 55.7 | 55.7 | | 49.3 | 49.3 | | 53.5 | 53.5 | - | |
| Musanze | 42.9 | 42.9 | | 37.3 | 37.3 | | 42.3 | 42.3 | - | |
| Burera | 43.7 | 43.7 | | 33.2 | 33.2 | | 40.7 | 40.7 | - | |
| Gicumbi | 34.1 | 33.8 | 100.0 | 26.4 | 26.4 | 66.7 | 31.7 | 31.6 | 84.7 | |
| Rwamagana | 46.1 | 45.0 | 65.5 | 34.4 | 34.4 | 32.5 | 42.5 | 41.8 | 71.8 | |
| Nyagatare | 49.8 | 46.2 | 93.3 | 34.9 | 34.9 | 71.2 | 42.9 | 40.3 | 96.7 | |
| Gatsibo | 40.1 | 38.3 | 100.0 | 29.4 | 29.4 | 69.2 | 39.6 | 37.0 | 98.7 | |
| Kayonza | 37.4 | 34.6 | 87.0 | 24.8 | 24.8 | 37.9 | 36.6 | 33.8 | 91.2 | |
| Kirehe | 47.4 | 46.7 | 90.0 | 34.9 | 34.9 | 87.0 | 46.0 | 43.9 | 97.9 | |
| Ngoma | 43.9 | 42.6 | 93.8 | 32.3 | 32.3 | 55.1 | 39.8 | 38.7 | 92.5 | |
| Bugesera | 32.1 | 30.3 | 62.2 | 27.2 | 27.2 | 41.0 | 27.9 | 26.0 | 75.3 | |
| National | 40.9 | 39.8 | 87.2 | 32.8 | 32.8 | 52.9 | 38.9 | 37.5 | 93.3 | |

Table 43: Season B 2021_Use of inorganic fertilizer by farmer type per district (%)

| | Percentage of | | | | e of plots in v | | Percentage of land under which | | | | |
|------------|---------------|------------------|-------|---------------------|-----------------|-------|--------------------------------|----------------|-------|--|--|
| | | anic fertilizers | | | ertilizer was a | | | rtilizer was a | | | |
| District | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF | | |
| Nyarugenge | 11.1 | 11.1 | | 7.8 | 7.8 | | 10.0 | 10.0 | | | |
| Gasabo | 23.8 | 22.6 | 60.0 | 17.6 | 17.6 | 17.0 | 22.5 | 21.1 | 74.1 | | |
| Kicukiro | 37.0 | 36.2 | 75.0 | 22.6 | 22.6 | 66.7 | 33.9 | 32.7 | 87.3 | | |
| Nyanza | 18.0 | 17.0 | 100.0 | 11.6 | 11.6 | 100.0 | 17.6 | 15.6 | 100.0 | | |
| Gisagara | 27.0 | 24.4 | 100.0 | 22.2 22.2 81.8 30.8 | | 21.7 | 99.9 | | | | |
| Nyaruguru | 55.5 | 54.3 | 90.0 | 50.6 | 50.6 | 84.6 | 51.4 | 50.8 | 94.3 | | |
| Huye | 18.2 | 14.7 | 100.0 | 11.7 | 11.7 | 100.0 | 17.9 | 14.4 | 100.0 | | |
| Nyamagabe | 38.1 | 38.0 | 100.0 | 24.6 | 24.6 | 75.0 | 35.5 | 35.4 | 83.4 | | |
| Ruhango | 13.4 | 12.0 | 81.8 | 9.4 | 9.4 | 37.5 | 12.1 | 9.8 | 97.5 | | |
| Muhanga | 16.7 | 15.6 | 100.0 | 12.9 | 12.9 | 100.0 | 14.0 | 13.3 | 100.0 | | |
| Kamonyi | 12.3 | 11.2 | 87.5 | 9.9 | 9.9 | 73.3 | 11.2 | 10.2 | 96.0 | | |
| Karongi | 29.9 | 29.7 | 100.0 | 22.7 | 22.7 | 50.0 | 27.2 | 27.2 | 93.7 | | |
| Rutsiro | 41.6 | 41.6 | | 35.1 | 35.1 | | 38.6 | 38.6 | | | |
| Rubavu | 50.3 | 50.3 | 50.0 | 42.0 | 42.0 | 33.3 | 54.3 | 54.3 | 58.8 | | |
| Nyabihu | 72.3 | 72.3 | | 54.6 | 54.6 | | 69.2 | 69.2 | | | |
| Ngororero | 47.2 | 47.2 | | 40.2 | 40.2 | | 46.3 | 46.3 | | | |
| Rusizi | 35.3 | 34.1 | 90.0 | 30.4 | 30.4 | 64.3 | 35.7 | 31.9 | 98.9 | | |
| Nyamasheke | 49.6 | 48.7 | 100.0 | 47.0 | 47.0 | 100.0 | 43.2 | 42.2 | 100.0 | | |
| Rulindo | 25.4 | 24.5 | 100.0 | 18.5 | 18.5 | 90.9 | 21.2 | 20.9 | 98.1 | | |
| Gakenke | 45.6 | 45.6 | | 42.6 | 42.6 | | 43.3 | 43.3 | | | |
| Musanze | 50.6 | 50.6 | | 45.0 | 45.0 | | 57.7 | 57.7 | | | |
| Burera | 35.8 | 35.8 | | 27.8 | 27.8 | | 33.6 | 33.6 | | | |
| Gicumbi | 30.2 | 29.8 | 100.0 | 23.3 | 23.3 | 81.8 | 27.4 | 27.3 | 87.0 | | |
| Rwamagana | 34.6 | 33.6 | 55.6 | 27.0 | 27.0 | 33.0 | 31.1 | 30.3 | 71.0 | | |
| Nyagatare | 47.6 | 45.9 | 71.8 | 31.8 | 31.8 | 58.2 | 44.6 | 43.1 | 90.3 | | |
| Gatsibo | 28.1 | 26.6 | 79.0 | 19.6 | 19.6 | 46.9 | 28.2 | 25.6 | 89.6 | | |
| Kayonza | 32.3 | 30.0 | 80.0 | 20.8 | 20.8 | 32.0 | 31.9 | 30.0 | 88.3 | | |
| Kirehe | 24.4 | 23.6 | 80.0 | 17.9 | 17.9 | 91.7 | 26.4 | 23.0 | 97.0 | | |
| Ngoma | 15.2 | 13.3 | 87.5 | 8.7 | 8.7 | 45.1 | 13.8 | 12.1 | 91.8 | | |
| Bugesera | 31.6 | 30.0 | 58.3 | 24.0 | 24.0 | 36.4 | 27.0 | 25.1 | 76.8 | | |
| National | 32.7 | 31.8 | 78.5 | 26.2 | 26.2 | 50.0 | 31.5 | 30.0 | 92.1 | | |

Table 44: Season C 2021_Use of inorganic fertilizer per district (%)

| | Percentage of | | | | e of plots in | | Percentage of land under which | | | |
|------------|---------------|-----------------|-------|--------------|-----------------|---------|--------------------------------|-----------------|---------|--|
| | inorga | anic fertilizer | | inorganic fe | ertilizer was a | applied | inorganic fe | ertilizer was a | applied | |
| District | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE | |
| Nyarugenge | 69.1 | 68.4 | 69.6 | 51.8 | 51.7 | 60.7 | 68.9 | 69.0 | 59.5 | |
| Gasabo | 87.5 | 70.8 | 93.8 | 70.8 | 70.7 | 94.0 | 73.2 | 73.0 | 98.1 | |
| Kicukiro | 69.6 | 62.5 | 73.3 | 51.6 | 51.5 | 73.3 | 60.8 | 60.4 | 76.6 | |
| Nyanza | 50.4 | 32.0 | 55.3 | 34.7 | 34.5 | 54.9 | 40.3 | 39.9 | 69.7 | |
| Gisagara | 56.3 | 42.9 | 61.0 | 55.2 | 55.2 | 62.3 | 48.6 | 48.5 | 60.3 | |
| Nyaruguru | 47.1 | 40.8 | 51.4 | 39.1 | 39.1 | 52.1 | 45.9 | 45.6 | 85.5 | |
| Huye | 61.6 | 48.4 | 66.7 | 39.6 | 39.5 | 67.1 | 46.8 | 46.6 | 61.6 | |
| Nyamagabe | 55.1 | 23.8 | 68.8 | 17.9 | 17.6 | 71.2 | 23.6 | 22.8 | 86.6 | |
| Ruhango | 45.5 | 25.0 | 52.6 | 20.0 | 19.8 | 52.6 | 20.6 | 20.0 | 78.5 | |
| Muhanga | 52.2 | 18.8 | 65.1 | 22.6 | 22.4 | 64.0 | 22.1 | 21.7 | 66.1 | |
| Kamonyi | 70.7 | 41.7 | 81.4 | 38.5 | 38.4 | 79.4 | 41.1 | 40.6 | 90.8 | |
| Karongi | 63.4 | 23.1 | 72.4 | 19.9 | 19.3 | 72.9 | 29.8 | 24.2 | 94.8 | |
| Rutsiro | 41.9 | 30.0 | 45.5 | 16.0 | 15.6 | 45.5 | 31.1 | 25.6 | 88.7 | |
| Rubavu | 89.4 | 86.7 | 93.8 | 88.3 | 88.3 | 93.8 | 92.8 | 93.1 | 56.9 | |
| Nyabihu | 89.3 | 83.9 | 98.5 | 81.6 | 81.6 | 98.6 | 84.4 | 84.4 | 99.7 | |
| Ngororero | 15.9 | 12.5 | 17.9 | 5.1 | 5.0 | 16.7 | 27.3 | 27.4 | 12.1 | |
| Rusizi | 94.9 | 90.0 | 97.9 | 80.7 | 80.6 | 96.0 | 93.5 | 93.6 | 90.8 | |
| Nyamasheke | 36.7 | 50.0 | 35.0 | 42.4 | 42.5 | 36.6 | 42.5 | 42.6 | 39.7 | |
| Rulindo | 78.1 | 68.0 | 84.6 | 69.5 | 69.4 | 85.0 | 75.0 | 75.0 | 86.1 | |
| Gakenke | 62.2 | 59.5 | 63.5 | 52.4 | 52.4 | 62.9 | 61.3 | 61.4 | 51.7 | |
| Musanze | 85.8 | 78.9 | 92.9 | 82.0 | 81.9 | 93.7 | 88.1 | 88.0 | 98.8 | |
| Burera | 94.4 | 91.5 | 100.0 | 90.0 | 90.0 | 100.0 | 91.6 | 91.6 | 100.0 | |
| Gicumbi | 82.9 | 67.7 | 92.2 | 83.7 | 83.7 | 92.7 | 71.0 | 70.1 | 99.4 | |
| Rwamagana | 83.3 | 81.8 | 83.8 | 78.9 | 78.8 | 81.9 | 83.8 | 83.8 | 79.9 | |
| Nyagatare | 63.0 | 60.9 | 64.5 | 59.5 | 59.5 | 61.8 | 75.8 | 75.7 | 87.4 | |
| Gatsibo | 71.1 | 62.5 | 73.3 | 69.1 | 69.0 | 73.3 | 70.9 | 70.8 | 75.7 | |
| Kayonza | 81.7 | 72.7 | 83.3 | 63.8 | 63.5 | 84.6 | 73.5 | 69.5 | 98.3 | |
| Kirehe | 51.1 | 50.0 | 51.4 | 50.0 | 49.9 | 51.4 | 48.9 | 48.4 | 68.3 | |
| Ngoma | 62.7 | 50.0 | 65.1 | 41.9 | 41.1 | 65.2 | 51.0 | 46.1 | 82.1 | |
| Bugesera | 46.6 | 22.6 | 64.3 | 27.6 | 27.4 | 66.7 | 19.9 | 19.3 | 53.9 | |
| National | 68.3 | 63.1 | 71.2 | 55.8 | 55.7 | 71.2 | 71.1 | 71.0 | 83.8 | |

Table 45: Percentage of farmers by source of inorganic fertilizers per district in Season A 2021

| | Government | Agro | NGOs/ | | Agriculture | Other | |
|------------|--------------------|---------|-----------|--------|-------------|--------|-------|
| District | (MINAGRI/RAB/NAEB) | dealers | Companies | Market | cooperative | source | Total |
| Nyarugenge | 11.4 | 65.7 | 2.9 | 14.3 | - | 5.7 | 100.0 |
| Gasabo | 14.1 | 82.6 | 1.1 | - | 2.2 | - | 100.0 |
| Kicukiro | 3.2 | 77.7 | 1.1 | 17.0 | 1.1 | - | 100.0 |
| Nyanza | 3.5 | 9.6 | 78.9 | 1.8 | 2.6 | 3.5 | 100.0 |
| Gisagara | 4.5 | 24.0 | 58.5 | 4.0 | 7.0 | 2.0 | 100.0 |
| Nyaruguru | 1.8 | 22.0 | 70.4 | 4.9 | 0.9 | - | 100.0 |
| Huye | 2.0 | 39.2 | 54.2 | 3.3 | 1.3 | - | 100.0 |
| Nyamagabe | 1.0 | 47.2 | 40.4 | 5.7 | 5.7 | - | 100.0 |
| Ruhango | 3.8 | 65.4 | 10.3 | 12.8 | 6.4 | 1.3 | 100.0 |
| Muhanga | 2.6 | 44.2 | 26.0 | 2.6 | 22.1 | 2.6 | 100.0 |
| Kamonyi | 3.6 | 50.9 | 25.5 | 4.5 | 11.8 | 3.6 | 100.0 |
| Karongi | 12.9 | 16.3 | 66.5 | 2.9 | 1.4 | - | 100.0 |
| Rutsiro | 9.3 | 51.9 | 33.3 | 2.5 | 1.9 | 1.2 | 100.0 |
| Rubavu | 1.2 | 76.4 | 16.1 | 6.2 | - | - | 100.0 |
| Nyabihu | 0.4 | 79.0 | 17.0 | 1.3 | 1.7 | 0.4 | 100.0 |
| Ngororero | 3.3 | 33.8 | 56.8 | 5.2 | 0.9 | - | 100.0 |
| Rusizi | 1.7 | 38.9 | 53.8 | 5.3 | 0.3 | - | 100.0 |
| Nyamasheke | 2.8 | 10.5 | 85.3 | 0.7 | 0.7 | - | 100.0 |
| Rulindo | 10.2 | 64.5 | 22.8 | 2.0 | 0.5 | - | 100.0 |
| Gakenke | 0.9 | 73.0 | 18.1 | 4.9 | 2.3 | 0.9 | 100.0 |
| Musanze | 3.2 | 88.6 | 7.8 | 0.5 | - | - | 100.0 |
| Burera | - | 83.8 | 11.4 | 0.4 | 4.4 | - | 100.0 |
| Gicumbi | 2.5 | 72.2 | 19.2 | 5.1 | 0.5 | 0.5 | 100.0 |
| Rwamagana | 1.5 | 35.3 | 54.4 | 3.3 | 4.8 | 0.7 | 100.0 |
| Nyagatare | 5.0 | 55.1 | 28.6 | 3.0 | 8.0 | 0.3 | 100.0 |
| Gatsibo | 2.6 | 31.5 | 60.7 | 1.9 | 3.0 | 0.4 | 100.0 |
| Kayonza | 2.5 | 24.2 | 64.6 | 7.5 | 1.2 | - | 100.0 |
| Kirehe | 3.9 | 16.1 | 65.9 | 2.9 | 10.0 | 1.3 | 100.0 |
| Ngoma | 2.5 | 24.8 | 59.6 | 5.3 | 5.3 | 2.5 | 100.0 |
| Bugesera | 7.5 | 46.2 | 32.1 | 2.8 | 11.3 | - | 100.0 |
| National | 3.6 | 46.0 | 42.2 | 3.8 | 3.7 | 0.7 | 100.0 |

Table 46: Percentage of farmers by source of inorganic fertilizers per district in Season B 2021

| | Government | Agro | NGOs/ | • | Agriculture | Other | |
|--------------|--------------------|---------|-----------|--------|-------------|--------|-------|
| District | (MINAGRI/RAB/NAEB) | dealers | Companies | Market | cooperative | source | Total |
| Nyarugenge | 4.4 | 87.0 | - | 8.7 | - | - | 100.0 |
| Gasabo | 18.7 | 62.7 | - | 13.3 | 4.0 | 1.3 | 100.0 |
| Kicukiro | 1.3 | 81.6 | 6.6 | 10.5 | - | - | 100.0 |
| Nyanza | 9.3 | 21.7 | 57.7 | 1.0 | 6.2 | 4.1 | 100.0 |
| Gisagara | 7.1 | 22.8 | 46.5 | 12.6 | 11.0 | - | 100.0 |
| Nyaruguru | 5.0 | 12.3 | 73.2 | 6.7 | 2.2 | 0.6 | 100.0 |
| Huye | 6.0 | 55.4 | 31.3 | 6.0 | - | 1.2 | 100.0 |
| Nyamagabe | 0.6 | 38.9 | 49.4 | 6.8 | 4.3 | - | 100.0 |
| Ruhango | 11.0 | 42.5 | 12.3 | 9.6 | 24.7 | - | 100.0 |
| Muhanga | 1.5 | 35.3 | 39.7 | 14.7 | 8.8 | - | 100.0 |
| Kamonyi | 9.1 | 60.6 | 22.7 | - | 7.6 | - | 100.0 |
| Karongi | 12.7 | 34.8 | 50.0 | 0.9 | 1.7 | - | 100.0 |
| Rutsiro | 2.0 | 54.3 | 42.4 | 1.3 | - | - | 100.0 |
| Rubavu | 1.5 | 75.0 | 13.3 | 9.7 | 0.5 | - | 100.0 |
| Nyabihu | - | 82.6 | 17.1 | 0.4 | - | - | 100.0 |
| Ngororero | 2.3 | 43.8 | 53.0 | 0.9 | - | - | 100.0 |
| Rusizi | 4.2 | 15.8 | 72.1 | 7.3 | 0.6 | - | 100.0 |
| Nyamasheke | 1.3 | 19.0 | 79.7 | - | - | - | 100.0 |
| Rulindo | - | 71.4 | 17.1 | 9.5 | 1.0 | 1.0 | 100.0 |
| Gakenke | 2.6 | 61.6 | 27.6 | 6.0 | 1.9 | 0.4 | 100.0 |
| Musanze | - | 87.0 | 8.4 | 2.5 | 2.1 | - | 100.0 |
| Burera | 0.6 | 78.7 | 9.6 | 2.3 | 9.0 | - | 100.0 |
| Gicumbi | 5.2 | 86.2 | 3.5 | 4.6 | 0.6 | - | 100.0 |
| Rwamagana | 4.0 | 44.1 | 42.1 | 6.9 | 2.5 | 0.5 | 100.0 |
| Nyagatare | 1.4 | 48.0 | 37.4 | 8.5 | 3.9 | 0.7 | 100.0 |
| Gatsibo | 1.1 | 34.0 | 57.5 | 5.9 | 1.6 | - | 100.0 |
| Kayonza | 6.3 | 36.4 | 48.3 | 5.6 | 3.5 | - | 100.0 |
| Kirehe | 1.8 | 28.7 | 48.8 | 9.8 | 9.2 | 1.8 | 100.0 |
| Ngoma | 8.3 | 24.0 | 40.6 | 22.9 | 3.1 | 1.0 | 100.0 |
| Bugesera | 4.4 | 52.7 | 31.5 | 6.9 | 3.9 | 0.5 | 100.0 |
| National | 3.5 | 50.3 | 36.9 | 5.9 | 3.1 | 0.4 | 100.0 |
| Course: MICI | 0.4.0.0004 | | · | | · | · | |

Table 47: Percentage of farmers by source of inorganic fertilizers per district in Season C 2021

| | Government | Agro | NGOs | • | Agricultur e | Other | |
|------------|--------------------|---------|------------|--------|---------------------|--------|-------|
| District | (MINAGRI/RAB/NAEB) | dealers | /Companies | Market | cooperative | source | Total |
| Nyarugenge | 3.3 | 63.3 | 3.3 | 26.7 | 3.3 | - | 100 |
| Gasabo | 1.3 | 74.4 | - | 15.4 | 9.0 | - | 100 |
| Kicukiro | - | 81.3 | 6.3 | 12.5 | - | - | 100 |
| Nyanza | - | 25.0 | 38.3 | 26.7 | 3.3 | 6.7 | 100 |
| Gisagara | 2.2 | 39.1 | 17.4 | 17.4 | 23.9 | - | 100 |
| Nyaruguru | 14.3 | 32.1 | 26.8 | 25.0 | 1.8 | - | 100 |
| Huye | 7.3 | 47.8 | 30.4 | 11.6 | 2.9 | - | 100 |
| Nyamagabe | - | 65.8 | 29.0 | 5.3 | - | - | 100 |
| Ruhango | - | 54.3 | 11.4 | 31.4 | 2.9 | - | 100 |
| Muhanga | - | 25.0 | 8.3 | 36.7 | 30.0 | - | 100 |
| Kamonyi | - | 67.4 | 5.3 | 4.2 | 23.2 | - | 100 |
| Karongi | - | 82.2 | 13.3 | 2.2 | 2.2 | - | 100 |
| Rutsiro | - | 88.9 | 5.6 | 5.6 | - | - | 100 |
| Rubavu | - | 91.8 | 2.7 | 1.8 | 3.6 | - | 100 |
| Nyabihu | 0.6 | 91.9 | 5.6 | 1.9 | - | - | 100 |
| Ngororero | - | 85.7 | 14.3 | - | - | - | 100 |
| Rusizi | 8.1 | 17.6 | 62.2 | 10.8 | - | 1.4 | 100 |
| Nyamasheke | 12.1 | 45.5 | 36.4 | 3.0 | - | 3.0 | 100 |
| Rulindo | - | 33.3 | 5.9 | 5.9 | 54.9 | - | 100 |
| Gakenke | - | 63.8 | 16.3 | 2.5 | 17.5 | - | 100 |
| Musanze | - | 90.2 | 4.9 | 2.5 | 2.5 | - | 100 |
| Burera | 1.3 | 79.1 | 3.3 | 3.9 | 12.4 | - | 100 |
| Gicumbi | - | 70.6 | 27.9 | 1.5 | - | - | 100 |
| Rwamagana | - | 70.7 | 9.3 | 20.0 | - | - | 100 |
| Nyagatare | - | 47.1 | 2.9 | 38.2 | 11.8 | - | 100 |
| Gatsibo | - | 70.4 | 18.5 | 7.4 | 3.7 | - | 100 |
| Kayonza | 1.7 | 65.5 | 25.9 | 6.9 | - | - | 100 |
| Kirehe | - | 58.3 | 12.5 | 25.0 | 4.2 | - | 100 |
| Ngoma | 2.1 | 34.0 | 40.4 | 23.4 | - | - | 100 |
| Bugesera | - | 76.5 | 14.7 | 5.9 | 2.9 | - | 100 |
| National | 1.7 | 64.4 | 15.1 | 10.6 | 7.8 | 0.3 | 100 |

Table 48: Source of inorganic fertilizer by type of fertilizer in Season A 2021 (%)

| | Government | | | | | | |
|-------------------------------------|---------------|---------|-----------|--------|-------------|--------|-------|
| | (MINAGRI/RAB/ | Agro | NGOs/ | | Agriculture | Other | |
| Fertilizer name | NAEB) | dealers | Companies | Market | cooperative | source | Total |
| NPK 17-17-17 | 4.9 | 62.6 | 22.1 | 3.9 | 5.8 | 8.0 | 100.0 |
| NPK 20-10-10 | 30.8 | 23.1 | 30.8 | - | 7.7 | 7.7 | 100.0 |
| NPK 25-5-5 | 66.7 | - | 33.3 | - | - | - | 100.0 |
| NPK 22-6-12 | 57.1 | 14.3 | 4.8 | - | 23.8 | - | 100.0 |
| Other NPK | 3.0 | 78.8 | 15.2 | - | 3.0 | - | 100.0 |
| Urea | 3.4 | 41.5 | 47.1 | 3.5 | 3.8 | 0.6 | 100.0 |
| liquid urea (Mbonea Majimaji) | - | 76.6 | 14.9 | 6.4 | 2.1 | - | 100.0 |
| DAP | 3.1 | 42.1 | 48.8 | 2.8 | 2.8 | 0.4 | 100.0 |
| TSP | 100.0 | _ | - | - | - | - | 100.0 |
| KCL/MOP | 25.0 | 25.0 | - | - | 50.0 | - | 100.0 |
| Omax | - | 87.5 | 12.5 | - | - | - | 100.0 |
| Winner | - | 100.0 | - | - | - | - | 100.0 |
| Yara Viva | 34.4 | 37.5 | 9.4 | - | 18.8 | - | 100.0 |
| Amidas | 2.1 | 63.8 | 12.8 | 2.1 | 17.0 | 2.1 | 100.0 |
| Cereal | 5.5 | 53.8 | 20.9 | 1.1 | 15.4 | 3.3 | 100.0 |
| Boaster | - | 40.0 | 60.0 | - | - | - | 100.0 |
| DI Grow | - | 81.0 | 9.5 | 4.8 | 4.8 | - | 100.0 |
| Dyna gro | 100.0 | - | - | - | - | - | 100.0 |
| Other type of fertilizer (specify). | 11.7 | 65.0 | 8.3 | 8.3 | 6.7 | - | 100.0 |
| Rhizobium | - | 100.0 | - | - | - | - | 100.0 |
| Total | 3.8 | 45.0 | 43.6 | 3.2 | 3.9 | 0.6 | 100.0 |

Table 49: Source of inorganic fertilizer by type of fertilizer in Season B 2021

| | Government | | | | | | |
|-------------------------------|---------------|---------|-----------|--------|-------------|--------|-------|
| | (MINAGRI/RAB/ | Agro | NGOs/ | | Agriculture | Other | |
| Fertilizer name | NAEB) | dealers | Companies | Market | cooperative | source | Total |
| NPK 17-17-17 | 2.7 | 65.9 | 23.0 | 3.9 | 4.2 | 0.3 | 100.0 |
| NPK 20-10-10 | 68.6 | 11.4 | 8.6 | 2.9 | 8.6 | - | 100.0 |
| NPK 25-5-5 | 48.2 | 7.4 | 14.8 | - | 18.5 | 11.1 | 100.0 |
| NPK 22-6-12 | 65.0 | 12.5 | 12.5 | 2.5 | 7.5 | - | 100.0 |
| Other NPK | 2.6 | 92.3 | - | - | 5.1 | - | 100.0 |
| Urea | 2.2 | 47.2 | 39.8 | 6.9 | 3.7 | 0.4 | 100.0 |
| liquid urea (Mbonea Majimaji) | - | 81.6 | 11.8 | 4.0 | 2.6 | - | 100.0 |
| DAP | 1.9 | 46.6 | 44.3 | 4.4 | 2.7 | 0.2 | 100.0 |
| TSP | - | - | 100.0 | - | - | - | 100.0 |
| KCL/MOP | - | 88.9 | 11.1 | - | - | - | 100.0 |
| Omax | - | 67.9 | 32.1 | - | - | - | 100.0 |
| Winner | - | 71.4 | - | 14.3 | 14.3 | - | 100.0 |
| Yara Viva | 6.3 | 87.5 | - | 3.1 | 3.1 | - | 100.0 |
| Amidas | - | 38.0 | 20.0 | 8.0 | 34.0 | - | 100.0 |
| Cereal | 3.7 | 38.9 | 18.5 | 7.4 | 31.5 | - | 100.0 |
| Boaster | - | 100.0 | - | - | - | - | 100.0 |
| DI Grow | - | 70.8 | 8.3 | 8.3 | 12.5 | - | 100.0 |
| Other type of fertilizer | 1.9 | 75.9 | 16.7 | 3.7 | 1.9 | - | 100.0 |
| National | 2.9 | 51.0 | 36.9 | 5.1 | 3.9 | 0.3 | 100.0 |

Table 50: Source of inorganic fertilizer by type of fertilizer in Season C 2021 (%)

| | | 71 | | | . , | | |
|------------------------------------|---------------|---------|-----------|--------|-------------|--------|-------|
| | Government | | | | | | |
| | (MINAGRI/RAB/ | Agro | NGOs/ | | Agriculture | Other | |
| Fertilizer name | NAEB) | dealers | Companies | Market | cooperative | source | Total |
| NPK 17-17-17 | 1.9 | 68.4 | 13.1 | 7.5 | 8.7 | 0.4 | 100 |
| NPK 20-10-10 | - | 90.9 | 9.1 | - | - | - | 100 |
| NPK 25-5-5 | - | 100.0 | - | - | - | - | 100 |
| NPK 22-6-12 | - | - | - | 100.0 | - | - | 100 |
| Other NPK | 3.3 | 80.0 | 3.3 | 6.7 | 6.7 | - | 100 |
| Urea | 1.1 | 59.2 | 18.0 | 14.9 | 6.0 | 0.7 | 100 |
| liquid urea (Mbonea Majimaji) | - | 63.5 | 29.7 | 1.4 | 5.4 | - | 100 |
| DAP | 1.8 | 61.3 | 15.6 | 12.7 | 8.0 | 0.5 | 100 |
| Omax | - | 65.6 | 3.1 | 6.3 | 25.0 | - | 100 |
| Winner | - | 63.2 | 15.8 | - | 21.1 | - | 100 |
| Yara Viva | - | 100.0 | - | - | - | - | 100 |
| Amidas | - | 25.0 | - | 7.5 | 8.7 | 0.4 | 100 |
| Cereal | - | 25.0 | - | 50.0 | 25.0 | - | 100 |
| Boaster | - | 100.0 | - | - | - | - | 100 |
| DI Grow | 7.7 | 69.2 | 3.9 | 19.2 | - | - | 100 |
| Dyna gro | - | 64.1 | 15.1 | 11.0 | 7.7 | 0.5 | 100 |
| Other type of fertilizer (specify) | 1.6 | 54.7 | 15.6 | 25.0 | 3.1 | - | 100 |
| National | 1.6 | 64.1 | 15.1 | 11.0 | 7.7 | 0.5 | 100 |

Table 51: Type of inorganic fertilizer, per Season and district (%)

| | Season A | | | | | | . 00 | Season B | | | | | | Season C | | | | | | | | | | |
|------------|--------------|--------------|------------|------------|-------------|------------|---------|----------|--------------|--------------|------------|------|------------|----------|---------|--------|--------------|--------------|------------|-------|-------------|------|---------|-------------------|
| | | | | Ocasi | JIIA | | | | | | | Ocas | OII D | | | | | | | Ocasc | 110 | | | |
| District | VPK 17-17-17 | VPK 20-10-10 | NPK 25-5-5 | Urea | -iquid urea | DAP | KCL/MOP | Others | NPK 17-17-17 | NPK 20-10-10 | VPK 25-5-5 | Urea | iquid urea | DAP | KCL/MOP | Others | NPK 17-17-17 | VPK 20-10-10 | NPK 25-5-5 | Urea | -iquid urea | DAP | KCL/MOP | Suppliers 13.6 |
| Nyarugenge | 14.3 | | | <u>5</u> 0 | 3.6 | <u>2</u> 5 | | 7.1 | 15.4 | | | 48.7 | | 30.8 | | 5.1 | 13.6 | | | 52.3 | | 22.7 | 11.4 | 13.6 |
| Gasabo | 13.6 | _ | _ | 48.1 | - | 37.7 | _ | 0.6 | 13.6 | _ | _ | 49.2 | _ | 34.8 | _ | 2.5 | 23.8 | _ | _ | 44.4 | _ | 28.8 | 3.1 | 23.8 |
| Kicukiro | 7.3 | _ | _ | 44.2 | _ | 41.8 | _ | 6.7 | 11.6 | _ | _ | 38.8 | _ | 42.6 | _ | 7 | 20.7 | _ | _ | 41.4 | _ | 31 | 6.9 | 20.7 |
| Nyanza | 5.7 | 0.5 | 0.5 | 43.9 | _ | 49.1 | _ | 0.3 | 11.9 | _ | 7.5 | 38.8 | 0.6 | 38.1 | _ | 3.1 | 26.4 | _ | _ | 42.7 | _ | 22.7 | 8.2 | 26.4 |
| Gisagara | 9.2 | _ | _ | 41.6 | _ | 43.9 | _ | 5.3 | 9.3 | 1.5 | _ | 41.7 | _ | 34.8 | _ | 12.8 | 30.7 | _ | _ | 38.7 | _ | 26.7 | 4 | 30.7 |
| Nyaruguru | 4.9 | _ | _ | 39.9 | _ | 54.5 | _ | 0.7 | 8.9 | 0.7 | 0.7 | 30.9 | _ | 58.4 | _ | 0.4 | 64.6 | _ | _ | 18.5 | _ | 16.9 | _ | 64.6 |
| Huye | 12.7 | 0.4 | _ | 40.6 | _ | 38.2 | _ | 8.1 | 23.1 | 3 | 0.8 | 40.3 | _ | 29.1 | _ | 3.7 | 21.3 | 1.9 | _ | 42.6 | _ | 34.3 | _ | 21.3 |
| Nyamagabe | 15 | _ | _ | 36 | _ | 47.4 | _ | 1.6 | 19.9 | 1.7 | _ | 32.1 | _ | 43.2 | _ | 3.1 | 51.8 | _ | _ | 30.4 | _ | 17.9 | 0 | 51.8 |
| Ruhango | 16.3 | - | - | 45.5 | - | 33.3 | - | 4.9 | 25 | - | - | 39.8 | - | 30.6 | 0.9 | 3.7 | 34.5 | - | - | 56.9 | - | 8.6 | - | 34.5 |
| Muhanga | 11.1 | _ | _ | 35.6 | _ | 45.2 | _ | 8.1 | 17 | 2 | _ | 31 | _ | 50 | _ | - | 41.9 | _ | _ | 33.7 | 1.2 | 19.8 | 3.5 | 41.9 |
| Kamonyi | 13.3 | 1.2 | _ | 43.4 | _ | 35.3 | _ | 6.8 | 21.6 | _ | _ | 41.4 | _ | 31.5 | 0.9 | 4.5 | 19.7 | _ | _ | 51.5 | _ | 26.6 | 2.3 | 19.7 |
| Karongi | 7 | - | - | 41 | - | 48.6 | - | 3.4 | 14.4 | - | - | 24.4 | - | 53.1 | - | 8.1 | 60 | - | - | 23.6 | - | 16.4 | - | 60 |
| Rutsiro | 28.6 | - | - | 29 | 0.4 | 35.5 | - | 6.5 | 33.3 | - | - | 21.3 | 0.5 | 43.5 | - | 1.4 | 72.7 | - | - | 27.3 | - | - | - | 72.7 |
| Rubavu | 46.8 | - | - | 21.9 | 3.8 | 26.6 | - | 0.9 | 40.3 | - | 0.3 | 20.6 | 7.5 | 26.4 | - | 4.9 | 69 | - | - | 8.9 | 5.7 | 11.4 | 5.1 | 69 |
| Nyabihu | 35.8 | - | - | 25.3 | 5 | 30 | - | 3.9 | 36.4 | 0.2 | - | 24 | 5 | 24 | 0.2 | 10.2 | 60.2 | - | - | 10 | 10.3 | 10.3 | 9.2 | 60.2 |
| Ngororero | 8.5 | - | - | 40 | - | 51.2 | - | 0.3 | 6.3 | - | - | 40.6 | - | 53.1 | - | - | 50.0 | - | | 50.0 | - | - | - | 50.0 |
| Rusizi | 9.9 | 0.4 | - | 40.9 | 0.2 | 47.8 | - | 8.0 | 16.6 | 2.2 | - | 19.7 | 0.9 | 55 | 0.4 | 5.3 | 34.1 | - | - | 34.1 | 64 | 17.9 | 9.3 | 34.1 |
| Nyamasheke | 7.4 | - | - | 37.2 | - | 54.8 | - | 0.6 | 8.5 | - | 0.3 | 21.3 | - | 65.2 | - | 4.7 | 42.0 | - | - | 40.0 | 20 | 140 | 2.0 | 42.0 |
| Rulindo | 12.2 | 0.3 | - | 41.6 | - | 42.8 | 0.3 | 2.8 | 19.1 | 1 | - | 37.2 | - | 36.7 | 1.5 | 4.5 | 562 | - | - | 27.4 | 1.4 | 12.3 | 2.7 | 562 |
| Gakenke | 3.6 | - | - | 38.5 | 0.2 | 56.5 | - | 1.2 | 8.1 | 0.7 | 0.7 | 30.6 | 0.2 | 58.9 | - | 8.0 | 55.1 | - | - | 18.7 | 0.9 | 17.8 | 7.5 | 55.1 |
| Musanze | 25.1 | - | - | 36.5 | 0.9 | 35.6 | - | 1.9 | 35.6 | - | - | 21.7 | 3 | 33.3 | - | 6.3 | 56.9 | - | - | 11.9 | 0.9 | 17.9 | 12.4 | 56.9 |
| Burera | 17.9 | - | - | 31.1 | 1.7 | 47.8 | - | 1.5 | 34.4 | - | - | 15.9 | 2.2 | 45.4 | - | 2.2 | 66.7 | - | - | 3.3 | 3.8 | 9.4 | 16.9 | 66.7 |
| Gicumbi | 22.7 | 0.3 | 0.3 | 33.7 | - | 42.7 | - | 0.3 | 21 | - | - | 37.8 | 0.4 | 40.3 | - | 0.4 | 64.6 | - | - | 13.5 | 7.3 | 13.5 | 1.0 | 64.6 |
| Rwamagana | 10.7 | - | 0.2 | 43.5 | - | 44 | - | 1.6 | 18 | - | - | 39 | - | 36.2 | - | 6.9 | 21.4 | - | - | 42.1 | - | 35.9 | 0.7 | 21.4 |
| Nyagatare | 5.6 | - | - | 46.2 | - | 40.8 | - | 7.4 | 6.7 | - | - | 46.4 | 0.2 | 43.3 | - | 3.4 | 28.8 | - | - | 40.9 | - | 18.2 | 12.1 | 28.8 |
| Gatsibo | 9.5 | 0.2 | - | 43.9 | 0.6 | 41.2 | - | 4.6 | 14.4 | 0.3 | - | 43.9 | - | 39.6 | - | 1.8 | 29.8 | - | - | 40.4 | - | 27.7 | 2.1 | 29.8 |
| Kayonza | 11.2 | - | - | 41.5 | - | 40.4 | - | 6.9 | 23.7 | 8.0 | 0.4 | 36.2 | - | 31.9 | 8.0 | 6.2 | 32.8 | - | - | 42.9 | 1.7 | 14.3 | 8.4 | 32.8 |
| Kirehe | 3.1 | 0.7 | - | 39.2 | 0.5 | 50.3 | - | 6.2 | 7 | - | 2.1 | 40.8 | 0.7 | 41.1 | - | 8.4 | 36.8 | - | - | 36.8 | - | 26.3 | - | 36.8 |
| Ngoma | 4 | - | - | 47.4 | - | 46.5 | - | 2.1 | 15.8 | 2.5 | - | 41.1 | 0.6 | 32.9 | - | 7 | 3.0 | 8.1 | 1.0 | 39.4 | 3.0 | 31.3 | 14.2 | 3.0 |
| Bugesera | 15.6 | - | - | 35.6 | - | 45.7 | - | 3.1 | 14.5 | 0.3 | - | 30.8 | - | 51.6 | - | 2.8 | 8.0 | 13 | - | 40.0 | 1.3 | 45.3 | 4.0 | 8.0 |
| National | 12 | 0.1 | - | 39.5 | 0.4 | 44.6 | - | 3.4 | 18.5 | 0.5 | 0.4 | 33.1 | 1 | 42.1 | 0.1 | 4.4 | 414 | 0.4 | 0.0 | 294 | 2.5 | 20.0 | 6.4 | 414 |

Table 52: Season A 2021_Use of pesticides by farmer type per district (%)

| | Percentage | e of farmers w | ho used | | age of plots in | | Percentage of land size in which | | | | |
|------------|------------|----------------|---------|---------|-----------------|-------|----------------------------------|---------------|-------|--|--|
| | | pesticides | | pesti | cides were us | | | cides were us | | | |
| District | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF | | |
| Nyarugenge | 21.4 | 21.4 | - | 14.1 | 14.1 | - | 17.3 | 17.3 | - | | |
| Gasabo | 21.6 | 19.2 | 83.3 | 13.5 | 13.5 | 41.9 | 18.9 | 17.5 | 74.2 | | |
| Kicukiro | 30.0 | 28.4 | 100.0 | 14.7 | 14.7 | 75.0 | 28.8 | 26.7 | 96.3 | | |
| Nyanza | 17.6 | 16.3 | 100.0 | 12.0 | 12.0 | 100.0 | 16.9 | 15.1 | 100.0 | | |
| Gisagara | 26.7 | 23.4 | 95.5 | 21.6 | 21.6 | 68.6 | 28.7 | 20.7 | 96.5 | | |
| Nyaruguru | 31.8 | 30.1 | 90.0 | 25.3 | 25.3 | 84.6 | 28.6 | 27.8 | 89.2 | | |
| Huye | 22.2 | 17.8 | 100.0 | 15.4 | 15.4 | 76.5 | 20.6 | 17.3 | 99.0 | | |
| Nyamagabe | 18.1 | 17.9 | 100.0 | 9.0 | 9.0 | 66.7 | 17.0 | 16.9 | 75.6 | | |
| Ruhango | 15.3 | 13.7 | 100.0 | 10.1 | 10.1 | 52.2 | 13.8 | 11.5 | 98.4 | | |
| Muhanga | 13.5 | 11.9 | 100.0 | 6.0 | 6.0 | 100.0 | 8.7 | 7.2 | 100.0 | | |
| Kamonyi | 21.1 | 19.4 | 91.7 | 17.6 | 17.6 | 93.3 | 16.3 | 14.6 | 97.2 | | |
| Karongi | 18.7 | 18.5 | 100.0 | 16.7 | 16.7 | 50.0 | 16.9 | 16.9 | 93.4 | | |
| Rutsiro | 18.4 | 18.4 | - | 17.6 | 17.6 | - | 19.4 | 19.4 | - | | |
| Rubavu | 44.0 | 43.6 | 75.0 | 27.1 | 27.1 | 33.3 | 41.8 | 41.8 | 50.0 | | |
| Nyabihu | 40.2 | 40.2 | - | 28.4 | 28.4 | - | 38.8 | 38.8 | - | | |
| Ngororero | 13.2 | 13.2 | - | 8.9 | 8.9 | - | 14.1 | 14.1 | - | | |
| Rusizi | 11.2 | 9.6 | 90.0 | 7.2 | 7.2 | 60.0 | 12.7 | 8.8 | 88.5 | | |
| Nyamasheke | 9.4 | 7.9 | 100.0 | 4.5 | 4.5 | 88.9 | 7.5 | 6.5 | 99.8 | | |
| Rulindo | 30.6 | 30.0 | 80.0 | 19.9 | 19.9 | 68.4 | 27.7 | 27.5 | 93.0 | | |
| Gakenke | 18.7 | 18.7 | - | 15.9 | 15.9 | - | 17.2 | 17.2 | - | | |
| Musanze | 42.9 | 42.9 | - | 34.3 | 34.3 | - | 44.3 | 44.3 | - | | |
| Burera | 38.7 | 38.7 | - | 30.0 | 30.0 | - | 37.0 | 37.0 | - | | |
| Gicumbi | 21.7 | 21.3 | 100.0 | 16.5 | 16.5 | 50.0 | 19.0 | 19.0 | 72.6 | | |
| Rwamagana | 31.8 | 29.5 | 75.9 | 20.2 | 20.2 | 35.7 | 27.5 | 26.4 | 74.9 | | |
| Nyagatare | 19.0 | 13.6 | 84.4 | 9.2 | 9.1 | 71.2 | 15.5 | 12.7 | 73.8 | | |
| Gatsibo | 22.3 | 20.3 | 89.5 | 13.1 | 13.1 | 53.8 | 23.5 | 20.2 | 98.6 | | |
| Kayonza | 16.5 | 12.2 | 91.3 | 9.2 | 9.2 | 43.6 | 15.8 | 12.0 | 92.6 | | |
| Kirehe | 17.0 | 15.8 | 90.0 | 10.4 | 10.4 | 87.0 | 16.9 | 13.7 | 97.9 | | |
| Ngoma | 16.5 | 14.5 | 93.8 | 11.2 | 11.2 | 49.0 | 17.1 | 15.5 | 91.5 | | |
| Bugesera | 16.2 | 13.3 | 64.9 | 12.1 | 12.1 | 42.4 | 14.2 | 11.7 | 76.2 | | |
| National | 22.4 | 20.9 | 87.2 | 16.0 | 16.0 | 53.8 | 20.2 | 18.5 | 90.2 | | |

Table 53: Season B 2021_ Use of pesticides by farmer type per district (%)

| | | e of farmers w | ho used | | ige of plots in | | | e of land size | |
|------------|---------|----------------|---------|---------|-----------------|-------|---------|----------------|-------|
| District | | pesticides | | | cides were us | | | cides were us | |
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 13.1 | 13.1 | | 11.3 | 11.3 | | 10.7 | 10.7 | |
| Gasabo | 18.1 | 16.1 | 80.0 | 11.9 | 11.9 | 39.6 | 17.2 | 15.6 | 76.9 |
| Kicukiro | 16.3 | 15.1 | 75.0 | 8.0 | 8.0 | 75.0 | 16.1 | 14.3 | 92.4 |
| Nyanza | 13.8 | 12.8 | 100.0 | 9.7 | 9.7 | 85.7 | 14.4 | 12.4 | 93.5 |
| Gisagara | 13.7 | 10.9 | 93.8 | 9.4 | 9.4 | 68.2 | 20.5 | 10.0 | 99.8 |
| Nyaruguru | 17.1 | 15.1 | 80.0 | 13.9 | 13.9 | 69.2 | 17.0 | 16.0 | 88.3 |
| Huye | 12.5 | 8.9 | 94.7 | 5.6 | 5.6 | 94.7 | 12.7 | 9.1 | 95.3 |
| Nyamagabe | 13.9 | 13.7 | 100.0 | 7.9 | 7.9 | 100.0 | 14.4 | 14.3 | 100.0 |
| Ruhango | 8.4 | 6.7 | 90.9 | 5.1 | 5.1 | 41.7 | 8.4 | 6.2 | 90.4 |
| Muhanga | 12.2 | 11.1 | 100.0 | 9.1 | 9.1 | 80.0 | 10.4 | 9.8 | 84.7 |
| Kamonyi | 10.4 | 9.1 | 100.0 | 8.0 | 8.0 | 93.3 | 8.8 | 7.7 | 99.3 |
| Karongi | 7.9 | 7.9 | - | 7.4 | 7.4 | - | 7.6 | 7.6 | - |
| Rutsiro | 23.7 | 23.7 | | 14.6 | 14.6 | | 23.7 | 23.7 | |
| Rubavu | 48.2 | 48.2 | 50.0 | 37.6 | 37.6 | 22.2 | 54.0 | 54.0 | 53.8 |
| Nyabihu | 58.1 | 58.1 | | 47.8 | 47.8 | | 58.4 | 58.4 | |
| Ngororero | 19.0 | 19.0 | | 14.7 | 14.7 | | 21.8 | 21.8 | |
| Rusizi | 8.2 | 6.8 | 70.0 | 5.0 | 5.0 | 50.0 | 10.3 | 5.7 | 87.0 |
| Nyamasheke | 6.6 | 4.9 | 100.0 | 3.7 | 3.7 | 88.9 | 6.3 | 4.8 | 99.1 |
| Rulindo | 17.9 | 17.1 | 80.0 | 12.4 | 12.4 | 54.6 | 14.9 | 14.7 | 71.6 |
| Gakenke | 17.2 | 17.2 | | 15.3 | 15.3 | | 15.7 | 15.7 | |
| Musanze | 56.8 | 56.8 | | 50.2 | 50.2 | | 61.3 | 61.3 | |
| Burera | 27.4 | 27.4 | | 22.1 | 22.1 | | 25.6 | 25.6 | |
| Gicumbi | 18.3 | 17.9 | 100.0 | 12.9 | 12.9 | 45.5 | 14.2 | 14.2 | 26.3 |
| Rwamagana | 19.3 | 17.0 | 66.7 | 14.9 | 14.9 | 37.9 | 16.6 | 15.5 | 73.2 |
| Nyagatare | 18.0 | 13.6 | 79.5 | 8.5 | 8.5 | 64.3 | 14.9 | 12.4 | 87.9 |
| Gatsibo | 15.6 | 14.4 | 57.9 | 8.4 | 8.4 | 28.1 | 16.4 | 13.5 | 85.2 |
| Kayonza | 15.1 | 11.8 | 85.0 | 6.3 | 6.3 | 29.9 | 14.5 | 11.9 | 86.7 |
| Kirehe | 8.7 | 7.3 | 100.0 | 5.2 | 5.1 | 66.7 | 11.0 | 7.0 | 94.7 |
| Ngoma | 6.9 | 5.0 | 81.3 | 4.4 | 4.4 | 51.0 | 6.5 | 4.7 | 89.8 |
| Bugesera | 12.6 | 9.6 | 63.9 | 6.8 | 6.7 | 38.0 | 11.1 | 8.6 | 77.5 |
| National | 17.9 | 16.6 | 79.5 | 13.0 | 13.0 | 48.2 | 16.8 | 15.1 | 89.1 |

Table 54: Season C 2021_Use of pesticides per district (%)

| | Percentage | of farmers v | who used | Percenta | ge of plots ir | n which | Percentage | of land size | in which |
|----------------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|
| | | pesticides | | pestic | ides were u | sed | pestic | ides were us | sed |
| District | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE |
| Nyarugenge | 69.1 | 73.7 | 65.2 | 56.8 | 56.8 | 57.1 | 72.4 | 72.4 | 63.3 |
| Gasabo | 68.2 | 58.3 | 71.9 | 49.5 | 49.4 | 73.1 | 66.3 | 66.1 | 80.9 |
| Kicukiro | 60.9 | 50.0 | 66.7 | 35.0 | 34.8 | 66.7 | 55.5 | 55.1 | 70.6 |
| Nyanza | 64.7 | 36.0 | 72.3 | 30.5 | 30.2 | 68.6 | 47.4 | 46.8 | 87.0 |
| Gisagara | 65.0 | 57.1 | 67.8 | 67.2 | 67.2 | 67.2 | 62.1 | 62.1 | 67.5 |
| Nyarūguru | 7.6 | 10.2 | 5.7 | 5.4 | 5.4 | 5.5 70.7 | 11.9 | 11.8 | 28.0 71.3 |
| Huye | 60.7 29.0 | 35.5 | 70.4 | 35.1 23.1 | 35.0 23.0 | 70.7 32.7 | 33.5 | 33.2 13.6 | |
| Nyamagabe | 29.0 66.2 | 14.3 40.0 | 35.4 75.4 | 49.9 | 23.0 49.8 | 32.7 75.4 | 14.4 41.3 | 40.9 | 69.7 89.1 |
| Ruhango Muhanga | 60.2 | 40.6 | 68.7 | 41.6 | 41.5 | 67.4 | 38.4 | 38.1 | 65.9 |
| Kamonyi | 77.4 | 63.9 | 82.5 | 63.9 | 63.9 | 82.4 | 67.6 | 67.4 | 89.3 |
| Karongi | 36.6 | 15.4 | 41.4 | 14.8 | 14.5 | 40.7 | 21.5 | 16.1 | 83.5 |
| Rutsiro | 23.3 | 30.0 | 21.2 | 15.7 | 15.6 | 21.2 | 30.7 | 25.6 | 84.0 |
| Rubavu | 91.1 | 89.3 | 93.8 | 92.2 | 92.2 | 93.8 | 95.5 | 95.8 | 56.9 |
| Nyabihu | 84.3 | 78.6 | 93.9 | 74.1 | 74.1 | 94.3 | 82.9 | 82.9 | 97.4 |
| Ngororero | 13.6 | 6.3 | 17.9 | 0.7 | 0.6 | 16.7 | 20.5 | 20.6 | 12.4 |
| Rusizi | 93.6 | 86.7 | 97.9 | 77.9 | 77.8 | 96.0 | 91.7 | 91.4 | 99.4 |
| Nyamasheke | 25.6 | 20.0 | 26.3 | 19.8 | 19.6 | 28.1 | 16.3 | 15.8 | 33.3 |
| Rúlindo | 68.8 | 56.0 | 76.9 | 54.4 | 54.3 | 77.5 | 60.3 | 60.2 | 83.3 |
| Gakenke | 65.4 | 59.5 | 68.2 | 75.2 | 75.2 | 68.5 | 64.0 | 64.1 | 63.1 |
| Musanze | 90.1 | 84.5 | 95.7 | 88.4 | 88.3 | 96.2 | 93.0 | 93.0 | 99.4 |
| Burera | 93.2 | 90.6 | 98.2 | 90.5 | 90.5 | 98.3 | 91.4 | 91.4 | 98.8 |
| Gicumbi | 67.1 | 45.2 | 80.4 | 61.8 | 61.8 | 80.0 | 48.5 | 47.1 | 93.6 |
| Rwamagana | 86.7 | 95.5 | 83.8 | 89.9 | 90.0 | 83.3 | 97.4 | 97.5 | 85.8 |
| Nyagatare | 64.8 | 73.9 | 58.1 | 64.0 | 64.0 | 55.9 | 80.8 | 80.7 | 83.0 |
| Gatsibo | 65.8 | 87.5 | 60.0 | 87.0 | 87.4 | 60.0 | 85.9 | 86.5 | 59.3 |
| Kayonza | 73.2 | 54.6 | 76.7 | 55.5 | 55.2 | 75.4 | 62.2 | 56.5 | 96.5 |
| Kirehe | 61.7 66.7 | 58.3 | 62.9 | 73.4 | 73.5 | 62.9 | 60.3 | 59.8 51.7 | 80.7 |
| Ngoma | 66.7 57.5 | 50.0 48.4 | 69.8 64.3 | 33.5 54.4 | 32.2 54.3 | 71.2 66.7 | 56.4 45.1 | 51.7 44.7 | 85.7 63.6 |
| Bugesera National | 65.6 | 62.7 | 67.2 | 56.2 | 54.3 56.2 | 67.0 | 71.6 | 71.5 | 82.2 |
| INGLIOITAL | 05.0 | 02.1 | 01.2 | 30.2 | 30.2 | 07.0 | 71.0 | 11.0 | 02.2 |

Table 55: Type of pesticides, per Season and district in 2021 (%)

| | | | | Seas | on A | | | | | | | Seas | son B | | | | | | | Sea | son C | | | |
|------------|---------|---------|------------|--------------|----------|--------|------|--------|---------|---------|------------|--------------|----------|--------|------|--------|---------|---------|------------|--------------|----------|--------|------|--------|
| District | Dithane | Ridomil | Dimethoate | Cypermethrin | Dursiban | Rocket | Beam | Others | Dithane | Ridomil | Dimethoate | Cypermethrin | Dursiban | Rocket | Beam | Others | Dithane | Ridomil | Dimethoate | Cypermethrin | Dursiban | Rocket | Beam | Others |
| Nyarugenge | 26.8 | - | 15.9 | 8.5 | - | 42.7 | - | 6.1 | 31.0 | - | 20.7 | 5.2 | - | 31.0 | - | 12.1 | 21.0 | - | 16.1 | 1.6 | - | 40.3 | - | 21.0 |
| Gasabo | 16.0 | 2.1 | 5.6 | 6.3 | - | 49.3 | 1.4 | 19.3 | 25.0 | 2.8 | 3.7 | 14.8 | - | 41.7 | 1.9 | 12.0 | 27.1 | 0.5 | 13.8 | 10.6 | - | 15.4 | - | 32.4 |
| Kicukiro | 5.4 | 1.1 | 3.2 | 8.6 | - | 48.4 | 1.1 | 32.2 | 19.7 | - | 9.1 | 9.1 | - | 37.9 | _ | 24.2 | 34.3 | - | 20.0 | 2.9 | - | 25.7 | - | 17.1 |
| Nyanza | 10.1 | 8.0 | 0.8 | 11.8 | - | 68.9 | 3.4 | 4.2 | 13.0 | 1.0 | 1.0 | 13.0 | - | 63.0 | 4.0 | 9.0 | 24.0 | 2.5 | 3.3 | 5.8 | - | 57.9 | - | 6.6 |
| Gisagara | 4.8 | - | 5.5 | 12.1 | - | 68.5 | 5.5 | 3.6 | 8.3 | - | 1.2 | 21.4 | - | 47.6 | 10.7 | 21.4 | 20.3 | - | 2.9 | 4.4 | - | 68.1 | - | 4.3 |
| Nyaruguru | 18.5 | - | - | 9.2 | - | 67.7 | - | 4.6 | 33.8 | 4.1 | - | 16.2 | - | 29.7 | - | 16.2 | 27.3 | - | - | 27.3 | - | 36.4 | - | 9.1 |
| Huye | 3.5 | - | 0.7 | 18.8 | - | 57.6 | 9.7 | 9.7 | 12.1 | - | - | 30.1 | - | 27.7 | 13.3 | 30.1 | 11.2 | - | 1.1 | 13.5 | - | 64.0 | - | 10.1 |
| Nyamagabe | 36.0 | 2.0 | - | 38.0 | - | 24.0 | - | - | 50.5 | 1.1 | - | 26.3 | - | 21.1 | - | 1.1 | 29.2 | - | - | 20.8 | - | 50.0 | - | - |
| Ruhango | 8.3 | 2.1 | - | 9.4 | - | 74.0 | 6.3 | -0.1 | 10.0 | - | - | 13.3 | - | 63.3 | 8.3 | 13.3 | 26.5 | 4.8 | 8.4 | 13.3 | - | 45.8 | - | 1.2 |
| Muhanga | 12.0 | 2.7 | 6.7 | 9.3 | 1.3 | 44.0 | 4.0 | 20.0 | 11.7 | 1.7 | 8.3 | 6.7 | - | 66.7 | 5.0 | 5.0 | 27.8 | 0.9 | 14.8 | 8.3 | - | 44.4 | - | 3.7 |
| Kamonyi | 19.1 | 4.0 | 5.2 | 6.9 | - | 54.9 | 1.2 | 8.7 | 26.7 | 7.9 | 3.0 | 13.9 | - | 37.6 | 2.0 | 10.9 | 29.8 | 6.1 | 5.6 | 4.6 | - | 46.5 | - | 7.6 |
| Karongi | 21.2 | - | 28.3 | 14.1 | - | 28.3 | - | 8.1 | 30.0 | - | 15.0 | 22.5 | - | 30.0 | - | 2.5 | 55.2 | - | - | 31.0 | - | 13.8 | - | 0.0 |
| Rutsiro | 55.2 | 1.0 | 1.9 | 17.1 | - | 9.5 | - | 15.3 | 61.3 | 2.5 | 1.7 | 18.5 | - | 12.6 | - | 3.4 | 50.0 | - | 5.6 | 38.9 | - | 5.6 | - | -0.0 |
| Rubavu | 34.4 | 24.9 | 19.9 | 17.1 | - | 3.5 | - | 0.2 | 33.8 | 26.4 | 21.9 | 15.0 | - | 1.9 | - | 1.0 | 31.4 | 19.3 | 22.4 | 21.6 | 0.3 | 4.2 | - | 8.0 |
| Nyabihu | 35.5 | 21.4 | 17.1 | 18.8 | - | 5.5 | - | 1.7 | 31.2 | 21.4 | 19.2 | 15.4 | - | 6.7 | - | 6.2 | 44.4 | 7.9 | 17.0 | 13.4 | - | 10.9 | - | 6.4 |
| Ngororero | 35.5 | 7.9 | 1.3 | 13.2 | - | 38.2 | - | 3.9 | 20.4 | 1.0 | 2.0 | 11.2 | - | 61.2 | - | 4.1 | - | - | - | - | - | 83.3 | - | 16.7 |
| Rusizi | 17.6 | 1.9 | 24.1 | 19.4 | - | 26.9 | 1.9 | 8.2 | 22.4 | - | 11.9 | 31.3 | - | 23.9 | - | 10.5 | 18.0 | 1.2 | 9.3 | 17.4 | - | 26.7 | - | 27.3 |
| Nyamasheke | 8.3 | 3.3 | 8.3 | 33.3 | - | 33.3 | 5.0 | 8.5 | 8.0 | 4.0 | 14.0 | 30.0 | - | 16.0 | 2.0 | 28.0 | 40.0 | - | 2.9 | 17.1 | - | 37.1 | - | 2.9 |
| Rulindo | 22.9 | 2.5 | 3.0 | 9.0 | - | 51.7 | 0.5 | 10.4 | 30.0 | 3.3 | 3.3 | 8.3 | - | 46.7 | 8.0 | 8.3 | 14.8 | 3.3 | 3.3 | 14.8 | - | 34.4 | - | 29.5 |
| Gakenke | 12.8 | 5.7 | 1.4 | 25.5 | - | 52.5 | - | 2.1 | 20.0 | 4.2 | 2.5 | 38.3 | - | 28.3 | - | 6.7 | 21.3 | 13.9 | 8.0 | 23.0 | - | 29.5 | - | 11.5 |
| Musanze | 32.1 | 5.0 | 10.4 | 9.4 | - | 39.9 | - | 3.2 | 39.3 | 8.7 | 13.6 | 15.2 | - | 15.4 | - | 7.9 | 51.0 | 5.0 | 13.4 | 18.0 | - | 9.2 | - | 3.4 |
| Burera | 30.7 | 10.4 | 7.4 | 28.2 | - | 22.7 | - | 0.6 | 38.0 | 14.8 | 3.8 | 27.9 | - | 13.9 | - | 1.7 | 44.0 | 6.7 | 13.1 | 24.8 | - | 4.7 | - | 6.7 |
| Gicumbi | 45.7 | 1.8 | 3.7 | 3.0 | - | 37.2 | - | 8.6 | 55.1 | 2.4 | - | 3.2 | - | 36.2 | - | 3.2 | 60.7 | - | - | 2.4 | - | 35.7 | - | 1.2 |
| Rwamagana | 11.6 | 1.2 | 5.1 | 14.0 | - | 51.0 | 3.9 | 13.2 | 26.3 | 1.3 | 7.6 | 9.3 | - | 25.9 | 2.5 | 29.7 | 24.7 | 1.1 | 21.9 | 14.0 | - | 20.8 | - | 17.4 |
| Nyagatare | 6.9 | 1.3 | 8.2 | 11.1 | - | 30.5 | 4.6 | 37.4 | 15.8 | 2.8 | 8.7 | 9.5 | 0.4 | 28.4 | 2.4 | 34.6 | 26.6 | - | 19.2 | 11.7 | - | 12.8 | 1.1 | 28.7 |
| Gatsibo | 13.1 | 2.0 | 9.0 | 6.6 | - | 54.5 | 2.9 | 11.9 | 20.6 | - | 3.1 | 5.6 | - | 56.9 | 1.9 | 13.7 | 34.1 | 2.3 | 6.8 | 6.8 | - | 34.1 | - | 15.9 |
| Kayonza | 17.9 | 2.2 | 10.7 | 9.4 | - | 24.1 | 3.1 | 32.6 | 23.3 | 2.1 | 7.5 | 11.0 | - | 27.4 | 4.1 | 28.8 | 36.7 | 1.8 | 7.3 | 5.5 | - | 32.1 | - | 16.5 |
| Kirehe | 6.7 | 1.8 | 7.3 | 17.6 | - | 47.3 | 6.1 | 13.2 | 18.3 | 4.8 | 13.5 | 19.1 | - | 20.6 | 7.1 | 23.8 | 22.0 | 1.7 | 18.6 | 13.6 | - | 35.6 | - | 8.5 |
| Ngoma | 10.0 | - | 8.0 | 11.3 | - | 60.0 | 4.0 | 6.7 | 23.0 | 1.2 | 12.6 | 23.0 | - | 27.6 | 4.6 | 12.6 | 29.0 | 1.9 | 14.0 | 5.6 | - | 30.8 | - | 18.7 |
| Bugesera | 7.8 | 1.7 | 5.6 | 14.7 | - | 46.8 | 6.9 | 16.5 | 14.7 | 6.5 | 9.2 | 15.8 | - | 38.0 | 7.1 | 15.8 | 23.6 | 1.8 | 16.4 | 10.0 | - | 26.4 | - | 21.8 |
| National | 20.9 | 5.9 | 8.6 | 14.3 | - | 37.8 | 2.2 | 10.3 | 28.8 | 9.0 | 10.2 | 15.8 | 0.0 | 24.6 | 1.8 | 11.7 | 32.6 | 5.2 | 12.4 | 14.1 | 0.0 | 24.5 | 0.0 | 11.1 |

Table 56: Percentage of farmers by agricultural practices in Season A 2021

| | Farmers v | | | | s who used | , | | who pra | cticed | Farmers | | |
|------------|-----------|------------------|-------|---------|--------------------------------|------|---------|-----------------|--------|---------|------------------|-------|
| | land aga | inst eros (%) | SION | | cal equipmonre re activitie | | " | rigation (%) | | ag | roforestr (%) | у |
| District | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 85.7 | 85.7 | - | 0.5 | 0.5 | - | 11.0 | 11.0 | - | 48.5 | 48.5 | - |
| Gasabo | 89.7 | 89.6 | 91.7 | 1.2 | 0.3 | 25.0 | 13.7 | 12.0 | 58.3 | 43.1 | 42.3 | 66.7 |
| Kicukiro | 63.4 | 63.0 | 80.0 | 1.9 | 1.0 | 40.0 | 8.0 | 7.2 | 40.0 | 45.5 | 44.8 | 80.0 |
| Nyanza | 93.6 | 93.5 | 100.0 | 0.2 | - | 12.5 | 18.2 | 17.3 | 75.0 | 29.3 | 29.4 | 25.0 |
| Gisagara | 90.8 | 90.4 | 100.0 | 0.2 | 0.2 | - | 17.5 | 16.0 | 50.0 | 34.6 | 35.6 | 8.7 |
| Nyaruguru | 98.6 | 98.5 | 100.0 | 0.3 | 0.3 | - | 9.8 | 9.5 | 20.0 | 40.9 | 40.1 | 70.0 |
| Huye | 93.8 | 93.5 | 100.0 | - | - | - | 20.0 | 16.7 | 80.0 | 34.2 | 34.5 | 29.2 |
| Nyamagabe | 95.2 | 95.2 | 100.0 | 0.5 | 0.5 | - | 6.0 | 6.1 | - | 33.8 | 33.7 | 100.0 |
| Ruhango | 96.0 | 95.9 | 100.0 | 0.6 | 0.6 | - | 15.3 | 13.9 | 88.9 | 28.3 | 27.9 | 55.6 |
| Muhanga | 98.0 | 98.0 | 100.0 | 0.7 | 0.7 | - | 5.2 | 4.3 | 50.0 | 21.0 | 20.6 | 50.0 |
| Kamonyi | 92.3 | 92.4 | 91.7 | 0.4 | 0.4 | - | 9.4 | 8.0 | 66.7 | 35.8 | 35.8 | 33.3 |
| Karongi | 96.6 | 96.6 | 100.0 | - | - | - | 5.2 | 5.2 | - | 35.1 | 34.9 | 100.0 |
| Rutsiro | 96.6 | 96.6 | - | 0.3 | 0.3 | - | 0.3 | 0.3 | - | 36.4 | 36.4 | - |
| Rubavu | 93.6 | 93.5 | 100.0 | 0.3 | 0.3 | - | 0.3 | 0.3 | - | 37.4 | 37.0 | 75.0 |
| Nyabihu | 97.5 | 97.5 | - | - | - | - | 0.5 | 0.5 | - | 49.8 | 49.8 | - |
| Ngororero | 92.2 | 92.2 | - | - | - | - | 2.2 | 2.2 | - | 21.3 | 21.3 | - |
| Rusizi | 91.4 | 91.4 | 90.0 | 1.4 | 1.2 | 10.0 | 9.6 | 8.4 | 70.0 | 58.2 | 58.4 | 50.0 |
| Nyamasheke | 90.9 | 91.0 | 85.7 | 0.2 | 0.2 | - | 5.4 | 4.3 | 71.4 | 56.8 | 57.1 | 33.3 |
| Rulindo | 98.9 | 98.9 | 100.0 | 0.5 | 0.5 | - | 20.0 | 19.6 | 60.0 | 27.0 | 26.9 | 40.0 |
| Gakenke | 97.3 | 97.3 | - | 0.2 | 0.2 | - | 6.0 | 6.0 | - | 41.6 | 41.6 | - |
| Musanze | 95.5 | 95.5 | - | 0.2 | 0.2 | - | 0.8 | 8.0 | - | 34.1 | 34.1 | - |
| Burera | 93.7 | 93.7 | - | 0.4 | 0.4 | - | 1.0 | 1.0 | - | 13.9 | 13.9 | - |
| Gicumbi | 98.1 | 98.1 | 100.0 | 0.2 | 0.2 | - | 10.1 | 10.1 | - | 30.9 | 30.5 | 100.0 |
| Rwamagana | 95.9 | 95.7 | 100.0 | 1.4 | 0.4 | 20.7 | 11.0 | 8.3 | 62.1 | 45.9 | 44.7 | 72.4 |
| Nyagatare | 66.6 | 64.6 | 91.1 | 7.1 | 2.4 | 64.4 | 10.0 | 6.6 | 51.1 | 42.7 | 42.1 | 52.2 |
| Gatsibo | 96.4 | 96.3 | 100.0 | 3.0 | 1.4 | 57.9 | 8.8 | 8.0 | 36.8 | 52.7 | 52.5 | 63.2 |
| Kayonza | 70.1 | 68.4 | 100.0 | 2.6 | 0.5 | 39.1 | 11.5 | 8.2 | 69.6 | 36.0 | 35.6 | 45.5 |
| Kirehe | 81.2 | 81.4 | 70.0 | 8.0 | 0.5 | 20.0 | 10.4 | 9.2 | 90.0 | 46.3 | 46.6 | 25.0 |
| Ngoma | 89.9 | 89.7 | 100.0 | 0.6 | 0.2 | 18.8 | 9.0 | 7.8 | 56.3 | 47.5 | 47.8 | 37.5 |
| Bugesera | 80.5 | 80.9 | 73.0 | 0.8 | 0.2 | 10.8 | 15.1 | 13.0 | 51.4 | 45.8 | 45.2 | 56.8 |
| National | 91.0 | 90.9 | 93.2 | 0.9 | 0.5 | 22.1 | 9.2 | 8.1 | 57.3 | 38.4 | 38.2 | 48.6 |

Table 57: Percentage of farmers by agricultural practices in Season B 2021

| | Farmers v | | | | s who use | • | | who pra | acticed | Farmers | | |
|------------|-----------|------|-------|---------|--------------|------|---------|----------|---------|---------|-----------|-------|
| | land aga | | sion | | al equipm | | ir | rigation | | ag | roforestr | у |
| _ | | (%) | | | re activitie | | | (%) | | | (%) | |
| District | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 67.8 | 67.8 | | 1.5 | 1.5 | | 8.0 | 8.0 | | 46.3 | 46.3 | |
| Gasabo | 94.3 | 94.1 | 100.0 | 0.6 | - | 20.0 | 9.5 | 7.9 | 60.0 | 54.5 | 54.1 | 66.7 |
| Kicukiro | 63.1 | 62.3 | 100.0 | 2.5 | 1.5 | 50.0 | 13.8 | 12.6 | 75.0 | 53.9 | 53.7 | 60.0 |
| Nyanza | 94.5 | 94.5 | 100.0 | 0.6 | 0.6 | - | 10.4 | 9.6 | 83.3 | 27.1 | 27.1 | 28.6 |
| Gisagara | 86.9 | 86.4 | 100.0 | 0.4 | 0.4 | - | 13.1 | 10.4 | 87.5 | 38.2 | 39.5 | 9.1 |
| Nyaruguru | 98.4 | 98.4 | 100.0 | 0.6 | 0.6 | - | 5.3 | 3.2 | 70.0 | 39.1 | 38.1 | 80.0 |
| Huye | 95.8 | 95.7 | 100.0 | - | - | - | 18.0 | 14.7 | 94.7 | 40.5 | 41.3 | 24.0 |
| Nyamagabe | 90.6 | 90.6 | 100.0 | 0.7 | 0.7 | - | 3.1 | 3.1 | - | 31.0 | 30.9 | 100.0 |
| Ruhango | 92.1 | 92.0 | 100.0 | 0.6 | 0.6 | - | 12.3 | 11.1 | 72.7 | 29.6 | 29.6 | 33.3 |
| Muhanga | 97.8 | 97.7 | 100.0 | 0.5 | 0.5 | - | 3.7 | 2.8 | 80.0 | 21.2 | 20.7 | 50.0 |
| Kamonyi | 91.8 | 91.7 | 100.0 | 0.2 | 0.2 | - | 10.8 | 9.8 | 75.0 | 32.8 | 32.7 | 40.0 |
| Karongi | 98.2 | 98.2 | 100.0 | 0.3 | 0.3 | - | 7.6 | 7.4 | 100.0 | 41.0 | 40.9 | 100.0 |
| Rutsiro | 99.4 | 99.4 | | - | - | | 0.3 | 0.3 | | 36.4 | 36.4 | |
| Rubavu | 91.0 | 90.9 | 100.0 | 0.3 | 0.3 | - | 0.5 | 0.5 | - | 29.7 | 29.8 | 25.0 |
| Nyabihu | 98.4 | 98.4 | | - | - | | 0.8 | 0.8 | | 47.2 | 47.2 | |
| Ngororero | 94.8 | 94.8 | | 0.7 | 0.7 | | 0.2 | 0.2 | | 23.7 | 23.7 | |
| Rusizi | 86.5 | 86.2 | 100.0 | 1.1 | 1.1 | - | 11.2 | 9.9 | 70.0 | 59.0 | 59.3 | 40.0 |
| Nyamasheke | 92.7 | 92.6 | 100.0 | - | - | - | 10.6 | 9.6 | 62.5 | 57.0 | 57.4 | 33.3 |
| Rulindo | 99.3 | 99.3 | 100.0 | 0.5 | 0.2 | 20.0 | 7.3 | 6.6 | 60.0 | 23.4 | 23.3 | 40.0 |
| Gakenke | 99.5 | 99.5 | | 0.3 | 0.3 | | 4.4 | 4.4 | | 45.3 | 45.3 | |
| Musanze | 92.8 | 92.8 | | 0.4 | 0.4 | | 1.7 | 1.7 | | 27.2 | 27.2 | |
| Burera | 96.2 | 96.2 | | 0.4 | 0.4 | | 2.4 | 2.4 | | 24.0 | 24.0 | |
| Gicumbi | 97.0 | 97.0 | 100.0 | - | - | - | 8.4 | 8.4 | - | 26.9 | 26.6 | 100.0 |
| Rwamagana | 94.4 | 94.2 | 100.0 | 1.4 | 0.6 | 18.5 | 13.7 | 11.7 | 55.6 | 50.2 | 48.9 | 76.7 |
| Nyagatare | 72.4 | 72.4 | 71.8 | 5.9 | 2.5 | 53.9 | 7.1 | 3.5 | 59.0 | 31.0 | 30.5 | 39.5 |
| Gatsibo | 96.1 | 96.0 | 100.0 | 0.8 | 0.3 | 15.8 | 7.2 | 6.0 | 47.4 | 54.6 | 54.7 | 50.0 |
| Kayonza | 76.8 | 75.9 | 95.0 | 2.0 | 0.2 | 40.0 | 10.8 | 7.8 | 75.0 | 37.0 | 37.4 | 27.3 |
| Kirehe | 85.6 | 85.7 | 80.0 | 1.2 | 8.0 | 30.0 | 14.7 | 13.5 | 90.0 | 45.3 | 45.7 | 23.1 |
| Ngoma | 89.5 | 89.2 | 100.0 | 0.3 | 0.2 | 6.3 | 10.3 | 9.1 | 56.3 | 49.6 | 50.0 | 35.3 |
| Bugesera | 74.7 | 74.3 | 80.6 | 1.1 | 0.5 | 11.1 | 13.9 | 11.4 | 55.6 | 38.6 | 37.6 | 55.0 |
| National | 90.8 | 90.7 | 92.7 | 0.8 | 0.5 | 17.4 | 8.3 | 7.2 | 64.9 | 38.4 | 38.3 | 43.5 |

Table 58: Percentage of farmers by agricultural practices in Season C 2021

| | Farmers wh | | | | who used a | | | who pra | cticed | | ho practiced |
|------------|------------|------------|-------|------------|--------------|------|---------|-----------|--------|---------|--------------|
| | agair | nst erosio | n | | al equipme | | iı | rrigation | | | orestry |
| | | (%) | | agricultur | e activities | (%) | | (%) | | (| %) |
| District | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF |
| Nyarugenge | 83.3 | 63.2 | 100.0 | - | - | - | 69.1 | 42.1 | 91.3 | NA | 3.1 |
| Gasabo | 100.0 | 100.0 | 100.0 | - | - | - | 96.6 | 87.5 | 100.0 | NA | 8.0 |
| Kicukiro | 91.3 | 87.5 | 93.3 | - | - | - | 95.7 | 87.5 | 100.0 | NA | - |
| Nyanza | 97.5 | 100.0 | 96.8 | - | - | - | 94.1 | 76.0 | 98.9 | NA | 6.4 |
| Gisagara | 92.5 | 95.2 | 91.5 | - | - | - | 66.3 | 42.9 | 74.6 | NA | 6.5 |
| Nyaruguru | 97.5 | 95.9 | 98.6 | - | - | - | 52.9 | 53.1 | 52.9 | NA | 5.0 |
| Huye | 92.9 | 90.3 | 93.8 | - | - | - | 88.4 | 74.2 | 93.8 | NA | 8.4 |
| Nyamagabe | 97.1 | 90.5 | 100.0 | - | - | - | 53.6 | 61.9 | 50.0 | NA | 8.9 |
| Ruhango | 88.3 | 90.0 | 87.7 | - | - | - | 77.9 | 60.0 | 84.2 | NA | 10.8 |
| Muhanga | 98.3 | 96.9 | 98.8 | - | - | - | 77.4 | 65.6 | 81.9 | NA | 1.6 |
| Kamonyi | 100.0 | 100.0 | 100.0 | 0.8 | - | 1.0 | 87.2 | 66.7 | 94.9 | NA | 8.3 |
| Karongi | 97.2 | 92.3 | 98.3 | - | - | - | 38.0 | 38.5 | 37.9 | NA | 15.7 |
| Rutsiro | 95.4 | 100.0 | 93.9 | - | - | - | 4.7 | 10.0 | 3.0 | NA | 35.9 |
| Rubavu | 96.7 | 97.3 | 95.7 | - | - | - | 2.5 | - | 6.4 | NA | 33.5 |
| Nyabihu | 97.2 | 97.3 | 97.0 | 0.6 | - | 1.5 | 2.8 | 4.5 | - | NA | 45.8 |
| Ngororero | 97.7 | 100.0 | 96.4 | 2.3 | - | 3.6 | 25.0 | 25.0 | 25.0 | NA | 23.5 |
| Rusizi | 100.0 | 100.0 | 100.0 | 1.3 | - | 2.1 | 93.6 | 86.7 | 97.9 | NA | 18.2 |
| Nyamasheke | 94.4 | 100.0 | 93.8 | - | - | - | 57.8 | 50.0 | 58.8 | NA | 47.1 |
| Rulindo | 100.0 | 100.0 | 100.0 | 1.6 | 4.0 | - | 82.8 | 60.0 | 97.4 | NA | 16.7 |
| Gakenke | 93.7 | 90.5 | 95.3 | - | - | - | 66.9 | 71.4 | 64.7 | NA | 30.1 |
| Musanze | 97.9 | 97.2 | 98.6 | 1.4 | 1.4 | 1.4 | 13.5 | 9.9 | 17.1 | NA | 27.4 |
| Burera | 97.5 | 97.2 | 98.2 | - | - | - | 16.7 | 9.4 | 30.4 | NA | 22.4 |
| Gicumbi | 95.1 | 90.3 | 98.0 | 1.2 | - | 2.0 | 80.5 | 74.2 | 84.3 | NA | 4.4 |
| Rwamagana | 82.2 | 72.7 | 85.3 | 1.1 | - | 1.5 | 81.1 | 77.3 | 82.4 | NA | 2.6 |
| Nyagatare | 79.6 | 87.0 | 74.2 | - | - | - | 85.2 | 82.6 | 87.1 | NA | 20.0 |
| Gatsibo | 100.0 | 100.0 | 100.0 | - | - | - | 94.7 | 87.5 | 96.7 | NA | 14.5 |
| Kayonza | 95.8 | 100.0 | 95.0 | 4.2 | - | 5.0 | 93.0 | 90.9 | 93.3 | NA | 9.3 |
| Kirehe | 91.5 | 83.3 | 94.3 | 2.1 | 8.3 | - | 89.4 | 91.7 | 88.6 | NA | 27.3 |
| Ngoma | 90.7 | 91.7 | 90.5 | - | - | - | 78.7 | 66.7 | 81.0 | NA | 22.2 |
| Bugesera | 80.8 | 83.9 | 78.6 | - | - | - | 57.5 | 32.3 | 76.2 | NA | 8.3 |
| National | 94.9 | 94.3 | 95.2 | 0.5 | 0.3 | 0.6 | 59.1 | 41.9 | 68.8 | NA | 23.7 |

Table 59: Irrigation type, per Season and district in 2021 (%)

| | | | | | | | Мс | dern irriç | gation | | | | | | | Tradit | ional techi | niques |
|------------|-----------|-----------|----------|----------|----------|----------|----------|------------|----------|----------|--------------|----------|-------------|----------|----------|----------|-------------|----------|
| | Surface i | rrigation | | Flood in | rigation | | Drip irr | igation | | Sprink | ler irrigati | on | Pivot irrig | ation | | | | |
| District | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | 13.3 | 37.5 | 32.4 | - | _ | | - | _ | - | - | - | - | - | - | - | 86.7 | 62.5 | 67.7 |
| Gasabo | 10.7 | 33.3 | - | 10.7 | - | | - | 13.3 | - | 14.3 | - | - | - | - | - | 64.3 | 53.3 | 100.0 |
| Kicukiro | 64.7 | 33.3 | 35.0 | 5.9 | 5.6 | | _ | _ | - | _ | 5.6 | _ | 5.9 | - | _ | 23.5 | 55.6 | 65.0 |
| Nyanza | 19.1 | 14.3 | 7.6 | 19.1 | 57.1 | | _ | _ | - | _ | - | _ | - | - | _ | 61.9 | 28.6 | 92.4 |
| Gisagara | 7.1 | 4.0 | 22.6 | 46.4 | 64.0 | | _ | _ | _ | _ | _ | _ | - | _ | _ | 46.4 | 32.0 | 77.4 |
| Nyaruguru | 40.0 | 72.7 | 23.3 | _ | - | | _ | _ | _ | _ | _ | _ | - | - | _ | 60.0 | 27.3 | 76.7 |
| Huye | 2.7 | _ | - | 51.4 | 90.0 | | _ | _ | _ | _ | _ | _ | - | _ | 1.0 | 46.0 | 10.0 | 99.0 |
| Nyamagabe | _ | 22.2 | 3.5 | 42.9 | 66.7 | | _ | _ | _ | _ | _ | _ | - | _ | - | 57.1 | 11.1 | 96.6 |
| Ruhango | 33.3 | 10.0 | 18.6 | 30.0 | 63.3 | | _ | _ | _ | _ | _ | _ | - | - | _ | 36.7 | 26.7 | 81.4 |
| Muhanga | - | - | 13.1 | 21.4 | 40.0 | | _ | 20.0 | _ | _ | _ | _ | - | _ | _ | 78.6 | 40.0 | 86.9 |
| Kamonyi | 7.4 | 11.8 | - | 7.4 | 11.8 | | _ | _ | _ | _ | _ | 0.8 | - | _ | _ | 85.2 | 76.5 | 99.2 |
| Karongi | _ | 20.0 | 23.1 | - | _ | | _ | _ | - | _ | _ | 7.7 | - | - | _ | 100.0 | 80.0 | 69.2 |
| Rutsiro | | | - | | | | | | - | | | _ | | | _ | | | 100.0 |
| Rubavu | | | - | | | | | | - | | | _ | | | _ | | | 100.0 |
| Nyabihu | _ | | 100.0 | - | | | _ | | - | _ | | _ | - | | _ | 100.0 | | - |
| Ngororero | _ | | 60.0 | - | | | _ | | - | _ | | _ | - | | _ | 100.0 | | 40.0 |
| Rusizi | - | - | 24.0 | 66.7 | 81.8 | | - | - | - | _ | - | - | - | - | - | 33.3 | 18.2 | 76.0 |
| Nyamasheke | 22.2 | 11.1 | 12.2 | 33.3 | 44.4 | | _ | _ | - | _ | - | _ | - | - | _ | 44.4 | 44.4 | 87.8 |
| Rulindo | 43.9 | - | 22.2 | 2.4 | 5.3 | | - | - | - | 4.9 | 5.3 | 1.9 | - | 36.8 | - | 48.8 | 52.6 | 75.9 |
| Gakenke | 11.1 | 25.0 | 7.9 | 22.2 | 12.5 | | - | - | - | _ | - | - | - | - | - | 66.7 | 62.5 | 92.1 |
| Musanze | - | - | 28.6 | - | - | | - | - | - | _ | - | - | - | - | - | 100.0 | 100.0 | 71.4 |
| Burera | - | - | 41.7 | - | - | | _ | - | - | _ | - | - | - | - | _ | 100.0 | 100.0 | 58.3 |
| Gicumbi | 5.9 | 16.7 | 35.3 | - | - | | - | - | - | _ | - | - | - | - | - | 94.1 | 83.3 | 64.7 |
| Rwamagana | 14.1 | 40.5 | 46.8 | 23.4 | 14.3 | | 25.0 | 16.7 | - | 1.6 | - | - | - | 7.1 | - | 35.9 | 21.4 | 53.3 |
| Nyagatare | 33.3 | 62.5 | 48.9 | 21.2 | 12.5 | | - | - | - | 10.6 | - | - | 22.7 | 16.7 | 2.1 | 12.1 | 8.3 | 48.9 |
| Gatsibo | 42.3 | 46.4 | - | 15.4 | 10.7 | | _ | - | - | 3.9 | 7.1 | - | - | - | 2.8 | 38.5 | 35.7 | 97.2 |
| Kayonza | 47.6 | 28.2 | 31.0 | 11.1 | 15.4 | | - | - | 1.4 | 17.5 | 20.5 | - | 4.8 | 2.6 | 1.4 | 19.1 | 33.3 | 66.2 |
| Kirehe | 14.6 | 11.1 | - | 31.7 | 14.8 | | - | - | - | 12.2 | 44.4 | - | 24.4 | 13.0 | - | 17.1 | 16.7 | 100.0 |
| Ngoma | 5.9 | - | 16.7 | 41.2 | 19.2 | | 23.5 | 3.9 | - | _ | 30.8 | - | - | - | 1.7 | 29.4 | 46.2 | 81.7 |
| Bugesera | 6.5 | 31.1 | 64.3 | 31.2 | 42.2 | | 6.5 | _ | 4.8 | 32.3 | 6.7 | - | - | - | _ | 23.7 | 20.0 | 31.0 |
| National | 20.8 | 24.8 | 18.8 | 22.8 | 26.9 | | 3.7 | 2.1 | 0.2 | 8.7 | 9.0 | 0.3 | 4.1 | 5.0 | 0.3 | 40.0 | 32.3 | 80.4 |

Table 60: Source of water used for irrigation, per season and district in 2021 (%)

| | R | ainwater | | Wat | er treatmer | nt | Uı | nderground | t | Lak | ce / stream | IS | Wate | er catchme | ent |
|------------|----------|----------|----------|----------|-------------|----------|----------|------------|----------|----------|-------------|----------|----------|------------|----------|
| District | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | - | - | - | 20.0 | 25.0 | - | 33.3 | - | 11.8 | 46.7 | 75.0 | 88.2 | - | - | - |
| Gasabo | 3.5 | 6.7 | - | 10.3 | - | - | 37.9 | 33.3 | 17.9 | 48.3 | 46.7 | 81.1 | - | 13.3 | 1.1 |
| Kicukiro | - | - | - | 15.0 | 21.7 | - | 35.0 | 21.7 | 14.3 | 25.0 | 56.5 | 85.7 | 25.0 | - | - |
| Nyanza | - | - | - | - | - | - | 66.7 | 43.8 | 43.2 | 19.1 | 31.3 | 52.5 | 14.3 | 25.0 | 4.3 |
| Gisagara | - | 3.9 | - | 6.9 | - | - | 44.8 | 50.0 | 77.4 | 44.8 | 38.5 | 22.6 | 3.5 | 7.7 | - |
| Nyaruguru | - | - | - | - | - | - | - | 9.1 | 70.0 | 100.0 | 90.9 | 30.0 | - | - | - |
| Huye | - | - | - | 5.4 | - | - | 10.8 | 34.5 | 65.8 | 62.2 | 51.7 | 34.2 | 21.6 | 13.8 | - |
| Nyamagabe | - | - | - | - | - | - | 57.1 | 22.2 | - | 42.9 | 77.8 | 100.0 | - | - | - |
| Ruhango | 2.7 | _ | _ | 2.7 | 3.1 | _ | 62.2 | 46.9 | 47.5 | 29.7 | 46.9 | 52.5 | 2.7 | 3.1 | _ |
| Muhanga | - | - | _ | 7.1 | - | _ | 42.9 | 40.0 | 54.1 | 35.7 | 20.0 | 45.9 | 14.3 | 40.0 | _ |
| Kamonyi | - | - | _ | _ | - | _ | 25.8 | 46.2 | 55.6 | 64.5 | 50.0 | 44.4 | 9.7 | 3.9 | _ |
| Karongi | - | _ | _ | - | 10.0 | _ | 33.3 | 30.0 | 61.5 | 66.7 | 60.0 | 38.5 | - | - | _ |
| Rutsiro | _ | | _ | - | | _ | - | | 100.0 | - | | - | - | | _ |
| Rubavu | _ | | _ | - | | _ | - | | 100.0 | - | | - | - | | _ |
| Nyabihu | - | | _ | - | | _ | 100.0 | | 16.7 | _ | | 83.3 | _ | | _ |
| Ngororero | _ | | _ | - | | _ | 50.0 | | 80.0 | 25.0 | | 20.0 | 25.0 | | _ |
| Rusizi | - | _ | _ | 8.3 | _ | _ | - | 27.3 | 26.7 | 91.7 | 72.7 | 73.3 | - | _ | _ |
| Nyamasheke | - | _ | 2.0 | 11.1 | 11.1 | _ | 22.2 | 66.7 | 3.9 | 66.7 | 22.2 | 94.1 | _ | _ | _ |
| Rulindo | 2.4 | 5.3 | 3.6 | 7.3 | 10.5 | 9.1 | 19.5 | 21.1 | 61.8 | 48.8 | 57.9 | 20.0 | 22.0 | 5.3 | 5.5 |
| Gakenke | - | - | - | - | - | - | 66.7 | 62.5 | 44.7 | 33.3 | 37.5 | 55.3 | | - | - |
| Musanze | _ | _ | _ | 50.0 | _ | 7.1 | - | 66.7 | 35.7 | 50.0 | 33.3 | 57.1 | - | _ | _ |
| Burera | - | _ | _ | - | _ | _ | _ | 100.0 | 4.2 | 100.0 | - | 95.8 | _ | _ | _ |
| Gicumbi | _ | _ | _ | 17.7 | 33.3 | _ | - | 33.3 | 14.7 | 82.4 | 33.3 | 85.3 | - | _ | _ |
| Rwamagana | 2.9 | _ | _ | 11.8 | 11.4 | _ | 14.7 | 18.2 | 55.6 | 38.2 | 38.6 | 34.6 | 32.4 | 29.6 | 9.9 |
| Nyagatare | 1.5 | 2.0 | _ | 4.6 | 2.0 | _ | 3.0 | 8.2 | 19.2 | 75.8 | 44.9 | 78.7 | 15.2 | 42.9 | 2.1 |
| Gatsibo | - | - | _ | 3.9 | 3.5 | _ | 26.9 | 17.2 | 46.0 | 50.0 | 58.6 | 51.4 | 19.2 | 20.7 | 2.7 |
| Kayonza | - | 2.4 | - | - | 4.8 | - | 19.7 | 21.4 | 47.2 | 68.2 | 59.5 | 41.7 | 12.1 | 11.9 | 11.1 |
| Kirehe | 4.1 | | 2.3 | 2.0 | - | - | 18.4 | 19.3 | 75.0 | 61.2 | 77.2 | 13.6 | 14.3 | 3.5 | 9.1 |
| Ngoma | 5.9 | 23.5 | - | 17.7 | 20.6 | - | 35.3 | 17.7 | 50.0 | 11.8 | 32.4 | 43.6 | 29.4 | 5.9 | 6.5 |
| Bugesera | 2.0 | 2.2 | - | 1.0 | 2.2 | - | 28.0 | 37.8 | 31.0 | 58.0 | 42.2 | 66.7 | 11.0 | 15.6 | 2.4 |
| National | 1.5 | 2.5 | 0.3 | 5.5 | 5.5 | 0.4 | 25.6 | 27.9 | 43.8 | 53.7 | 51.2 | 53.3 | 13.6 | 12.9 | 2.3 |

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Table 61: Type of anti-erosion activities, per season and district in 2021 Season A (%)

| | - | Trees/Windbreak/ | Bench/Radical | Progressive | | Water | | | Water |
|------------|---------|------------------|---------------|-------------|--------------|----------|----------|-------------|----------|
| Disrtict | Ditches | shelterbelt | terraces | terraces | Cover plants | drainage | Mulching | Beds/ridges | channels |
| Nyarugenge | 11.2 | 20.2 | - | 3.9 | 50.1 | - | 4.3 | 8.4 | 1.9 |
| Gasabo | 2.3 | 10.1 | 0.1 | 19.2 | 57.6 | 1.1 | 1.1 | 4.1 | 4.5 |
| Kicukiro | 8.8 | 20.6 | 1.9 | 24.2 | 15.5 | 0.1 | 6 | 5.7 | 17.4 |
| Nyanza | 8.6 | 4.9 | 2.6 | 5.3 | 48.8 | 0 | 2.7 | 11.8 | 15.3 |
| Gisagara | 5.5 | 2.4 | 2.3 | 20.8 | 45.5 | 0.7 | 0 | 3.7 | 19.1 |
| Nyaruguru | 14.6 | 7.9 | 2.7 | 3.8 | 54 | 5.1 | 1.3 | 0.5 | 10.1 |
| Huye | 10.4 | 5.6 | 2.2 | 20.2 | 48.5 | 0.1 | 1.1 | 0.7 | 11.2 |
| Nyamagabe | 4.3 | 2 | 7.7 | 18.9 | 56.9 | 0.6 | 1.9 | 0.4 | 7.4 |
| Ruhango | 4 | 5.8 | 0.4 | 7.6 | 60.3 | 0.2 | 1.3 | 6.7 | 13.7 |
| Muhanga | 3.3 | 0.6 | 3.3 | 4.9 | 77.4 | 0 | 3.8 | 3.4 | 3.4 |
| Kamonyi | 10.3 | 2.3 | 8.0 | 8 | 58.1 | 0 | 3 | 3.6 | 13.9 |
| Karongi | 17.9 | 3 | 2.5 | 8 | 59.8 | 3 | 0.7 | 0.7 | 4.4 |
| Rutsiro | 6.8 | 7.5 | 6 | 2.8 | 65.4 | 1.4 | 6.2 | 0.8 | 3.1 |
| Rubavu | 1.6 | 13.6 | 7.3 | 0.7 | 27.7 | - | - | 40.5 | 8.6 |
| Nyabihu | 0.2 | 1.5 | 10.6 | 15.8 | 55.3 | 0.1 | 0.1 | 15.2 | 0.8 |
| Ngororero | 8.2 | 2.5 | 4 | 6.5 | 69.9 | - | 1.1 | 1.8 | 6 |
| Rusizi | 34.5 | 8.7 | 0.5 | 7.3 | 41.8 | 0.1 | 2.3 | 2 | 2.9 |
| Nyamasheke | 9.2 | 13.6 | 5.5 | 6 | 55.8 | 0.3 | 2.6 | 0.3 | 6.4 |
| Rulindo | 1.9 | 4.3 | 8.7 | 15.6 | 57.6 | 0.4 | 1 | 2.1 | 8.5 |
| Gakenke | 2.7 | 1.5 | 4.3 | 10 | 69.2 | 0.1 | 4.2 | 2.6 | 5.4 |
| Musanze | 1.4 | 1.4 | 7.4 | 2 | 41.4 | - | 0.6 | 42.5 | 3.1 |
| Burera | 0.4 | 1.4 | 3.4 | 6.5 | 59.3 | 1 | 0.1 | 23.8 | 4.1 |
| Gicumbi | 0.3 | 0.5 | 12.2 | 20.9 | 57.4 | - | 0.9 | 0 | 7.9 |
| Rwamagana | 5.9 | 9.8 | 3.2 | 9.4 | 63.1 | 1.1 | 5 | 0.8 | 1.8 |
| Nyagatare | 6 | 6.7 | 1.6 | 10.1 | 52.6 | 0.6 | 8 | 3.9 | 10.5 |
| Gatsibo | 2.5 | 12.8 | 0.3 | 10.1 | 58.1 | 8.0 | 8 | 3.1 | 4.4 |
| Kayonza | 1.6 | 4.2 | 13.6 | 0.1 | 47.8 | 13.4 | 6.7 | 1.3 | 11.3 |
| Kirehe | 6.5 | 3.5 | 0.7 | 4.7 | 68.4 | 0.2 | 11.3 | 0.9 | 3.8 |
| Ngoma | 1.3 | 3.8 | 3.9 | 7.1 | 67.6 | 0.1 | 7 | 4.6 | 4.4 |
| Bugesera | 7.9 | 14 | - | 21.3 | 38.7 | 0.5 | 2.1 | 9.4 | 6 |
| National | 6.7 | 5 | 4.5 | 10 | 57.2 | 0.9 | 2.5 | 6 | 7.2 |

Table 62: Type of anti-erosion activities, per season and district in 2021 Season B (%)

| | | Trees/Windbreak/ | Bench/Radical | Progressive | • | Water | | |
|------------|---------|------------------|---------------|-------------|--------------|----------|----------|-------------|
| Disrtict | Ditches | shelterbelt | terraces | terraces | Cover plants | drainage | Mulching | Beds/ridges |
| Nyarugenge | 5 | 19.8 | - | 13.5 | 51.7 | - | 8.5 | 0.6 |
| Gasabo | 14.5 | 4.7 | 0.1 | 33.1 | 38.7 | 0.2 | 1 | 0.7 |
| Kicukiro | 6.9 | 23.3 | 1.8 | 10.2 | 18.8 | 0.1 | 6.2 | 6.5 |
| Nyanza | 7.1 | 4.1 | 3.1 | 5.5 | 56.7 | 0 | 0.9 | 3 |
| Gisagara | 5.9 | 2.5 | 3.3 | 20.5 | 45.1 | 0.5 | 1 | 4.6 |
| Nyaruguru | 16 | 7.1 | 2.1 | 2.6 | 53.9 | 6.8 | 0.7 | 1.3 |
| Huye | 6.4 | 4.6 | 2.1 | 25.9 | 48.3 | 0.1 | 0.8 | 0.2 |
| Nyamagabe | 3.7 | 1.1 | 9.8 | 13.7 | 60.7 | 0.7 | 2.1 | 0.1 |
| Ruhango | 4.5 | 7.3 | 0.3 | 3.3 | 64.5 | 0.9 | 0.7 | 8.6 |
| Muhanga | 0.6 | 1.4 | 3.3 | 8.8 | 75.2 | 0 | 4.3 | 5.2 |
| Kamonyi | 6.6 | 1.1 | - | 2.8 | 65 | 2.9 | 2.2 | 5.1 |
| Karongi | 14.8 | 2.5 | 1.9 | 16.7 | 54.1 | - | 0.9 | 0 |
| Rutsiro | 6.6 | 8.6 | 7 | 3.3 | 63.6 | 1.3 | 6.3 | 0.2 |
| Rubavu | 2.8 | 8.8 | 8.4 | 3.4 | 30.6 | - | 0.7 | 45.1 |
| Nyabihu | 1.4 | 1.2 | 11.9 | 9.5 | 61.1 | - | 0.1 | 14.2 |
| Ngororero | 10.6 | 0.2 | 4.7 | 1 | 76.8 | 0.4 | 0.4 | 4.5 |
| Rusizi | 22.8 | 10.6 | 0.1 | 10.9 | 43.9 | 1.3 | 3.5 | 1.8 |
| Nyamasheke | 3.7 | 9.1 | 4.3 | 4.2 | 68.9 | 0.1 | 1.6 | 0.5 |
| Rulindo | 0.5 | 4.5 | 10.5 | 7.8 | 68.5 | 0.4 | 0.6 | 0.3 |
| Gakenke | 15.8 | 1.8 | 4.3 | 2.7 | 62.7 | 0 | 5.8 | 1.4 |
| Musanze | 0.4 | 5.4 | 7.7 | 2.3 | 35.7 | - | 0.4 | 44.3 |
| Burera | 4 | 2.9 | 3.7 | 1.5 | 61.7 | - | 0.2 | 20.8 |
| Gicumbi | 0.2 | 4.2 | 7.4 | 23.2 | 57.1 | 0 | 0.8 | 0 |
| Rwamagana | 2.4 | 12.2 | 2.9 | 18.7 | 57.2 | 0.1 | 3.3 | 0.3 |
| Nyagatare | 5.8 | 17.7 | 0.1 | 19.7 | 39.7 | 0.1 | 9.3 | 1.6 |
| Gatsibo | 2.6 | 4.7 | 1.2 | 7.3 | 69 | 0.8 | 7 | 3.6 |
| Kayonza | 2.6 | 1 | 15.5 | 0.9 | 45.9 | 9.9 | 10.8 | 0.3 |
| Kirehe | 4.1 | 2.5 | 0.6 | 7.9 | 70.3 | 0.9 | 9.2 | 1.3 |
| Ngoma | 4 | 3.9 | 4.1 | 3.1 | 70.9 | 0.1 | 6.9 | 4.7 |
| Bugesera | 6.5 | 14.3 | - | 7 | 54.4 | 3.8 | 5.9 | 6.6 |
| National | 6.7 | 4.6 | 4.5 | 9.5 | 58.7 | 1 | 2.6 | 5.5 |

Table 63: Type of anti-erosion activities, per season and district in 2021 Season C (%)

| | • | Trees/Windbreak/ | Bench/Radical | Progressive | Cover | Water | | | Water | Water |
|------------|---------|------------------|---------------|-------------|--------|----------|----------|-------------|----------|----------|
| Disrtict | Ditches | shelterbelt | terraces | terraces | plants | drainage | Mulching | Beds/ridges | channels | channels |
| Nyarugenge | - | - | - | - | 1.5 | - | 20.3 | 3.4 | 0.9 | 74.8 |
| Gasabo | 2.6 | 2.4 | - | 0.8 | 19.2 | - | - | 12.3 | 7 | 62.9 |
| Kicukiro | - | - | - | - | - | - | 9.5 | 11.8 | 26.1 | 78.7 |
| Nyanza | 21.8 | - | 1.9 | - | 11.2 | 6.1 | - | 16.7 | 19.7 | 42.3 |
| Gisagara | 0.6 | 0.3 | 0.2 | 0.4 | 2.2 | 4.4 | 2 | 82.2 | 16.7 | 7.8 |
| Nyaruguru | 0.4 | 1.5 | 0.2 | - | 16.4 | 6.2 | 0.3 | 15.8 | 9.5 | 59.2 |
| Huye | 0.6 | 0.9 | - | 0.7 | 11 | 22.6 | - | 15.5 | 11.7 | 48.6 |
| Nyamagabe | 0.6 | - | 2.4 | 0.3 | 15.8 | 15.7 | - | 4.9 | 8.1 | 60.4 |
| Ruhango | - | 1.8 | - | 6.8 | 13.2 | - | - | 18.4 | 10 | 59.8 |
| Muhanga | - | - | - | 1.9 | 24.6 | - | 1.1 | 26.5 | 1.1 | 45.9 |
| Kamonyi | 0.7 | - | - | 1.2 | 11.6 | - | 3 | 3.4 | 14.4 | 80.1 |
| Karongi | 4.2 | 1.4 | - | 11.2 | 34.6 | 20.8 | - | 7.6 | 9.1 | 20.4 |
| Rutsiro | - | 1 | - | - | 22.1 | - | 18.9 | 46.9 | 3 | 11.1 |
| Rubavu | 2.5 | 1.5 | 9.2 | 2.1 | 25.9 | - | 0.8 | 57.9 | 0.3 | 0 |
| Nyabihu | 5.2 | 2.2 | 16.3 | 10.4 | 50 | - | 0.2 | 13.9 | 0.6 | 1.8 |
| Ngororero | 6.2 | 1.8 | 3.7 | - | 37.1 | 2.5 | 0.4 | 18.2 | 1.5 | 30.2 |
| Rusizi | - | 3.3 | - | 2.7 | 9.3 | 5.9 | 10.7 | 14.9 | 5 | 53.2 |
| Nyamasheke | 2.7 | 3.6 | 4.6 | 6 | 16.8 | - | - | 10.8 | 7.4 | 55.5 |
| Rulindo | 0.9 | 1.1 | 0.7 | 2.9 | 19.6 | 2.9 | - | 23.5 | 7.1 | 48.4 |
| Gakenke | - | 3.2 | - | 2.5 | 44 | - | 1.7 | 13 | 5.6 | 35.7 |
| Musanze | 1.6 | 3.9 | 4.8 | 2.8 | 22.5 | - | 1.6 | 60.8 | 3.8 | 2.1 |
| Burera | 2.6 | 3.1 | 3.3 | 11 | 57.7 | 0.6 | 0.2 | 18.9 | 5.4 | 2.7 |
| Gicumbi | - | - | - | 1.1 | 15.8 | - | - | 36.6 | 7.2 | 46.5 |
| Rwamagana | - | - | - | - | 14.3 | - | 17.5 | 19.7 | 2.9 | 48.5 |
| Nyagatare | 1.3 | 0.8 | - | 2.5 | 4.6 | 51.3 | 6.8 | 17.3 | 6 | 15.3 |
| Gatsibo | 1.5 | 1.1 | - | - | 14.1 | 10.5 | 3.6 | 20.8 | 3.8 | 48.5 |
| Kayonza | 0.3 | - | - | - | 7.7 | 8.7 | - | 2.1 | 13.1 | 81.3 |
| Kirehe | - | 0.6 | - | - | 14.1 | 22.6 | 3.9 | 45.5 | 3.1 | 13.4 |
| Ngoma | - | - | - | 0.6 | 11.3 | - | - | - | 2.4 | 88.1 |
| Bugesera | 1.1 | 2.4 | | 1.1 | 2.5 | - | 22.4 | 23.1 | 1.6 | 47.4 |
| National | 2.6 | 2 | 4 | 4.7 | 29.2 | 4.6 | 1.4 | 25.5 | 6.9 | 25.9 |

Table 64 : Degree of erosion, per season and district in 2021 (%)

| 1451 | C U+ . I | | OI CIOSI | on, per | | i allu uls | ti iot iii | 2021 | 70) | | | |
|------------|----------|------------|----------|----------|------------|------------|------------|-----------|----------|----------|-----------|----------|
| | (5.11 | Severe | . | /D:ee | Moderat | | | | | | | |
| | | erosion, | | | ise overla | | | | | | | |
| | | rosion, Ma | | erosi | on, overla | | | Low | | | Very Lo | |
| | mover | ment/Land | dslides) | | erosion | | (wi | nd erosio | on) | (s | plash ero | sion) |
| | ⋖ | В | O | ٧ | В | O | ⋖ | В | O | ⋖ | В | O |
| | ő | ő | 30 n | 30 n | ő | no. | 00 U | no% | ű | 00 00 | ő | 00 00 |
| District | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | 0.0 | 0.6 | - | 13.7 | 2.1 | 40.4 | 22.7 | 26.9 | 5.0 | 63.6 | 70.5 | 54.6 |
| Gasabo | 3.8 | 0.1 | _ | 2.1 | 18.5 | 26.3 | 25.2 | 7.8 | 27.7 | 68.9 | 73.6 | 45.9 |
| Kicukiro | 0.2 | - | _ | 14.9 | - | 0.1 | 10.0 | 39.1 | 53.1 | 74.8 | 60.9 | 46.8 |
| Nyanza | 2.0 | 4.6 | 0.0 | 33.8 | 30.3 | 32.3 | 26.1 | 44.0 | 25.0 | 38.1 | 21.1 | 42.7 |
| Gisagara | 0.1 | - | 0.0 | 0.8 | 2.3 | - | 21.2 | 13.7 | 12.3 | 77.9 | 84.1 | 87.7 |
| Nyaruguru | - | _ | 1.3 | 5.0 | 7.1 | 6.5 | 59.4 | 65.1 | 10.1 | 35.6 | 27.8 | 82.2 |
| Huye | _ | 0.3 | 10.1 | 12.9 | 13.0 | 13.9 | 20.8 | 41.2 | 3.6 | 66.3 | 45.5 | 72.5 |
| Nyamagabe | 1.1 | 0.2 | - | 2.3 | 0.9 | 0.6 | 4.7 | 0.4 | 39.4 | 91.9 | 98.5 | 60.1 |
| Ruhango | 1.1 | 1.7 | _ | 4.7 | 4.5 | 3.6 | 55.8 | 7.8 | 28.8 | 38.4 | 86.1 | 67.6 |
| Muhanga | 0.5 | 1.1 | 0.0 | 7.6 | 14.8 | 9.2 | 55.6 | 54.5 | 67.9 | 36.3 | 29.7 | 22.9 |
| Kamonyi | 4.6 | 1.2 | 0.1 | 6.4 | 9.0 | 11.0 | 64.3 | 41.0 | 38.2 | 24.6 | 48.9 | 50.8 |
| Karongi | 2.8 | 2.1 | 0.0 | 11.0 | 20.0 | 6.8 | 22.8 | 37.1 | 6.7 | 63.4 | 40.8 | 86.4 |
| Rutsiro | 1.7 | 0.5 | 3.6 | 18.1 | 11.4 | 2.5 | 33.9 | 51.4 | 66.2 | 46.4 | 36.7 | 27.7 |
| Rubavu | 7.1 | 0.2 | _ | 10.1 | 2.0 | 4.0 | 17.8 | 4.1 | 11.9 | 65.0 | 93.6 | 84.1 |
| Nyabihu | 1.6 | 2.2 | 2.8 | 30.4 | 26.4 | 15.1 | 49.8 | 42.1 | 48.8 | 18.2 | 29.3 | 33.3 |
| Ngororero | 10.9 | 7.1 | - | 30.6 | 11.8 | 23.1 | 5.1 | 1.3 | 0.2 | 53.4 | 79.8 | 76.7 |
| Rusizi | 3.8 | 2.4 | 0.9 | 10.9 | 8.9 | 0.1 | 51.0 | 56.2 | 29.8 | 34.3 | 32.5 | 69.2 |
| Nyamasheke | 0.1 | 1.7 | - | 15.4 | 25.8 | - | 16.3 | 15.2 | 23.6 | 68.2 | 57.3 | 76.4 |
| Rulindo | 1.0 | 2.4 | - | 29.7 | 11.4 | - | 44.9 | 19.9 | 4.4 | 24.5 | 66.4 | 95.6 |
| Gakenke | 0.7 | 2.1 | - | 12.2 | 13.1 | 46.1 | 62.2 | 41.6 | 39.9 | 24.9 | 43.2 | 14.1 |
| Musanze | 2.1 | 0.6 | 0.0 | 10.0 | 9.5 | 14.1 | 30.4 | 50.3 | 35.1 | 57.5 | 39.5 | 50.9 |
| Burera | 0.2 | 0.7 | 1.3 | 2.7 | 21.3 | 14.7 | 7.6 | 22.5 | 25.4 | 89.5 | 55.6 | 58.7 |
| Gicumbi | 2.0 | 5.2 | 0.5 | 8.6 | 19.4 | 1.0 | 26.5 | 21.4 | 0.1 | 63.0 | 54.1 | 98.4 |
| Rwamagana | 5.3 | 0.5 | - | 1.6 | 21.3 | 27.4 | 40.9 | 22.1 | 38.5 | 52.2 | 56.2 | 34.1 |
| Nyagatare | 1.0 | 5.0 | - | 7.5 | 11.3 | 21.0 | 19.7 | 22.6 | 19.1 | 71.9 | 61.2 | 59.9 |
| Gatsibo | 1.1 | 0.7 | - | 3.4 | 2.0 | - | 19.0 | 7.1 | 62.7 | 76.5 | 90.3 | 37.3 |
| Kayonza | 0.2 | 0.2 | 0.0 | 0.8 | 2.4 | 16.1 | 11.5 | 66.5 | - | 87.5 | 30.9 | 83.9 |
| Kirehe | 0.2 | 0.6 | - | 10.4 | 7.4 | 0.0 | 22.4 | 27.6 | 5.5 | 67.0 | 64.4 | 94.5 |
| Ngoma | 0.1 | 0.5 | - | 6.1 | 7.9 | 31.4 | 23.6 | 23.2 | 0.2 | 70.2 | 68.5 | 68.4 |
| Bugesera | 0.9 | 0.6 | 0.0 | 1.5 | 1.6 | 22.6 | 40.0 | 20.7 | 17.4 | 57.7 | 77.1 | 60.0 |
| National | 2.0 | 1.6 | 1.0 | 11.2 | 12.0 | 14.1 | 31.9 | 29.8 | 26.5 | 55.0 | 56.6 | 58.3 |

ANNEX

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