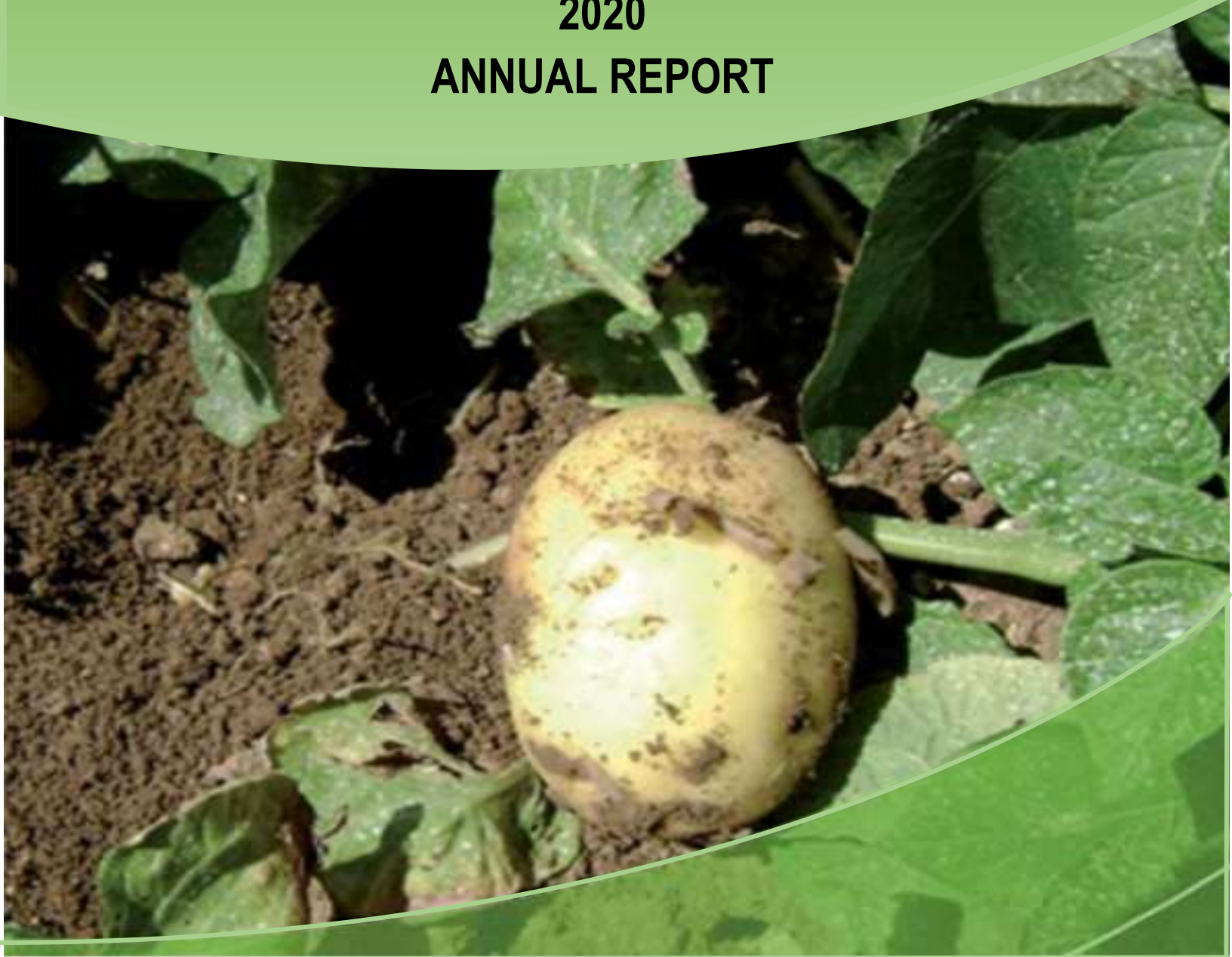




The Republic of Rwanda



UPGRADED SEASONAL AGRICULTURAL SURVEY 2020 ANNUAL REPORT



**UPGRADED SEASONAL AGRICULTURAL
SURVEY**

2020

ANNUAL REPORT

Upgraded Seasonal Agricultural Survey (SAS) 2020 annual report was produced by National Institute of Statistics of Rwanda (NISR).

Additional information about Upgraded Seasonal Agricultural Survey 2020 report may be obtained at NISR

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FOREWORD

The National Institute of Statistics of Rwanda (NISR) has been conducting an annual agricultural survey since November 2012 for the estimation of the national agricultural crop area and production estimates. In 2019/2020 agricultural year, the NISR conducted the second edition of the Upgraded Seasonal Agricultural Survey (USAS) covering the three agricultural seasons. The USAS incorporated an increased sample size to provide more precise estimates. The USAS allows information for monitoring progress on agriculture programs and policies in Rwanda.

The 2020 USAS was implemented by 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). This published report has likewise been enhanced to reflect the importance of the SAS information for use as a tool to assist addressing the key agricultural issues and information needs that will inform policy makers and other stakeholders and allow more effective identification of priority intervention needs.

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

I am grateful to the NISR staff and other partners who worked tirelessly to ensure the 2020 Upgraded Seasonal agricultural survey was successfully implemented.


Yusuf MURANGWA
Director General, NISR



EXECUTIVE SUMMARY

The National Institute of Statistics of Rwanda (NISR) conducted the second edition of Upgraded Seasonal Agriculture Survey (USAS) in 2019/2020 agricultural year covering the three usual agricultural seasons. Main agricultural seasons 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 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 purpose. This 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

USAS 2020 results estimate agricultural land at 1.4 million hectares (59 percent of total country land), from which 1.14 million of hectares and 1.19 million hectares was arable land in season A and B respectively. In 2019/2020 agricultural year, the total physical crop area under cultivation was estimated at 1.1 million hectares (81 percent of total agricultural land) and increased by 2 percent when compared to 2018/2019

¹Permanent 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...).

agricultural year. Out of physical cultivated area, 1 million hectares was used for seasonal crops while 0.5 million hectares of land was covered by permanent crops.

Crop area, yield and production

The overall crop area for the year 2019/2020 has increased by 2 percent compared to the previous year. With such an increase, the contribution from individual crops such as beans (11 percent), maize (2 percent) and sorghum (5 percent) was noticeable among others, while the area of some other crops decreased including paddy rice (-10 percent) and Irish potatoes (-3 percent), banana (-2 percent).

The overall annual crop production for the year 2019/2020 has increased by 5% as compared to previous year. With such rise, the contribution from individual crops such as banana 12%, maize and sorghum 7% each and cassava 8% was noticeable among others. While the production of paddy rice, Irish potatoes and beans decreased by 11 percent, 12 percent and 9 percent respectively.

As indicated by USAS 2020 results, the annual average yield for of main crops in Rwanda varied by crops as well as by categories of farmers². Without a surprise, the average yields for large scale farmers were relatively higher as compared to small scale farmers (see section III). Overall, the average yield for maize was 1.5 t/ha, 1 t/ha for sorghum, 3.9 t/ha for paddy rice, 1t/ha for wheat, 14.6t/ha for cassava, 7.1/ha for sweet potato, 8.2t/ha for Irish potato, 6.5 t/ha for yams and taro, 18.04 t/ha for cooking banana, 15.79 t/ha for desert banana, 9.8 t/ha for banana for beer, 9.07 t/ha for banana as whole, 0.68 t/ha for bean, 0.45 t/ha for groundnut, 0.81 t/ha for pea, 0.49 t/ha for soybean, 9.4 t/ha for vegetables and 4.96 t/ha fruits.

Use of inputs

The results of USAS 2020 prove that 35.2%, 15.6% and 30.6% of farmers used improved seeds in season A, B and C respectively. In addition, 63.6%, 51.7% and 76.1% used organic fertilizers while 33.8%, 25.8% and 67.5% used inorganic fertilizers in respective seasons. Moreover 21.2%, 15.3% and 64.1% of farmers used pesticides. Most of improved seed used were sourced from agro-dealers. In terms of specific fertilizers, DAP, UREA and NPK are inorganic fertilizers mostly used in 2020 agricultural year while Rocket, Dithane and Cypermethrin were reported as most used pesticides in 2020.

Agricultural practices

The findings also show that nearly 90% of interviewed farmers protected the cultivated land against erosion throughout the year, with 28% of farmers were involved in irrigation, while about 32% of interviewed farmers practiced agroforestry. Here under in the table 0, main indicators covered during the USAS 2020 are summarised.

² The farmers covered in the survey are both large scale farmers and small-scale farmers

Table 0. Summary of Seasonal Agricultural Survey main indicators

| SAS main indicators | SAS 2018 | | | SAS 2019 | | | SAS 2020 | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Cultivated area for major crops (Ha) | | | | | | | | | |
| Maize | 218,179 | 78,151 | - | 215,159 | 73,139 | - | 221,521 | 72,918 | |
| Sorghum | 27,151 | 116,986 | - | 30,467 | 131,383 | - | 33,295 | 136,124 | |
| Paddy rice | 16,938 | 16,739 | - | 14,671 | 18,225 | - | 14,507 | 15,077 | |
| Wheat | 4,490 | 7,735 | - | 5,487 | 7,747 | - | 4,187 | 8,122 | |
| Cassava | 194,717 | 188,485 | - | 195,135 | 187,511 | - | 190,447 | 192,156 | |
| Sweet potato | 87,456 | 79,983 | 5,683 | 97,639 | 80,919 | 5,331 | 89,427 | 84,545 | 5,583 |
| Irish potato | 50,836 | 60,644 | 7,740 | 49,728 | 49,244 | 8,618 | 51,516 | 43,950 | 9,028 |
| Yams & Taro | 11,406 | 19,287 | - | 12,695 | 15,469 | - | 18,058 | 14,565 | |
| Banana | 224,053 | 232,420 | - | 253,996 | 236,417 | - | 272,500 | 207,635 | |
| Cooking banana | 85,524 | 90,175 | | 86,707 | 81,010 | | 106,409 | 62,054 | |
| Dessert banana | 30,110 | 34,153 | | 32,036 | 37,398 | | 39,688 | 30,911 | |
| Banana for beer | 111,213 | 108,091 | | 135,252 | 118,009 | | 126,403 | 114,670 | |
| Bean | 287,218 | 269,105 | 885 | 299,443 | 282,099 | 1,128 | 362,199 | 283,104 | 2,681 |
| Pea | 15,121 | 10,612 | 228 | 17,658 | 6,859 | 255 | 10,530 | 6,229 | 502 |
| Groundnut | 20,474 | 20,983 | - | 23,929 | 19,990 | - | 14,609 | 21,292 | |
| Soybean | 24,011 | 30,431 | 351 | 24,593 | 21,543 | 559 | 24,677 | 22,974 | 837 |
| Vegetables | 13,794 | 12,480 | 3,017 | 15,012 | 14,976 | 3,744 | 18,246 | 15,939 | 5,912 |
| Fruits | 5,975 | 6,677 | - | 8,383 | 7,454 | - | 7,256 | 7,824 | |
| Harvested area for major crops (Ha) | | | | | | | | | |
| Maize | 218,179 | 78,151 | - | 215,159 | 73,139 | - | 221,521 | 72,918 | |
| Sorghum | 27,151 | 116,986 | - | 30,467 | 131,383 | - | 33,295 | 136,124 | |
| Paddy rice | 16,938 | 15,842 | - | 14,671 | 18,225 | - | 14,507 | 15,077 | |
| Wheat | 4,490 | 7,735 | - | 5,487 | 7,747 | - | 4,187 | 8,122 | |
| Cassava | 35,897 | 56,216 | - | 36,960 | 44,667 | - | 41,160 | 46,509 | |
| Sweet potato | 87,456 | 79,983 | 5,683 | 97,639 | 80,919 | 5,331 | 89,427 | 84,545 | 5,583 |
| Irish potato | 50,836 | 60,644 | 7,740 | 49,728 | 49,244 | 8,618 | 51,516 | 43,950 | 9,028 |
| Yams & Taro | 11,411 | 19,287 | - | 12,695 | 15,469 | - | 14,450 | 14,565 | |
| Banana | 61,976 | 63,140 | - | 82,523 | 74,733 | - | 99,876 | 79,107 | |
| Cooking banana | 21,389 | 19,767 | | 25,340 | 20,155 | | 35,735 | 22,089 | |
| Dessert banana | 5,165 | 7,355 | | 8,342 | 10,517 | | 14,980 | 11,337 | |
| Banana for beer | 35,397 | 36,018 | | 48,841 | 44,060 | | 49,161 | 45,681 | |
| Beans | 287,218 | 269,105 | 885 | 299,443 | 282,099 | 1,128 | 362,199 | 283,104 | 2,681 |
| Pea | 15,121 | 10,612 | 228 | 17,658 | 6,859 | 255 | 10,530 | 6,229 | 502 |
| Groundnut | 20,474 | 20,983 | - | 23,929 | 19,990 | - | 14,609 | 21,292 | |
| Soybean | 24,011 | 30,431 | 351 | 24,593 | 21,543 | 559 | 24,677 | 22,974 | 837 |
| Vegetables | 13,649 | 12,480 | 3,017 | 14,801 | 14,972 | 3,744 | 4,778 | 15,945 | 5,912 |
| Fruits | 4,263 | 4,522 | - | 6,585 | 5,623 | - | 9,988 | 4,978 | |

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

| SAS main indicators | SAS 2018 | | | SAS 2019 | | | SAS 2020 | | |
|---|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|
| | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Crop area under permanent crop (%) | | | | | | | | | |
| 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 | | | | |
| Production for major crops (MT) | | | | | | | | | |
| Maize | 332,670 | 91,534 | - | 331,090 | 90,128 | - | 353,999 | 94,634 | |
| Sorghum | 36,581 | 118,111 | - | 37,584 | 122,042 | - | 42,231 | 128,258 | |
| Paddy Rice | 57,934 | 55,946 | - | 59,286 | 72,291 | - | 52,225 | 64,279 | |
| Wheat | 5,950 | 7,525 | - | 7,082 | 8,605 | - | 4,138 | 8,673 | |
| Cassava | 486,440 | 640,759 | - | 523,117 | 658,708 | - | 578,545 | 701,037 | |
| Sweet potato | 661,583 | 498,790 | 26,358 | 674,257 | 546,788 | 26,539 | 635,007 | 611,425 | 29,182 |
| Irish potato | 439,512 | 396,064 | 80,487 | 468,931 | 422,266 | 82,211 | 427,471 | 352,441 | 78,609 |
| Yams & Taro | 70,653 | 97,331 | - | 71,104 | 100,700 | - | 85,414 | 102,628 | |
| Banana | 952,684 | 817,013 | - | 1,020,141 | 830,491 | - | 1,100,082 | 931,991 | |
| Cooking banana | 406,044 | 353,652 | - | 456,351 | 364,566 | - | 502,972 | 410,259 | |
| Dessert banana | 112,283 | 117,057 | - | 112,937 | 128,273 | - | 120,868 | 138,090 | |
| Banana for beer | 434,356 | 346,304 | - | 450,853 | 354,930 | - | 476,241 | 383,641 | |
| Bean | 251,189 | 233,540 | 1,027 | 252,569 | 230,744 | 938 | 226,570 | 209,383 | 2,782 |
| Pea | 9,001 | 5,689 | 137 | 9,115 | 6,136 | 149 | 7,933 | 5,668 | 352 |
| Groundnut | 12,546 | 9,734 | - | 9,362 | 10,200 | - | 5,762 | 10,542 | |
| Soybean | 12,156 | 10,427 | 227 | 13,638 | 10,588 | 299 | 12,284 | 10,955 | 516 |
| Vegetables | 162,938 | 145,272 | 40,417 | 158,927 | 155,506 | 36,072 | 160,114 | 166,272 | 52,492 |
| Fruits | 35,883 | 17,711 | | 48,791 | 29,002 | - | 23,542 | 24,830 | |
| Yield for major crops (Kg/ha) | | | | | | | | | |
| Maize | 1,525 | 1,171 | - | 1,647 | 1,183 | - | 1,598 | 1,298 | - |
| Sorghum | 1,347 | 1,010 | - | 1,234 | 954 | - | 1,268 | 942 | - |
| Paddy Rice | 3,420 | 3,532 | - | 4,041 | 4,008 | - | 3,600 | 4,264 | - |
| Wheat | 1,325 | 973 | - | 1,291 | 1,111 | - | 988 | 1,068 | - |
| Cassava | 13,540 | 11,398 | - | 14,153 | 14,842 | - | 14,056 | 15,073 | - |
| Sweet potato | 7,565 | 6,236 | 4,638 | 6,918 | 6,757 | 4,979 | 7,101 | 7,232 | 5,227 |
| Irish potato | 8,646 | 6,531 | 10,399 | 9,953 | 8,688 | 9,540 | 8,298 | 8,019 | 8,707 |
| Yams & Taro | 6,194 | 5,047 | - | 5,601 | 6,510 | - | 5,911 | 7,046 | - |
| Banana | 15,378 | 12,940 | | 12,362 | 11,113 | | 10,861 | 11,781 | - |
| Cooking banana | 19 | 18,970 | 17,891 | 18 | | | 13,794 | 18,573 | - |
| Dessert banana | 21.7 | 21,693 | 15,915 | 13.5 | | | 7,927 | 12,180 | - |
| Banana for beer | 12.3 | 12,271 | 9,615 | 9.2 | | | 9,606 | 8,398 | - |
| Beans | 875 | 868 | 1,160 | 891 | 841 | 831 | 626 | 740 | 1,038 |
| Pea | 595 | 536 | 600 | 516 | 895 | 585 | 753 | 910 | 702 |
| Groundnut | 613 | 464 | - | 391 | 510 | - | 394 | 495 | - |
| Soybean | 506 | 343 | 646 | 555 | 501 | 535 | 498 | 477 | 617 |
| Vegetables | 11,938 | 11,641 | - | 10,738 | 10,386 | - | 8,775 | 10,428 | 8,879 |
| Fruits | 8,418 | 3,916 | - | 7,409 | 5,373 | - | 4,927 | 4,988 | - |

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

| | SAS 2018 | | | SAS 2019 | | | SAS 2020 | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Share of pure crop in agricultural land | | | | | | | | | |
| Small Scale Farmers | 36 | 32 | 78 | 23.3 | 34 | 68.6 | 28.3 | 32.3 | 74.3 |
| Large Scale Farmers | 95.3 | 96.6 | - | 97.6 | 98.3 | - | 96.6 | 93.5 | - |
| Percentage of plots with improved seeds | - | - | - | 11 | 6 | 13 | 27.8 | 11.2 | 16.74 |
| Percentage of plots with organic fertilizer use | - | - | - | 52.8 | 43.8 | 66.7 | 61.9 | 52.4 | 67 |
| Percentage of plots with inorganic fertilizers use | - | - | - | 26 | 21 | 43 | 28 | 20.7 | 50.9 |
| Percentage of plots with pesticides use | - | - | - | 18.1 | 14.7 | 42.3 | 16.02 | 11.2 | 54.4 |
| Percentage of farmers who used improved seeds | - | - | - | 22.4 | 11.8 | 14.6 | 35.2 | 15.6 | 30.6 |
| Percentage of farmers who used organic fertilizer | - | - | - | 53.3 | 47 | 67 | 63.6 | 51.7 | 76.1 |
| Percentage of farmers who used inorganic fertilizers | - | - | - | 26.1 | 23.1 | 42.4 | 33.8 | 25.8 | 67.5 |
| Percentage of farmers who used pesticides | - | - | - | 17.6 | 15 | 42 | 21.2 | 15.3 | 64.1 |
| Percentage of farmers who practiced irrigation | - | - | - | 3.1 | 3.5 | 26.4 | 6.5 | 11.8 | 66.9 |
| Percentage of farmers who practiced anti-erosion activities | - | - | - | 72.5 | 74 | 86 | 88.9 | 88.0 | 94.6 |
| Percentage of land area sown with improved seeds | - | - | - | 10.9 | 6 | 12 | 34.3 | 15.2 | 20.5 |
| Percentage of fertilized land with organic fertilizer | - | - | - | 57.2 | 46.5 | 70.6 | 59.9 | 48.7 | 66.1 |
| Percentage of fertilized land with inorganic fertilizer | - | - | - | 26.3 | 21 | 56 | 32.1 | 24.0 | 64.4 |
| Percentage of land with pesticides application | - | - | - | 17.1 | 14.2 | 58.9 | 19.6 | 14.1 | 67.4 |
| Total land area (,000Ha) | - | - | - | 2,377 | 2,377 | | 2,377 | 2,377 | - |
| Agriculture land (,000Ha) | - | - | - | 1,411 | 1,415 | - | 1,395 | 1,395 | - |
| Percentage of agricultural area | - | - | - | 59 | 60 | - | 58.7 | 58.7 | - |
| Area under permanent crops (,000Ha) | - | - | - | 514 | 496 | - | 554 | 592 | - |
| Area under permanent pasture (,000Ha) | - | - | - | 147 | 151 | - | 147.9 | 140.7 | - |
| Modern irrigated agricultural land (,000Ha) | - | - | - | 18 | 21 | - | 19 | 22 | - |
| Area under seasonal crops(,000Ha) | - | - | - | 1,041 | 1,025 | - | 1,042 | 1,069 | - |
| Temporary fallow land(,000Ha) | - | - | - | 108 | 115 | - | 105 | 129 | - |
| Temporarily meadow and pasture(,000Ha) | - | - | - | 8 | 8 | - | 10.6 | 13.8 | - |

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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
Survey 123: Electronic instrument or questionnaire for farmer interview data collection
System, suite of data processing tools
USAS: Upgraded Seasonal Agricultural Survey

I. INTRODUCTION

Agriculture continues to be one of the most important growth pillars 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.

Agriculture statistics are therefore essential to evaluate the performance of national agricultural programs, with the aim to inform policy makers and potential users in the agriculture sector. In that regard, the National Institute of Statistics of Rwanda (NISR) in collaboration with the Ministry of Agriculture and Animal Resource (MINAGRI) conduct Seasonal Agricultural Survey (SAS) in order to cover various information mainly related to potential agricultural land use, crop area, yield, production, agricultural inputs, agricultural practices and other relevant agricultural information. In addition, survey's data are supplemented by administrative records on tea and coffee from the National Agriculture Export Board (NAEB) collected through its routine activities. Other agriculture related information is obtained from MINAGRI working closely with Rwanda Agriculture Board (RAB), Districts agronomists and other partners working in agriculture sector.

The NISR has steered the second upgraded Seasonal Agriculture Survey edition that covered three main agricultural seasons A,B and C, providing more comprehensive data on Rwandan agriculture sector. To ensure more precise estimates at the district level the number of secondary sampling units (segments) were increased from 780 up to 1200 segments.

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 2020 Upgraded 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 growncrop
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 USAS used 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, 2020

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, 2020

In addition, tea plantation class data 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)

| District | Stratum | Dominant hill crop land | Dominant wetland crops | Dominant rangeland | Mixed stratum | Excluded 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 | 15,494 | 23,433 | 75,435 | 269,989 |

Source: NISR, SAS, 2020

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 2020 agricultural year, the sample of segments was increased in order to improve agriculture statistics where sample increased from 780 (sample used from 2018 to 2019) to 1200 segments. At first stage, 1200 segments were selected and allocated at district level based on the power allocation approach (Bankier³, 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

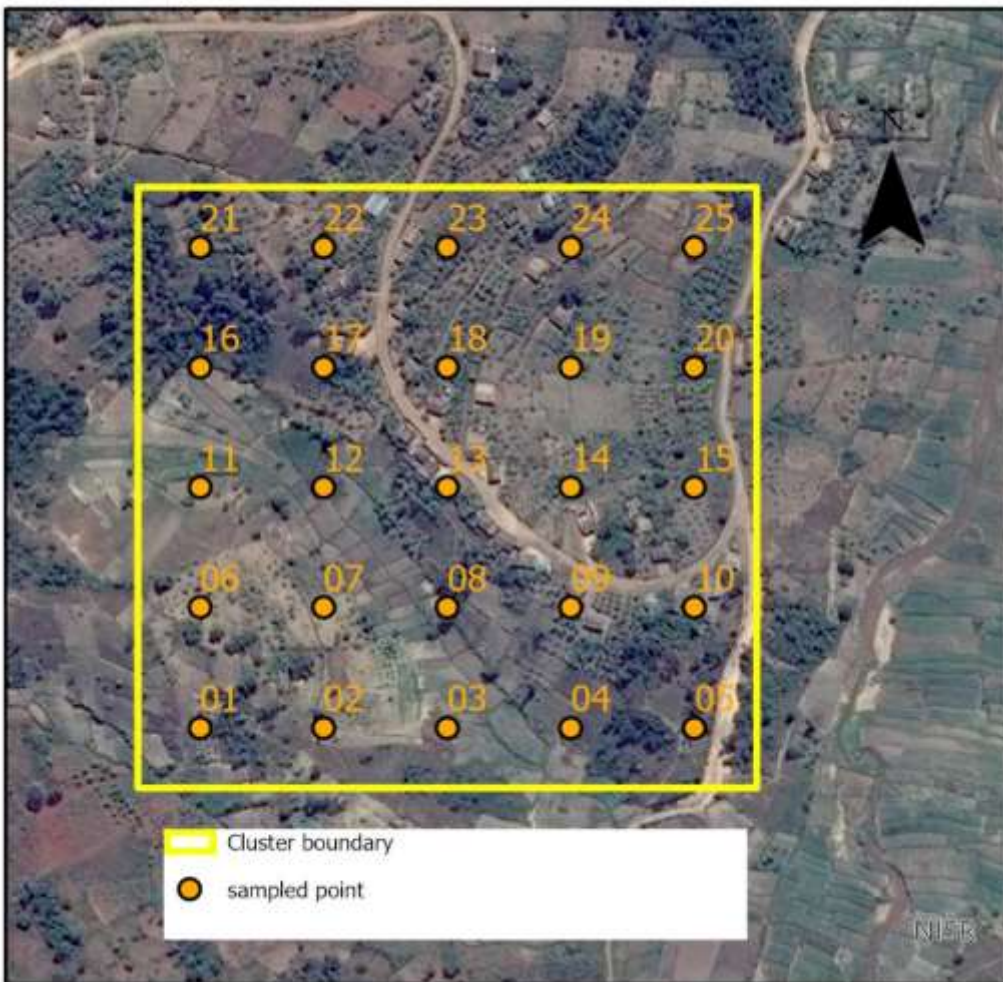
| District | Stratum Dominant hill crop land | Dominant wetland crops | Dominant rangeland | Mixed stratum | Total A & B | Season C |
|--------------|---------------------------------------|---------------------------|-----------------------|------------------|----------------|------------|
| Nyarugenge | 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 | 1200 | 503 |

Source: NISR, SAS, 2020

³Bankier 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, 2020

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:

p_{2h} = Probability of selection of the plot in segment h

g_{hi} = Number of grid squares selected in the i-th sample segment of stratum h;

A_{hij} = Area of the j-th sample plot selected in the i-th sample segment of stratum h

A_{hi} = Area of the i-th sample segment of stratum h;

g_{hij} = 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 USAS 2020 exercise, data collection was conducted into two separate phases: 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 USAS workload, NISR employed 152 Enumerators, 31 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.

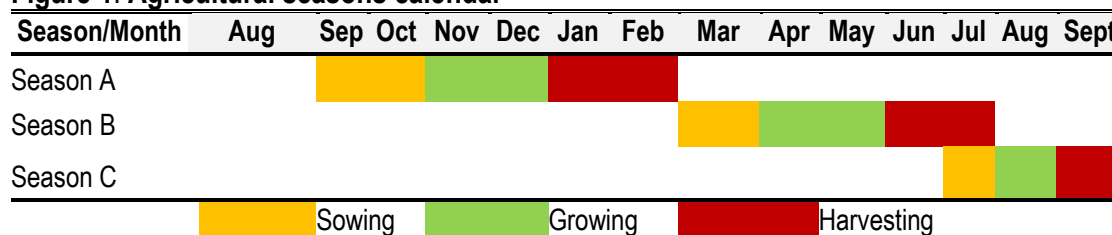
Moreover, a higher-level supervision was organised and done by staff from NISR who frequently visited the field teams during each phase of data collection in order to ensure the quality of collected data.

2.2.1 USAS timeframe and agricultural seasons in Rwanda

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

- Season A started in September 2019 and ended with February 2020
- Season B started in March 2020 and ended with 2020; while
- Season C that starts in July and ends in September of the same year, it is a short agricultural season with vegetables and sweet potato predominantly grown in marshlands, whereas Irish potato are grown in volcanic agro-ecological zone.

Figure 1: Agricultural seasons calendar



Source: NISR, SAS, 2020

Specifically, During the 2020 USAS, the field work for season A covered the period from 2nd December 2019 to 4th February 2020 while season B data collection was conducted from 02nd June to 16th July 2020. In both cases, data collection was carried out in 1,200 segments and 293 large-scale farmers' holdings. Besides, the data collection was carried out in 1502 sites potential to grow season C crops in addition to 503 segments and covered the period from 2nd to 23rd August.

2.2.2 Data collection tools and materials

Upgraded 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 USAS 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. Field 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 has 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

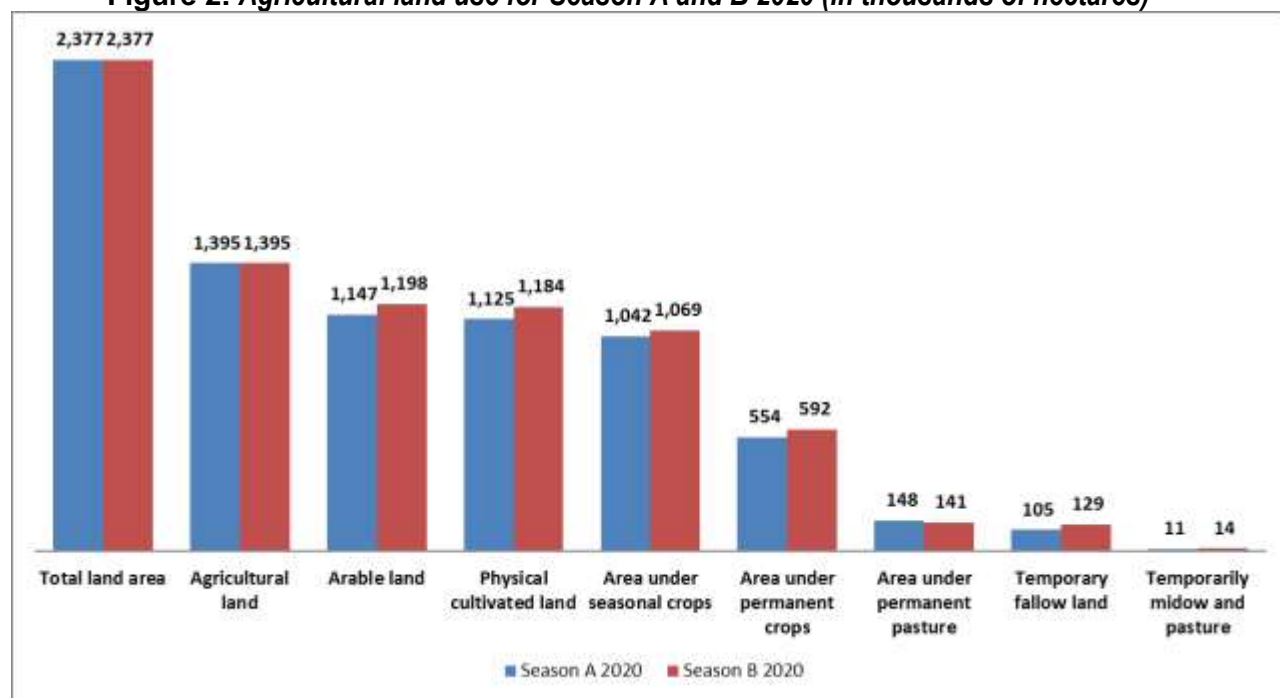
Crop production is the product of crop yield and crop area (harvested). At district level, crop production is estimated by taking crop yield of crop produces times the total harvested area in the district.

III. MAIN FINDINGS OF USAS 2020

This section presents the main findings covered during the USAS 2020 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 2020 Season A and B

Figure 2: Agricultural land use for Season A and B 2020 (in thousands of hectares)



Source: NISR, SAS, 2020

Figure 5 shows that during 2020-year, agricultural land at 1.4 million hectares (59 percent of total country land), from which 1.14 million of hectares and 1.19 million hectares was arable land in season A and B respectively. In 2019/2020 agricultural year, the total physical crop area under cultivation was estimated at 1.1million hectares (81 percent of total agricultural land) and increased by 2 percent when compared to 2018/2019 agricultural year. Out of physical cultivated area, 1 million hectares was used for seasonal crops while 0.5 million hectares of land was covered by permanent crops.

3.2 Crop area, yield and production for major crops

Maize:

- The results of 2020 Season A show that the cultivated area under maize was 221,521 ha, which is up by 3 percent compared to 2019 season A. Likewise, in the same season, the total production increased by 7 percent when compared with 2019 season A, with the general production of 353,999 MT. The average yield of maize was estimated at 1,598 kilograms per hectare.
- The results of 2020 Season B show that the cultivated area under maize remained unchanged as compared to 2019 season B estimates, with an estimated area of 72,918ha. However, the total production noted an increment of 5 percent from 2019 season B estimates with the overall production of 94,634 MT. The average yield of maize was estimated at 1,298 kilograms per hectare (see district details in table 8- 19).

Sweet potato:

- The results of 2020 season A indicate that the cultivated area for sweet potato was 89,427 ha, down by 8 percent compared with 2019 season A. Similarly, the production decreased by 6 percent compared to 2019 season A production with a total of 635,007 MT generally produced. The average yield of sweet potato was estimated at 7,101 kilograms per hectare
- The results of 2020 Season B, indicate that the cultivated area under sweet potato was 84,545 ha, an increase of 4 percent compared to 2019 season B. The production increased by 12 percent compared with 2019 season B, with the overall 611,425 MT produced. The average yield of sweet potato was estimated at 7,232 kilograms per hectare
- The results of 2020 season C shows that the cultivated area under sweet potatoes was 5,583 ha an increase of 5 percent compared to 2019 season C. Likewise, the production for 2020 season C increased by 10 percent when compared to the same season of the previous year. The average yield of sweet potato was estimated at 5,227 kilograms per hectare (see district details in table 8-19).

Irish potatoes:

- The results of 2020 season A show that cultivated area under Irish potato was 51,516 ha an increase of 4 percent when compared to 2019 season A. The production decreased by 9 percent when compared to 2019 season A with a total of 427,471 MT produced. The average yield of Irish potato was estimated at 8,298 kilograms per hectare
- The results of 2020 Season B revealed that the cultivated area under Irish potato totaled 43,950 ha, recording a decrease of 11 percent when compared to 2019 season B estimates. The production dropped by 17 percent when compared to 2019 season B, with overall production of 352,441 MT. The average yield of Irish potato was estimated at 8,019 kilograms per hectare (see district details in table 8-19).
- The results of 2020 season C show that the cultivated area under Irish potatoes was 9,028 ha an increase of 5 percent when compared to 2019 season C. By contrast, the production dropped down to

4% with the overall production estimated at 78,609MT. The average yield for Irish potatoes was estimated at 8,707 kilograms per hectare (see district details in table 8-19).

Cassava:

- The results of 2020 Season A, the cultivated area under cassava was estimated at 190,447 ha, down by 2 percent when compared to 2019 season B. The production increased by 11 percent compared with 2019 season A estimates with the overall production of 578,545 MT. The average yield of cassava was estimated at 14,056 kilograms per hectare.
- The results of 2020 Season B show that cassava cultivated area was estimated at 192,156 ha, an increase of 2% recorded against 2019 season B. Similarly, the production was estimated at 701,037 MT an increase of 6 percent as compared to 2019 season B. The average yield of cassava was estimated at 15,073 kilograms per hectare (see district details in table 8- 19).

Paddy rice:

- The results of 2020 season A show that the cultivated area under rice was estimated at 14,507 ha, a slight decrease of 1 percent when compared to the 2019 season A. The production decreased by 12 percent when compared to 2019 season A, with the overall production of 52,225 MT. The average yield of paddy rice was estimated 3,600 kilograms per hectare.
- The results of 2020 season B show that the cultivated area under rice was estimated at 15,077 ha, a decrease of 17 percent compared to the 2019 season B. Similarly, paddy rice production decreased by 11 percent when compared to 2019 season B with seasonal production of 64,279 MT. The average yield of paddy rice was estimated at 4,264 kilograms per hectare (see district details in table 8-19).

Banana:

- The results of 2020 Season A show that the overall cultivated area under banana at 272,500 ha, which is an increase of 7 percent compared to 2019 season A. Banana production increased by 8 percent when compared to 2019 season A with a total production of 1,100,082 MT. The average yield of banana was estimated at 10,861 kilograms per hectare.
- The results of 2020 Season B, show that the cultivated area under banana was estimated at 207,635, a decrease of 12 percent when compared to 2019 season B. However, the production increased by 12 percent when compared to 2019 season and was estimated at 931,991 MT. The average yield of banana is estimated 11,781 kilograms per hectare (see district details in table 8-19).

Beans:

- The results of 2020 Season A show that the cultivated area under beans increased considerably by 21 percent when compared to 2019 season A, with total area of 362,199 ha. However, the production dropped down by 10 percent when compared to 2019 season A with the overall production of 226,570 MT. The average yield of beans was estimated at 626 kilograms per hectare.

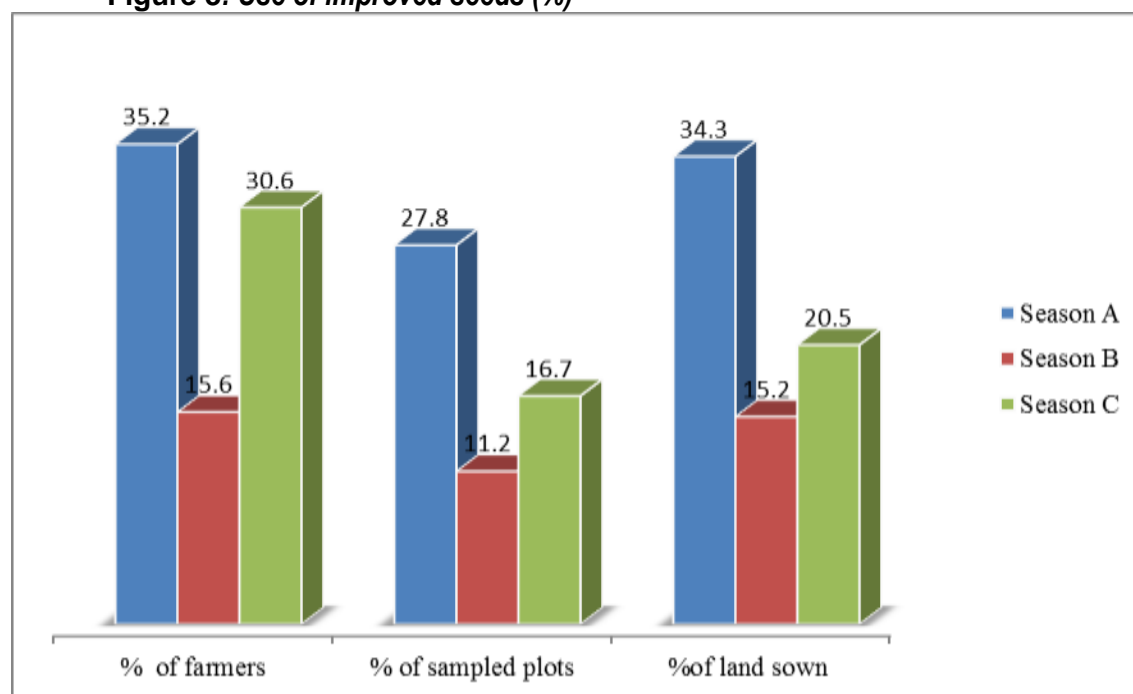
- The results of 2020Season B, the cultivated area under beans was estimated at 283,104 ha, and remained unchanged from 2019 season B. Beans production dropped down by 9 percent from the 2019 season B with the overall production of 209,383 MT. The average yield of beans was estimated at 740 kilograms per hectare.
- The results of 2020Season C show that both cultivated area and production for beans have significantly increased by 138% and 197% with overall estimates of 2,681 ha and 2,782 MT respectively. The average yield was estimated at 1,038 kilograms per hectare (see district details in table 8-19).

3.3. Agricultural inputs

The findings related to the use of agricultural inputs (seeds, fertilizers and pesticides) are presented percentage and reflect the farmers who used such agricultural inputs.

3.3.1 Use of seeds

Figure 3: Use of improved seeds (%)



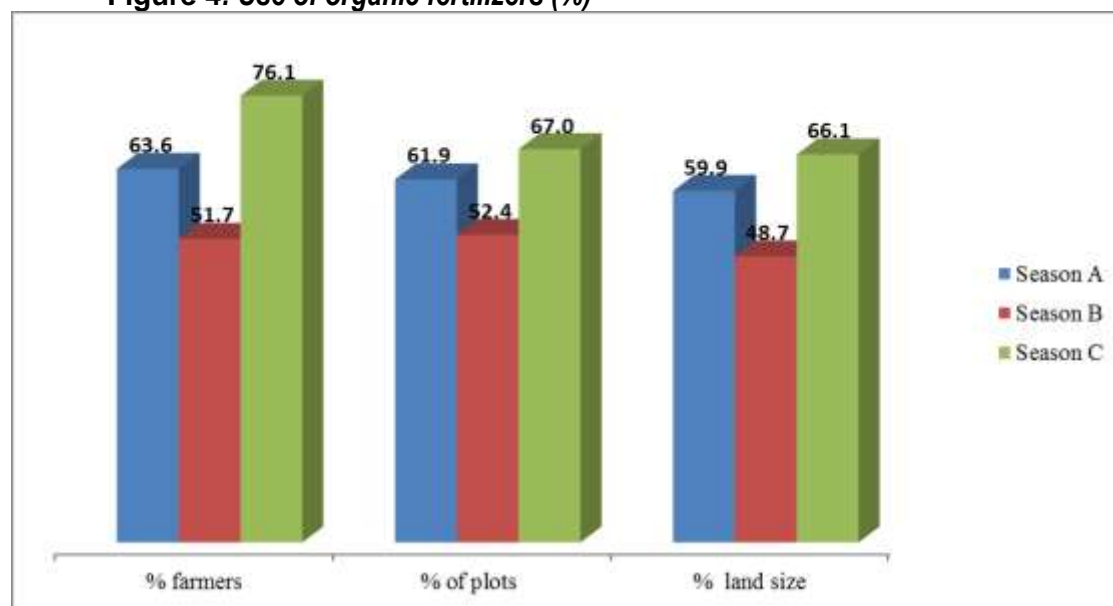
Source: NISR, SAS, 2020

The results of USAS 2020 show that out of the total cultivated land, improved seeds were applied on 34.3 percent, 15.2 percent and 20.5 percent of total cultivated land in season A, Band C respectively. In addition, 35.2 percent, 15.6 percent and 30.6 percent of interviewed farmers have sown improved seeds in season A, B and C respectively. Regarding plots visited, improved seeds were sown on 27.8 percent, 11.2 percent and 16.7 percent of cultivated plots in respective seasons. In terms of source of seeds used, majority of improved seeds were sourced from agro-dealers (36.6 percent in season A, 41.6 percent in season B, and 48.4 percent in season C). In season A, the highest ratio (57.8 percent) of farmers who used

improved seeds were found in Ngoma District, while in season B, Nyabihu had the highest number of farmers who applied improved seeds in their farms with 41.1 percent(see district details in table 29-34).

3.3.2 Use of organic fertilizer

Figure 4: Use of organic fertilizers (%)

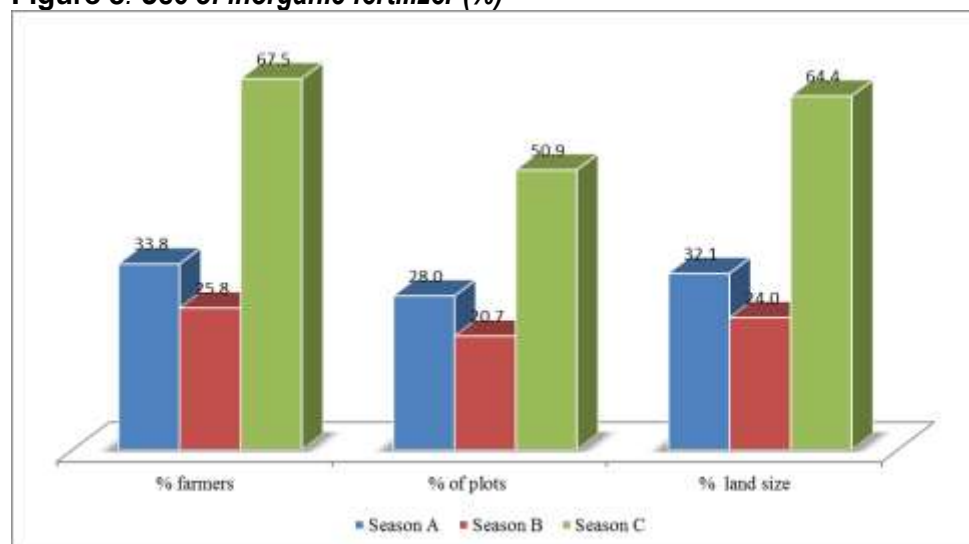


Source: NISR, SAS, 2020

The results show that organic fertilizers were applied on 59.9 percent, 48.7 percent and 66.1 percent of total cultivated area in season A, Band C respectively. Organic fertilizer was applied on 61.9 percent, 52.4 percent and 67 percent of cultivated plots in season A, Band C. In addition, 63.6 percent, 51.7 percent and 76.1 percent of farmers have applied the organic fertilizer in their farms during season A, Band C. During season A, Gakenke and Nyaruguru districts were the topmost users of organic fertilizers with 90.9 percent and 85.2 percent respectively, whereas for season B , Gicumbi and Ngororero districts had the highest ratios of farmers who used organic fertilizers with 80.7 percent and 79.9 percent respectively(see district details in table 35-37).

3.3.3 Use of inorganic fertilizer

Figure 5: Use of inorganic fertilizer (%)

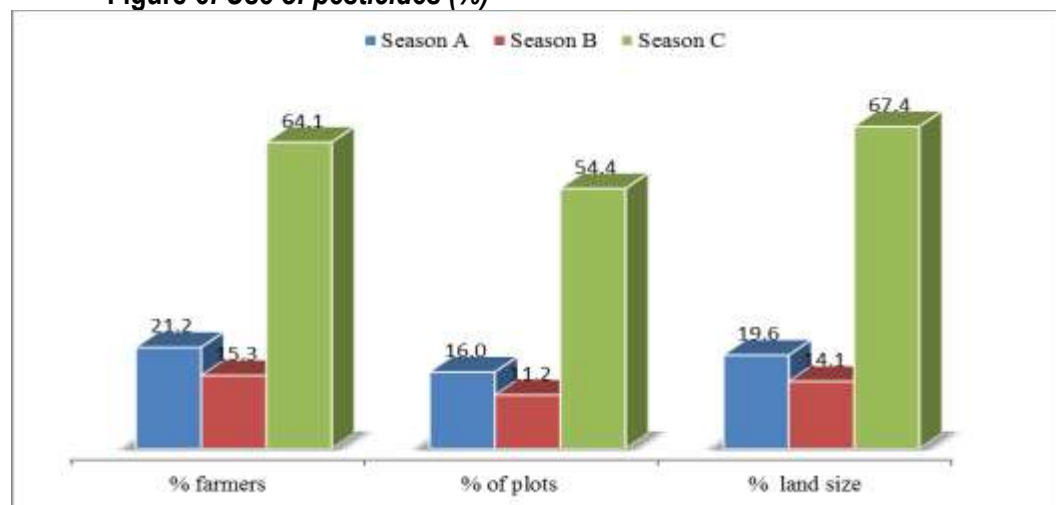


Source: NISR, SAS, 2020

Results show that inorganic fertilizer was applied to 28.0 percent and 20.7 percent and 50.9 percent of cultivated plots in both Season A, Band C, corresponding to 32.1 percent, 24.0 percent and 64.4 percent of total cultivated area in season A, B and C respectively. Regarding farmers, 33.8 percent and 25.8 percent and 67.5 percent of farmers applied different chemical fertilizers in season A, B and C respectively. DAP was most used in Season A and B (43.0 percent and 40.8 percent), followed by UREA (38.2 percent and 33.9 percent) and NPK (15.3 percent and 18.8 percent). (see district details in table 38-47)

3.3.4 Use of pesticides

Figure 6: Use of pesticides (%)



Source: NISR, SAS, 2020

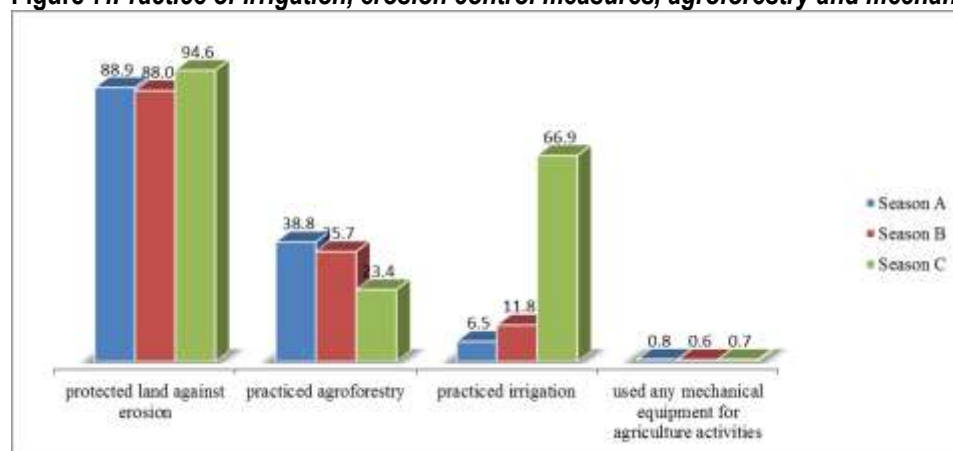
Figure 6 shows that pesticide was applied to 16.0 percent, 11.2 percent and 54.4 percent of cultivated plots in Season A, Band C respectively, corresponding to 19.6 percent, 14.1 percent and 67.4 percent of cultivated land in season A, Band C. In regards to number of farmers, pesticides were used by 21.2 percent, 15.3 percent and 64.1 percent of farmers in Season A and B respectively while 64.1 percent of farmers applied pesticides in season C. Rocket was the most used pesticide in both season A and B (35.2 percent and 27.8 percent), whereas Dithane was widely used in season C with 31.4 percent (see district details in table 48-51).

3.4 Agricultural practices

During the USAS 2020, 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

Figure 7: Practice of irrigation, erosion control measures, agroforestry and mechanical equipment



Source: NISR, SAS, 2020

The results show that throughout the 2020 agricultural year, 6.5 percent, 11.8 percent and 66.9 percent of farmers irrigated their land in season A, B and C respectively. Traditional techniques were predominantly used as irrigation practice with 71.5 percent in Season A, 47.1 percent in Season B and 81.3 percent in Season C. Stream/lake water was the most important source of water used for irrigation of crops throughout seasons (see district details in table 52-58).

Regarding erosion control activities, results indicate that 88.9 percent, 88.0 percent and 94.6 percent of farmers devised anti-erosion measures on their land in Season A, B and C. Among erosion control practices, cover plants emerged as the category of anti-erosion control measure highly practiced by many farmers 50 percent in season A, 49.3 percent in season B and 33.8 percent in season C.

Results show further that 53 percent of plots faced low erosion (splash erosion, wind erosion), 12 percent faced moderate erosion (diffuse overland flow erosion, overland flow erosion), while the rest faced severe erosion (rill erosion, gully erosion, mass movement/landslides).

Moreover, 38.8 percent, 35.7 percent and 23.4 percent of farmers practiced agroforestry in season A, B and C respectively whereas less than 1 percent of farmers used any mechanical equipment in their agricultural activities in both seasons. (see district details in table 52-58).

3.5 Sowing dates

The USAS 2020 Season A results indicate that 22.7 percent of crops were sown in October in the dates between 01-15/10 2019, and those crops include maize, bush beans, soybeans and groundnuts; 15.8 percent of crops were sown in September 2019, while the rest of crops have been sown after October 2019. For 2020 season B, 30.9 percent of the crops were sown before January 2019, 11.4 percent in January 2019, 26.9 percent in February and March 2019 while the rest have been sown after 31/3/ 2019. For Season C 2020, 38.3 percent of crops were grown in June 2020 and 33.9 percent in July 2019 (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 2020 year the gross value added of crops such as maize, sorghum, cassava, sweet potatoes, banana for beer, pea and groundnuts. increased comparing to the 2019 year. While cooking banana, dessert banana, beans, paddy rice, wheat, Irish potatoes, soybean decreased compared to previous year.

Table 5: Main crops Gross Value Added in current prices (Value RWF/ha)

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

Source: NISR, SAS, 2020

MAIN TABLES

Table 6. Season A 2020_Agricultural land use per district (,000Ha)

| District | Total land area | Agricultural land | % of agricultural land | Arable land | Physical cultivated land | Area under seasonal crops | Area under permanent crops | Temporary fallow land | Temporarily meadow and pasture | Area under permanent pasture |
|-----------------|-----------------|-------------------|------------------------|----------------|--------------------------|---------------------------|----------------------------|-----------------------|--------------------------------|------------------------------|
| Nyarugenge | 13.1 | 6.2 | 47.2 | 4.9 | 5.6 | 4.3 | 3.3 | 0.6 | - | - |
| Gasabo | 42.7 | 19.3 | 45.2 | 17.9 | 17.7 | 16.6 | 7.4 | 1.2 | 0.7 | 0.4 |
| Kicukiro | 16.6 | 5.3 | 32.0 | 4.5 | 4.4 | 4.2 | 2.4 | 0.3 | - | 0.6 |
| Nyanza | 67.1 | 44.1 | 65.7 | 41.8 | 39.8 | 38.1 | 15.4 | 3.8 | 0.4 | 0.5 |
| Gisagara | 67.3 | 44.4 | 65.9 | 41.4 | 36.4 | 35.5 | 17.4 | 5.9 | 0.1 | 2.2 |
| Nyaruguru | 100.7 | 37.8 | 37.6 | 32.0 | 30.7 | 27.7 | 11.0 | 4.3 | 0.7 | - |
| Huye | 58.1 | 32.4 | 55.8 | 30.7 | 29.7 | 28.4 | 13.8 | 2.3 | 0.1 | 0.4 |
| Nyamagabe | 109.1 | 46.8 | 42.9 | 41.0 | 40.8 | 36.8 | 13.2 | 4.2 | 0.4 | - |
| Ruhango | 62.6 | 45.1 | 72.1 | 42.3 | 40.5 | 37.8 | 12.6 | 4.4 | 0.7 | 0.2 |
| Muhanga | 64.4 | 38.8 | 60.3 | 33.9 | 33.7 | 28.8 | 17.7 | 5.1 | 0.6 | - |
| Kamonyi | 65.8 | 44.0 | 66.8 | 37.1 | 40.2 | 33.4 | 19.2 | 3.6 | 0.5 | 0.1 |
| Karongi | 78.9 | 45.1 | 57.2 | 37.0 | 37.8 | 32.0 | 15.7 | 5.1 | 0.5 | 0.4 |
| Rutsiro | 66.0 | 41.5 | 62.9 | 30.0 | 30.2 | 26.0 | 17.2 | 4.0 | 0.4 | 6.2 |
| Rubavu | 33.8 | 23.8 | 70.5 | 22.2 | 22.3 | 21.2 | 5.8 | 1.0 | 0.5 | 0.1 |
| Nyabihu | 53.6 | 36.3 | 67.8 | 30.7 | 28.2 | 28.1 | 6.1 | 2.6 | 0.1 | 4.2 |
| Ngororero | 67.5 | 44.3 | 65.7 | 38.3 | 37.0 | 35.2 | 18.9 | 3.1 | 0.3 | 3.2 |
| Rusizi | 91.4 | 36.0 | 39.3 | 33.4 | 34.1 | 32.1 | 13.2 | 1.3 | 0.1 | - |
| Nyamasheke | 94.8 | 43.6 | 46.0 | 34.3 | 38.7 | 32.2 | 18.0 | 2.1 | 0.8 | - |
| Rulindo | 56.7 | 37.6 | 66.4 | 33.1 | 32.8 | 30.9 | 12.6 | 2.2 | 0.2 | 1.1 |
| Gakenke | 70.1 | 49.0 | 69.9 | 43.6 | 46.9 | 41.6 | 20.6 | 2.0 | 0.2 | 0.1 |
| Musanze | 50.9 | 29.8 | 58.5 | 29.1 | 28.4 | 27.8 | 4.1 | 1.3 | 0.2 | - |
| Burera | 58.4 | 36.8 | 62.9 | 36.4 | 33.8 | 33.5 | 5.3 | 3.0 | 0.2 | - |
| Gicumbi | 82.5 | 50.4 | 61.2 | 45.6 | 42.7 | 40.3 | 9.6 | 5.4 | 1.0 | - |
| Rwamagana | 65.3 | 45.9 | 70.2 | 40.5 | 40.3 | 37.6 | 23.1 | 2.9 | 0.4 | 2.7 |
| Nyagatare | 191.1 | 145.9 | 76.3 | 70.0 | 70.6 | 68.0 | 89.7 | 2.0 | 0.3 | 73.3 |
| Gatsibo | 153.6 | 73.5 | 47.9 | 59.2 | 62.4 | 56.8 | 37.7 | 2.3 | 0.1 | 8.8 |
| Kayonza | 179.2 | 93.3 | 52.1 | 62.3 | 55.1 | 53.0 | 47.0 | 9.2 | 0.1 | 29.0 |
| Kirehe | 114.9 | 70.2 | 61.1 | 62.4 | 60.7 | 57.7 | 28.7 | 4.8 | 0.1 | 4.8 |
| Ngoma | 80.5 | 53.6 | 66.5 | 48.3 | 47.1 | 44.2 | 23.8 | 4.1 | 0.2 | 2.3 |
| Bugesera | 120.4 | 74.1 | 61.5 | 62.7 | 56.1 | 52.2 | 23.4 | 10.6 | 0.6 | 7.4 |
| National | 2,377.1 | 1,394.9 | 58.7 | 1,146.6 | 1,124.6 | 1,042.1 | 554.1 | 104.5 | 10.6 | 147.9 |

Source: NISR, SAS 2020

Table 7. Season B 2020_Agricultural land use per district (,000Ha)

| District | Total land area | Agricultural land | % of agricultural land | Arable land | Physical cultivated land | Area under seasonal crops | Area under permanent crops | Temporary fallow land | Temporarily meadow and pasture | Area under permanent pasture |
|-----------------|-----------------|-------------------|------------------------|----------------|--------------------------|---------------------------|----------------------------|-----------------------|--------------------------------|------------------------------|
| Nyarugenge | 13.1 | 6.2 | 47.2 | 4.8 | 6.2 | 4.3 | 3.6 | 0.5 | 0.0 | 0.0 |
| Gasabo | 42.7 | 19.3 | 45.2 | 20.0 | 19.4 | 17.9 | 7.9 | 2.1 | 1.0 | 0.4 |
| Kicukiro | 16.6 | 5.3 | 32.0 | 5.2 | 5.2 | 4.8 | 2.5 | 0.4 | 0.0 | 0.5 |
| Nyanza | 67.1 | 44.1 | 65.7 | 42.7 | 39.5 | 37.5 | 15.5 | 5.2 | 0.5 | 0.4 |
| Gisagara | 67.3 | 44.4 | 65.9 | 40.1 | 35.0 | 33.7 | 15.6 | 6.4 | 0.2 | 0.3 |
| Nyaruguru | 100.7 | 37.8 | 37.6 | 30.3 | 28.0 | 24.7 | 10.7 | 5.6 | 0.7 | - |
| Huye | 58.1 | 32.4 | 55.8 | 31.0 | 29.1 | 27.6 | 13.8 | 3.4 | 0.1 | - |
| Nyamagabe | 109.1 | 46.8 | 42.9 | 41.5 | 41.1 | 36.9 | 14.5 | 4.6 | 0.3 | - |
| Ruhango | 62.6 | 45.1 | 72.1 | 56.6 | 55.4 | 52.7 | 15.6 | 3.8 | 0.8 | 0.2 |
| Muhanga | 64.4 | 38.8 | 60.3 | 43.6 | 45.1 | 37.1 | 25.0 | 6.5 | 0.7 | 0.2 |
| Kamonyi | 65.8 | 44.0 | 66.8 | 41.5 | 43.7 | 38.0 | 20.6 | 3.5 | 0.6 | - |
| Karongi | 78.9 | 45.1 | 57.2 | 41.2 | 41.8 | 34.0 | 21.2 | 7.2 | 0.4 | 0.1 |
| Rutsiro | 66.0 | 41.5 | 62.9 | 31.1 | 28.6 | 24.0 | 18.3 | 7.2 | 0.3 | 5.9 |
| Rubavu | 33.8 | 23.8 | 70.5 | 22.2 | 23.0 | 20.7 | 6.0 | 1.4 | 0.7 | 0.2 |
| Nyabihu | 53.6 | 36.3 | 67.8 | 31.4 | 24.7 | 24.3 | 6.2 | 7.1 | 0.5 | 4.2 |
| Ngororero | 67.5 | 44.3 | 65.7 | 36.4 | 34.9 | 30.4 | 19.3 | 6.0 | 0.3 | 3.5 |
| Rusizi | 91.4 | 36.0 | 39.3 | 32.2 | 35.0 | 30.7 | 13.5 | 1.5 | - | 0.1 |
| Nyamasheke | 94.8 | 43.6 | 46.0 | 32.2 | 37.6 | 30.0 | 19.5 | 2.2 | 0.3 | 0.1 |
| Rulindo | 56.7 | 37.6 | 66.4 | 38.2 | 38.0 | 35.3 | 15.5 | 2.9 | 0.3 | 0.8 |
| Gakenke | 70.1 | 49.0 | 69.9 | 41.4 | 44.5 | 36.6 | 21.2 | 4.7 | 0.1 | - |
| Musanze | 50.9 | 29.8 | 58.5 | 28.5 | 25.7 | 25.1 | 4.2 | 3.4 | 0.3 | - |
| Burera | 58.4 | 36.8 | 62.9 | 38.6 | 34.2 | 33.8 | 4.6 | 4.8 | 0.2 | - |
| Gicumbi | 82.5 | 50.4 | 61.2 | 48.6 | 47.6 | 44.5 | 12.0 | 4.1 | 0.8 | - |
| Rwamagana | 65.3 | 45.9 | 70.2 | 45.4 | 45.1 | 42.0 | 24.5 | 3.4 | 0.3 | 2.6 |
| Nyagatare | 191.1 | 145.9 | 76.3 | 74.4 | 76.3 | 72.1 | 89.5 | 2.2 | 0.0 | 71.3 |
| Gatsibo | 153.6 | 73.5 | 47.9 | 58.8 | 63.8 | 55.1 | 35.3 | 3.7 | 2.6 | 6.2 |
| Kayonza | 179.2 | 93.3 | 52.1 | 60.7 | 58.3 | 55.0 | 48.8 | 5.7 | 0.1 | 30.4 |
| Kirehe | 114.9 | 70.2 | 61.1 | 60.5 | 62.3 | 56.8 | 28.4 | 3.7 | 0.1 | 4.1 |
| Ngoma | 80.5 | 53.6 | 66.5 | 45.6 | 45.3 | 39.9 | 24.2 | 5.7 | 0.5 | 2.4 |
| Bugesera | 120.4 | 74.1 | 61.5 | 73.4 | 70.0 | 62.9 | 33.8 | 10.4 | 1.0 | 7.0 |
| National | 2,377.1 | 1,394.9 | 58.7 | 1,197.9 | 1,184.4 | 1,068.5 | 591.5 | 129.4 | 13.8 | 140.7 |

Source: NISR, SAS 2020

Table 8. Area under agricultural practices

Rwanda Upgraded Seasonal Agricultural Survey

| District | Modern irrigated agricultural land (Ha) | | | Agricultural area under erosion control (Ha) | | | Agricultural area under agroforestry trees | | | Agricultural area under fertilizer application | | | | | |
|-----------------|---|---------------|------------|--|----------------|----------------|--|----------------|---------------|--|----------------|---------------|--------------------|----------------|---------------|
| | | | | | | | | | | Inorganic fertilizer | | | Organic fertilizer | | |
| | 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 | 133 | 60 | 81 | 2,773 | 4,005 | 700 | 2,677 | 2,128 | | 400 | 542 | 305 | 2,977 | 2,525 | 147 |
| Gasabo | 265 | 269 | 93 | 13,326 | 13,422 | 639 | 6,745 | 10,046 | 203 | 3,227 | 2,473 | 280 | 7,927 | 6,899 | 364 |
| Kicukiro | 36 | 133 | 7 | 2,343 | 1,936 | 140 | 1,829 | 2,559 | 8 | 1,437 | 797 | 112 | 2,364 | 1,355 | 49 |
| Nyanza | 563 | 778 | 34 | 31,796 | 32,273 | 1,767 | 15,686 | 14,011 | 190 | 6,334 | 5,111 | 185 | 18,767 | 15,720 | 515 |
| Gisagara | 1,616 | 2,329 | 83 | 23,797 | 22,993 | 1,923 | 15,007 | 13,175 | 215 | 10,770 | 7,705 | 138 | 19,751 | 12,501 | 178 |
| Nyaruguru | 310 | 35 | 92 | 30,390 | 28,613 | 1,949 | 11,330 | 8,330 | 123 | 14,163 | 10,419 | 468 | 21,008 | 16,979 | 853 |
| Huye | 1,077 | 998 | 14 | 25,454 | 23,375 | 1,008 | 9,612 | 8,460 | 81 | 5,798 | 4,566 | 195 | 16,942 | 12,920 | 348 |
| Nyamagabe | - | 9 | 19 | 40,854 | 42,674 | 1,147 | 18,831 | 14,586 | 214 | 12,987 | 12,898 | 131 | 24,866 | 25,163 | 317 |
| Ruhango | 914 | 850 | 16 | 33,706 | 44,799 | 1,655 | 12,990 | 19,399 | 256 | 4,386 | 4,647 | 155 | 20,089 | 24,748 | 430 |
| Muhanga | 158 | 272 | 0 | 35,747 | 45,772 | 572 | 15,280 | 16,598 | 67 | 3,078 | 4,804 | 67 | 22,260 | 26,421 | 150 |
| Kamonyi | 518 | 272 | | 36,126 | 34,619 | 880 | 8,485 | 10,583 | 48 | 4,048 | 3,541 | 83 | 20,920 | 19,836 | 186 |
| Karongi | - | 1 | 28 | 28,244 | 41,142 | 416 | 12,080 | 14,885 | 44 | 10,128 | 8,079 | 28 | 20,394 | 21,076 | 73 |
| Rutsiro | - | | 0 | 27,397 | 32,453 | 200 | 12,992 | 13,136 | 75 | 9,350 | 8,774 | 33 | 18,335 | 16,671 | 55 |
| Rubavu | - | | | 17,934 | 19,566 | 16,337 | 3,575 | 5,345 | 5,066 | 10,015 | 10,667 | 1,271 | 6,973 | 8,110 | 570 |
| Nyabihu | - | | | 24,439 | 26,942 | 23,931 | 14,825 | 14,574 | 13,990 | 16,025 | 14,904 | 3,532 | 18,407 | 13,987 | 3,420 |
| Ngororero | - | 468 | | 35,232 | 32,865 | 232 | 16,893 | 12,113 | 24 | 14,707 | 11,368 | 37 | 28,647 | 24,089 | 86 |
| Rusizi | 1,572 | 455 | 34 | 21,639 | 26,887 | 1,514 | 19,117 | 18,837 | 307 | 17,080 | 7,577 | 102 | 20,061 | 9,531 | 68 |
| Nyamasheke | 342 | 358 | 1 | 32,974 | 33,840 | 554 | 21,188 | 22,965 | 308 | 14,962 | 12,152 | 148 | 22,020 | 21,720 | 228 |
| Rulindo | 76 | 47 | | 30,476 | 37,325 | 1,038 | 12,756 | 11,339 | 261 | 8,029 | 8,075 | 406 | 23,796 | 24,630 | 521 |
| Gakenke | 122 | | 0 | 43,075 | 43,208 | 756 | 12,998 | 14,684 | 210 | 20,490 | 13,772 | 208 | 37,735 | 31,794 | 287 |
| Musanze | 23 | | 5 | 21,966 | 22,334 | 21,450 | 13,050 | 10,441 | 9,023 | 11,444 | 10,820 | 2,050 | 17,405 | 14,511 | 2,063 |
| Burera | - | | 0 | 31,276 | 27,813 | 26,411 | 7,164 | 3,633 | 8,035 | 12,206 | 7,427 | 2,451 | 24,570 | 20,916 | 2,107 |
| Gicumbi | - | | | 40,575 | 45,061 | 580 | 9,930 | 12,482 | 96 | 10,595 | 9,249 | 121 | 30,962 | 36,388 | 210 |
| Rwamagana | 475 | 653 | 91 | 32,059 | 40,234 | 342 | 19,103 | 20,484 | 46 | 12,517 | 9,142 | 234 | 23,057 | 16,207 | 47 |
| Nyagatare | 3,040 | 3,058 | 241 | 38,837 | 36,389 | 2,705 | 53,009 | 50,818 | 548 | 20,709 | 18,979 | 455 | 23,311 | 18,016 | 323 |
| Gatsibo | 1,144 | 1,827 | 0 | 51,457 | 52,003 | 2,383 | 34,551 | 29,145 | 334 | 18,716 | 14,068 | 195 | 33,493 | 25,677 | 215 |
| Kayonza | 718 | 1,403 | 10 | 24,285 | 24,401 | 498 | 30,116 | 37,645 | 99 | 10,784 | 10,611 | 186 | 18,693 | 13,861 | 145 |
| Kirehe | 3,035 | 3,685 | 49 | 41,247 | 35,880 | 155 | 32,248 | 30,807 | 70 | 19,739 | 11,149 | 63 | 33,781 | 17,862 | 73 |
| Ngoma | 989 | 2,189 | 12 | 33,285 | 26,966 | 169 | 27,951 | 22,673 | 58 | 17,140 | 6,765 | 73 | 26,950 | 13,142 | 87 |
| Bugesera | 1,934 | 1,624 | 46 | 29,674 | 34,335 | 251 | 23,937 | 28,642 | | 12,101 | 12,174 | 113 | 15,940 | 20,435 | 87 |
| National | 19,058 | 21,774 | 957 | 882,384 | 934,123 | 112,303 | 495,956 | 494,524 | 39,997 | 333,368 | 263,255 | 13,825 | 622,402 | 533,692 | 14,201 |
| SSF | 3,767 | 5,339 | 871 | 861,765 | 911,527 | | 492,991 | 484,557 | | 311,453 | 245,005 | 13,566 | 610,635 | 523,823 | 13,980 |
| LSF | 15,291 | 16,435 | 87 | 20,619 | 22,596 | | 2,965 | 9,967 | | 21,915 | 18,250 | 259 | 11,767 | 9,869 | 221 |

Source: NISR, SAS 2020

Table 8. Season A 2020_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 | 643 | | | | | 1,052 | 295 | 82 | 59 | 1,973 | 2,335 | | 42 | 202 | 296 | 57 | 48 | 849 | 7,933 |
| Gasabo | 2,844 | | 242 | | 11 | 4,156 | 1,286 | 471 | 138 | 4,724 | 7,394 | 76 | 423 | 306 | 843 | 42 | 1,211 | 756 | 24,922 |
| Kicukiro | 1,098 | | 17 | | 4 | 370 | 538 | 14 | 146 | 1,076 | 1,730 | 7 | 94 | 115 | 110 | 16 | 608 | 137 | 6,082 |
| Nyanza | 5,486 | 300 | 404 | | 26 | 12,980 | 2,228 | 250 | 798 | 9,519 | 17,846 | 71 | 891 | 1,518 | 627 | 15 | 866 | 2,085 | 55,910 |
| Gisagara | 6,501 | 438 | 2,379 | | 276 | 7,209 | 2,341 | 295 | 308 | 9,426 | 14,840 | 57 | 507 | 2,234 | 283 | 309 | 2,326 | 876 | 50,605 |
| Nyaruguru | 6,799 | | | 16 | 7 | 5,037 | 4,415 | 1,367 | 549 | 5,551 | 8,325 | 261 | 92 | 1,058 | 401 | 150 | 900 | 3,808 | 38,736 |
| Huye | 4,094 | | 1,009 | | 341 | 9,358 | 2,675 | 654 | 564 | 7,402 | 12,542 | 193 | 277 | 1,837 | 402 | 133 | 438 | 1,614 | 43,534 |
| Nyamagabe | 4,529 | | | 44 | 25 | 7,743 | 6,885 | 2,470 | 616 | 6,896 | 10,219 | 1,340 | 6 | 1,290 | 442 | 169 | 294 | 3,310 | 46,277 |
| Ruhango | 2,964 | 71 | 1,019 | | 55 | 16,724 | 1,501 | 471 | 882 | 8,481 | 14,355 | 96 | 1,151 | 2,154 | 372 | 17 | 776 | 1,204 | 52,293 |
| Muhanga | 1,715 | 6 | 150 | | 11 | 8,528 | 3,778 | 356 | 2,485 | 16,282 | 6,906 | 68 | 50 | 1,634 | 345 | 128 | 435 | 857 | 43,734 |
| Kamonyi | 3,549 | | 183 | | 11 | 10,845 | 2,200 | 539 | 524 | 12,234 | 14,387 | 66 | 849 | 2,516 | 705 | 984 | 478 | 3,349 | 53,420 |
| Karongi | 7,802 | | | 71 | 28 | 8,508 | 5,153 | 986 | 1,292 | 10,050 | 5,896 | 494 | | 1,007 | 612 | 63 | 951 | 3,103 | 46,016 |
| Rutsiro | 7,033 | | | 320 | | 2,343 | 3,274 | 3,059 | 1,118 | 6,721 | 4,206 | 463 | | 659 | 263 | 639 | 6,539 | 2,851 | 39,489 |
| Rubavu | 1,534 | 127 | | | | 686 | 538 | 6,175 | 94 | 3,136 | 9,320 | 108 | | 216 | 1,664 | 86 | 582 | 1,337 | 25,602 |
| Nyabihu | 2,875 | 972 | | 1,021 | | 857 | 2,630 | 8,961 | 105 | 1,475 | 7,657 | 771 | | | 677 | 120 | 4,227 | 539 | 32,889 |
| Ngororero | 5,539 | 907 | | 464 | | 4,272 | 4,753 | 2,182 | 1,288 | 12,196 | 11,212 | 613 | | 941 | 293 | 183 | 3,362 | 919 | 49,123 |
| Rusizi | 7,632 | 89 | 1,386 | | | 14,315 | 1,759 | 239 | 1,085 | 6,261 | 11,574 | 113 | 339 | 1,070 | 850 | 391 | 54 | 4,160 | 51,316 |
| Nyamasheke | 4,993 | 51 | 328 | 35 | 191 | 10,973 | 4,083 | 111 | 1,838 | 7,263 | 7,764 | 127 | 229 | 1,455 | 381 | 171 | 815 | 7,087 | 47,895 |
| Rulindo | 4,185 | | 17 | 47 | 17 | 4,394 | 5,146 | 1,359 | 105 | 7,477 | 11,459 | 701 | 124 | 264 | 956 | 196 | 1,386 | 1,257 | 39,091 |
| Gakenke | 11,525 | | 122 | 119 | 296 | 6,559 | 6,022 | 1,219 | 1,590 | 13,860 | 8,987 | 439 | 110 | 502 | 441 | 223 | 220 | 1,995 | 54,230 |
| Musanze | 8,107 | 1,901 | | 868 | 29 | 93 | 2,057 | 4,024 | 128 | 2,297 | 7,691 | 832 | | 65 | 661 | 458 | 191 | 902 | 30,304 |
| Burera | 8,504 | 1,606 | | 890 | | 197 | 2,730 | 5,251 | 81 | 3,234 | 11,461 | 1,130 | | 23 | 263 | 90 | 221 | 17 | 35,697 |
| Gicumbi | 4,694 | 298 | | 277 | 8 | 3,479 | 6,308 | 2,874 | 133 | 6,433 | 18,148 | 1,374 | 178 | 101 | 448 | 588 | 870 | 1,175 | 47,385 |
| Rwamagana | 9,070 | 26 | 298 | | 78 | 4,494 | 1,922 | 1,004 | 286 | 13,953 | 18,395 | 203 | 1,496 | 215 | 1,006 | 551 | 3,008 | 1,630 | 57,637 |
| Nyagatare | 26,033 | 12,432 | 1,552 | | 306 | 4,103 | 2,043 | 419 | 50 | 11,080 | 18,542 | 436 | 1,656 | 797 | 1,004 | 165 | 73,590 | 215 | 154,422 |
| Gatsibo | 16,441 | 4,108 | 1,222 | 14 | 217 | 5,856 | 2,373 | 2,349 | 422 | 22,219 | 19,814 | 74 | 1,991 | 570 | 781 | 390 | 8,879 | 3,122 | 90,840 |
| Kayanza | 12,320 | 3,436 | 641 | | 561 | 13,824 | 2,475 | 1,540 | 386 | 12,050 | 19,641 | 89 | 906 | 410 | 1,321 | 319 | 29,090 | 1,034 | 100,043 |
| Kirehe | 19,984 | 1,918 | 1,057 | | 205 | 7,268 | 1,814 | 1,077 | 648 | 20,070 | 24,031 | 222 | 337 | 734 | 778 | 107 | 4,892 | 1,146 | 86,288 |
| Ngoma | 12,842 | 182 | 825 | | 215 | 7,443 | 2,446 | 1,355 | 211 | 18,034 | 17,738 | 50 | 652 | 493 | 468 | 340 | 2,646 | 961 | 66,901 |
| Bugesera | 10,186 | 4,428 | 1,656 | | 165 | 6,779 | 3,757 | 363 | 131 | 11,125 | 17,785 | 59 | 2,208 | 292 | 553 | 156 | 8,018 | 2,436 | 70,096 |
| National | 221,521 | 33,295 | 14,507 | 4,187 | 3,082 | 190,447 | 89,427 | 51,516 | 18,058 | 272,500 | 362,199 | 10,530 | 14,609 | 24,677 | 18,246 | 7,256 | 157,920 | 54,732 | 1,548,710 |
| SSF | 215,307 | 33,256 | 1,268 | 4,167 | 3,082 | 190,377 | 89,410 | 51,364 | 18,057 | 272,314 | 361,498 | 10,529 | 14,602 | 23,900 | 18,149 | 7,001 | 150,729 | 54,076 | 1,519,089 |
| LSF | 6,214 | 39 | 13,239 | 20 | | 70 | 16 | 152 | 1 | 185 | 701 | 1 | 7 | 777 | 97 | 255 | 7,191 | 656 | 29,621 |

Source: NISR, SAS 2020

Table 9. Season B 2020_Cultivated area by crop type per district (ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Other cereals | Cassava | Sweet potato | Irish potato | Taro & Yams | Bananas | Beans | Pea | Groundnut | Soybean | Vegetables | Fruits | Fodder crops | Other crops | Total developed land |
|-----------------|---------------|----------------|---------------|--------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------|---------------|---------------|---------------|--------------|---------------|---------------|----------------------|
| Nyarugenge | 113 | 534 | | | | 789 | 103 | 10 | 28 | 1,410 | 1,142 | 9 | 79 | 178 | 335 | 46 | 14 | 1,026 | 5,815 |
| Gasabo | 906 | 5,679 | 237 | | 19 | 1,324 | 949 | 579 | 104 | 3,082 | 5,088 | 39 | 220 | 215 | 708 | 57 | 767 | 323 | 20,296 |
| Kicukiro | 375 | 1,533 | 20 | | | 328 | 362 | 48 | 20 | 931 | 1,273 | 10 | 73 | 151 | 67 | 37 | 17 | 127 | 5,370 |
| Nyanza | 1,792 | 6,282 | 597 | | 51 | 6,417 | 2,470 | 325 | 457 | 3,458 | 9,526 | 21 | 1,131 | 1,112 | 452 | 235 | 427 | 1,442 | 36,197 |
| Gisagara | 1,860 | 4,552 | 2,434 | | 291 | 8,574 | 2,095 | 206 | 188 | 4,123 | 13,971 | 34 | 746 | 1,974 | 366 | 579 | 165 | 463 | 42,622 |
| Nyaruguru | 488 | 3,723 | | 422 | 7 | 3,210 | 3,681 | 1,424 | 328 | 1,868 | 3,442 | 162 | 49 | 634 | 231 | 169 | 605 | 3,223 | 23,663 |
| Huye | 457 | 8,047 | 957 | | 24 | 4,238 | 2,324 | 257 | 420 | 2,480 | 6,264 | 21 | 319 | 1,824 | 190 | 127 | 117 | 1,275 | 29,340 |
| Nyamagabe | 401 | 5,111 | 18 | 1,046 | 62 | 5,533 | 6,584 | 2,149 | 306 | 4,472 | 5,181 | 1,544 | 19 | 800 | 393 | 137 | 203 | 3,240 | 37,198 |
| Ruhango | 1,018 | 3,490 | 765 | | 49 | 32,901 | 2,901 | 230 | 478 | 7,053 | 10,625 | 71 | 1,962 | 1,965 | 478 | 163 | 792 | 1,021 | 65,961 |
| Muhanga | 263 | 173 | 147 | | 9 | 15,015 | 5,936 | 102 | 1,631 | 16,275 | 9,044 | 32 | | 2,000 | 369 | 210 | 605 | 558 | 52,370 |
| Kamonyi | 2,084 | 3,696 | 195 | | 17 | 8,343 | 3,286 | 612 | 1,038 | 13,615 | 9,758 | 92 | 731 | 1,862 | 946 | 378 | 614 | 2,261 | 49,529 |
| Karongi | 585 | 2,272 | | 284 | 68 | 7,685 | 5,126 | 710 | 906 | 12,980 | 6,689 | 349 | | 1,898 | 491 | 25 | 346 | 2,966 | 43,379 |
| Rutsiro | 1,861 | 31 | | 477 | | 2,443 | 3,110 | 3,416 | 1,336 | 5,094 | 4,894 | 471 | | 453 | 301 | 852 | 207 | 3,154 | 28,098 |
| Rubavu | 1,416 | 626 | | | | 593 | 644 | 5,868 | 176 | 2,173 | 3,437 | 152 | | 141 | 2,269 | 70 | 568 | 1,413 | 19,548 |
| Nyabihu | 3,346 | 72 | | 1,334 | | 231 | 2,425 | 6,436 | 45 | 1,271 | 2,004 | 193 | | 42 | 1,016 | 79 | 349 | 2,641 | 21,484 |
| Ngororero | 1,871 | 9 | | 1,455 | | 1,600 | 6,652 | 1,525 | 933 | 9,087 | 3,451 | 222 | | 734 | 455 | 111 | 276 | 720 | 29,099 |
| Rusizi | 1,099 | 59 | 1,420 | | | 16,763 | 1,806 | 32 | 596 | 3,240 | 6,840 | 127 | 59 | 404 | 187 | 651 | | 3,279 | 36,563 |
| Nyamasheke | 525 | 14 | 358 | 46 | 5 | 10,705 | 3,208 | 66 | 929 | 3,708 | 4,291 | 121 | 628 | 1,784 | 467 | 159 | 297 | 7,410 | 34,722 |
| Rulindo | 1,025 | 4,089 | 17 | 408 | | 6,536 | 3,173 | 1,079 | 139 | 7,513 | 9,938 | 155 | 62 | 167 | 543 | 137 | 201 | 1,058 | 36,241 |
| Gakenke | 1,468 | 507 | 30 | 334 | | 5,194 | 6,409 | 1,085 | 1,117 | 13,537 | 10,748 | 189 | 21 | 383 | 350 | 244 | 113 | 1,821 | 43,549 |
| Musanze | 2,573 | 1,020 | | 530 | | 187 | 1,391 | 3,995 | 201 | 1,391 | 5,779 | 156 | | | 1,242 | 342 | 242 | 2,182 | 21,230 |
| Burera | 2,356 | 5,161 | | 1,591 | 28 | 179 | 3,148 | 3,974 | 135 | 1,925 | 11,209 | 571 | | | 323 | 66 | 198 | 21 | 30,886 |
| Gicumbi | 1,570 | 17,145 | | 196 | | 2,591 | 5,718 | 2,875 | 161 | 6,580 | 11,547 | 888 | 347 | 34 | 368 | 301 | 734 | 995 | 52,049 |
| Rwamagana | 3,345 | 8,439 | 383 | | 41 | 6,918 | 988 | 1,272 | 680 | 10,108 | 8,894 | 71 | 1,383 | 181 | 887 | 1,029 | 306 | 1,457 | 46,383 |
| Nyagatare | 18,556 | 8,384 | 1,598 | | 20 | 11,131 | 1,893 | 871 | 173 | 10,854 | 31,124 | 78 | 3,285 | 1,309 | 761 | 201 | 17 | 175 | 90,428 |
| Gatsibo | 7,020 | 9,091 | 1,557 | | 9 | 1,731 | 1,031 | 1,765 | 378 | 13,236 | 16,946 | 84 | 4,330 | 914 | 202 | 156 | 2,567 | 3,000 | 64,015 |
| Kayanza | 5,540 | 14,906 | 977 | | 144 | 10,242 | 1,753 | 2,090 | 341 | 7,570 | 15,415 | 130 | 1,303 | 223 | 283 | 592 | 133 | 834 | 62,477 |
| Kirehe | 2,918 | 11,875 | 943 | | 177 | 7,222 | 1,501 | 446 | 919 | 9,489 | 19,719 | 197 | 621 | 680 | 404 | 188 | 50 | 941 | 58,294 |
| Ngoma | 1,733 | 3,627 | 828 | | 372 | 10,292 | 1,510 | 236 | 257 | 14,110 | 18,703 | 41 | 644 | 356 | 349 | 282 | 398 | 831 | 54,571 |
| Bugesera | 4,354 | 5,977 | 1,595 | | 29 | 3,241 | 2,369 | 269 | 147 | 15,001 | 16,159 | | 3,280 | 558 | 505 | 202 | 681 | 1,038 | 55,405 |
| National | 72,918 | 136,124 | 15,077 | 8,122 | 1,422 | 192,156 | 84,545 | 43,950 | 14,565 | 207,635 | 283,104 | 6,229 | 21,292 | 22,974 | 15,939 | 7,824 | 12,010 | 50,895 | 1,196,782 |
| SSF | 71,376 | 136,050 | 328 | 8,076 | 1,422 | 192,099 | 84,529 | 43,660 | 14,564 | 207,570 | 281,223 | 6,175 | 21,290 | 22,406 | 15,837 | 7,629 | 11,370 | 50,360 | 1,175,964 |
| LSF | 1,542 | 75 | 14,749 | 46 | - | 57 | 16 | 290 | 2 | 65 | 1,880 | 54 | 3 | 569 | 102 | 196 | 640 | 534 | 20,819 |

Source: NISR, SAS 2020

Table 10. Season C 2020_Cultivated 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 | 26 | 1 | - | 206 | 206 | - | - | 106 | 290 | 629 |
| Gasabo | 76 | 4 | - | 2 | 2 | - | - | - | 374 | 456 |
| Kicukiro | 35 | - | - | 24 | 24 | - | - | 4 | 128 | 191 |
| Nyanza | 211 | 1 | - | 137 | 96 | 41 | 115 | 2 | 302 | 769 |
| Gisagara | 426 | - | - | 185 | 185 | - | 22 | 377 | 252 | 1,262 |
| Nyaruguru | 738 | 258 | - | 282 | 277 | 5 | 46 | 11 | 78 | 1,414 |
| Huye | 327 | 5 | - | 214 | 211 | 4 | 82 | 4 | 212 | 843 |
| Nyamagabe | 428 | 20 | - | 35 | 26 | 9 | 7 | 5 | 50 | 546 |
| Ruhango | 360 | - | - | 33 | 33 | - | 10 | - | 197 | 600 |
| Muhanga | 208 | 32 | - | 91 | 89 | 1 | 37 | 83 | 94 | 544 |
| Kamonyi | 177 | 16 | - | 330 | 330 | 0 | 44 | 28 | 271 | 867 |
| Karongi | 144 | 34 | - | 1 | 1 | - | 2 | 11 | 65 | 257 |
| Rutsiro | 69 | 51 | - | 0 | 0 | - | 38 | - | 28 | 187 |
| Rubavu | 137 | 882 | - | 76 | - | 76 | 24 | - | 267 | 1,386 |
| Nyabihu | 131 | 2,668 | - | 396 | 73 | 324 | 15 | - | 393 | 3,603 |
| Ngororero | 64 | 32 | - | - | - | - | - | 11 | - | 107 |
| Rusizi | - | - | - | - | - | - | - | - | 78 | 78 |
| Nyamasheke | 115 | 1 | - | 0 | 0 | - | - | - | 138 | 254 |
| Rulindo | 141 | 292 | - | 3 | 3 | - | 1 | 44 | 114 | 594 |
| Gakenke | 83 | 185 | - | 41 | 41 | - | 0 | 127 | 57 | 493 |
| Musanze | 154 | 1,939 | - | 350 | 95 | 255 | 54 | - | 549 | 3,046 |
| Burera | 557 | 2,278 | - | 57 | 1 | 56 | 0 | - | 105 | 2,998 |
| Gicumbi | 116 | 217 | - | 49 | 49 | - | - | - | 53 | 434 |
| Rwamagana | 113 | 6 | - | 129 | 129 | - | 0 | 6 | 223 | 477 |
| Nyagatare | 174 | 65 | - | - | - | - | 0 | 0 | 360 | 600 |
| Gatsibo | 175 | 6 | - | 8 | 8 | - | - | - | 266 | 456 |
| Kayonza | 74 | 23 | - | 3 | 3 | - | - | 0 | 249 | 351 |
| Kirehe | 87 | 11 | - | 11 | 10 | 1 | 3 | 15 | 339 | 465 |
| Ngoma | 67 | 0 | - | 7 | 7 | - | 1 | 0 | 132 | 207 |
| Bugesera | 173 | 0 | - | 8 | 8 | - | - | 2 | 247 | 429 |
| National | 5,583 | 9,028 | - | 2,681 | 1,908 | 773 | 502 | 837 | 5,912 | 24,542 |
| 2019C | 5,331 | 8,618 | - | 1,128 | 924 | 204 | 255 | 559 | 3,744 | 19,635 |
| Change | 5% | 5% | 0% | 138% | 106% | 280% | 96% | 50% | 58% | 25% |

Source: NISR, SAS 2020

Table 11. Season A 2020_Harvested area by crop type per district (ha)

| District name | 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 | Developed land |
|---------------|---------|---------|------------|-------|---------------|---------|--------------|--------------|-------------|---------|---------|--------|-----------|---------|------------|--------|--------------|-------------|----------------|
| Nyarugenge | 643 | - | - | - | - | 171 | 295 | 82 | 59 | 1,060 | 2,335 | - | 42 | 202 | 296 | 33 | 16 | 847 | 6,081 |
| Gasabo | 2,844 | - | 242 | - | 11 | 875 | 1,286 | 471 | 138 | 1,805 | 7,394 | 76 | 423 | 306 | 843 | 38 | 768 | 197 | 17,716 |
| Kicukiro | 1,098 | - | 17 | - | 4 | 40 | 538 | 14 | 33 | 460 | 1,730 | 7 | 94 | 115 | 110 | 9 | - | 104 | 4,374 |
| Nyanza | 5,486 | 300 | 404 | - | 26 | 3,650 | 2,228 | 250 | 184 | 3,345 | 17,846 | 71 | 891 | 1,518 | 627 | 6 | 381 | 141 | 37,354 |
| Gisagara | 6,501 | 438 | 2,379 | - | 276 | 998 | 2,341 | 295 | 308 | 3,752 | 14,840 | 57 | 507 | 2,234 | 283 | - | 169 | 181 | 35,559 |
| Nyaruguru | 6,799 | - | - | 16 | 7 | 1,041 | 4,415 | 1,367 | 549 | 1,903 | 8,325 | 261 | 92 | 1,058 | 401 | 123 | 900 | 2 | 27,258 |
| Huye | 4,094 | - | 1,009 | - | 341 | 2,587 | 2,675 | 654 | 564 | 2,721 | 12,542 | 193 | 277 | 1,837 | 402 | - | 56 | 9 | 29,962 |
| Nyamagabe | 4,529 | - | - | 44 | 25 | 1,705 | 6,885 | 2,470 | 190 | 2,592 | 10,219 | 1,340 | 6 | 1,290 | 442 | 137 | 294 | 70 | 32,237 |
| Ruhango | 2,964 | 71 | 1,019 | - | 55 | 3,935 | 1,501 | 471 | 275 | 2,472 | 14,355 | 96 | 1,151 | 2,154 | 372 | - | 606 | 506 | 32,003 |
| Muhanga | 1,715 | 6 | 150 | - | 11 | 1,524 | 3,778 | 356 | 2,485 | 6,114 | 6,906 | 68 | 50 | 1,634 | 345 | 106 | 435 | 291 | 25,974 |
| Kamonyi | 3,549 | - | 183 | - | 11 | 1,729 | 2,200 | 539 | 524 | 4,193 | 14,387 | 66 | 849 | 2,516 | 705 | 904 | 384 | 1,884 | 34,623 |
| Karongi | 7,802 | - | - | 71 | 28 | 1,593 | 5,153 | 986 | 1,292 | 3,997 | 5,896 | 494 | - | 1,007 | 612 | 57 | 555 | 320 | 29,863 |
| Rutsiro | 7,033 | - | - | 320 | - | 177 | 3,274 | 3,059 | 1,118 | 2,846 | 4,206 | 463 | - | 659 | 263 | 497 | 361 | 1,636 | 25,914 |
| Rubavu | 1,534 | 127 | - | - | - | - | 538 | 6,175 | 94 | 1,499 | 9,320 | 108 | - | 216 | 1,664 | 23 | 483 | 988 | 22,768 |
| Nyabihu | 2,875 | 972 | - | 1,021 | - | 109 | 2,630 | 8,961 | 105 | 387 | 7,657 | 771 | - | - | 677 | 42 | 73 | 419 | 26,700 |
| Ngororero | 5,539 | 907 | - | 464 | - | 949 | 4,753 | 2,182 | 1,288 | 3,799 | 11,212 | 613 | - | 941 | 293 | 173 | 141 | 538 | 33,792 |
| Rusizi | 7,632 | 89 | 1,386 | - | - | 1,508 | 1,759 | 239 | 1,085 | 2,797 | 11,574 | 113 | 339 | 1,070 | 850 | 208 | 54 | 452 | 31,155 |
| Nyamasheke | 4,993 | 51 | 328 | 35 | 191 | 2,473 | 4,083 | 111 | 826 | 2,218 | 7,764 | 127 | 229 | 1,455 | 381 | 65 | 815 | 512 | 26,657 |
| Rulindo | 4,185 | - | 17 | 47 | 17 | 693 | 5,146 | 1,359 | 105 | 2,280 | 11,459 | 701 | 124 | 264 | 956 | 140 | 265 | 800 | 28,558 |
| Gakenke | 11,525 | - | 122 | 119 | 296 | 938 | 6,022 | 1,219 | 1,590 | 6,334 | 8,987 | 439 | 110 | 502 | 441 | 178 | 97 | 396 | 39,315 |
| Musanze | 8,107 | 1,901 | - | 868 | 29 | 27 | 2,057 | 4,024 | 128 | 726 | 7,691 | 832 | - | 65 | 661 | 254 | 191 | 902 | 28,463 |
| Burera | 8,504 | 1,606 | - | 890 | - | 42 | 2,730 | 5,251 | 81 | 594 | 11,461 | 1,130 | - | 23 | 263 | 84 | 221 | - | 32,879 |
| Gicumbi | 4,694 | 298 | - | 277 | 8 | 547 | 6,308 | 2,874 | 133 | 1,669 | 18,148 | 1,374 | 178 | 101 | 448 | 447 | 870 | - | 38,373 |
| Rwamagana | 9,070 | 26 | 298 | - | 78 | 1,002 | 1,922 | 1,004 | 286 | 5,572 | 18,395 | 203 | 1,496 | 215 | 1,006 | 380 | 355 | 354 | 41,665 |
| Nyagatare | 26,033 | 12,432 | 1,552 | - | 306 | 1,341 | 2,043 | 419 | 50 | 4,887 | 18,542 | 436 | 1,656 | 797 | 1,004 | 157 | 270 | 163 | 72,088 |
| Gatsibo | 16,441 | 4,108 | 1,222 | 14 | 217 | 1,618 | 2,373 | 2,349 | 46 | 8,901 | 19,814 | 74 | 1,991 | 570 | 781 | 168 | 66 | 74 | 60,825 |
| Kayonza | 12,320 | 3,436 | 641 | - | 561 | 4,747 | 2,475 | 1,540 | 386 | 4,018 | 19,641 | 89 | 906 | 410 | 1,321 | 188 | 131 | 170 | 52,980 |
| Kirehe | 19,984 | 1,918 | 1,057 | - | 205 | 1,404 | 1,814 | 1,077 | 188 | 7,309 | 24,031 | 222 | 337 | 734 | 778 | 74 | 133 | 81 | 61,345 |
| Ngoma | 12,842 | 182 | 825 | - | 215 | 2,842 | 2,446 | 1,355 | 211 | 6,824 | 17,738 | 50 | 652 | 493 | 468 | 181 | 297 | 167 | 47,788 |
| Bugesera | 10,186 | 4,428 | 1,656 | - | 165 | 895 | 3,757 | 363 | 131 | 4,216 | 17,785 | 59 | 2,208 | 292 | 553 | 104 | 600 | 252 | 47,649 |
| National | 221,521 | 33,295 | 14,507 | 4,187 | 3,082 | 41,160 | 89,427 | 51,516 | 14,450 | 101,290 | 362,199 | 10,530 | 14,609 | 24,677 | 18,246 | 4,778 | 9,988 | 12,455 | 1,031,918 |
| SSF | 215,307 | 33,256 | 1,268 | 4,167 | 3,082 | 41,147 | 89,410 | 51,364 | 14,449 | 101,176 | 361,498 | 10,529 | 14,602 | 23,900 | 18,149 | 4,618 | 9,376 | 12,038 | 1,009,338 |
| LSF | 6,214 | 39 | 13,239 | 20 | - | 12 | 16 | 152 | 1 | 114 | 701 | 1 | 7 | 777 | 97 | 160 | 612 | 417 | 22,580 |

Source: NISR, SAS 2020

Table 12. Season B 2020_Harvested 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 | Developed land |
|-----------------|---------------|----------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|---------------|---------------|---------------|--------------|---------------|---------------|----------------|
| Nyarugenge | 113 | 534 | - | - | - | 191 | 103 | 10 | 28 | 735 | 1,142 | 9 | 79 | 178 | 335 | 19 | 14 | 115 | 3,603 |
| Gasabo | 906 | 5,679 | 237 | - | 19 | 345 | 949 | 579 | 104 | 1,313 | 5,088 | 39 | 220 | 215 | 708 | 50 | 767 | 209 | 17,427 |
| Kicukiro | 375 | 1,533 | 20 | - | - | 81 | 362 | 48 | 20 | 402 | 1,273 | 10 | 73 | 151 | 67 | 7 | 17 | 76 | 4,515 |
| Nyanza | 1,792 | 6,282 | 597 | - | 51 | 1,557 | 2,470 | 325 | 457 | 1,118 | 9,526 | 21 | 1,131 | 1,112 | 452 | 124 | 427 | 927 | 28,370 |
| Gisagara | 1,860 | 4,552 | 2,434 | - | 291 | 2,812 | 2,095 | 206 | 188 | 1,648 | 13,971 | 34 | 746 | 1,974 | 366 | 19 | 165 | 266 | 33,628 |
| Nyaruguru | 488 | 3,723 | - | 422 | 7 | 1,354 | 3,681 | 1,424 | 328 | 631 | 3,442 | 162 | 49 | 634 | 231 | 123 | 605 | 762 | 18,063 |
| Huye | 457 | 8,047 | 957 | - | 24 | 887 | 2,324 | 257 | 420 | 930 | 6,264 | 21 | 319 | 1,824 | 190 | 21 | 117 | 1,018 | 24,076 |
| Nyamagabe | 401 | 5,111 | 18 | 1,046 | 62 | 1,174 | 6,584 | 2,149 | 306 | 1,418 | 5,181 | 1,544 | 19 | 800 | 393 | 81 | 140 | 1,048 | 27,474 |
| Ruhango | 1,018 | 3,490 | 765 | - | 49 | 6,665 | 2,901 | 230 | 478 | 2,160 | 10,625 | 71 | 1,962 | 1,965 | 478 | 112 | 739 | 678 | 34,385 |
| Muhanga | 263 | 173 | 147 | - | 9 | 2,574 | 5,936 | 102 | 1,631 | 6,750 | 9,044 | 32 | - | 2,000 | 369 | 155 | 605 | 436 | 30,227 |
| Kamonyi | 2,084 | 3,696 | 195 | - | 17 | 1,004 | 3,286 | 612 | 1,038 | 4,420 | 9,758 | 92 | 731 | 1,862 | 946 | 259 | 558 | 1,548 | 32,106 |
| Karongi | 585 | 2,272 | - | 284 | 68 | 1,851 | 5,126 | 710 | 906 | 4,820 | 6,689 | 349 | - | 1,898 | 491 | 12 | 346 | 1,111 | 27,517 |
| Rutsiro | 1,861 | 31 | - | 477 | - | 948 | 3,110 | 3,416 | 1,336 | 2,209 | 4,894 | 471 | - | 453 | 301 | 765 | 207 | 2,200 | 22,676 |
| Rubavu | 1,416 | 626 | - | - | - | 506 | 644 | 5,868 | 176 | 947 | 3,437 | 152 | - | 141 | 2,269 | 47 | 523 | 1,165 | 17,919 |
| Nyabihu | 3,346 | 72 | - | 1,334 | - | 37 | 2,425 | 6,436 | 45 | 388 | 2,004 | 193 | - | 42 | 1,016 | 79 | 349 | 2,576 | 20,343 |
| Ngororero | 1,871 | 9 | - | 1,455 | - | 218 | 6,652 | 1,525 | 933 | 3,717 | 3,451 | 222 | - | 734 | 455 | 106 | 276 | 176 | 21,798 |
| Rusizi | 1,099 | 59 | 1,420 | - | - | 7,731 | 1,806 | 32 | 596 | 1,215 | 6,836 | 127 | 59 | 404 | 187 | 292 | - | 1,363 | 23,227 |
| Nyamasheke | 525 | 14 | 358 | 46 | 5 | 4,037 | 3,208 | 66 | 929 | 1,172 | 4,291 | 121 | 628 | 1,784 | 467 | 139 | 237 | 3,410 | 21,437 |
| Rulindo | 1,025 | 4,089 | 17 | 408 | - | 1,089 | 3,173 | 1,079 | 139 | 2,542 | 9,938 | 155 | 62 | 167 | 549 | 76 | 195 | 537 | 25,241 |
| Gakenke | 1,468 | 507 | 30 | 334 | - | 1,047 | 6,409 | 1,085 | 1,117 | 5,749 | 10,748 | 189 | 21 | 383 | 350 | 195 | 113 | 1,444 | 31,187 |
| Musanze | 2,573 | 1,020 | - | 530 | - | 26 | 1,391 | 3,995 | 201 | 432 | 5,779 | 156 | - | - | 1,242 | 311 | 242 | 2,075 | 19,972 |
| Burera | 2,356 | 5,161 | - | 1,591 | 28 | 30 | 3,148 | 3,974 | 135 | 546 | 11,209 | 571 | - | - | 323 | 289 | 198 | 21 | 29,581 |
| Gicumbi | 1,570 | 17,145 | - | 196 | - | 451 | 5,718 | 2,875 | 161 | 1,752 | 11,547 | 888 | 347 | 34 | 368 | 279 | 734 | 207 | 44,272 |
| Rwamagana | 3,345 | 8,439 | 383 | - | 41 | 1,519 | 988 | 1,272 | 680 | 3,774 | 8,894 | 71 | 1,383 | 181 | 887 | 704 | 306 | 735 | 33,602 |
| Nyagatare | 18,556 | 8,384 | 1,598 | - | 20 | 1,576 | 1,893 | 871 | 173 | 4,146 | 31,124 | 78 | 3,285 | 1,309 | 761 | 162 | 17 | 75 | 74,027 |
| Gatsibo | 7,020 | 9,091 | 1,557 | - | 9 | 668 | 1,031 | 1,765 | 378 | 5,211 | 16,946 | 84 | 4,330 | 914 | 202 | 88 | 2,567 | 2,389 | 54,249 |
| Kayonza | 5,540 | 14,906 | 977 | - | 144 | 2,439 | 1,753 | 2,090 | 341 | 3,068 | 15,415 | 130 | 1,303 | 223 | 283 | 52 | 133 | 425 | 49,222 |
| Kirehe | 2,918 | 11,875 | 943 | - | 177 | 1,916 | 1,501 | 446 | 919 | 4,279 | 19,719 | 197 | 621 | 680 | 404 | 73 | 50 | 301 | 47,022 |
| Ngoma | 1,733 | 3,627 | 828 | - | 372 | 1,423 | 1,510 | 236 | 257 | 5,398 | 18,706 | 41 | 644 | 356 | 349 | 222 | 398 | 499 | 36,601 |
| Bugesera | 4,354 | 5,977 | 1,595 | - | 29 | 354 | 2,369 | 269 | 147 | 6,217 | 16,159 | - | 3,280 | 558 | 505 | 119 | 620 | 415 | 42,966 |
| National | 72,918 | 136,124 | 15,077 | 8,122 | 1,422 | 46,509 | 84,545 | 43,950 | 14,565 | 79,107 | 283,104 | 6,229 | 21,292 | 22,974 | 15,945 | 4,978 | 11,665 | 28,205 | 896,733 |
| SSF | 71,376 | 136,050 | 328 | 8,076 | 1,422 | 46,504 | 84,529 | 43,660 | 14,564 | 79,050 | 281,223 | 6,175 | 21,290 | 22,406 | 15,843 | 4,911 | 11,026 | 27,966 | 876,397 |
| LSF | 1,542 | 75 | 14,749 | 46 | - | 6 | 16 | 289 | 2 | 57 | 1,880 | 54 | 3 | 569 | 102 | 67 | 639 | 239 | 20,336 |

Source : NISR, SAS 2020

Table 13. Season C 2020_Harvested 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 | 26 | 1 | - | 206 | 206 | - | - | 106 | 290 | 629 |
| Gasabo | 76 | 4 | - | 2 | 2 | - | - | - | 374 | 456 |
| Kicukiro | 35 | - | - | 24 | 24 | - | - | 4 | 128 | 191 |
| Nyanza | 211 | 1 | - | 137 | 96 | 41 | 115 | 2 | 302 | 769 |
| Gisagara | 426 | - | - | 185 | 185 | - | 22 | 377 | 252 | 1,262 |
| Nyaruguru | 738 | 258 | - | 282 | 277 | 5 | 46 | 11 | 78 | 1,414 |
| Huye | 327 | 5 | - | 214 | 211 | 4 | 82 | 4 | 212 | 843 |
| Nyamagabe | 428 | 20 | - | 35 | 26 | 9 | 7 | 5 | 50 | 546 |
| Ruhango | 360 | - | - | 33 | 33 | - | 10 | - | 197 | 600 |
| Muhanga | 208 | 32 | - | 91 | 89 | 1 | 37 | 83 | 94 | 544 |
| Kamonyi | 177 | 16 | - | 330 | 330 | 0 | 44 | 28 | 271 | 867 |
| Karongi | 144 | 34 | - | 1 | 1 | - | 2 | 11 | 65 | 257 |
| Rutsiro | 69 | 51 | - | 0 | 0 | - | 38 | - | 28 | 187 |
| Rubavu | 137 | 882 | - | 76 | - | 76 | 24 | - | 267 | 1,386 |
| Nyabihu | 131 | 2,668 | - | 396 | 73 | 324 | 15 | - | 393 | 3,603 |
| Ngororero | 64 | 32 | - | - | - | - | - | 11 | - | 107 |
| Rusizi | - | - | - | - | - | - | - | - | 78 | 78 |
| Nyamasheke | 115 | 1 | - | 0 | 0 | - | - | - | 138 | 254 |
| Rulindo | 141 | 292 | - | 3 | 3 | - | 1 | 44 | 114 | 594 |
| Gakenke | 83 | 185 | - | 41 | 41 | - | 0 | 127 | 57 | 493 |
| Musanze | 154 | 1,939 | - | 350 | 95 | 255 | 54 | - | 549 | 3,046 |
| Burera | 557 | 2,278 | - | 57 | 1 | 56 | 0 | - | 105 | 2,998 |
| Gicumbi | 116 | 217 | - | 49 | 49 | - | - | - | 53 | 434 |
| Rwamagana | 113 | 6 | - | 129 | 129 | - | 0 | 6 | 223 | 477 |
| Nyagatare | 174 | 65 | - | - | - | - | 0 | 0 | 360 | 600 |
| Gatsibo | 175 | 6 | - | 8 | 8 | - | - | - | 266 | 456 |
| Kayonza | 74 | 23 | - | 3 | 3 | - | - | 0 | 249 | 351 |
| Kirehe | 87 | 11 | - | 11 | 10 | 1 | 3 | 15 | 339 | 465 |
| Ngoma | 67 | 0 | - | 7 | 7 | - | 1 | 0 | 132 | 207 |
| Bugesera | 173 | 0 | - | 8 | 8 | - | - | 2 | 247 | 429 |
| National | 5,583 | 9,028 | - | 2,681 | 1,908 | 773 | 502 | 837 | 5,912 | 24,542 |
| 2019C | 5,331 | 8,618 | - | 1,128 | 924 | 204 | 255 | 559 | 3,744 | 19,635 |
| Change | 5% | 5% | 0% | 138% | 106% | 280% | 96% | 50% | 58% | 25% |

Source: NISR, SAS 2020

Table 14. Season A 2020 Average yield by crop type per district (Kg/Ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Other Cereals | Cassava | Sweet potatoes | Irish potatoes | Yams & Taro | Cooking Banana | Dessert banana | Banana for beer | Bush bean | Climbing bean | Peas | Ground nuts | Soya beans | Vegetables | Fruits | Fodder crops | Other crops |
|-----------------|--------------|--------------|--------------|------------|---------------|---------------|----------------|----------------|--------------|----------------|----------------|-----------------|------------|---------------|------------|-------------|------------|--------------|--------------|---------------|---------------|
| Nyarugenge | 1,856 | - | - | - | - | 9,931 | 6,979 | 5,407 | 6,226 | 8,836 | 8,596 | 11,900 | 666 | 476 | - | 413 | 520 | 9,405 | 5,304 | 14,766 | 43,394 |
| Gasabo | 1,170 | - | 3,790 | - | 646 | 11,192 | 6,790 | 4,981 | 4,005 | 12,106 | 8,987 | 10,069 | 581 | 747 | 1,259 | 483 | 475 | 7,665 | 937 | 9,860 | 1,396 |
| Kicukiro | 1,742 | - | 3,621 | - | 554 | 10,188 | 8,016 | 2,321 | 5,309 | 10,516 | 11,038 | 9,311 | 634 | 421 | 211 | 350 | 496 | 9,265 | 5,560 | - | 4,066 |
| Nyanza | 1,148 | 720 | 4,245 | - | 509 | 15,652 | 6,219 | 4,588 | 2,070 | 6,940 | 7,471 | 9,181 | 584 | 640 | 787 | 305 | 351 | 8,499 | - | 19,347 | 927 |
| Gisagara | 1,587 | 1,106 | 3,243 | - | 527 | 15,904 | 6,516 | 3,754 | 6,906 | 6,245 | 7,078 | 8,457 | 521 | 483 | 884 | 279 | 473 | 6,912 | - | 31,921 | 1,160 |
| Nyaruguru | 1,613 | - | - | 971 | 174 | 9,749 | 9,558 | 5,114 | 6,088 | 10,729 | 8,297 | 10,096 | 525 | 583 | 820 | 196 | 404 | 10,555 | 1,155 | 6,210 | 24,752 |
| Huye | 1,475 | - | 3,744 | - | 605 | 18,587 | 6,086 | 4,153 | 2,423 | 9,359 | 8,217 | 11,662 | 740 | 874 | 1,115 | 490 | 571 | 8,400 | - | 14,756 | 18,003 |
| Nyamagabe | 1,458 | - | - | 743 | 195 | 8,633 | 6,544 | 5,330 | 6,653 | 6,671 | 7,241 | 8,857 | 444 | 549 | 1,238 | 428 | 418 | 7,748 | 1,818 | 12,586 | 458 |
| Ruhango | 1,436 | 1,009 | 3,038 | - | 713 | 22,875 | 7,128 | 3,008 | 4,772 | 10,512 | 7,248 | 9,068 | 531 | 627 | 550 | 263 | 519 | 7,516 | - | 13,537 | 14,954 |
| Muhanga | 1,077 | 527 | 2,117 | - | 737 | 13,088 | 6,990 | 3,438 | 8,354 | 10,134 | 8,649 | 8,895 | 413 | 549 | 1,149 | 310 | 464 | 7,920 | 1,828 | 12,219 | 5,992 |
| Kamonyi | 1,378 | - | 4,077 | - | 260 | 13,847 | 5,095 | 3,704 | 2,114 | 11,148 | 7,585 | 9,870 | 494 | 503 | 405 | 287 | 452 | 8,704 | 6,179 | 15,354 | 415 |
| Karongi | 1,930 | - | - | 435 | 1,158 | 8,195 | 6,832 | 8,127 | 6,131 | 13,180 | 12,735 | 11,905 | 742 | 826 | 1,063 | - | 553 | 11,821 | - | 5,186 | 4,968 |
| Rutsiro | 1,652 | - | - | 266 | - | 11,853 | 8,033 | 8,679 | 7,933 | 13,884 | 8,192 | 10,956 | 550 | 698 | 891 | - | 499 | 11,064 | 4,989 | 9,649 | 9,226 |
| Rubavu | 1,891 | 888 | - | - | - | - | 8,074 | 9,803 | 3,444 | 10,428 | 7,168 | 13,441 | 597 | 826 | 532 | - | 1,035 | 10,243 | 9,266 | 13,701 | 13,019 |
| Nyabihu | 1,243 | 907 | - | 1,114 | - | 10,398 | 7,853 | 12,170 | - | 10,421 | 7,066 | 7,728 | 694 | 644 | 763 | - | - | 24,975 | 2,418 | 3,716 | 220 |
| Ngororero | 747 | 690 | - | 499 | - | 16,803 | 6,060 | 4,085 | 7,001 | 7,484 | 7,057 | 7,964 | 294 | 530 | 864 | - | 334 | 8,093 | 10,557 | 14,780 | 20,347 |
| Rusizi | 1,182 | 376 | 4,493 | - | - | 10,197 | 5,786 | 4,114 | 7,154 | 8,181 | 7,494 | 9,893 | 588 | 475 | 549 | 761 | 756 | 5,764 | 5,075 | 2,966 | 13,445 |
| Nyamasheke | 1,313 | 1,060 | 4,331 | 515 | 464 | 9,871 | 3,548 | 4,651 | 5,856 | 7,894 | 7,554 | 7,661 | 606 | 653 | 831 | 299 | 560 | 8,255 | 784 | 8,201 | 8,552 |
| Rulindo | 1,474 | - | 1,616 | 567 | 1,017 | 11,623 | 6,927 | 3,929 | 4,513 | 10,624 | 8,778 | 9,579 | 525 | 633 | 440 | 476 | 760 | 12,496 | 5,898 | 9,137 | 66,787 |
| Gakenke | 1,621 | - | 1,112 | 532 | 533 | 14,392 | 8,230 | 6,454 | 4,574 | 11,783 | 8,816 | 10,130 | 426 | 577 | 638 | 718 | 468 | 8,094 | 11,706 | 8,965 | 6,091 |
| Musanze | 1,884 | 1,773 | - | 1,161 | 979 | 5,541 | 8,075 | 11,797 | 1,756 | 15,433 | 7,865 | 11,078 | 529 | 773 | 567 | - | 593 | 7,225 | 6,286 | 13,948 | 13,909 |
| Burera | 2,000 | 1,548 | - | 1,351 | - | 11,707 | 9,575 | 9,825 | 3,520 | 13,932 | 5,124 | 8,917 | 484 | 856 | 785 | - | 435 | 8,285 | 2,624 | 4,549 | - |
| Gicumbi | 1,260 | 263 | - | 1,032 | 550 | 13,290 | 9,509 | 10,642 | 3,627 | 12,586 | 7,804 | 9,326 | 526 | 746 | 526 | 619 | 562 | 7,022 | 2,359 | 23,899 | - |
| Rwamagana | 1,794 | 47 | 3,945 | - | 808 | 19,063 | 8,061 | 5,375 | 1,300 | 16,414 | 7,564 | 7,898 | 543 | 585 | 699 | 353 | 380 | 4,568 | 2,285 | 13,346 | 16,543 |
| Nyagatare | 1,640 | 1,567 | 3,970 | - | 765 | 14,902 | 3,876 | 6,910 | 484 | 18,189 | 8,155 | 10,825 | 688 | 762 | 234 | 519 | 597 | 5,557 | 4,726 | 11,673 | 260 |
| Gatsibo | 1,638 | 879 | 3,287 | - | 423 | 12,662 | 8,679 | 4,259 | 546 | 15,915 | 7,066 | 8,718 | 610 | 653 | 518 | 492 | 602 | 3,420 | 2,322 | 10,952 | 56 |
| Kayanza | 1,509 | 718 | 3,475 | - | 693 | 12,553 | 5,175 | 3,136 | 7,637 | 17,366 | 8,263 | 8,320 | 685 | 695 | 387 | 423 | 499 | 8,772 | 3,796 | 49,397 | 7,187 |
| Kirehe | 1,685 | 1,430 | 3,998 | - | 521 | 14,803 | 4,996 | 4,530 | 3,014 | 15,846 | 7,500 | 9,941 | 594 | 1,004 | 695 | 306 | 524 | 6,953 | 15,420 | 14,548 | 101 |
| Ngoma | 1,982 | 548 | 3,605 | - | 809 | 10,617 | 7,400 | 6,216 | 3,607 | 16,559 | 7,308 | 10,113 | 569 | 782 | 705 | 425 | 301 | 9,247 | 5,206 | 14,450 | 2,240 |
| Bugesera | 1,652 | 1,223 | 3,189 | - | 678 | 16,965 | 7,199 | 2,833 | 3,790 | 14,757 | 7,218 | 8,563 | 712 | 770 | 501 | 304 | 458 | 10,070 | 7,794 | 13,774 | 6,004 |
| National | 1,598 | 1,268 | 3,600 | 988 | 626 | 14,056 | 7,101 | 8,298 | 5,911 | 13,794 | 7,927 | 9,606 | 595 | 685 | 753 | 394 | 498 | 8,775 | 4,927 | 12,981 | 14,178 |
| SSF | 1,599 | 1,269 | 3,277 | 989 | 626 | 14,056 | 7,101 | 8,305 | 5,911 | 13,792 | 7,927 | 9,606 | 595 | 685 | 753 | 394 | 497 | 8,775 | 5,022 | 12,719 | 14,500 |
| LSF | 3,756 | 1,637 | 3,649 | 1,400 | - | 16,050 | 6,769 | 16,134 | 1,896 | 19,218 | 7,123 | 6,962 | 867 | 908 | 371 | 494 | 717 | 9,501 | 13,584 | 13,553 | 3,066 |

Source: NISR, SAS 2020

Table 15. Season B 2020 Average yield by crop type per district (Kg/Ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Cereals | Cassava | Sweet potatoes | Irish potatoes | Yams & Taro | Bananas | Banana | Banana | Banana for beer | Beans | Bush bean | Common bean | Peas | G-nuts | Soya beans | Vegetables | Fruits | Fodder crops | Other crops |
|-----------------|--------------|------------|--------------|--------------|--------------|---------------|----------------|----------------|--------------|---------------|---------------|---------------|-----------------|------------|------------|-------------|------------|------------|------------|---------------|--------------|--------------|--------------|
| Nyarugenge | 1,239 | 799 | - | - | - | 11,257 | 5,446 | 2,413 | 6,894 | 8,639 | 19,949 | 7,725 | 6,977 | 620 | 617 | 823 | 563 | 350 | 455 | 6,328 | 9,672 | 17,417 | 33,375 |
| Gasabo | 1,112 | 873 | 4,104 | - | 838 | 11,966 | 5,895 | 3,370 | 2,307 | 11,783 | 17,607 | 11,782 | 7,541 | 645 | 645 | 649 | 652 | 472 | 346 | 11,129 | 4,482 | 9,994 | 891 |
| Kicukiro | 1,051 | 1,047 | 3,887 | - | - | 14,068 | 10,628 | 3,518 | 5,431 | 13,538 | 20,296 | 15,205 | 9,222 | 812 | 809 | 1,053 | 537 | 414 | 664 | 8,419 | - | 3,133 | 20,874 |
| Nyanza | 1,321 | 870 | 5,536 | - | 1,107 | 18,982 | 7,986 | 2,787 | 4,039 | 9,013 | 11,921 | 7,676 | 8,935 | 759 | 783 | 679 | 532 | 387 | 323 | 10,735 | 4,847 | 11,834 | 1,004 |
| Gisagara | 999 | 714 | 3,913 | - | 1,059 | 17,171 | 6,187 | 2,250 | 4,107 | 10,338 | 15,311 | 10,021 | 8,938 | 555 | 526 | 785 | 526 | 366 | 463 | 8,494 | 6,011 | 8,505 | 886 |
| Nyaruguru | 1,941 | 673 | - | 872 | 1,233 | 14,267 | 8,591 | 7,135 | 11,195 | 9,784 | 14,977 | 8,048 | 7,820 | 861 | 611 | 925 | 1,181 | 365 | 465 | 11,744 | 2,891 | 19,236 | 1,066 |
| Huye | 1,513 | 762 | 3,756 | - | 1,073 | 21,291 | 8,420 | 3,511 | 4,323 | 9,587 | 11,055 | 10,517 | 8,546 | 687 | 625 | 793 | 687 | 351 | 489 | 11,157 | 3,317 | 13,568 | 1,143 |
| Nyamagabe | 1,334 | 621 | 2,776 | 1,178 | 1,008 | 11,862 | 6,971 | 7,781 | 8,389 | 6,732 | 9,497 | 12,884 | 5,941 | 668 | 500 | 714 | 979 | 115 | 333 | 8,317 | 4,203 | 10,202 | 657 |
| Ruhango | 1,023 | 659 | 3,648 | - | 1,122 | 18,309 | 4,346 | 3,701 | 7,451 | 8,060 | 17,880 | 12,847 | 6,855 | 728 | 707 | 775 | 1,253 | 642 | 389 | 6,874 | 10,883 | 16,101 | 11,429 |
| Muhanga | 1,111 | 703 | 3,918 | - | 1,413 | 17,352 | 6,931 | 3,488 | 7,190 | 8,091 | 14,723 | 10,048 | 7,558 | 598 | 566 | 665 | 430 | - | 521 | 10,232 | 6,856 | 9,473 | 3,986 |
| Kamonyi | 631 | 1,086 | 3,906 | - | 880 | 16,118 | 5,329 | 1,663 | 8,511 | 9,109 | 18,559 | 11,184 | 7,813 | 610 | 602 | 688 | 949 | 329 | 444 | 9,328 | 4,612 | 15,028 | 1,577 |
| Karongi | 1,517 | 624 | - | 885 | 1,045 | 13,812 | 9,244 | 4,151 | 8,661 | 9,293 | 17,027 | 13,080 | 8,818 | 779 | 744 | 794 | 1,129 | - | 421 | 9,035 | 4,096 | 11,398 | 1,471 |
| Rutsiro | 1,501 | 1,362 | - | 404 | - | 14,216 | 7,014 | 4,075 | 7,130 | 15,024 | 25,792 | 19,122 | 9,703 | 759 | 612 | 787 | 723 | - | 406 | 10,106 | 6,110 | 6,690 | 5,618 |
| Rubavu | 1,936 | 1,681 | - | - | - | 8,214 | 6,279 | 11,350 | 5,701 | 12,061 | 19,494 | 13,347 | 10,016 | 863 | 609 | 876 | 1,243 | - | 1,161 | 13,770 | 3,474 | 2,276 | 16,275 |
| Nyabihu | 1,644 | - | - | 1,221 | - | 9,313 | 6,650 | 11,882 | 7,302 | 9,163 | 16,481 | 8,738 | 7,095 | 849 | - | 849 | 664 | - | 321 | 11,706 | 4,618 | 5,988 | 269 |
| Ngororero | 1,277 | 642 | - | 688 | - | 10,709 | 6,042 | 3,489 | 7,759 | 8,686 | 17,537 | 12,065 | 7,799 | 642 | 552 | 660 | 990 | - | 362 | 7,391 | 7,416 | 10,252 | 6,279 |
| Rusizi | 1,308 | 717 | 6,748 | - | - | 8,831 | 8,510 | 8,082 | 7,344 | 13,120 | 18,303 | 19,093 | 8,827 | 757 | 743 | 781 | 1,266 | 756 | 533 | 12,147 | 5,607 | - | 4,732 |
| Nyamasheke | 1,125 | 1,493 | 5,294 | 819 | 1,230 | 11,794 | 8,382 | 3,138 | 6,470 | 12,361 | 21,796 | 15,416 | 10,781 | 796 | 589 | 866 | 827 | 397 | 626 | 8,998 | 3,098 | 2,797 | 1,744 |
| Rulindo | 1,043 | 940 | 3,140 | 823 | - | 14,851 | 7,350 | 5,745 | 7,028 | 11,499 | 20,385 | 12,425 | 8,850 | 772 | 639 | 900 | 433 | 587 | 355 | 8,405 | 1,988 | 11,114 | 44,443 |
| Gakenke | 1,300 | 1,112 | 3,501 | 1,735 | - | 18,151 | 11,045 | 5,709 | 8,399 | 11,852 | 23,238 | 12,849 | 9,364 | 941 | 639 | 957 | 677 | 548 | 513 | 9,695 | 5,931 | 7,790 | 2,561 |
| Musanze | 1,658 | 1,241 | - | 1,158 | - | 11,651 | 10,959 | 10,965 | 10,644 | 9,199 | 16,000 | 7,513 | 8,468 | 1,134 | 1,145 | 1,133 | 1,463 | - | - | 8,016 | 4,675 | 6,420 | 3,202 |
| Burera | 1,534 | 1,387 | - | 1,436 | 961 | 11,710 | 7,131 | 11,584 | 7,256 | 14,109 | 21,034 | 12,329 | 8,206 | 1,035 | 648 | 1,081 | 903 | - | - | 7,638 | 750 | 15,310 | 1,216 |
| Gicumbi | 1,205 | 1,038 | - | 758 | - | 20,282 | 6,929 | 8,577 | 7,352 | 12,838 | 22,174 | 11,196 | 9,590 | 991 | 603 | 1,170 | 887 | 567 | 884 | 10,429 | 6,799 | 15,194 | 3,772 |
| Rwamagana | 1,137 | 1,172 | 4,119 | - | 771 | 16,575 | 4,538 | 4,171 | 6,691 | 15,318 | 18,721 | 9,693 | 7,758 | 603 | 590 | 1,289 | 369 | 333 | 397 | 11,574 | 2,050 | 14,366 | 4,587 |
| Nyagatare | 1,284 | 865 | 4,806 | - | 1,720 | 20,617 | 3,708 | 3,829 | 3,629 | 14,908 | 18,967 | 12,947 | 8,759 | 737 | 734 | 798 | 267 | 715 | 651 | 9,378 | 4,360 | 6,385 | 13,163 |
| Gatsibo | 1,482 | 1,133 | 4,483 | - | 882 | 16,768 | 9,790 | 4,434 | 8,298 | 13,659 | 18,326 | 11,170 | 9,401 | 712 | 708 | 754 | 732 | 535 | 616 | 11,935 | 4,878 | 49 | 2,214 |
| Kayanza | 1,051 | 1,055 | 4,402 | - | 1,127 | 16,311 | 4,174 | 3,310 | 6,119 | 15,805 | 18,034 | 14,110 | 8,896 | 666 | 662 | 1,226 | 691 | 409 | 574 | 14,490 | 12,720 | 28,953 | 968 |
| Kirehe | 1,729 | 844 | 5,326 | - | 1,056 | 17,356 | 4,697 | 2,468 | 4,445 | 16,728 | 21,259 | 14,485 | 8,531 | 674 | 618 | 781 | 1,091 | 469 | 497 | 11,914 | 1,046 | 13,583 | 3,114 |
| Ngoma | 941 | 999 | 4,232 | - | 1,136 | 17,110 | 7,598 | 4,859 | 3,413 | 15,550 | 17,597 | 12,384 | 10,866 | 737 | 706 | 985 | 582 | 396 | 439 | 11,433 | 6,189 | 10,096 | 2,618 |
| Bugesera | 1,014 | 717 | 1,207 | - | 1,051 | 21,988 | 4,093 | 2,525 | 6,456 | 9,438 | 14,653 | 12,468 | 7,736 | 623 | 622 | 704 | - | 394 | 340 | 12,489 | 15,091 | 11,819 | 486 |
| National | 1,298 | 942 | 4,264 | 1,068 | 1,083 | 15,073 | 7,232 | 8,019 | 7,046 | 11,781 | 18,573 | 12,180 | 8,398 | 740 | 662 | 897 | 910 | 495 | 477 | 10,428 | 4,988 | 9,128 | 4,114 |
| SSF | 1,258 | 942 | 3,704 | 1,067 | 1,083 | 15,072 | 7,232 | 7,952 | 7,047 | 11,778 | 18,578 | 12,179 | 8,398 | 740 | 661 | 897 | 902 | 495 | 471 | 10,457 | 4,982 | 8,923 | 4,116 |
| LSF | 3,136 | 1,193 | 4,276 | 1,300 | - | 20,876 | 4,868 | 18,198 | 1,879 | 16,244 | 16,614 | 15,458 | 10,354 | 716 | 715 | 1,062 | 1,771 | 635 | 721 | 5,933 | 5,395 | 12,654 | 3,804 |

Source: NISR, SAS 2020

Table 16. 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 | 3,555 | 3,548 | 3,677 | 892 | - | - | 464 | 5,626 |
| Gasabo | 3,756 | 3,960 | - | 566 | - | - | - | 8,136 |
| Kicukiro | 8,419 | 8,419 | - | 1,097 | - | - | 791 | 8,876 |
| Nyanza | 3,848 | 3,852 | 3,013 | 886 | 752 | 699 | 612 | 8,179 |
| Gisagara | 3,483 | 3,483 | - | 749 | - | 1,041 | 633 | 8,154 |
| Nyaruguru | 4,134 | 3,693 | 5,395 | 931 | 581 | 412 | 263 | 6,867 |
| Huye | 5,925 | 5,951 | 4,244 | 881 | 1,072 | 687 | 503 | 9,758 |
| Nyamagabe | 5,991 | 5,944 | 6,978 | 1,053 | 1,892 | 1,121 | 333 | 15,027 |
| Ruhango | 6,141 | 6,141 | - | 626 | - | 1,031 | - | 7,398 |
| Muhanga | 6,057 | 6,130 | 5,585 | 752 | 647 | 869 | 614 | 7,932 |
| Kamonyi | 6,291 | 6,601 | 2,934 | 957 | - | 749 | 1,033 | 8,375 |
| Karongi | 5,759 | 5,905 | 5,132 | 1,262 | - | - | 512 | 10,388 |
| Rutsiro | 6,082 | 5,740 | 6,546 | - | - | 816 | - | 6,374 |
| Rubavu | 10,933 | 5,766 | 11,733 | - | 1,875 | 1,203 | - | 9,855 |
| Nyabihu | 8,153 | 5,364 | 8,290 | 1,049 | 881 | 440 | - | 14,242 |
| Ngororero | 5,318 | 4,259 | 7,457 | - | - | - | 865 | - |
| Rusizi | - | - | - | - | - | - | - | 11,859 |
| Nyamasheke | 3,577 | 3,598 | - | 979 | - | - | - | 12,531 |
| Rulindo | 4,552 | 4,533 | 4,562 | 1,290 | - | 862 | 803 | 9,804 |
| Gakenke | 6,443 | 8,043 | 5,725 | 756 | - | - | 648 | 6,049 |
| Musanze | 8,070 | 6,650 | 8,183 | 906 | 1,733 | 416 | - | 7,217 |
| Burera | 9,243 | 5,152 | 10,243 | - | 2,028 | - | - | 11,938 |
| Gicumbi | 6,500 | 5,962 | 6,786 | 671 | - | - | - | 13,099 |
| Rwamagana | 4,449 | 4,425 | 4,899 | 1,349 | - | - | 729 | 9,351 |
| Nyagatare | 5,711 | 6,122 | 4,608 | - | - | 415 | - | 7,812 |
| Gatsibo | 6,745 | 6,825 | 4,541 | 729 | - | - | - | 9,077 |
| Kayonza | 6,908 | 7,537 | 4,926 | - | - | - | - | 9,667 |
| Kirehe | 4,736 | 4,537 | 6,283 | 832 | 594 | - | - | 6,687 |
| Ngoma | 5,349 | 5,355 | 1,107 | 1,112 | - | - | - | 10,640 |
| Bugesera | 5,548 | 5,551 | 1,071 | 470 | - | - | - | 7,359 |

Source: NISR, SAS 2020

Table 17. Season A 2020 Average yield on Large scale farmers by crop type and district (Kg/Ha)

| Crop/District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potatoes | Irish potatoes | Yams & Taro | Bananas | Cooking Banana | Dessert banana | Banana for beer | Bush bean | Climbing bean | Peas | Ground nuts | Soya beans | Vegetables | Fruits | Fodder crops | Other crops |
|-----------------|--------------|--------------|--------------|--------------|---------------|----------------|----------------|--------------|---------------|----------------|----------------|-----------------|------------|---------------|------------|-------------|------------|--------------|---------------|---------------|--------------|
| Gasabo | 3,177 | - | 3,790 | - | 5,713 | 12,534 | - | - | 20,360 | 20,360 | - | - | 560 | - | - | - | 460 | 2,643 | 1,402 | 6,027 | 4,717 |
| Kicukiro | 1,787 | - | 3,621 | - | - | - | - | - | 8,280 | 8,232 | 8,535 | - | - | - | - | - | 1,178 | 6,622 | - | - | 705 |
| Nyanza | 2,703 | - | 4,449 | - | - | - | - | - | 5,547 | 34,886 | 13,729 | 3,923 | 420 | - | - | - | - | 15,630 | - | - | - |
| Gisagara | 1,493 | - | 3,207 | - | - | - | - | - | 29,671 | 29,671 | - | - | 312 | 98 | - | - | - | 1,661 | - | 4,283 | - |
| Nyaruguru | 4,122 | - | - | - | - | - | 23,422 | - | 6,637 | 7,667 | 8,001 | 3,833 | 925 | - | - | - | - | - | - | 13,117 | 24,752 |
| Huye | 2,025 | - | 3,744 | - | - | 3,339 | - | - | 8,960 | 8,960 | - | - | 186 | 918 | - | - | 283 | 5,919 | - | - | 43,356 |
| Nyamagabe | 1,620 | - | - | - | - | - | 8,807 | - | - | - | - | - | - | 154 | - | - | - | - | - | - | - |
| Ruhango | 378 | - | 2,997 | - | 21,659 | - | - | - | 6,991 | 4,768 | 8,029 | 9,160 | 203 | - | 212 | - | - | - | - | - | 2,757 |
| Muhanga | 2,373 | - | 2,117 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Kamonyi | 3,978 | - | 4,077 | - | - | - | - | - | - | - | - | - | 310 | - | - | - | 1,507 | 1,709 | - | - | 113 |
| Karongi | 2,797 | - | - | - | - | - | - | - | - | - | - | - | 602 | - | - | - | - | 2,683 | - | - | 2,448 |
| Rubavu | 4,018 | - | - | - | - | - | 15,805 | - | 33,983 | 33,983 | - | - | 196 | - | 108 | - | - | 34,543 | - | 23,231 | 1,229 |
| Rusizi | 5,012 | - | 4,493 | - | - | - | - | - | 6,772 | 12,312 | - | 4,925 | 447 | - | - | - | 173 | - | 2,331 | - | 133 |
| Nyamasheke | 1,124 | - | 4,331 | - | 6,992 | - | - | - | - | - | - | - | 214 | - | - | 300 | - | - | - | - | 347 |
| Rulindo | 4,665 | - | 1,616 | 571 | - | - | 18,602 | - | 8,449 | 7,565 | 8,370 | 10,003 | 955 | 970 | 264 | - | - | 4,166 | - | 2,824 | 465 |
| Gicumbi | - | - | - | 2,747 | - | - | 16,887 | - | - | - | - | - | - | 894 | - | - | - | - | - | 14,764 | - |
| Rwamagana | 3,144 | - | 3,945 | - | 17,071 | 7,660 | 7,793 | 2,481 | 15,573 | 15,911 | 5,899 | 6,906 | 1,012 | 1,042 | - | 696 | 1,408 | 5,250 | 2,194 | 9,939 | 9,947 |
| Nyagatare | 5,607 | 2,721 | 4,098 | - | 10,338 | 6,304 | 6,505 | - | 17,106 | 20,396 | 4,495 | 7,162 | 590 | 683 | - | 1,159 | 1,312 | 8,566 | 11,790 | 4,825 | 1,447 |
| Gatsibo | 3,694 | 1,203 | 3,287 | - | 15,096 | 5,569 | 9,679 | - | 17,595 | 21,771 | 7,510 | 6,526 | 780 | 1,629 | - | 417 | 1,076 | 4,861 | 4,634 | 5,607 | - |
| Kayanza | 6,587 | 797 | 3,734 | - | 29,628 | 2,041 | 12,812 | 1,843 | 19,626 | 21,089 | 4,284 | 13,971 | 513 | 1,067 | 653 | - | 609 | 18,785 | 26,147 | 13,299 | - |
| Kirehe | 5,030 | - | 3,962 | - | - | - | - | - | - | - | - | - | 1,357 | - | - | - | 505 | 14,487 | - | - | 187 |
| Ngoma | 2,596 | - | 3,605 | - | - | - | 8,999 | - | 21,667 | 31,313 | 8,969 | 10,002 | - | - | - | - | - | 5,898 | 10,129 | - | 6,829 |
| Bugesera | 2,447 | - | 3,152 | - | 15,303 | 6,346 | 8,201 | - | 20,017 | 23,133 | 7,802 | 11,925 | 810 | - | 362 | 723 | 802 | 4,985 | 36,648 | 18,113 | 1,690 |
| National | 3,756 | 1,637 | 3,649 | 1,400 | 16,050 | 6,769 | 16,134 | 1,896 | 16,989 | 19,218 | 7,123 | 6,962 | 867 | 908 | 371 | 494 | 717 | 9,501 | 13,584 | 13,553 | 3,066 |

Source: NISR, SAS 2020

Table 18. 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 | Irish potatoes | Yams & Taro | Bananas | Cooking Banana | Dessert banana | Banana for beer | Beans | Bush bean | Climbing bean | Peas | Ground nuts | Soya beans | Vegetables | Fruits | Fodder crops | Other crops |
|-----------------|--------------|--------------|--------------|--------------|---------------|----------------|----------------|--------------|---------------|----------------|----------------|-----------------|------------|------------|---------------|--------------|-------------|------------|--------------|--------------|---------------|--------------|
| Gasabo | 2,348 | - | 4,104 | - | - | 3,277 | - | - | 6,223 | 5,715 | 16,723 | - | 660 | 660 | - | - | - | 465 | 9,273 | 4,736 | 20,593 | - |
| Kicukiro | 378 | - | 3,887 | - | - | - | - | - | 18,213 | 20,636 | 13,064 | - | 901 | 901 | - | - | - | - | 3,251 | - | 13,019 | 179 |
| Nyanza | 1,684 | - | 5,599 | - | - | - | 8,889 | - | 4,304 | 5,121 | 2,520 | 3,546 | - | - | - | - | - | - | 5,297 | - | - | 458 |
| Gisagara | 617 | - | 3,949 | - | - | 5,352 | - | - | 17,462 | 17,462 | - | - | 287 | 287 | - | - | - | 724 | 701 | 873 | 6,200 | 1,353 |
| Nyaruguru | 3,698 | - | - | 856 | - | - | 23,662 | - | 18,855 | 10,734 | 11,730 | 28,952 | 882 | 882 | - | - | - | - | - | - | 14,566 | - |
| Huye | 1,602 | - | 3,756 | - | - | - | - | - | 13,166 | 13,166 | - | - | - | - | - | - | - | - | - | - | 13,019 | - |
| Nyamagabe | 1,824 | - | - | 1,359 | - | - | 11,298 | - | - | - | - | - | - | - | - | 1,058 | - | - | - | - | - | - |
| Ruhango | 3,604 | 680 | 3,668 | - | 18,000 | 12,435 | - | 6,859 | 15,625 | 22,604 | 12,108 | 8,793 | 989 | 988 | 1,034 | 1,253 | - | - | 318 | - | 13,019 | 560 |
| Muhanga | - | - | 3,918 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Kamonyi | 2,786 | - | 3,906 | - | - | - | - | - | - | - | - | - | 679 | 679 | - | - | - | 1,215 | 5,830 | - | - | - |
| Karongi | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,782 |
| Rubavu | - | - | - | - | - | - | 16,316 | 2,935 | 14,132 | 14,132 | - | - | - | - | - | - | - | - | - | - | 67,967 | 167 |
| Rusizi | - | - | 6,748 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8,677 |
| Nyamasheke | - | - | 5,294 | - | - | - | - | - | - | - | - | - | 112 | 112 | - | - | 191 | 178 | - | - | - | 1,703 |
| Rulindo | 2,654 | 1,481 | 3,140 | 1,725 | - | 6,967 | 9,209 | - | 22,428 | 23,828 | 15,474 | - | 1,020 | 1,047 | 799 | 1,020 | - | - | - | - | 13,019 | 2,640 |
| Gicumbi | - | - | - | 1,197 | - | - | 14,880 | - | - | - | - | - | - | - | - | - | - | - | - | - | 35,968 | - |
| Rwamagana | 3,365 | 2,092 | 4,119 | - | 18,142 | 4,815 | 3,460 | 2,460 | 19,924 | 20,196 | 6,252 | 6,600 | 753 | 753 | - | - | 295 | 1,137 | 7,564 | 4,716 | 12,592 | 16,383 |
| Nyagatare | 1,752 | 780 | 4,806 | - | 27,372 | 3,871 | 14,279 | - | 22,009 | 23,710 | 12,472 | 11,321 | 493 | 493 | 1,223 | - | 1,074 | 880 | 4,567 | 1,004 | 6,385 | 1,928 |
| Gatsibo | 2,023 | - | 4,483 | - | 20,660 | 6,256 | 3,353 | - | 20,678 | 21,849 | 10,080 | 10,715 | 739 | 733 | 1,179 | - | - | 660 | 2,043 | - | 12,881 | - |
| Kayonza | 2,090 | 1,272 | 4,402 | - | 14,538 | 8,663 | 14,070 | 754 | 8,969 | 8,962 | 10,397 | 10,357 | 560 | 560 | - | 72 | 897 | 816 | 2,811 | 8,463 | 5,015 | 1,210 |
| Kirehe | 4,451 | - | 5,297 | - | - | 5,352 | 11,298 | - | - | - | - | - | 1,113 | 1,113 | - | 1,975 | - | 641 | 9,803 | - | - | - |
| Ngoma | 2,088 | - | 4,232 | - | - | 1,235 | - | - | 19,730 | 21,415 | 11,882 | - | 330 | 330 | - | - | - | 407 | 1,266 | 6,844 | 8,428 | 1,506 |
| Bugesera | 1,222 | 567 | 1,106 | - | 18,532 | 2,345 | 6,537 | - | 15,509 | 14,884 | 17,959 | 8,580 | 555 | 555 | - | - | 506 | 11 | 1,380 | 790 | 9,883 | 241 |
| National | 3,136 | 1,193 | 4,276 | 1,300 | 20,876 | 4,868 | 18,198 | 1,879 | 16,244 | 16,614 | 15,458 | 10,354 | 716 | 715 | 1,062 | 1,771 | 635 | 721 | 5,933 | 5,395 | 12,654 | 3,804 |

Source : NISR, SAS 2020

Table 19. 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 | 3,717 | - | 625 | - | - | 547 | 10,607 |
| Gasabo | 4,010 | - | 566 | - | - | - | 9,017 |
| Kicukiro | 8,305 | - | 1,097 | - | - | 791 | 7,402 |
| Nyanza | 6,486 | 3,013 | 955 | - | 657 | 202 | 9,471 |
| Gisagara | 4,448 | - | 786 | - | 1,041 | 752 | 6,764 |
| Nyaruguru | 4,963 | 4,834 | 911 | 581 | 1,142 | - | 8,199 |
| Huye | 4,712 | 4,244 | 882 | 1,072 | 655 | 503 | 8,985 |
| Nyamagabe | 5,237 | 7,985 | 1,121 | - | 1,215 | - | 10,787 |
| Ruhango | 4,085 | - | 1,207 | - | 1,023 | - | 9,417 |
| Muhanga | 4,563 | 5,585 | 746 | 647 | 881 | 719 | 6,929 |
| Kamonyi | 5,576 | - | 1,131 | - | 822 | - | 8,034 |
| Karongi | 4,889 | 5,132 | 1,262 | - | - | - | 9,390 |
| Rutsiro | 5,323 | 6,521 | - | - | 830 | - | 6,374 |
| Rubavu | - | 7,984 | - | - | - | - | 8,847 |
| Nyabihu | 5,364 | 10,520 | - | - | - | - | 17,796 |
| Ngororero | 5,948 | - | - | - | - | 744 | - |
| Rusizi | - | - | - | - | - | - | - |
| Nyamasheke | 3,607 | - | 979 | - | - | - | 10,199 |
| Rulindo | 7,215 | 5,080 | 1,620 | - | 862 | - | 12,252 |
| Gakenke | 7,276 | 6,231 | 846 | - | - | 504 | 6,729 |
| Musanze | 5,584 | 9,325 | 1,590 | - | 1,011 | - | 7,739 |
| Burera | 4,298 | 9,787 | - | - | - | - | 9,469 |
| Gicumbi | 6,845 | 6,385 | 821 | - | - | - | 9,968 |
| Rwamagana | 5,877 | 17,742 | 1,308 | - | - | 1,419 | 9,774 |
| Nyagatare | 5,883 | 7,185 | - | - | 415 | - | 7,519 |
| Gatsibo | 4,467 | 4,541 | 729 | - | - | - | 8,809 |
| Kayanza | 5,785 | 6,592 | - | - | - | - | 10,433 |
| Kirehe | 4,885 | 6,283 | 852 | 594 | - | - | 6,717 |
| Ngoma | 4,724 | 1,107 | 1,112 | - | - | - | 10,954 |
| Bugesera | 4,890 | 1,071 | 470 | - | - | - | 6,837 |
| National | 5,077 | 7,257 | 918 | 752 | 749 | 648 | 8,469 |

Source: NISR, SAS 2020

Table 20. Season A 2020 Crop production by crop type per district (MT)

| District | Cereals | Maize | Sorghum | Paddy rice | Wheat | Other Cereals | Tubers&R oots | Cassava | Sweet potatoes | Irish potatoes | Yams & Taro | Bananas | Beans | Peas | Ground nuts | Soya beans | Vegetable s | Fruits | Fodder crops | Other crops |
|------------------------|----------------|----------------|---------------|---------------|--------------|---------------|------------------|----------------|-------------------|-------------------|----------------|------------------|----------------|--------------|----------------|---------------|----------------|---------------|-----------------|----------------|
| Nyarugenge | 1,193 | 1,193 | - | - | - | - | 4,566 | 1,697 | 2,060 | 442 | 367 | 11,027 | 1,546 | - | 17 | 105 | 2,785 | 176 | 238 | 36,770 |
| Gasabo | 4,251 | 3,327 | - | 917 | - | 7 | 21,428 | 9,797 | 8,732 | 2,345 | 554 | 19,390 | 4,340 | 95 | 204 | 145 | 6,459 | 36 | 7,568 | 276 |
| Kicukiro | 1,977 | 1,912 | - | 63 | - | 2 | 4,931 | 408 | 4,313 | 33 | 177 | 4,622 | 1,088 | 1 | 33 | 57 | 1,019 | 50 | - | 424 |
| Nyanza | 8,245 | 6,300 | 216 | 1,716 | - | 13 | 72,517 | 57,136 | 13,855 | 1,145 | 380 | 27,339 | 10,535 | 56 | 272 | 533 | 5,331 | - | 7,377 | 131 |
| Gisagara | 18,663 | 10,319 | 485 | 7,714 | - | 145 | 34,362 | 15,874 | 15,252 | 1,107 | 2,129 | 28,467 | 7,698 | 50 | 141 | 1,056 | 1,956 | - | 5,406 | 210 |
| Nyaruguru | 10,981 | 10,963 | - | - | 16 | 1 | 62,675 | 10,144 | 42,198 | 6,993 | 3,339 | 18,993 | 4,739 | 214 | 18 | 428 | 4,230 | 142 | 5,587 | 40 |
| Huye | 10,022 | 6,038 | - | 3,778 | - | 206 | 68,453 | 48,090 | 16,283 | 2,715 | 1,365 | 27,534 | 9,643 | 216 | 136 | 1,050 | 3,381 | - | 824 | 157 |
| Nyamagabe | 6,643 | 6,605 | - | - | 33 | 5 | 74,195 | 14,716 | 45,053 | 13,164 | 1,262 | 21,148 | 5,298 | 1,658 | 3 | 540 | 3,427 | 250 | 3,703 | 32 |
| Ruhango | 7,462 | 4,256 | 71 | 3,095 | - | 39 | 103,450 | 90,018 | 10,702 | 1,418 | 1,312 | 22,139 | 7,927 | 53 | 302 | 1,117 | 2,795 | - | 8,204 | 7,560 |
| Muhanga | 2,176 | 1,848 | 3 | 317 | - | 8 | 68,331 | 19,942 | 26,406 | 1,224 | 20,759 | 55,615 | 3,381 | 78 | 15 | 758 | 2,734 | 194 | 5,321 | 1,743 |
| Kamonyi | 5,639 | 4,891 | - | 745 | - | 3 | 38,261 | 23,946 | 11,209 | 1,998 | 1,108 | 40,971 | 7,124 | 27 | 243 | 1,136 | 6,140 | 5,583 | 5,890 | 782 |
| Karongi | 15,122 | 15,059 | - | - | 31 | 32 | 64,197 | 13,055 | 35,206 | 8,014 | 7,922 | 49,051 | 4,696 | 525 | - | 557 | 7,240 | - | 2,878 | 1,589 |
| Rutsiro | 11,702 | 11,617 | - | - | 85 | - | 63,820 | 2,100 | 26,301 | 26,549 | 8,871 | 31,937 | 2,880 | 413 | - | 329 | 2,910 | 2,482 | 3,482 | 15,097 |
| Rubavu | 3,013 | 2,901 | 112 | - | - | - | 65,203 | - | 4,342 | 60,538 | 323 | 17,624 | 7,552 | 57 | - | 224 | 17,041 | 217 | 6,615 | 12,865 |
| Nyabihu | 5,592 | 3,573 | 882 | - | 1,138 | - | 130,854 | 1,134 | 20,655 | 109,065 | - | 3,171 | 4,937 | 588 | - | - | 16,904 | 101 | 272 | 92 |
| Ngororero | 4,995 | 4,138 | 626 | - | 232 | - | 62,680 | 15,940 | 28,807 | 8,915 | 9,018 | 29,299 | 5,488 | 529 | - | 314 | 2,372 | 1,821 | 2,088 | 10,953 |
| Rusizi | 15,285 | 9,022 | 33 | 6,230 | - | - | 34,299 | 15,375 | 10,178 | 982 | 7,764 | 25,438 | 6,578 | 62 | 258 | 809 | 4,900 | 1,057 | 160 | 6,073 |
| Nyamasheke | 8,140 | 6,557 | 54 | 1,422 | 18 | 88 | 44,251 | 24,409 | 14,487 | 517 | 4,837 | 17,111 | 4,956 | 105 | 69 | 815 | 3,144 | 51 | 6,681 | 4,377 |
| Rulindo | 6,240 | 6,169 | - | 28 | 27 | 17 | 49,515 | 8,054 | 35,648 | 5,339 | 475 | 22,297 | 6,714 | 308 | 59 | 201 | 11,948 | 827 | 2,421 | 53,448 |
| Gakenke | 19,039 | 18,683 | - | 135 | 63 | 158 | 78,193 | 13,493 | 49,557 | 7,870 | 7,272 | 65,126 | 4,970 | 280 | 79 | 235 | 3,572 | 2,079 | 873 | 2,414 |
| Musanze | 19,679 | 15,272 | 3,371 | - | 1,007 | 29 | 64,457 | 151 | 16,610 | 47,471 | 225 | 9,137 | 5,875 | 472 | - | 38 | 4,778 | 1,598 | 2,666 | 12,539 |
| Burera | 20,697 | 17,007 | 2,487 | - | 1,203 | - | 78,501 | 486 | 26,139 | 51,591 | 285 | 6,597 | 9,623 | 887 | - | 10 | 2,179 | 221 | 1,003 | - |
| Gicumbi | 6,281 | 5,913 | 78 | - | 286 | 5 | 98,309 | 7,264 | 59,981 | 30,583 | 481 | 17,366 | 12,341 | 722 | 110 | 57 | 3,147 | 1,055 | 20,801 | - |
| Rwamagana | 17,511 | 16,269 | 1 | 1,177 | - | 63 | 40,369 | 19,106 | 15,497 | 5,394 | 372 | 69,846 | 10,015 | 142 | 528 | 82 | 4,596 | 868 | 4,739 | 5,860 |
| Nyagatare | 68,569 | 42,693 | 19,479 | 6,163 | - | 234 | 30,819 | 19,983 | 7,918 | 2,894 | 24 | 71,679 | 12,921 | 102 | 860 | 476 | 5,579 | 743 | 3,157 | 42 |
| Gatsibo | 34,645 | 26,930 | 3,609 | 4,015 | - | 92 | 51,115 | 20,490 | 20,598 | 10,003 | 25 | 105,374 | 12,163 | 38 | 980 | 344 | 2,670 | 390 | 721 | 4 |
| Kayanza | 23,668 | 18,585 | 2,466 | 2,227 | - | 389 | 80,169 | 59,586 | 12,809 | 4,828 | 2,945 | 54,717 | 13,451 | 34 | 383 | 205 | 11,585 | 715 | 6,492 | 1,218 |
| Kirehe | 40,749 | 33,675 | 2,742 | 4,225 | - | 107 | 35,293 | 20,788 | 9,061 | 4,878 | 566 | 94,458 | 15,161 | 154 | 103 | 384 | 5,406 | 1,135 | 1,938 | 8 |
| Ngoma | 28,708 | 25,459 | 100 | 2,976 | - | 174 | 57,462 | 30,174 | 18,102 | 8,425 | 761 | 88,441 | 10,264 | 35 | 277 | 148 | 4,323 | 943 | 4,289 | 374 |
| Bugesera | 27,631 | 16,823 | 5,415 | 5,281 | - | 112 | 43,764 | 15,189 | 27,050 | 1,030 | 496 | 44,169 | 12,664 | 29 | 671 | 134 | 5,564 | 807 | 8,258 | 1,512 |
| National 2020 A | 454,522 | 353,999 | 42,231 | 52,225 | 4,138 | 1,930 | 1,726,437 | 578,545 | 635,007 | 427,471 | 85,414 | 1,100,082 | 226,570 | 7,933 | 5,762 | 12,284 | 160,114 | 23,542 | 129,651 | 176,592 |
| National 2019 A | 437,662 | 331,090 | 37,584 | 59,286 | 7,082 | 2,620 | 1,737,409 | 523,117 | 674,257 | 468,931 | 71,104 | 1,020,141 | 252,569 | 9,115 | 9,362 | 13,638 | 158,927 | 48,791 | 72,597 | 54,721 |
| Change | 4% | 7% | 12% | -12% | -42% | -26% | -1% | 11% | -6% | -9% | 20% | 8% | -10% | -13% | -38% | -10% | 1% | -52% | 79% | 223% |

Source : NISR, SAS 2020

Table 21. Season B 2020_Crop production by crop type per district (MT)

| District | Maize | Sorghum | Paddy rice | Wheat Other Cereals | Cassava | Sweet potatoes | Irish potatoes | Yams & Taro | Bananas | Beans | Peas | Ground nuts | Soya beans | Vegetables | Fruits | Fodder crops | Other crops | |
|------------------------|---------------|----------------|---------------|---------------------------|--------------|-------------------|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|-----------------|----------------|----------------|
| Iyarugenge | 140 | 426 | - | - | 2,149 | 562 | 24 | 193 | 6,346 | 707 | 5 | 27 | 81 | 2,118 | 186 | 253 | 3,829 | |
| Gasabo | 1,007 | 4,957 | 974 | - | 4,126 | 5,592 | 1,950 | 240 | 15,472 | 3,283 | 25 | 104 | 74 | 7,877 | 226 | 7,667 | 186 | |
| Kicukiro | 394 | 1,606 | 78 | - | 1,146 | 3,846 | 167 | 109 | 5,444 | 1,034 | 5 | 30 | 100 | 561 | - | 53 | 1,594 | |
| Nyanza | 2,367 | 5,463 | 3,306 | - | 29,555 | 19,729 | 905 | 1,847 | 10,077 | 7,233 | 11 | 438 | 360 | 4,849 | 602 | 5,052 | 931 | |
| Gisagara | 1,859 | 3,252 | 9,521 | - | 48,292 | 12,958 | 464 | 774 | 17,033 | 7,758 | 18 | 274 | 913 | 3,108 | 114 | 1,407 | 236 | |
| Nyaruguru | 947 | 2,504 | - | 368 | 8 | 19,317 | 31,620 | 10,157 | 3,677 | 6,169 | 2,964 | 191 | 18 | 295 | 2,711 | 354 | 11,629 | 812 |
| Huye | 692 | 6,128 | 3,595 | - | 25 | 18,879 | 19,568 | 901 | 1,816 | 8,919 | 4,301 | 15 | 112 | 892 | 2,121 | 70 | 1,581 | 1,163 |
| Nyamagabe | 535 | 3,175 | 49 | 1,232 | 62 | 13,927 | 45,897 | 16,722 | 2,568 | 9,547 | 3,460 | 1,513 | 2 | 266 | 3,266 | 339 | 1,430 | 689 |
| Ruhango | 1,042 | 2,299 | 2,792 | - | 55 | 122,035 | 12,606 | 850 | 3,558 | 17,408 | 7,732 | 88 | 1,259 | 764 | 3,288 | 1,220 | 11,894 | 7,746 |
| Muhanga | 292 | 122 | 575 | - | 12 | 44,672 | 41,143 | 357 | 11,729 | 54,620 | 5,407 | 14 | - | 1,042 | 3,771 | 1,063 | 5,734 | 1,738 |
| Kamonyi | 1,315 | 4,014 | 762 | - | 15 | 16,177 | 17,510 | 1,017 | 8,830 | 40,263 | 5,953 | 88 | 240 | 826 | 8,828 | 1,195 | 8,387 | 2,440 |
| Karongi | 888 | 1,419 | - | 251 | 71 | 25,560 | 47,389 | 2,945 | 7,846 | 44,792 | 5,213 | 394 | - | 799 | 4,438 | 51 | 3,939 | 1,634 |
| Rutsiro | 2,793 | 43 | - | 193 | - | 13,480 | 21,814 | 13,918 | 9,526 | 33,180 | 3,714 | 340 | - | 184 | 3,038 | 4,672 | 1,384 | 12,358 |
| Rubavu | 2,743 | 1,052 | - | - | - | 4,155 | 4,044 | 66,604 | 1,001 | 11,424 | 2,968 | 189 | - | 163 | 31,251 | 163 | 1,191 | 18,968 |
| Nyabihu | 5,500 | - | - | 1,629 | - | 348 | 16,128 | 76,475 | 325 | 3,556 | 1,701 | 128 | - | 13 | 11,898 | 363 | 2,092 | 693 |
| Ngororero | 2,389 | 6 | - | 1,001 | - | 2,336 | 40,193 | 5,320 | 7,241 | 32,289 | 2,216 | 220 | - | 266 | 3,360 | 785 | 2,827 | 1,102 |
| Rusizi | 1,438 | 43 | 9,582 | - | - | 68,273 | 15,372 | 262 | 4,374 | 15,945 | 5,176 | 160 | 44 | 215 | 2,276 | 1,636 | - | 6,450 |
| Nyamasheke | 591 | 21 | 1,893 | 38 | 6 | 47,608 | 26,895 | 208 | 6,008 | 14,485 | 3,415 | 100 | 249 | 1,116 | 4,206 | 429 | 664 | 5,947 |
| Rulindo | 1,069 | 3,844 | 54 | 336 | - | 16,172 | 23,322 | 6,198 | 976 | 29,227 | 7,670 | 67 | 37 | 59 | 4,614 | 151 | 2,165 | 23,857 |
| Gakenke | 1,909 | 563 | 105 | 579 | - | 18,996 | 70,792 | 6,191 | 9,381 | 68,133 | 10,114 | 128 | 12 | 196 | 3,397 | 1,158 | 877 | 3,697 |
| Musanze | 4,266 | 1,266 | - | 614 | - | 301 | 15,245 | 43,804 | 2,141 | 3,975 | 6,551 | 228 | - | - | 9,959 | 1,454 | 1,551 | 6,642 |
| Burera | 3,615 | 7,160 | - | 2,285 | 27 | 351 | 22,448 | 46,032 | 980 | 7,710 | 11,597 | 516 | - | - | 2,470 | 216 | 3,032 | 26 |
| Gicumbi | 1,891 | 17,802 | - | 149 | - | 9,153 | 39,621 | 24,660 | 1,181 | 22,496 | 11,444 | 788 | 197 | 30 | 3,838 | 1,898 | 11,158 | 782 |
| Rwamagana | 3,802 | 9,888 | 1,578 | - | 32 | 25,170 | 4,485 | 5,308 | 4,547 | 57,812 | 5,364 | 26 | 460 | 72 | 10,264 | 1,442 | 4,390 | 3,371 |
| Nyagatare | 23,832 | 7,256 | 7,678 | - | 34 | 32,486 | 7,020 | 3,333 | 626 | 61,803 | 22,943 | 21 | 2,350 | 852 | 7,134 | 708 | 111 | 990 |
| Gatsibo | 10,405 | 10,297 | 6,979 | - | 8 | 11,201 | 10,095 | 7,824 | 3,138 | 71,182 | 12,067 | 62 | 2,318 | 563 | 2,405 | 429 | 126 | 5,291 |
| Kayanza | 5,823 | 15,729 | 4,303 | - | 162 | 39,779 | 7,316 | 6,918 | 2,085 | 48,493 | 10,264 | 90 | 533 | 128 | 4,105 | 657 | 3,860 | 411 |
| Kirehe | 5,047 | 10,017 | 5,024 | - | 187 | 33,261 | 7,049 | 1,102 | 4,087 | 71,581 | 13,289 | 215 | 291 | 338 | 4,819 | 76 | 680 | 936 |
| Ngoma | 1,632 | 3,622 | 3,506 | - | 423 | 24,344 | 11,469 | 1,148 | 879 | 83,941 | 13,784 | 24 | 255 | 156 | 3,991 | 1,372 | 4,023 | 1,307 |
| Bugesera | 4,414 | 4,285 | 1,925 | - | 31 | 7,790 | 9,696 | 678 | 946 | 58,670 | 10,062 | - | 1,291 | 189 | 6,311 | 1,800 | 7,324 | 201 |
| National 2020 B | 94,634 | 128,258 | 64,279 | 8,673 | 1,540 | 701,037 | 611,425 | 352,441 | 102,628 | 931,991 | 209,383 | 5,668 | 10,542 | 10,955 | 166,272 | 24,830 | 106,479 | 116,028 |
| National 2019 B | 90,128 | 122,042 | 72,291 | 8,605 | 1,473 | 658,708 | 546,788 | 422,266 | 100,700 | 830,491 | 230,744 | 6,136 | 10,200 | 10,588 | 155,506 | 23,315 | 98,177 | 88,985 |
| Change | 5.0% | 5.1% | -11.1% | 0.8% | 4.6% | 6.4% | 11.8% | -16.5% | 1.9% | 12.2% | -9.3% | -7.6% | 3.4% | 3.5% | 6.9% | 6.5% | 8.5% | 30.4% |

Source : NISR, SAS 2020

Table 22. Season C 2020_Crop production by crop type per district (MT)

| District/Crop | Sweet potatoes | Irish potatoes | Bush bean | Climbing bean | Peas | Soya beans | Vegetables | Total |
|-----------------------|----------------|----------------|---------------|---------------|---------------|--------------|---------------|----------------|
| Nyarugenge | 93 | 5 | 184 | - | - | 49 | 1,630 | 1,960 |
| Gasabo | 300 | - | 1 | - | - | - | 3,043 | 3,344 |
| Kicukiro | 291 | - | 27 | - | - | 3 | 1,134 | 1,455 |
| Nyanza | 812 | 3 | 85 | 31 | 81 | 1 | 2,472 | 3,485 |
| Gisagara | 1,484 | - | 139 | - | 23 | 239 | 2,055 | 3,939 |
| Nyaruguru | 2,727 | 1,394 | 258 | 3 | 19 | 3 | 535 | 4,939 |
| Huye | 1,944 | 21 | 185 | 4 | 56 | 2 | 2,064 | 4,277 |
| Nyamagabe | 2,544 | 142 | 27 | 17 | 8 | 2 | 756 | 3,496 |
| Ruhango | 2,208 | - | 21 | - | 11 | - | 1,457 | 3,697 |
| Muhanga | 1,273 | 177 | 67 | 1 | 33 | 51 | 743 | 2,345 |
| Kamonyi | 1,166 | 48 | 316 | - | 33 | 29 | 2,271 | 3,863 |
| Karongi | 852 | 172 | 1 | - | - | 6 | 677 | 1,708 |
| Rutsiro | 398 | 335 | - | - | 31 | - | 176 | 940 |
| Rubavu | 788 | 10,354 | - | 143 | 28 | - | 2,631 | 13,944 |
| Nyabihu | 703 | 22,115 | 76 | 285 | 7 | - | 5,592 | 28,779 |
| Ngororero | 274 | 237 | - | - | - | 9 | - | 520 |
| Rusizi | - | - | - | - | - | - | 929 | 929 |
| Nyamasheke | 415 | - | 0 | - | - | - | 1,725 | 2,140 |
| Rulindo | 637 | 1,330 | 4 | - | 1 | 35 | 1,122 | 3,129 |
| Gakenke | 667 | 1,059 | 31 | - | - | 83 | 342 | 2,182 |
| Musanze | 1,021 | 15,865 | 86 | 442 | 22 | - | 3,965 | 21,402 |
| Burera | 2,868 | 23,338 | - | 114 | - | - | 1,259 | 27,578 |
| Gicumbi | 689 | 1,471 | 33 | - | - | - | 692 | 2,885 |
| Rwamagana | 499 | 29 | 174 | - | - | 4 | 2,090 | 2,796 |
| Nyagatare | 1,064 | 299 | - | - | 0 | - | 2,815 | 4,178 |
| Gatsibo | 1,197 | 29 | 5 | - | - | - | 2,419 | 3,651 |
| Kayonza | 556 | 116 | - | - | - | - | 2,412 | 3,084 |
| Kirehe | 392 | 70 | 9 | 0 | - | - | 2,266 | 2,737 |
| Ngoma | 361 | 0 | 7 | - | - | - | 1,402 | 1,771 |
| Bugesera | 959 | 0 | 4 | - | - | - | 1,817 | 2,780 |
| National 2020C | 29,182 | 78,609 | 1,741 | 1,042 | 352 | 516 | 52,492 | 163,934 |
| National 2019C | 26,539 | 82,211 | 706 | 232 | 149 | 299 | 36,072 | 146,209 |
| Change | 10.0% | -4.4% | 146.5% | 349.8% | 135.6% | 72.5% | 45.5% | 12.1% |

Source: NISR, SAS 2020

Table 23. Season A 2020_ Use of crop production by farmers (%)

| Crops | Sold | Own consumption | Wages for hired labor | Farm rent | Offered as gift | Barter trade/Exchanged with other things | Seeds | Fodder purposes | Stored | Post harvesting losses | Other usage |
|-----------------|------|-----------------|-----------------------|-----------|-----------------|--|-------|-----------------|--------|------------------------|-------------|
| Maize | 25.0 | 61.1 | 1.0 | 1.4 | 6.8 | 0.1 | 2.0 | 0.3 | 1.7 | 0.3 | 0.3 |
| Sorghum | 41.2 | 41.4 | 1.2 | 2.3 | 6.9 | 0.1 | 4.1 | 0.0 | 1.7 | 0.9 | 0.2 |
| Paddy rice | 76.0 | 19.9 | 0.7 | 0.3 | 0.2 | - | 0.7 | - | 0.1 | 2.0 | - |
| Wheat | 35.5 | 42.8 | 0.1 | - | 6.2 | 0.3 | 15.0 | 0.0 | 0.0 | 0.0 | - |
| Other cereals | 10.5 | 69.0 | 0.4 | 1.5 | 6.8 | 0.1 | 8.7 | - | 1.6 | 1.1 | 0.3 |
| Sweet potato | 19.7 | 69.7 | 1.7 | 0.8 | 6.0 | 0.1 | 0.0 | 1.7 | 0.1 | 0.1 | 0.1 |
| Irish potato | 24.0 | 59.0 | 1.1 | 0.3 | 4.4 | 0.1 | 10.2 | 0.1 | 0.1 | 0.6 | 0.2 |
| Yam & Taro | 20.6 | 68.0 | 1.7 | 0.5 | 6.4 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.2 |
| Cassava | 24.5 | 65.6 | 1.7 | 1.2 | 5.2 | 0.0 | 0.0 | 0.4 | 0.3 | 0.6 | 0.4 |
| Bush bean | 15.5 | 58.4 | 1.5 | 1.6 | 4.9 | 0.1 | 15.0 | 0.0 | 2.2 | 0.6 | 0.3 |
| Climbing bean | 8.3 | 65.8 | 0.8 | 0.7 | 6.2 | 0.1 | 16.1 | 0.0 | 1.5 | 0.1 | 0.3 |
| Pea | 15.6 | 62.6 | 0.0 | 0.2 | 3.5 | - | 17.1 | 0.2 | 0.3 | 0.3 | 0.2 |
| Groundnut | 12.8 | 50.7 | 0.6 | 1.2 | 4.2 | - | 28.9 | - | 0.7 | 0.7 | 0.1 |
| Soybean | 15.6 | 56.4 | 0.7 | 0.7 | 3.7 | 0.4 | 20.7 | 0.3 | 1.3 | 0.2 | 0.1 |
| Cooking banana | 17.0 | 77.5 | 0.9 | 0.2 | 3.7 | 0.0 | - | 0.0 | - | 0.1 | 0.4 |
| Dessert banana | 56.4 | 39.2 | 0.2 | 0.3 | 2.7 | 0.0 | - | 0.1 | - | 0.5 | 0.6 |
| Banana for beer | 61.2 | 31.5 | 0.3 | 0.1 | 4.8 | 0.0 | - | 0.0 | - | 1.4 | 0.7 |
| Vegetables | 63.2 | 28.3 | 0.5 | 0.1 | 3.9 | 0.0 | 1.8 | 0.3 | - | 1.6 | 0.3 |
| Fruits | 57.1 | 36.7 | 0.1 | - | 3.3 | 0.0 | 0.5 | 0.1 | - | 0.1 | 2.0 |
| Fodder crops | 4.7 | 1.4 | 1.0 | - | 1.9 | 1.0 | 0.8 | 81.2 | 1.2 | 0.0 | 6.7 |
| Other crops | 75.6 | 13.1 | - | 0.2 | 4.6 | 0.1 | 0.2 | 1.2 | - | 1.0 | 4.1 |

Source: NISR, SAS 2020

Table 24. Season B 2020_ Use of crop production by farmers (%)

| Crop | Sold | Own consumption | Wages for hired labor | Farm rent | Offered as gift | Barter trade/Exchanged with other things | Seeds | Fodder purposes | Stored | Post harvesting losses | Other usage |
|-----------------|------|-----------------|-----------------------|-----------|-----------------|--|-------|-----------------|--------|------------------------|-------------|
| Maize | 28.0 | 61.1 | 1.4 | 1.8 | 4.4 | 0.1 | 1.3 | 0.5 | 1.0 | 0.2 | 0.2 |
| Sorghum | 45.1 | 39.1 | 1.0 | 2.3 | 5.3 | 0.1 | 3.6 | 0.0 | 2.8 | 0.3 | 0.4 |
| Paddy rice | 84.3 | 13.0 | 0.2 | - | 0.5 | - | 0.7 | - | 0.1 | 1.2 | 0.0 |
| Wheat | 41.7 | 44.5 | 0.6 | 0.1 | 5.2 | - | 7.5 | 0.0 | 0.2 | 0.1 | 0.1 |
| Other cereals | 15.5 | 76.2 | 0.0 | 0.7 | 2.9 | - | 3.3 | - | 0.8 | 0.2 | 0.3 |
| Sweet potato | 22.6 | 66.9 | 1.8 | 1.1 | 4.9 | 0.0 | 0.0 | 2.3 | 0.1 | 0.1 | 0.1 |
| Irish potato | 42.2 | 40.9 | 0.8 | 0.2 | 2.7 | 0.0 | 12.4 | 0.1 | 0.1 | 0.1 | 0.4 |
| Taro & Yams | 23.8 | 67.2 | 1.4 | 0.7 | 4.6 | - | 1.7 | - | 0.1 | 0.0 | 0.3 |
| Cassava | 37.1 | 56.1 | 0.9 | 1.4 | 3.5 | 0.0 | - | 0.2 | 0.2 | 0.3 | 0.2 |
| Bush bean | 21.4 | 59.0 | 1.3 | 1.8 | 3.0 | 0.1 | 11.8 | 0.0 | 1.1 | 0.2 | 0.3 |
| Climbing bean | 12.2 | 65.7 | 0.8 | 0.5 | 4.5 | 0.1 | 14.0 | - | 1.7 | 0.1 | 0.3 |
| Pea | 29.2 | 56.7 | 0.1 | 0.3 | 2.4 | 0.0 | 10.7 | - | 0.3 | 0.1 | 0.0 |
| Groundnut | 31.1 | 41.6 | 0.9 | 0.9 | 4.2 | 0.1 | 20.0 | - | 0.6 | 0.2 | 0.3 |
| Soybean | 21.3 | 59.1 | 0.5 | 0.8 | 3.1 | 0.1 | 14.5 | 0.0 | 0.3 | 0.1 | 0.0 |
| Cooking banana | 36.5 | 57.0 | 1.5 | 0.2 | 4.4 | 0.0 | 0.0 | 0.0 | - | 0.2 | 0.2 |
| Dessert banana | 65.7 | 30.9 | 0.4 | 0.1 | 1.8 | 0.1 | - | 0.0 | - | 0.6 | 0.4 |
| Banana for beer | 76.6 | 17.0 | 0.2 | 0.1 | 3.7 | 0.0 | - | 0.0 | - | 1.9 | 0.5 |
| Vegetables | 79.5 | 12.5 | 0.5 | 0.3 | 3.0 | - | 2.6 | - | 0.3 | 0.9 | 0.5 |
| Fruits | 71.4 | 24.1 | - | - | 3.3 | - | 0.2 | - | - | 0.4 | 0.6 |
| Fodder crops | 10.4 | - | 1.1 | - | 0.1 | 0.6 | 0.9 | 77.5 | 3.5 | 0.0 | 5.9 |
| Other crops | 91.1 | 4.7 | 0.0 | 0.2 | 0.8 | - | 0.2 | 0.6 | 0.0 | 0.2 | 2.3 |

Source: NISR, SAS 2020

Table 25. Season C 2020_ Use of crop production by farmers (%)

| CropCategory | Sold | Auto consumption | Wages for hired labor | Farm rent | Offered as gift | Barter trade/Exchanged with other things | Seeds | Fodder purposes | Stored | Post harvesting losses | Other usage |
|------------------------------|------|------------------|-----------------------|-----------|-----------------|--|-------|-----------------|--------|------------------------|-------------|
| Cereals | | | | | | | | | | | |
| Tubers and Roots | | | | | | | | | | | |
| Sweet potato | 31.3 | 56.6 | 2.1 | 0.9 | 6.2 | 0.0 | - | 2.8 | 0.0 | 0.1 | 0.0 |
| Irish potato | 43.2 | 41.3 | 0.5 | 0.1 | 4.9 | 0.0 | 9.9 | 0.0 | 0.0 | 0.1 | 0.1 |
| Legumes and Pulses | | | | | | | | | | | |
| Bush bean | 10.8 | 68.5 | 0.4 | 0.2 | 3.6 | 0.2 | 14.5 | - | 1.7 | 0.1 | 0.0 |
| Climbing bean | 8.3 | 67.3 | - | - | 6.0 | - | 17.7 | - | 0.2 | 0.0 | 0.4 |
| Pea | 58.3 | 30.3 | 0.1 | 0.2 | 3.1 | 0.1 | 7.8 | - | 0.0 | 0.0 | - |
| Groundnut | 11.3 | 66.9 | - | - | - | - | 21.9 | - | - | - | - |
| Soybean | 25.8 | 51.7 | 0.1 | 0.6 | 6.0 | 0.2 | 15.5 | - | 0.1 | 0.0 | - |
| Vegetables and fruits | | | | | | | | | | | |
| Vegetables | 77.2 | 17.2 | 0.3 | 0.3 | 3.5 | 0.0 | 0.5 | 0.0 | 0.0 | 0.8 | 0.1 |
| Fruits | 83.8 | 15.1 | - | - | 1.1 | - | - | - | - | - | - |
| <i>Other crops</i> | 99.6 | 0.4 | - | - | - | - | - | - | - | - | - |

Source: NISR, SAS 2020

Table 26. Sowing date per Season and District in 2020 (%)

| District | Season A 2020 | | | | | | | | Season B 2020 | | | | | | | | Season C 2020 | | | | | | | |
|-----------------|---------------|------------------|------------------|------------------|------------------|-------------|-----------------------------|--------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------|-----------------------------------|--------------|--------------|------------------|------------------|------------------|-------------|--------------|
| | 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 | Total | Before 01/01 | Between 01-15/01 | Between 16-31/01 | Between 01-15/02 | Between 16-28/02 | Between 01-15/03 | Between 16-31/03 | 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 |
| Nyarugenge | 2.4 | 5.8 | 18.9 | 31.2 | 4.9 | 2.5 | 34.4 | 100.0 | 4.0 | 5.5 | 2.1 | 17.1 | 14.0 | 7.9 | 3.3 | 0.9 | 45.3 | 100.0 | 4.9 | 23.5 | 50.0 | 21.6 | 0.0 | 100.0 |
| Gasabo | 6.9 | 17.7 | 21.6 | 15.3 | 3.6 | 3.8 | 31.2 | 100.0 | 4.2 | 8.3 | 3.3 | 8.5 | 19.1 | 10.6 | 3.7 | 4.4 | 37.9 | 100.0 | 20.1 | 43.5 | 24.0 | 12.3 | 0.0 | 100.0 |
| Kicukiro | 0.9 | 5.1 | 11.2 | 44.2 | 10.2 | 5.5 | 22.9 | 100.0 | 4.6 | 6.1 | 2.9 | 19.6 | 10.4 | 15.8 | 4.1 | 4.9 | 31.5 | 100.0 | 3.0 | 39.6 | 45.5 | 11.9 | 0.0 | 100.0 |
| Nyanza | 4.4 | 3.9 | 5.5 | 30.2 | 16.4 | 7.9 | 31.7 | 100.0 | 6.6 | 6.0 | 3.8 | 22.1 | 11.5 | 9.4 | 2.7 | 4.1 | 33.8 | 100.0 | 6.5 | 34.2 | 37.2 | 20.1 | 2.0 | 100.0 |
| Gisagara | 3.2 | 6.5 | 13.5 | 37.2 | 5.9 | 4.3 | 29.4 | 100.0 | 4.5 | 4.6 | 3.3 | 14.1 | 15.2 | 11.2 | 2.6 | 5.0 | 39.5 | 100.0 | 2.4 | 27.8 | 40.5 | 29.3 | 0.0 | 100.0 |
| Nyaruguru | 12.1 | 10.6 | 19.0 | 16.9 | 8.8 | 7.4 | 25.3 | 100.0 | 4.2 | 6.7 | 4.4 | 9.0 | 9.6 | 11.9 | 5.1 | 12.6 | 36.5 | 100.0 | 4.9 | 34.8 | 26.8 | 33.5 | 0.0 | 100.0 |
| Huye | 5.8 | 13.1 | 10.4 | 29.0 | 6.5 | 4.7 | 30.6 | 100.0 | 3.2 | 7.7 | 5.1 | 14.9 | 17.6 | 7.3 | 1.4 | 4.1 | 38.9 | 100.0 | 2.9 | 27.5 | 43.3 | 26.3 | 0.0 | 100.0 |
| Nyamagabe | 7.9 | 16.8 | 16.6 | 15.5 | 10.6 | 10.1 | 22.5 | 100.0 | 4.3 | 6.4 | 5.3 | 9.3 | 10.8 | 14.3 | 9.8 | 10.5 | 29.4 | 100.0 | 2.7 | 23.3 | 47.3 | 26.7 | 0.0 | 100.0 |
| Ruhango | 3.3 | 4.9 | 9.4 | 36.9 | 11.6 | 4.9 | 29.0 | 100.0 | 4.0 | 7.3 | 3.4 | 19.5 | 18.0 | 7.5 | 2.1 | 7.4 | 30.8 | 100.0 | 8.3 | 28.3 | 37.9 | 25.5 | 0.0 | 100.0 |
| Muhanga | 5.3 | 6.4 | 13.6 | 15.0 | 4.5 | 9.0 | 46.3 | 100.0 | 4.0 | 3.5 | 1.9 | 11.5 | 11.5 | 8.0 | 2.6 | 4.3 | 52.7 | 100.0 | 5.1 | 40.0 | 40.0 | 14.3 | 0.6 | 100.0 |
| Kamonyi | 2.9 | 4.7 | 11.6 | 35.7 | 8.3 | 7.5 | 29.4 | 100.0 | 5.9 | 4.8 | 6.1 | 20.5 | 10.0 | 7.0 | 2.8 | 5.2 | 37.8 | 100.0 | 2.2 | 33.8 | 29.4 | 33.8 | 0.7 | 100.0 |
| Karongi | 7.2 | 19.8 | 18.1 | 14.0 | 5.8 | 6.9 | 28.3 | 100.0 | 1.6 | 3.4 | 5.1 | 13.1 | 13.8 | 11.7 | 4.9 | 7.7 | 38.6 | 100.0 | 0.9 | 54.6 | 36.4 | 8.2 | 0.0 | 100.0 |
| Rutsiro | 18.2 | 21.2 | 13.2 | 9.0 | 4.6 | 7.0 | 26.9 | 100.0 | 6.9 | 1.7 | 2.2 | 11.1 | 11.5 | 8.8 | 5.4 | 8.9 | 43.6 | 100.0 | 3.7 | 22.3 | 29.8 | 43.6 | 0.5 | 100.0 |
| Rubavu | 31.3 | 26.0 | 13.5 | 6.6 | 2.3 | 3.1 | 17.4 | 100.0 | 7.0 | 6.2 | 4.0 | 17.6 | 11.5 | 10.3 | 7.2 | 7.5 | 28.8 | 100.0 | 9.8 | 31.5 | 38.0 | 20.7 | 0.0 | 100.0 |
| Nyabihu | 27.0 | 21.2 | 22.4 | 9.8 | 3.1 | 8.8 | 7.8 | 100.0 | 3.8 | 6.8 | 4.8 | 12.7 | 16.5 | 19.7 | 11.6 | 9.8 | 14.4 | 100.0 | 10.3 | 44.3 | 37.9 | 7.5 | 0.0 | 100.0 |
| Ngororero | 12.3 | 25.1 | 12.2 | 8.9 | 1.9 | 7.3 | 32.4 | 100.0 | 5.9 | 1.7 | 2.2 | 10.4 | 17.4 | 7.8 | 5.2 | 7.7 | 41.7 | 100.0 | 4.8 | 19.1 | 59.5 | 16.7 | 0.0 | 100.0 |
| Rusizi | 4.5 | 7.4 | 19.0 | 35.9 | 9.5 | 3.2 | 20.5 | 100.0 | 6.1 | 1.2 | 1.0 | 6.4 | 10.9 | 5.9 | 2.5 | 1.4 | 64.7 | 100.0 | 0.0 | 66.7 | 0.0 | 33.3 | 0.0 | 100.0 |
| Nyamasheke | 3.9 | 19.7 | 24.4 | 16.0 | 4.1 | 5.9 | 26.0 | 100.0 | 5.7 | 1.7 | 1.6 | 13.8 | 14.6 | 11.2 | 3.2 | 4.4 | 43.8 | 100.0 | 5.1 | 29.0 | 34.1 | 29.0 | 2.9 | 100.0 |
| Rulindo | 7.4 | 30.6 | 13.9 | 8.9 | 4.1 | 6.2 | 29.0 | 100.0 | 2.5 | 12.2 | 6.6 | 7.9 | 5.0 | 13.6 | 8.8 | 8.4 | 35.0 | 100.0 | 3.7 | 57.3 | 23.2 | 15.9 | 0.0 | 100.0 |
| Gakenke | 6.3 | 20.7 | 19.2 | 8.9 | 2.8 | 5.5 | 36.5 | 100.0 | 5.0 | 4.1 | 1.5 | 6.8 | 6.3 | 14.5 | 6.2 | 7.5 | 48.1 | 100.0 | 6.5 | 27.6 | 52.4 | 13.5 | 0.0 | 100.0 |
| Musanze | 24.6 | 28.0 | 17.0 | 9.1 | 2.1 | 9.2 | 9.9 | 100.0 | 3.8 | 3.6 | 3.1 | 5.5 | 7.2 | 26.9 | 20.2 | 15.5 | 14.3 | 100.0 | 3.1 | 17.7 | 51.0 | 27.6 | 0.5 | 100.0 |
| Burera | 16.2 | 40.3 | 13.9 | 9.7 | 3.2 | 7.8 | 8.9 | 100.0 | 3.7 | 15.5 | 5.5 | 10.8 | 8.1 | 15.4 | 16.9 | 13.2 | 11.0 | 100.0 | 6.4 | 40.0 | 44.7 | 8.9 | 0.0 | 100.0 |
| Gicumbi | 7.3 | 27.2 | 21.8 | 10.4 | 4.6 | 6.5 | 22.2 | 100.0 | 2.9 | 12.3 | 6.4 | 9.0 | 8.3 | 17.1 | 7.4 | 10.6 | 26.2 | 100.0 | 1.6 | 45.3 | 42.2 | 10.9 | 0.0 | 100.0 |
| Rwamagana | 4.3 | 11.5 | 13.9 | 26.4 | 3.9 | 3.8 | 36.2 | 100.0 | 7.0 | 9.8 | 2.3 | 11.7 | 11.7 | 9.9 | 4.0 | 2.3 | 41.3 | 100.0 | 3.3 | 20.2 | 33.8 | 41.8 | 0.9 | 100.0 |
| Nyagatare | 5.4 | 41.4 | 19.0 | 9.5 | 1.7 | 1.6 | 21.3 | 100.0 | 4.0 | 1.3 | 1.7 | 10.4 | 20.9 | 29.2 | 7.7 | 2.1 | 22.8 | 100.0 | 9.9 | 46.9 | 34.2 | 9.0 | 0.0 | 100.0 |
| Gatsibo | 3.3 | 16.1 | 24.1 | 16.6 | 3.1 | 0.9 | 36.1 | 100.0 | 4.1 | 3.9 | 1.8 | 8.2 | 12.1 | 17.8 | 6.2 | 2.5 | 43.5 | 100.0 | 11.8 | 38.7 | 30.1 | 19.4 | 0.0 | 100.0 |
| Kayanza | 5.2 | 15.3 | 20.1 | 25.4 | 5.8 | 3.0 | 25.3 | 100.0 | 4.0 | 10.3 | 2.9 | 7.6 | 10.2 | 22.9 | 6.5 | 2.6 | 33.1 | 100.0 | 9.6 | 36.2 | 40.4 | 12.8 | 1.1 | 100.0 |
| Kirehe | 1.5 | 5.4 | 13.1 | 41.5 | 8.2 | 2.7 | 27.6 | 100.0 | 8.1 | 10.1 | 3.1 | 13.7 | 12.5 | 11.2 | 1.5 | 0.7 | 39.0 | 100.0 | 5.8 | 37.0 | 32.8 | 24.3 | 0.0 | 100.0 |
| Ngoma | 2.6 | 10.6 | 17.7 | 23.2 | 5.7 | 2.9 | 37.3 | 100.0 | 2.8 | 6.6 | 2.8 | 6.1 | 13.8 | 15.1 | 4.9 | 0.4 | 47.4 | 100.0 | 0.0 | 55.8 | 25.0 | 17.3 | 1.9 | 100.0 |
| Bugesera | 5.8 | 4.7 | 8.9 | 44.2 | 8.2 | 6.3 | 22.1 | 100.0 | 4.0 | 8.0 | 1.8 | 6.2 | 13.3 | 32.1 | 7.6 | 2.6 | 24.4 | 100.0 | 5.7 | 31.1 | 42.5 | 18.9 | 1.9 | 100.0 |
| National | 7.0 | 15.3 | 15.8 | 22.7 | 6.0 | 5.2 | 28.0 | 100.0 | 4.7 | 6.3 | 3.3 | 11.7 | 12.7 | 14.3 | 5.5 | 5.3 | 36.3 | 100.0 | 5.6 | 33.9 | 38.3 | 21.8 | 0.4 | 100.0 |

Source: NISR, SAS 2020

Table 27. Sowing dates per Season and crop type in 2020 (%)

| Crops | Season A 2020 | | | | | | | | Season B 2020 | | | | | | | | Season C 2020 | | | | | | | |
|-----------------|---------------|------------------|------------------|------------------|------------------|-------------|-----------------------------------|--------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------|-----------------------------------|--------------|--------------|------------------|------------------|------------------|-------------|--------------|
| | 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 | Between 16-31/03 | 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 | 6.1 | 4.6 | 1.8 | 6.4 | 3.1 | 8.8 | 69.2 | 100.0 | 1.6 | 5.2 | 0.8 | 0.4 | 0.8 | 2.4 | 1.6 | 3.2 | 84.0 | 100.0 | 6.7 | 26.7 | 20.0 | 46.7 | 0.0 | 100.0 |
| Vegetables | 18.1 | 17.7 | 12.6 | 20.8 | 8.9 | 21.9 | - | 100.0 | 8.9 | 6.8 | 4.5 | 14.3 | 11.1 | 15.1 | 14.2 | 25.1 | 0.0 | 100.0 | 7.8 | 38.7 | 34.6 | 18.5 | 0.4 | 100.0 |
| Other crops | 49.5 | 6.2 | 1.0 | 4.2 | 0.7 | 4.9 | 33.6 | 100.0 | 18.1 | 0.1 | 0.3 | 0.9 | 1.1 | 3.9 | 2.9 | 3.2 | 69.5 | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 | 100.0 |
| Other cereals | 0.8 | 17.7 | 23.1 | 47.5 | 9.7 | 1.3 | - | 100.0 | 1.0 | 0.0 | 2.1 | 21.0 | 32.8 | 36.9 | 6.2 | 0.0 | 0.0 | 100.0 | | | | | | 100.0 |
| Taro & Yams | 22.3 | 20.8 | 13.9 | 21.5 | 8.3 | 13.1 | - | 100.0 | 73.0 | 7.4 | 1.9 | 5.3 | 2.7 | 3.3 | 1.6 | 5.0 | 0.0 | 100.0 | | | | | | 100.0 |
| Fodder crops | 79.0 | 6.9 | 2.6 | 3.4 | 2.6 | 5.2 | 0.4 | 100.0 | 79.8 | 1.2 | 1.2 | 4.1 | 1.7 | 3.7 | 4.1 | 4.1 | 0.0 | 100.0 | | | | | | 100.0 |
| Maize | 6.7 | 24.0 | 24.2 | 34.9 | 7.9 | 2.4 | - | 100.0 | 0.6 | 3.2 | 2.9 | 23.4 | 32.8 | 28.4 | 7.2 | 1.5 | 0.0 | 100.0 | | | | | | 100.0 |
| Paddy rice | 87.2 | 6.4 | 2.4 | 1.6 | 0.8 | 1.6 | - | 100.0 | 17.1 | 32.9 | 14.4 | 14.4 | 7.5 | 4.1 | 4.1 | 5.5 | 0.0 | 100.0 | | | | | | 100.0 |
| Sorghum | 24.7 | 36.3 | 23.9 | 13.2 | 1.3 | 0.6 | - | 100.0 | 5.1 | 54.0 | 21.6 | 14.0 | 3.8 | 1.3 | 0.1 | 0.1 | 0.0 | 100.0 | | | | | | 100.0 |
| Wheat | 5.6 | 12.2 | 16.8 | 29.9 | 18.7 | 16.8 | - | 100.0 | 0.0 | 0.0 | 0.4 | 1.4 | 5.3 | 23.0 | 32.2 | 37.8 | 0.0 | 100.0 | | | | | | 100.0 |
| Bush bean | 0.9 | 15.4 | 24.0 | 46.8 | 11.6 | 1.5 | - | 100.0 | 0.2 | 0.5 | 0.9 | 21.5 | 29.1 | 36.2 | 9.7 | 1.9 | 0.0 | 100.0 | 1.2 | 7.6 | 36.2 | 53.8 | 1.2 | 100.0 |
| Climbing bean | 5.3 | 36.1 | 30.3 | 22.4 | 5.2 | 0.8 | - | 100.0 | 0.0 | 0.6 | 1.5 | 20.7 | 27.2 | 33.0 | 13.9 | 3.1 | 0.0 | 100.0 | 2.6 | 26.3 | 42.1 | 29.0 | 0.0 | 100.0 |
| Pea | 7.5 | 29.0 | 27.1 | 22.5 | 7.2 | 6.7 | - | 100.0 | 0.0 | 0.7 | 2.0 | 10.3 | 14.6 | 28.9 | 22.9 | 20.6 | 0.0 | 100.0 | 1.0 | 14.8 | 44.8 | 39.1 | 0.5 | 100.0 |
| Irish potato | 16.8 | 22.4 | 19.9 | 20.2 | 6.0 | 14.8 | - | 100.0 | 1.1 | 4.3 | 4.4 | 13.3 | 16.6 | 22.6 | 15.6 | 22.3 | 0.0 | 100.0 | 3.7 | 34.9 | 45.6 | 15.8 | 0.1 | 100.0 |
| Sweet potato | 19.2 | 10.7 | 8.7 | 14.9 | 10.4 | 36.2 | - | 100.0 | 7.0 | 8.3 | 5.2 | 15.7 | 10.0 | 15.3 | 9.5 | 29.2 | 0.0 | 100.0 | 6.8 | 44.9 | 34.9 | 13.0 | 0.4 | 100.0 |
| Soybean | 0.5 | 14.9 | 21.2 | 45.0 | 12.7 | 5.7 | - | 100.0 | 0.5 | 1.0 | 2.7 | 30.5 | 30.4 | 23.5 | 8.1 | 3.3 | 0.0 | 100.0 | 0.9 | 9.5 | 67.2 | 21.6 | 0.9 | 100.0 |
| Groundnut | 1.3 | 16.5 | 24.4 | 46.2 | 9.9 | 1.7 | - | 100.0 | 0.5 | 1.4 | 3.1 | 28.3 | 28.2 | 31.1 | 6.2 | 1.2 | 0.0 | 100.0 | 0.0 | 0.0 | 12.5 | 87.5 | 0.0 | 100.0 |
| Cooking banana | 1.3 | 1.1 | 0.4 | 0.4 | 0.3 | 0.4 | 96.2 | 100.0 | 1.5 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 98.0 | 100.0 | | | | | | 100.0 |
| Dessert banana | 2.7 | 1.0 | 0.4 | 0.5 | 0.1 | 0.2 | 95.1 | 100.0 | 2.3 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.3 | 97.0 | 100.0 | | | | | | 100.0 |
| Banana for beer | 1.4 | 0.6 | 0.2 | 0.5 | 0.2 | 0.3 | 96.8 | 100.0 | 1.2 | 0.3 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 98.0 | 100.0 | | | | | | 100.0 |
| Cassava | 4.7 | 11.4 | 12.5 | 17.3 | 3.6 | 5.8 | 44.7 | 100.0 | 2.3 | 1.6 | 1.1 | 4.6 | 2.6 | 3.9 | 1.9 | 6.5 | 75.7 | 100.0 | | | | | | 100.0 |
| National | 7.0 | 15.3 | 15.8 | 22.7 | 6.0 | 5.2 | 28.0 | 100.0 | 4.7 | 6.3 | 3.3 | 11.7 | 12.7 | 14.3 | 5.5 | 5.3 | 36.3 | 100.0 | 5.6 | 33.9 | 38.3 | 21.8 | 0.4 | 100.0 |

Source: NISR, SAS 2020

Table 28. Cultivated area by cropping system, per season and district (%) in 2020

| District | Pure | | | Mixed | | |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | 26.0 | 39.1 | 66.9 | 74.0 | 60.9 | 33.1 |
| Gasabo | 26.0 | 32.3 | 79.1 | 74.0 | 67.7 | 20.9 |
| Kicukiro | 16.6 | 23.0 | 70.8 | 83.4 | 77.0 | 29.2 |
| Nyanza | 27.6 | 27.3 | 68.1 | 72.4 | 72.7 | 31.9 |
| Gisagara | 28.2 | 26.5 | 67.3 | 71.8 | 73.5 | 32.7 |
| Nyaruguru | 38.5 | 46.4 | 77.2 | 61.5 | 53.6 | 22.8 |
| Huye | 20.2 | 22.5 | 63.8 | 79.8 | 77.5 | 36.2 |
| Nyamagabe | 27.6 | 37.0 | 76.4 | 72.4 | 63.0 | 23.6 |
| Ruhango | 32.3 | 29.0 | 68.9 | 67.7 | 71.0 | 31.1 |
| Muhanga | 28.4 | 26.3 | 66.7 | 71.6 | 73.7 | 33.3 |
| Kamonyi | 30.8 | 28.6 | 71.2 | 69.2 | 71.4 | 28.8 |
| Karongi | 40.7 | 41.1 | 71.3 | 59.3 | 58.9 | 28.7 |
| Rutsiro | 46.4 | 40.8 | 57.1 | 53.6 | 59.2 | 42.9 |
| Rubavu | 47.6 | 75.5 | 77.1 | 52.4 | 24.5 | 22.9 |
| Nyabihu | 51.8 | 63.5 | 79.2 | 48.2 | 36.5 | 20.8 |
| Ngororero | 24.1 | 37.9 | 75.3 | 75.9 | 62.1 | 24.7 |
| Rusizi | 22.3 | 49.5 | 77.3 | 77.7 | 50.5 | 22.7 |
| Nyamasheke | 36.1 | 41.0 | 50.4 | 63.9 | 59.0 | 49.6 |
| Rulindo | 31.2 | 34.6 | 70.3 | 68.8 | 65.4 | 29.7 |
| Gakenke | 31.1 | 35.3 | 53.5 | 68.9 | 64.7 | 46.5 |
| Musanze | 39.3 | 57.0 | 68.5 | 60.7 | 43.0 | 31.5 |
| Burera | 41.6 | 63.2 | 80.2 | 58.4 | 36.8 | 19.8 |
| Gicumbi | 41.7 | 41.5 | 77.8 | 58.3 | 58.5 | 22.2 |
| Rwamagana | 18.2 | 23.7 | 58.6 | 81.8 | 76.3 | 41.4 |
| Nyagatare | 29.7 | 19.4 | 75.9 | 70.3 | 80.6 | 24.1 |
| Gatsibo | 18.9 | 23.2 | 73.1 | 81.1 | 76.8 | 26.9 |
| Kayonza | 20.1 | 22.3 | 60.5 | 79.9 | 77.7 | 39.5 |
| Kirehe | 23.1 | 24.5 | 55.5 | 76.9 | 75.5 | 44.5 |
| Ngoma | 21.4 | 28.4 | 58.0 | 78.6 | 71.6 | 42.0 |
| Bugesera | 26.9 | 22.8 | 72.8 | 73.1 | 77.2 | 27.2 |
| National | 29.8 | 33.4 | 73.4 | 70.2 | 66.6 | 26.6 |
| Small scale farmers | 28.3 | 32.3 | | 71.7 | 67.7 | |
| Large scale farmers | 96.6 | 93.5 | | 3.4 | 6.5 | |

Source: NISR, SAS 2020

Table 29: Season A 2020_ Use of improved seeds by farmer type per district (%)

| District | Percentage of farmers who used improved seeds | | | Percentage of sampled plots in which improved seeds was used | | | Percentage of land size in which improved seeds were used | | |
|-----------------|---|-----------|-----------|--|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 24.9 | 24.9 | - | 21.3 | 21.3 | - | 24.4 | 24.4 | - |
| Gasabo | 30.3 | 28.3 | 90 | 25 | 25 | 63.3 | 30.6 | 29.2 | 91.6 |
| Kicukiro | 47.8 | 47.1 | 100 | 26.3 | 26.3 | 88.9 | 41.7 | 40.8 | 80.3 |
| Nyanza | 29 | 28 | 87.5 | 23 | 23 | 75 | 29 | 27.6 | 83.8 |
| Gisagara | 41.7 | 39.4 | 94.4 | 34.1 | 34.1 | 84 | 44.9 | 38.9 | 87.1 |
| Nyaruguru | 40.8 | 39.2 | 100 | 35.3 | 35.3 | 100 | 37.7 | 37.1 | 100 |
| Huye | 33.3 | 30.4 | 79.2 | 26.4 | 26.4 | 54.8 | 31.2 | 29 | 75 |
| Nyamagabe | 21.9 | 21.7 | 100 | 22.2 | 22.2 | 100 | 19.5 | 19.4 | 100 |
| Ruhango | 20.5 | 19.7 | 62.5 | 14.2 | 14.2 | 64.3 | 20 | 18.2 | 73.7 |
| Muhanga | 19.5 | 18.1 | 75 | 10.6 | 10.6 | 77.8 | 14.8 | 13.2 | 82.3 |
| Kamonyi | 27.9 | 26 | 100 | 26.8 | 26.8 | 88.9 | 24.6 | 22.6 | 99.8 |
| Karongi | 39.9 | 39.7 | 100 | 31.9 | 31.9 | 100 | 38.3 | 38.3 | 100 |
| Rutsiro | 21.8 | 21.8 | - | 18.9 | 18.9 | - | 19.5 | 19.5 | - |
| Rubavu | 18.7 | 17.9 | 100 | 14.1 | 14.1 | 85.7 | 17 | 16.9 | 98.6 |
| Nyabihu | 21.6 | 21.6 | - | 14.6 | 14.6 | - | 19.8 | 19.8 | - |
| Ngororero | 31.8 | 31.8 | - | 24.5 | 24.5 | - | 30.6 | 30.6 | - |
| Rusizi | 40.4 | 39.7 | 75 | 30.3 | 30.3 | 80 | 41.3 | 38.2 | 98.2 |
| Nyamasheke | 26.1 | 26 | 33.3 | 21.7 | 21.7 | 33.3 | 24.4 | 24.2 | 42.2 |
| Rulindo | 31.6 | 31.1 | 75 | 26.8 | 26.8 | 56.3 | 29.7 | 29.6 | 63.5 |
| Gakenke | 46.6 | 46.6 | - | 42.6 | 42.6 | - | 44.5 | 44.5 | - |
| Musanze | 30.3 | 30.3 | - | 25.2 | 25.2 | - | 30 | 30 | - |
| Burera | 38.3 | 38.3 | - | 30.6 | 30.6 | - | 36.1 | 36.1 | - |
| Gicumbi | 23.4 | 23.3 | 50 | 22 | 22 | 25 | 21.6 | 21.6 | 42.9 |
| Rwamagana | 46.6 | 44.6 | 84.6 | 35.2 | 35.2 | 56 | 43.4 | 43 | 68.9 |
| Nyagatare | 40.1 | 35.8 | 93.2 | 28.7 | 28.7 | 68.1 | 36.5 | 33.3 | 97.8 |
| Gatsibo | 38 | 36.3 | 94.4 | 27.1 | 27.1 | 74.4 | 39 | 36.5 | 99.1 |
| Kayonza | 41.9 | 40.7 | 76.9 | 33.5 | 33.5 | 31.3 | 41.1 | 40.3 | 79.9 |
| Kirehe | 43.6 | 42.9 | 90 | 37.9 | 37.9 | 91.3 | 42.6 | 39.9 | 98.3 |
| Ngoma | 57.8 | 57.5 | 72.7 | 50.9 | 50.9 | 69.2 | 56.1 | 56.2 | 51.7 |
| Bugesera | 47.2 | 44.3 | 100 | 40.7 | 40.7 | 78.7 | 44.3 | 42 | 98 |
| National | 35.2 | 34 | 87 | 27.8 | 27.8 | 64.6 | 34.3 | 32.9 | 88.8 |

Source: NISR, SAS 2020

Table 30: Season B 2020_ Use of seeds by farmer type per district (%)

| District | Percentage of farmers who used improved seeds | | | Percentage of sampled plots in which improved seeds was used | | | Percentage of land size in which improved seeds were used | | |
|-----------------|---|-------------|-------------|--|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 13.3 | 13.3 | | 12.1 | 12.1 | | 12.2 | 12.2 | |
| Gasabo | 14.3 | 12.0 | 90.0 | 10.3 | 10.2 | 55.6 | 12.5 | 10.9 | 87.3 |
| Kicukiro | 8.9 | 8.2 | 50.0 | 4.3 | 4.3 | 50.0 | 8.7 | 8.6 | 21.3 |
| Nyanza | 18.9 | 18.0 | 85.7 | 13.3 | 13.3 | 75.0 | 17.8 | 16.9 | 69.0 |
| Gisagara | 17.1 | 15.0 | 85.7 | 9.4 | 9.4 | 61.9 | 21.0 | 14.8 | 97.2 |
| Nyaruguru | 12.0 | 10.1 | 87.5 | 7.6 | 7.6 | 78.6 | 10.5 | 9.7 | 90.3 |
| Huye | 10.7 | 8.2 | 65.0 | 7.4 | 7.4 | 59.1 | 9.5 | 7.2 | 67.8 |
| Nyamagabe | 13.4 | 13.4 | | 9.2 | 9.2 | | 11.6 | 11.6 | |
| Ruhango | 10.3 | 9.6 | 45.5 | 5.9 | 5.8 | 52.4 | 9.8 | 8.7 | 78.8 |
| Muhanga | 9.3 | 8.6 | 100.0 | 5.5 | 5.5 | 100.0 | 7.5 | 7.2 | 100.0 |
| Kamonyi | 14.5 | 13.6 | 100.0 | 12.4 | 12.4 | 66.7 | 11.6 | 11.1 | 94.3 |
| Karongi | 12.3 | 12.4 | 0.0 | 11.7 | 11.7 | 0.0 | 11.5 | 11.5 | 0.0 |
| Rutsiro | 13.9 | 13.9 | | 15.0 | 15.0 | | 13.3 | 13.3 | |
| Rubavu | 20.7 | 20.4 | 50.0 | 11.6 | 11.6 | 37.5 | 19.5 | 19.4 | 52.5 |
| Nyabihu | 41.1 | 41.1 | | 39.1 | 39.1 | | 40.2 | 40.2 | |
| Ngororero | 22.7 | 22.7 | | 25.0 | 25.0 | | 20.8 | 20.8 | |
| Rusizi | 14.9 | 12.4 | 88.9 | 12.5 | 12.4 | 90.9 | 19.8 | 12.5 | 99.2 |
| Nyamasheke | 10.0 | 9.5 | 37.5 | 8.9 | 8.9 | 30.0 | 10.0 | 9.6 | 42.8 |
| Rulindo | 15.2 | 14.2 | 83.3 | 10.5 | 10.5 | 31.6 | 15.6 | 15.6 | 26.2 |
| Gakenke | 8.9 | 8.9 | | 6.7 | 6.7 | | 7.6 | 7.6 | |
| Musanze | 16.7 | 16.7 | | 12.2 | 12.2 | | 17.4 | 17.4 | |
| Burera | 7.6 | 7.6 | | 4.4 | 4.4 | | 7.7 | 7.7 | |
| Gicumbi | 10.5 | 10.2 | 100.0 | 9.8 | 9.8 | 75.0 | 8.8 | 8.7 | 93.6 |
| Rwamagana | 17.1 | 13.5 | 88.9 | 11.9 | 11.9 | 43.1 | 13.2 | 12.0 | 79.2 |
| Nyagatare | 31.6 | 28.0 | 78.1 | 21.8 | 21.7 | 64.2 | 27.4 | 25.4 | 73.3 |
| Gatsibo | 19.1 | 17.4 | 82.4 | 10.4 | 10.4 | 67.9 | 18.2 | 16.4 | 65.8 |
| Kayonza | 22.8 | 20.4 | 93.3 | 15.4 | 15.4 | 72.2 | 21.1 | 19.2 | 96.1 |
| Kirehe | 6.8 | 5.5 | 100.0 | 3.6 | 3.6 | 70.3 | 8.3 | 5.2 | 83.3 |
| Ngoma | 6.2 | 5.0 | 72.7 | 3.2 | 3.2 | 70.8 | 8.7 | 7.1 | 81.4 |
| Bugesera | 25.6 | 21.9 | 91.2 | 17.5 | 17.5 | 64.8 | 22.5 | 20.0 | 94.2 |
| National | 15.6 | 14.3 | 80.5 | 11.2 | 11.2 | 60.9 | 15.2 | 13.9 | 82.7 |

Source: NISR, SAS 2020

Table 31: Season C 2020_ Use of seeds types per district (%)

| District | Percentage of farmers who used improved seeds | | | Percentage of sampled plots in which improved seeds was used | | | Percentage of land size in which improved seeds were used | | |
|-----------------|---|-------------|-------------|--|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE |
| Nyarugenge | 39.7 | 29.2 | 46.2 | 17.4 | 17.2 | 47.9 | 39.0 | 39.0 | 43.1 |
| Gasabo | 66.1 | 65.4 | 66.3 | 52.0 | 52.0 | 65.0 | 69.0 | 69.0 | 68.1 |
| Kicukiro | 27.9 | 41.7 | 25.0 | 27.0 | 27.0 | 25.0 | 41.7 | 41.9 | 36.2 |
| Nyanza | 33.6 | 21.4 | 36.5 | 9.1 | 9.0 | 36.1 | 30.8 | 30.5 | 54.4 |
| Gisagara | 29.8 | 18.5 | 32.7 | 19.8 | 19.8 | 34.2 | 15.6 | 15.4 | 43.9 |
| Nyaruguru | 15.0 | 9.3 | 17.5 | 10.2 | 10.1 | 17.4 | 8.9 | 8.9 | 15.2 |
| Huye | 19.2 | 9.4 | 21.4 | 3.5 | 3.5 | 20.7 | 8.7 | 8.6 | 24.4 |
| Nyamagabe | 35.4 | 10.0 | 47.0 | 11.9 | 11.8 | 47.1 | 9.8 | 9.7 | 50.5 |
| Ruhango | 23.8 | 18.8 | 26.1 | 19.6 | 19.6 | 25.0 | 18.3 | 18.3 | 21.3 |
| Muhanga | 25.5 | 14.3 | 28.6 | 12.8 | 12.7 | 29.4 | 13.7 | 13.5 | 36.7 |
| Kamonyi | 42.7 | 17.9 | 52.9 | 16.9 | 16.9 | 52.1 | 26.5 | 26.3 | 63.1 |
| Karongi | 39.3 | 28.6 | 41.4 | 21.6 | 21.5 | 42.7 | 24.4 | 24.3 | 42.2 |
| Rutsiro | 23.1 | 0.0 | 25.0 | 0.6 | 0.0 | 25.2 | 4.3 | 0.0 | 36.9 |
| Rubavu | 47.0 | 26.0 | 78.8 | 16.5 | 16.4 | 80.0 | 26.2 | 26.1 | 79.0 |
| Nyabihu | 17.7 | 14.8 | 21.4 | 16.6 | 16.6 | 22.7 | 14.5 | 14.4 | 50.0 |
| Ngororero | 3.0 | 11.1 | 0.0 | 1.0 | 1.0 | 0.0 | 35.6 | 36.0 | 0.0 |
| Rusizi | 66.7 | 66.7 | | 76.0 | 76.0 | | 66.7 | 66.7 | |
| Nyamasheke | 45.0 | 47.4 | 44.3 | 35.5 | 35.5 | 43.6 | 48.7 | 48.7 | 56.2 |
| Rulindo | 15.2 | 12.5 | 19.2 | 7.1 | 7.1 | 18.5 | 19.5 | 19.4 | 69.4 |
| Gakenke | 15.1 | 13.9 | 15.5 | 9.2 | 9.2 | 15.2 | 12.6 | 12.6 | 12.9 |
| Musanze | 19.1 | 17.5 | 20.0 | 18.1 | 18.1 | 20.4 | 19.0 | 19.0 | 19.8 |
| Burera | 7.1 | 3.1 | 10.5 | 6.0 | 5.9 | 11.0 | 3.1 | 3.1 | 13.1 |
| Gicumbi | 25.0 | 13.0 | 28.4 | 9.9 | 9.8 | 26.4 | 12.5 | 12.2 | 19.3 |
| Rwamagana | 29.3 | 12.0 | 33.7 | 12.6 | 12.4 | 33.3 | 10.8 | 10.1 | 45.2 |
| Nyagatare | 35.1 | 52.2 | 27.5 | 52.0 | 52.1 | 26.9 | 49.1 | 49.9 | 23.1 |
| Gatsibo | 46.3 | 40.0 | 48.1 | 22.9 | 22.8 | 43.3 | 39.3 | 39.2 | 46.5 |
| Kayonza | 72.1 | 58.8 | 76.5 | 62.7 | 62.6 | 77.2 | 59.5 | 58.3 | 88.8 |
| Kirehe | 58.9 | 41.7 | 60.7 | 26.1 | 25.6 | 59.7 | 51.3 | 49.9 | 62.3 |
| Ngoma | 43.7 | 33.3 | 45.8 | 34.3 | 34.2 | 44.7 | 38.2 | 35.4 | 81.6 |
| Bugesera | 44.6 | 28.6 | 47.8 | 23.2 | 23.1 | 47.9 | 20.2 | 18.9 | 65.1 |
| National | 30.6 | 20.4 | 34.5 | 16.7 | 16.7 | 34.6 | 20.5 | 20.2 | 44.5 |

Source: NISR, SAS 2020

Table 32: Seed use by crop type and season in 2020 (%)

| Crop | Traditional seeds | | | Improved seeds | | |
|-----------------|-------------------|-------------|-------------|----------------|------------|-------------|
| | Season A | Season B | Season C | Season A | Season B | Season C |
| Maize | 47.3 | 62.2 | | 52.7 | 37.8 | |
| Paddy rice | 27.7 | 38.7 | | 72.4 | 61.3 | |
| Sorghum | 100.0 | 100.0 | | - | - | |
| Wheat | 73.1 | 65.7 | | 26.9 | 34.3 | |
| Other cereal | 100.0 | 100.0 | | - | - | |
| Bush bean | 98.4 | 98.9 | 99.3 | 1.6 | 1.2 | 0.7 |
| Climbing bean | 98.8 | 99.5 | 97.4 | 1.2 | 0.5 | 2.6 |
| Pea | 100.0 | 100.0 | 98.6 | - | - | 1.4 |
| Irish potato | 96.6 | 94.6 | 89.8 | 3.5 | 5.4 | 10.2 |
| Sweet potato | 99.9 | 99.8 | 98.6 | 0.1 | 0.2 | 1.5 |
| Taro & Yams | 100.0 | 99.8 | | - | 0.2 | |
| Soybean | 97.3 | 96.3 | 98.3 | 2.7 | 3.7 | 1.7 |
| Groundnut | 100.0 | 100.0 | 100.0 | - | - | - |
| Cooking banana | 98.8 | 99.4 | | 1.2 | 0.6 | |
| Dessert banana | 97.8 | 97.8 | | 2.2 | 2.2 | |
| Banana for beer | 99.3 | 99.1 | | 0.7 | 0.9 | |
| Cassava | 99.1 | 99.3 | | 0.9 | 0.7 | |
| Vegetables | 58.2 | 45.8 | 43.6 | 41.8 | 54.2 | 56.4 |
| Fruits | 61.4 | 49.2 | 6.7 | 38.6 | 50.8 | 93.3 |
| Fodder | 83.1 | 83.4 | | 16.9 | 16.6 | |
| Other crops | 77.8 | 74.3 | - | 22.2 | 25.7 | 100.0 |
| National | 87.0 | 92.8 | 73.4 | 13.0 | 7.2 | 26.6 |

Source: NISR, SAS 2020

Table 33: Source of improved seeds per district and season in 2020 (%)

| District | Government (MINAGRI/RAB/NAEB) | | | Recognized seed multipliers | | | Agro dealers | | | NGOs/Companies | | | Market | | | Agriculture cooperative | | | Other source | | |
|-----------------|-------------------------------|-------------|------------|-----------------------------|------------|------------|--------------|-------------|-------------|----------------|-------------|------------|------------|------------|-------------|-------------------------|------------|------------|--------------|------------|-------------|
| | SA | SB | SC | SA | SB | SC | SA | SB | SC | SA | SB | SC | SA | SB | SC | SA | SB | SC | SA | SB | SC |
| Nyarugenge | 31.4 | 14.7 | 0.0 | - | 8.8 | 0.0 | 58.8 | 55.9 | 37.5 | - | 0.0 | 0.0 | 7.8 | 20.6 | 56.3 | 2.0 | 0.0 | 6.3 | - | 0.0 | 0 |
| Gasabo | 9.9 | 12.3 | 0.0 | 5.8 | 10.8 | 3.2 | 63.6 | 52.3 | 39.4 | 1.7 | 0.0 | 0.0 | 16.5 | 24.6 | 54.3 | 1.7 | 0.0 | 1.1 | 0.8 | 0.0 | 2.13 |
| Kicukiro | 16.9 | 17.7 | 0.0 | 2.3 | 23.5 | 31.8 | 63.1 | 50.0 | 45.5 | 1.5 | 2.9 | 0.0 | 15.4 | 5.9 | 22.7 | - | 0.0 | 0.0 | 0.8 | 0.0 | 0 |
| Nyanza | 11.5 | 15.1 | 0.0 | 5.8 | 4.0 | 1.4 | 13.6 | 18.3 | 50.0 | 62.3 | 54.8 | 0.0 | 1.6 | 3.2 | 37.1 | 1.6 | 4.0 | 7.1 | 3.7 | 0.8 | 4.29 |
| Gisagara | 9.3 | 12.5 | 1.9 | 1.8 | 17.3 | 9.4 | 15.0 | 22.1 | 52.8 | 57.7 | 31.7 | 1.9 | 7.9 | 2.9 | 22.6 | 7.9 | 13.5 | 7.6 | 0.4 | 0.0 | 3.77 |
| Nyaruguru | 13.5 | 37.3 | 29.2 | 3.7 | 13.7 | 29.2 | 30.1 | 21.6 | 12.5 | 44.2 | 15.7 | 4.2 | 3.7 | 2.0 | 4.2 | 3.7 | 9.8 | 16.7 | 1.2 | 0.0 | 4.17 |
| Huye | 3.4 | 7.4 | 0.0 | 9.5 | 5.6 | 2.4 | 17.7 | 22.2 | 51.2 | 59.9 | 42.6 | 7.3 | 2.7 | 3.7 | 31.7 | 6.8 | 16.7 | 0.0 | - | 1.9 | 7.32 |
| Nyamagabe | 6.3 | 16.2 | 38.1 | 2.7 | 5.9 | 9.5 | 34.2 | 47.1 | 31.0 | 43.2 | 17.7 | 0.0 | 9.9 | 5.9 | 11.9 | 3.6 | 7.4 | 7.1 | - | 0.0 | 2.38 |
| Ruhango | 14.8 | 13.1 | 17.2 | 4.1 | 25.0 | 0.0 | 45.9 | 32.1 | 48.3 | 9.8 | 10.7 | 0.0 | 14.8 | 7.1 | 20.7 | 9.8 | 9.5 | 10.3 | 0.8 | 2.4 | 3.45 |
| Muhanga | 15.2 | 7.1 | 0.0 | 1.0 | 2.4 | 0.0 | 39.4 | 64.3 | 8.8 | 1.0 | 11.9 | 2.9 | 3.0 | 4.8 | 47.1 | 20.2 | 9.5 | 41.2 | 20.2 | 0.0 | 0 |
| Kamonyi | 7.8 | 18.5 | 0.0 | 5.2 | 7.6 | 1.9 | 45.1 | 57.6 | 80.8 | 10.5 | 4.4 | 0.0 | 13.1 | 6.5 | 9.6 | 16.3 | 5.4 | 7.7 | 2.0 | 0.0 | 0 |
| Karongi | 15.5 | 23.6 | 7.1 | 4.3 | 0.0 | 21.4 | 29.4 | 23.6 | 52.4 | 48.7 | 38.2 | 7.1 | 1.1 | 12.7 | 11.9 | 1.1 | 0.0 | 0.0 | - | 1.8 | 0 |
| Rutsiro | 13.3 | 16.7 | 0.0 | 3.3 | 0.0 | 9.7 | 34.4 | 53.3 | 38.7 | 40.0 | 30.0 | 3.2 | 4.4 | 0.0 | 48.4 | 3.3 | 0.0 | 0.0 | 1.1 | 0.0 | 0 |
| Rubavu | 11.8 | 4.3 | 2.2 | 16.5 | 5.4 | 4.4 | 38.8 | 47.3 | 80.0 | 1.2 | 1.1 | 0.0 | 27.1 | 39.8 | 13.3 | 2.4 | 2.2 | 0.0 | 2.4 | 0.0 | 0 |
| Nyabihu | 13.9 | 8.4 | 0.0 | 7.4 | 9.5 | 12.1 | 50.0 | 52.0 | 27.3 | 13.0 | 9.5 | 6.1 | 13.9 | 15.6 | 54.6 | 1.9 | 3.4 | 0.0 | - | 1.7 | 0 |
| Ngororero | 1.8 | 10.9 | 0.0 | 17.1 | 0.8 | 100.0 | 21.2 | 30.3 | 0.0 | 58.8 | 41.2 | 0.0 | 0.6 | 9.2 | 0.0 | - | 7.6 | 0.0 | 0.6 | 0.0 | 0 |
| Rusizi | 16.1 | 47.1 | 0.0 | 2.9 | 19.6 | 0.0 | 17.1 | 13.7 | 0.0 | 61.0 | 13.7 | 0.0 | 1.5 | 0.0 | 50.0 | 0.5 | 0.0 | 0.0 | 1.0 | 5.9 | 50 |
| Nyamasheke | 13.7 | 7.4 | 7.8 | 4.8 | 1.9 | 3.9 | 12.1 | 55.6 | 76.5 | 63.7 | 24.1 | 3.9 | 4.0 | 5.6 | 5.9 | 0.8 | 5.6 | 2.0 | 0.8 | 0.0 | 0 |
| Rulindo | 7.8 | 13.2 | 10.0 | 2.6 | 1.3 | 0.0 | 38.3 | 46.1 | 30.0 | 0.7 | 0.0 | 0.0 | 15.6 | 15.8 | 50.0 | 29.9 | 17.1 | 0.0 | 5.2 | 6.6 | 10 |
| Gakenke | 0.4 | 12.5 | 0.0 | 1.2 | 5.4 | 28.0 | 86.7 | 62.5 | 32.0 | - | 7.1 | 0.0 | 8.2 | 10.7 | 36.0 | 3.5 | 1.8 | 4.0 | - | 0.0 | 0 |
| Musanze | 12.8 | 14.1 | 24.3 | 20.3 | 12.1 | 21.6 | 61.5 | 57.6 | 32.4 | 0.5 | 2.0 | 0.0 | 2.7 | 5.1 | 18.9 | 1.1 | 8.1 | 2.7 | 1.1 | 1.0 | 0 |
| Burera | 16.2 | 6.0 | 47.1 | 0.9 | 16.0 | 17.7 | 75.7 | 68.0 | 17.7 | - | 0.0 | 0.0 | 2.6 | 6.0 | 5.9 | 4.7 | 4.0 | 0.0 | - | 0.0 | 11.76 |
| Gicumbi | 14.2 | 7.4 | 32.1 | 7.1 | 8.8 | 3.6 | 68.1 | 55.9 | 21.4 | - | 2.9 | 0.0 | 7.8 | 22.1 | 28.6 | 2.1 | 2.9 | 3.6 | 0.7 | 0.0 | 10.71 |
| Rwamagana | 7.5 | 4.6 | 0.0 | 8.8 | 15.6 | 1.9 | 35.0 | 44.8 | 78.9 | 39.5 | 24.7 | 1.9 | 3.3 | 10.4 | 15.4 | 4.6 | 0.0 | 0.0 | 1.3 | 0.0 | 1.92 |
| Nyagatare | 27.2 | 12.0 | 2.6 | 9.7 | 10.4 | 0.0 | 40.3 | 47.5 | 69.2 | 7.1 | 16.6 | 0.0 | 2.0 | 3.9 | 18.0 | 12.8 | 8.9 | 0.0 | 1.0 | 0.8 | 10.26 |
| Gatsibo | 12.4 | 16.8 | 2.3 | 2.0 | 7.5 | 13.6 | 27.8 | 19.7 | 65.9 | 53.5 | 52.0 | 2.3 | 0.7 | 1.2 | 2.3 | 3.0 | 2.9 | 0.0 | 0.7 | 0.0 | 13.64 |
| Kayonza | 22.2 | 11.1 | 4.6 | 6.0 | 13.4 | 0.0 | 15.3 | 39.6 | 47.0 | 44.0 | 27.2 | 0.0 | 6.9 | 5.5 | 48.5 | 3.2 | 1.8 | 0.0 | 2.3 | 1.4 | 0 |
| Kirehe | 27.4 | 26.7 | 1.0 | 2.9 | 12.0 | 1.0 | 18.4 | 25.3 | 44.1 | 28.8 | 12.0 | 0.0 | 3.2 | 10.7 | 52.9 | 17.6 | 8.0 | 0.0 | 1.7 | 5.3 | 0.98 |
| Ngoma | 36.3 | 23.7 | 0.0 | 3.6 | 11.9 | 0.0 | 15.9 | 33.9 | 34.1 | 41.4 | 23.7 | 4.6 | 1.3 | 1.7 | 61.4 | 0.8 | 5.1 | 0.0 | 0.8 | 0.0 | 0 |
| Bugesera | 34.8 | 7.3 | 0.0 | 4.0 | 8.9 | 4.7 | 41.7 | 49.6 | 62.8 | 8.6 | 12.3 | 4.7 | 2.3 | 16.9 | 20.9 | 8.1 | 5.0 | 7.0 | 0.6 | 0.0 | 0 |
| National | 16.5 | 13.1 | 5.8 | 5.4 | 9.6 | 6.6 | 36.6 | 41.6 | 48.4 | 28.8 | 20.0 | 1.7 | 5.4 | 9.4 | 31.0 | 6.1 | 5.3 | 3.9 | 1.4 | 0.9 | 2.66 |

Source: NISR, SAS 2020

Table 34: Source of improved seeds by season per crop type in 2020 (%)

| District | Government (MINAGRI/RAB/NAEB) | | | Recognized seed multipliers | | | Agro dealers | | | NGOs/Companies | | | Market | | | Agriculture cooperative | | | Other source | | |
|-----------------|----------------------------------|----------|----------|--------------------------------|----------|----------|--------------|----------|----------|----------------|----------|----------|----------|----------|----------|-------------------------|----------|----------|--------------|----------|----------|
| | 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 | Season A | Season B | Season C |
| Fruits | 31.7 | 8.59 | - | 37.40 | 29.69 | - | 15.10 | 52.34 | 42.86 | 1.40 | 0.78 | - | 10.10 | 7.03 | 57.14 | 3.60 | 1.56 | - | 0.70 | - | - |
| Vegetables | 3.1 | 0.29 | 2.66 | 4.10 | 5.51 | 2.95 | 51.40 | 44.64 | 53.47 | 5.80 | 1.45 | 1.14 | 32.30 | 45.80 | 34.35 | 1.70 | 1.45 | 3.04 | 1.70 | 0.87 | 2.38 |
| Other crops | 42.5 | 42.63 | - | 31.50 | 4.78 | - | 1.40 | 39.04 | 100.00 | 13.70 | 1.59 | - | 2.70 | 1.59 | - | 6.90 | 7.97 | - | 1.40 | 2.39 | - |
| Taro & Yams | | - | | | - | | | 66.67 | | | 33.33 | | | - | | | - | | | - | |
| Fodder crops | | 16.67 | | | 14.29 | | | 54.76 | | | 2.38 | | | 7.14 | | | 4.76 | | | | - |
| Maize | 15.6 | 7.05 | | 2.40 | 4.63 | | 40.10 | 45.73 | | 32.30 | 33.72 | | 4.00 | 5.09 | | 4.80 | 3.39 | | 0.80 | 0.39 | |
| Paddy rice | 0.8 | 1.10 | | 38.60 | 40.66 | | 3.20 | 6.59 | | - | 2.20 | | - | 2.20 | | 57.50 | 47.25 | | - | - | |
| Wheat | 20.6 | 25.45 | | 5.90 | 2.73 | | 67.70 | 57.27 | | 2.90 | 6.36 | | - | 4.55 | | 2.90 | 3.64 | | - | - | |
| Bush bean | 10.9 | 20.34 | - | 9.70 | 6.78 | 11.11 | 22.30 | 20.34 | 11.11 | 49.10 | 30.51 | 33.33 | 4.00 | 5.08 | 33.33 | 3.40 | 13.56 | - | 0.60 | 3.39 | 11.11 |
| Climbing bean | 24.6 | 26.09 | 100. | 16.40 | 13.04 | - | 29.50 | 17.39 | - | 26.20 | 30.43 | - | 3.30 | 4.35 | - | - | 8.70 | - | - | - | - |
| Irish potato | 24.4 | 25.68 | 33.67 | 42.30 | 50.00 | 39.80 | 9.00 | 5.41 | 11.22 | 2.60 | 1.35 | 1.02 | 7.70 | 5.41 | 1.02 | 14.10 | 12.16 | 12.24 | - | - | 1.02 |
| Sweet potato | - | 70.00 | 32.0 | 50.00 | 10.00 | 28.00 | - | 10.00 | - | 25.00 | 10.00 | 16.00 | 12.50 | - | - | - | - | 4.00 | 12.50 | - | 20.00 |
| Soybean | 42.9 | 51.22 | - | 8.60 | 17.07 | - | 28.60 | 17.07 | - | 8.60 | 12.20 | - | 2.90 | - | 33.33 | 8.60 | 2.44 | 66.67 | - | - | - |
| Cooking banana | 26.8 | 14.29 | | 46.30 | 35.71 | | - | 25.00 | | 4.90 | 10.71 | | 4.90 | 7.14 | | 2.40 | 7.14 | | 14.60 | - | |
| Dessert banana | 21.0 | 25.00 | | 40.70 | 22.83 | | 1.20 | 35.87 | | 11.10 | 5.43 | | 4.90 | 2.17 | | 3.70 | 3.26 | | 17.30 | 5.43 | |
| Banana for beer | 31.8 | 27.08 | | 27.30 | 16.67 | | 2.30 | 41.67 | | 2.30 | 4.17 | | - | - | | 2.30 | 2.08 | | 34.10 | 8.33 | |
| Cassava | 53.0 | 45.16 | | 22.70 | 9.68 | | - | 29.03 | | 4.60 | 9.68 | | 7.60 | 3.23 | | 3.00 | 3.23 | | 9.10 | - | |

Source: NISR, SAS 2020

Table 35: Season A 2020_ Use of organic fertilizer by farmer type per district (%)

| District | Percentage of farmers who applied organic fertilizer | | | Percentage of plots in which organic fertilizer was applied | | | Percentage of land size in which organic fertilizer was applied | | |
|-----------------|--|-------------|-------------|---|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 61.3 | 61.3 | | 58.4 | 58.4 | | 63.3 | 63.3 | - |
| Gasabo | 51.2 | 50.8 | 63.6 | 42.0 | 42.0 | 51.0 | 47.3 | 46.3 | 86.0 |
| Kicukiro | 50.2 | 49.3 | 100.0 | 40.8 | 40.7 | 83.3 | 54.4 | 53.8 | 79.0 |
| Nyanza | 54.4 | 54.2 | 62.5 | 47.6 | 47.6 | 76.9 | 51.9 | 51.7 | 63.2 |
| Gisagara | 59.7 | 59.7 | 61.1 | 56.8 | 56.8 | 63.0 | 58.8 | 58.8 | 58.8 |
| Nyaruguru | 85.2 | 84.9 | 100.0 | 79.6 | 79.6 | 100.0 | 82.0 | 81.8 | 100.0 |
| Huye | 63.4 | 62.8 | 75.0 | 61.7 | 61.7 | 68.2 | 60.9 | 60.5 | 69.3 |
| Nyamagabe | 74.0 | 74.0 | 100.0 | 69.3 | 69.3 | 100.0 | 70.5 | 70.5 | 100.0 |
| Ruhango | 55.6 | 55.7 | 50.0 | 53.2 | 53.2 | 52.9 | 55.1 | 54.8 | 64.6 |
| Muhanga | 80.5 | 80.1 | 100.0 | 74.9 | 74.9 | 88.9 | 74.4 | 74.2 | 86.1 |
| Kamonyi | 65.8 | 65.1 | 91.7 | 63.2 | 63.2 | 83.3 | 61.4 | 60.6 | 97.9 |
| Karongi | 67.2 | 67.1 | 100.0 | 61.5 | 61.5 | 100.0 | 64.9 | 64.9 | 100.0 |
| Rutsiro | 69.7 | 69.7 | | 64.9 | 64.9 | | 67.8 | 67.8 | - |
| Rubavu | 35.7 | 35.3 | 75.0 | 35.5 | 35.5 | 40.0 | 32.5 | 32.5 | 82.0 |
| Nyabihu | 71.0 | 71.0 | | 67.4 | 67.4 | | 68.8 | 68.8 | - |
| Ngororero | 85.2 | 85.2 | | 80.1 | 80.1 | | 83.7 | 83.7 | - |
| Rusizi | 69.2 | 69.8 | 33.3 | 65.5 | 65.5 | 45.5 | 62.9 | 66.3 | 2.6 |
| Nyamashyamba | 73.8 | 73.3 | 100.0 | 70.8 | 70.8 | 80.0 | 72.8 | 72.5 | 98.8 |
| Rulindo | 83.1 | 83.1 | 83.3 | 77.5 | 77.5 | 50.0 | 81.5 | 81.6 | 53.7 |
| Gakenke | 90.9 | 90.9 | | 89.0 | 89.0 | | 89.4 | 89.4 | - |
| Musanze | 64.4 | 64.4 | | 61.6 | 61.6 | | 63.9 | 63.9 | - |
| Burera | 75.8 | 75.8 | | 70.2 | 70.2 | | 73.8 | 73.8 | - |
| Gicumbi | 80.8 | 80.7 | 100.0 | 74.6 | 74.6 | 75.0 | 78.7 | 78.7 | 77.0 |
| Rwamagana | 62.3 | 61.4 | 79.3 | 52.7 | 52.7 | 48.0 | 59.3 | 59.7 | 39.7 |
| Nyagatare | 38.7 | 37.0 | 59.1 | 32.8 | 32.8 | 50.9 | 33.3 | 34.3 | 14.6 |
| Gatsibo | 59.5 | 59.1 | 72.2 | 52.2 | 52.2 | 53.9 | 56.2 | 57.4 | 24.4 |
| Kayanza | 37.4 | 36.8 | 53.3 | 28.4 | 28.4 | 30.0 | 34.8 | 35.2 | 12.2 |
| Kirehe | 55.8 | 55.4 | 80.0 | 50.4 | 50.4 | 69.6 | 57.2 | 56.3 | 76.5 |
| Ngoma | 59.3 | 59.3 | 58.3 | 51.8 | 51.8 | 59.4 | 58.3 | 58.4 | 54.4 |
| Bugesera | 33.3 | 31.8 | 55.3 | 34.0 | 34.0 | 44.1 | 30.2 | 29.2 | 51.9 |
| National | 63.6 | 63.5 | 68.8 | 61.9 | 61.9 | 52.0 | 59.9 | 60.2 | 48.5 |

Source: NISR, SAS 2020

Table 36: Season B 2020_ Use of organic fertilizer by farmer type per district (%)

| District | Percentage of farmers who applied organic fertilizer | | | Percentage of plots in which organic fertilizer was applied | | | Percentage of land size in which organic fertilizer was applied | | |
|-----------------|--|-------------|-------------|---|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 50.7 | 50.7 | | 53.0 | 53.0 | | 51.9 | 51.9 | |
| Gasabo | 41.4 | 40.8 | 60.0 | 33.5 | 33.5 | 38.9 | 36.7 | 36.1 | 65.6 |
| Kicukiro | 23.2 | 22.3 | 75.0 | 15.9 | 15.9 | 60.0 | 26.7 | 26.3 | 77.0 |
| Nyanza | 43.4 | 43.1 | 71.4 | 43.2 | 43.2 | 83.3 | 43.1 | 42.6 | 69.0 |
| Gisagara | 39.9 | 40.2 | 28.6 | 35.6 | 35.6 | 23.8 | 36.8 | 37.7 | 25.5 |
| Nyaruguru | 74.1 | 73.4 | 100.0 | 68.3 | 68.3 | 92.9 | 70.3 | 70.0 | 99.4 |
| Huye | 47.0 | 46.4 | 60.0 | 45.6 | 45.6 | 54.5 | 46.0 | 45.6 | 56.0 |
| Nyamagabe | 71.8 | 71.8 | | 69.7 | 69.7 | | 70.9 | 70.9 | |
| Ruhango | 51.4 | 51.3 | 54.5 | 49.6 | 49.6 | 42.9 | 47.2 | 46.7 | 75.6 |
| Muhanga | 66.8 | 66.6 | 100.0 | 58.2 | 58.2 | 100.0 | 64.8 | 64.6 | 100.0 |
| Kamonyi | 51.0 | 50.6 | 100.0 | 48.7 | 48.7 | 77.8 | 48.6 | 48.3 | 99.4 |
| Karongi | 59.6 | 59.5 | 100.0 | 55.6 | 55.6 | 100.0 | 59.2 | 59.1 | 100.0 |
| Rutsiro | 67.0 | 67.0 | | 58.5 | 58.5 | | 64.9 | 64.9 | |
| Rubavu | 37.6 | 37.5 | 50.0 | 35.3 | 35.3 | 50.0 | 36.3 | 36.2 | 65.3 |
| Nyabihu | 58.6 | 58.6 | | 56.6 | 56.6 | | 58.2 | 58.2 | |
| Ngororero | 79.9 | 79.9 | | 76.0 | 76.0 | | 76.4 | 76.4 | |
| Rusizi | 50.0 | 49.4 | 66.7 | 50.7 | 50.7 | 54.5 | 46.3 | 48.4 | 23.5 |
| Nyamasheke | 75.9 | 75.7 | 87.5 | 73.4 | 73.4 | 80.0 | 71.9 | 71.6 | 89.7 |
| Rulindo | 74.8 | 74.9 | 66.7 | 70.6 | 70.6 | 31.6 | 73.4 | 73.5 | 28.0 |
| Gakenke | 79.0 | 79.0 | | 79.1 | 79.1 | | 76.6 | 76.6 | |
| Musanze | 58.3 | 58.3 | | 55.2 | 55.2 | | 58.3 | 58.3 | |
| Burera | 63.3 | 63.3 | | 56.7 | 56.7 | | 61.6 | 61.6 | |
| Gicumbi | 80.7 | 80.6 | 100.0 | 79.0 | 79.0 | 50.0 | 81.3 | 81.4 | 21.3 |
| Rwamagana | 38.6 | 37.7 | 55.6 | 36.4 | 36.4 | 34.6 | 37.2 | 37.5 | 21.9 |
| Nyagatare | 28.8 | 28.1 | 39.0 | 27.2 | 27.2 | 37.7 | 24.0 | 24.8 | 6.8 |
| Gatsibo | 45.6 | 45.3 | 58.8 | 39.1 | 39.1 | 28.6 | 42.9 | 41.9 | 69.3 |
| Kayonza | 27.3 | 26.9 | 40.0 | 28.0 | 28.0 | 11.1 | 24.8 | 25.4 | 1.7 |
| Kirehe | 27.6 | 27.1 | 66.7 | 24.4 | 24.4 | 81.1 | 29.3 | 26.7 | 91.7 |
| Ngoma | 27.9 | 27.6 | 45.5 | 24.9 | 24.9 | 45.8 | 30.0 | 29.5 | 51.5 |
| Bugesera | 30.1 | 28.9 | 52.9 | 28.9 | 28.9 | 44.8 | 30.5 | 29.8 | 53.0 |
| National | 51.7 | 51.6 | 56.4 | 52.4 | 52.4 | 40.2 | 48.7 | 48.8 | 46.0 |

Source: NISR, SAS 2020

Table 37: Season C 2020_ Use of organic fertilizer per district (%)

| District | Percentage of farmers who applied organic fertilizer | | | Percentage of plots in which organic fertilizer was applied | | | Percentage of land size in which organic fertilizer was applied | | |
|-----------------|--|-------------|-------------|---|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE |
| Nyarugenge | 54.0 | 16.7 | 76.9 | 13.0 | 12.5 | 75.0 | 24.1 | 23.9 | 66.0 |
| Gasabo | 85.6 | 84.6 | 85.9 | 84.0 | 84.0 | 83.5 | 93.4 | 93.5 | 88.8 |
| Kicukiro | 58.8 | 41.7 | 62.5 | 41.3 | 40.7 | 62.5 | 37.9 | 35.7 | 76.2 |
| Nyanza | 75.5 | 85.7 | 73.0 | 93.7 | 93.8 | 72.3 | 88.5 | 88.5 | 86.8 |
| Gisagara | 78.6 | 44.4 | 87.5 | 32.7 | 32.4 | 87.4 | 27.6 | 26.8 | 90.5 |
| Nyaruguru | 90.0 | 90.7 | 89.7 | 94.0 | 94.1 | 89.8 | 93.5 | 93.5 | 93.3 |
| Huye | 81.9 | 90.6 | 80.0 | 86.6 | 86.6 | 79.3 | 85.2 | 85.3 | 78.6 |
| Nyamagabe | 90.6 | 73.3 | 98.5 | 70.5 | 70.4 | 98.6 | 75.4 | 75.2 | 99.4 |
| Ruhango | 84.2 | 78.1 | 87.0 | 81.8 | 81.8 | 86.1 | 76.5 | 76.8 | 58.5 |
| Muhanga | 83.7 | 61.9 | 89.6 | 37.9 | 37.6 | 90.6 | 64.3 | 63.8 | 94.3 |
| Kamonyi | 84.4 | 60.7 | 94.1 | 34.6 | 34.5 | 94.4 | 46.3 | 45.7 | 95.5 |
| Karongi | 76.2 | 64.3 | 78.6 | 63.5 | 63.3 | 80.0 | 58.0 | 57.4 | 83.6 |
| Rutsiro | 82.1 | 77.8 | 82.4 | 82.9 | 82.9 | 82.9 | 75.1 | 73.1 | 81.3 |
| Rubavu | 42.2 | 30.0 | 60.6 | 25.1 | 25.1 | 55.0 | 33.7 | 33.7 | 45.1 |
| Nyabihu | 72.2 | 69.3 | 75.7 | 72.4 | 72.4 | 74.7 | 67.5 | 67.5 | 64.5 |
| Ngororero | 69.7 | 77.8 | 66.7 | 90.7 | 90.9 | 68.0 | 82.6 | 82.4 | 90.0 |
| Rusizi | 66.7 | 66.7 | | 76.0 | 76.0 | | 66.7 | 66.7 | |
| Nyamasheke | 95.0 | 94.7 | 95.1 | 94.7 | 94.7 | 95.2 | 95.7 | 96.0 | 70.9 |
| Rulindo | 86.4 | 77.5 | 100.0 | 77.1 | 77.1 | 100.0 | 78.2 | 78.2 | 100.0 |
| Gakenke | 78.1 | 69.4 | 80.9 | 58.1 | 57.9 | 80.4 | 65.3 | 65.2 | 72.4 |
| Musanze | 89.8 | 78.9 | 96.0 | 81.1 | 81.1 | 93.5 | 85.4 | 85.4 | 90.4 |
| Burera | 82.9 | 75.0 | 89.5 | 61.8 | 61.7 | 89.8 | 66.7 | 66.6 | 89.6 |
| Gicumbi | 81.7 | 82.6 | 81.5 | 95.2 | 95.2 | 81.6 | 81.1 | 81.0 | 81.9 |
| Rwamagana | 47.2 | 20.0 | 54.1 | 17.6 | 16.9 | 53.5 | 13.4 | 11.5 | - |
| Nyagatare | 50.0 | 60.9 | 45.1 | 56.5 | 56.6 | 44.2 | 55.2 | 55.5 | 49.5 |
| Gatsibo | 70.1 | 73.3 | 69.2 | 54.3 | 54.1 | 71.7 | 75.0 | 74.7 | 88.3 |
| Kayonza | 83.8 | 70.6 | 88.2 | 66.5 | 66.4 | 86.0 | 66.3 | 66.3 | 66.4 |
| Kirehe | 68.5 | 91.7 | 66.1 | 86.1 | 87.6 | 63.9 | 85.5 | 94.8 | 69.3 |
| Ngoma | 56.3 | 73.3 | 52.8 | 73.0 | 73.4 | 55.3 | 79.3 | 78.9 | 81.2 |
| Bugesera | 61.4 | 42.9 | 65.2 | 46.5 | 46.3 | 64.8 | 41.5 | 40.3 | 61.0 |
| National | 76.1 | 68.3 | 79.1 | 67.0 | 66.9 | 78.7 | 66.1 | 66.0 | 74.8 |

Source: NISR, SAS 2020

Table 38: Season A2020 Use of inorganic fertilizer by farmer type per district (%)

| District | Percentage of farmers who used inorganic fertilizers | | | Percentage of plots in which inorganic fertilizer was applied | | | Percentage of land under which inorganic fertilizer was applied | | |
|-----------------|--|-------------|-------------|---|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 9.3 | 9.3 | | 6.9 | 6.9 | | 8.5 | 8.5 | - |
| Gasabo | 19.6 | 17.8 | 72.7 | 16.9 | 16.9 | 24.5 | 19.3 | 17.8 | 72.6 |
| Kicukiro | 36.1 | 35.3 | 75.0 | 21.0 | 21.0 | 66.7 | 33.0 | 31.8 | 87.1 |
| Nyanza | 17.8 | 16.7 | 87.5 | 15.8 | 15.8 | 61.5 | 17.5 | 15.7 | 96.2 |
| Gisagara | 30.3 | 27.4 | 100.0 | 25.0 | 25.0 | 81.5 | 32.1 | 23.1 | 99.9 |
| Nyaruguru | 59.3 | 58.3 | 100.0 | 50.3 | 50.3 | 76.9 | 55.3 | 54.9 | 98.6 |
| Huye | 23.5 | 19.1 | 100.0 | 15.2 | 15.2 | 84.1 | 20.8 | 17.1 | 98.9 |
| Nyamagabe | 39.7 | 39.5 | 100.0 | 31.2 | 31.2 | 100.0 | 36.8 | 36.7 | 100.0 |
| Ruhango | 12.2 | 11.1 | 87.5 | 10.1 | 10.1 | 41.2 | 12.0 | 9.8 | 90.2 |
| Muhanga | 12.4 | 10.7 | 100.0 | 9.9 | 9.9 | 100.0 | 10.3 | 8.8 | 100.0 |
| Kamonyi | 13.2 | 11.3 | 91.7 | 13.0 | 13.0 | 77.8 | 11.9 | 10.0 | 97.8 |
| Karongi | 33.7 | 33.6 | 100.0 | 26.5 | 26.5 | 100.0 | 32.3 | 32.2 | 100.0 |
| Rutsiro | 37.7 | 37.7 | | 28.7 | 28.7 | | 34.6 | 34.6 | - |
| Rubavu | 46.8 | 46.8 | 50.0 | 38.0 | 38.0 | 30.0 | 46.8 | 46.7 | 48.2 |
| Nyabihu | 60.7 | 60.7 | | 47.6 | 47.6 | | 59.9 | 59.9 | - |
| Ngororero | 44.2 | 44.2 | | 37.4 | 37.4 | | 43.0 | 43.0 | - |
| Rusizi | 55.1 | 54.4 | 88.9 | 43.6 | 43.6 | 90.9 | 53.5 | 51.4 | 90.8 |
| Nyamasheke | 51.2 | 50.3 | 100.0 | 49.0 | 49.0 | 80.0 | 49.5 | 48.9 | 98.8 |
| Rulindo | 28.7 | 28.2 | 66.7 | 22.0 | 22.0 | 45.0 | 27.5 | 27.4 | 76.0 |
| Gakenke | 52.7 | 52.7 | | 48.8 | 48.8 | | 48.6 | 48.6 | - |
| Musanze | 41.2 | 41.2 | | 35.8 | 35.8 | | 42.0 | 42.0 | - |
| Burera | 38.8 | 38.8 | | 32.3 | 32.3 | | 36.7 | 36.7 | - |
| Gicumbi | 28.5 | 28.4 | 50.0 | 23.8 | 23.8 | 75.0 | 26.9 | 26.9 | 90.2 |
| Rwamagana | 34.9 | 32.6 | 75.9 | 22.9 | 22.9 | 33.8 | 32.2 | 31.4 | 72.8 |
| Nyagatare | 31.4 | 27.4 | 79.6 | 19.0 | 19.0 | 49.1 | 29.6 | 27.5 | 70.6 |
| Gatsibo | 30.6 | 28.8 | 94.4 | 19.4 | 19.4 | 50.0 | 31.4 | 28.9 | 98.4 |
| Kayonza | 21.6 | 19.8 | 73.3 | 15.2 | 15.2 | 21.7 | 20.1 | 18.9 | 82.7 |
| Kirehe | 34.5 | 33.6 | 90.0 | 28.5 | 28.5 | 95.7 | 33.4 | 30.5 | 98.4 |
| Ngoma | 38.8 | 37.8 | 91.7 | 30.0 | 30.0 | 53.1 | 37.1 | 35.9 | 94.1 |
| Bugesera | 24.5 | 21.6 | 68.4 | 19.5 | 19.5 | 50.7 | 22.9 | 20.2 | 84.7 |
| National | 33.8 | 32.7 | 83.9 | 28.0 | 28.0 | 48.7 | 32.1 | 30.7 | 90.4 |

Source: NISR, SAS 2020

Table 39: Season B2020_ Use of inorganic fertilizer by farmer type per district (%)

| District | Percentage of farmers who used inorganic fertilizers | | | Percentage of plots in which inorganic fertilizer was applied | | | Percentage of land under which inorganic fertilizer was applied | | |
|-----------------|--|-------------|-------------|---|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 11.4 | 11.4 | | 12.2 | 12.2 | | 11.1 | 11.1 | |
| Gasabo | 14.6 | 13.2 | 60.0 | 11.4 | 11.4 | 27.8 | 13.2 | 12.0 | 69.6 |
| Kicukiro | 20.1 | 19.1 | 75.0 | 9.8 | 9.8 | 30.0 | 15.7 | 15.3 | 63.3 |
| Nyanza | 15.4 | 14.3 | 100.0 | 11.7 | 11.7 | 75.0 | 14.0 | 12.5 | 97.9 |
| Gisagara | 22.2 | 20.0 | 92.9 | 17.3 | 17.3 | 71.4 | 22.7 | 16.7 | 96.9 |
| Nyaruguru | 47.5 | 46.5 | 87.5 | 39.1 | 39.1 | 78.6 | 43.1 | 42.7 | 91.6 |
| Huye | 17.7 | 13.8 | 100.0 | 12.2 | 12.2 | 90.9 | 16.3 | 13.0 | 99.2 |
| Nyamagabe | 38.3 | 38.3 | | 27.6 | 27.6 | | 36.4 | 36.4 | |
| Ruhango | 11.5 | 10.0 | 90.9 | 8.2 | 8.2 | 47.6 | 8.9 | 7.4 | 99.1 |
| Muhanga | 13.7 | 13.0 | 100.0 | 10.4 | 10.4 | 100.0 | 11.8 | 11.4 | 100.0 |
| Kamonyi | 9.9 | 9.1 | 100.0 | 5.9 | 5.9 | 66.7 | 8.7 | 8.1 | 94.3 |
| Karongi | 24.1 | 24.0 | 100.0 | 17.7 | 17.7 | 50.0 | 22.7 | 22.6 | 93.4 |
| Rutsiro | 34.6 | 34.6 | | 26.2 | 26.2 | | 34.1 | 34.1 | |
| Rubavu | 47.1 | 47.0 | 50.0 | 36.3 | 36.3 | 37.5 | 47.7 | 47.7 | 52.5 |
| Nyabihu | 60.0 | 60.0 | | 51.1 | 51.1 | | 62.0 | 62.0 | |
| Ngororero | 37.9 | 37.9 | | 37.7 | 37.7 | | 36.0 | 36.0 | |
| Rusizi | 37.7 | 35.9 | 88.9 | 28.4 | 28.4 | 72.7 | 36.8 | 32.0 | 88.5 |
| Nyamasheke | 42.7 | 41.8 | 87.5 | 38.5 | 38.5 | 70.0 | 40.2 | 39.5 | 90.9 |
| Rulindo | 24.9 | 24.1 | 83.3 | 19.9 | 19.9 | 57.9 | 24.1 | 24.0 | 57.3 |
| Gakenke | 35.6 | 35.6 | | 33.0 | 33.0 | | 33.2 | 33.2 | |
| Musanze | 42.4 | 42.4 | | 34.8 | 34.8 | | 43.4 | 43.4 | |
| Burera | 20.8 | 20.8 | | 18.9 | 18.9 | | 21.9 | 21.9 | |
| Gicumbi | 20.0 | 19.7 | 100.0 | 16.3 | 16.3 | 75.0 | 20.7 | 20.6 | 93.6 |
| Rwamagana | 22.5 | 20.8 | 55.6 | 15.0 | 15.0 | 24.6 | 21.0 | 20.2 | 69.1 |
| Nyagatare | 30.1 | 28.1 | 56.1 | 21.8 | 21.8 | 39.6 | 25.3 | 23.7 | 62.8 |
| Gatsibo | 25.2 | 24.0 | 70.6 | 16.1 | 16.1 | 41.1 | 23.5 | 21.3 | 84.1 |
| Kayonza | 20.4 | 18.3 | 80.0 | 14.6 | 14.6 | 23.1 | 19.0 | 17.3 | 85.7 |
| Kirehe | 17.1 | 16.3 | 77.8 | 12.3 | 12.3 | 78.4 | 18.3 | 15.2 | 93.6 |
| Ngoma | 13.4 | 12.3 | 72.7 | 7.7 | 7.7 | 58.3 | 15.4 | 13.8 | 93.3 |
| Bugesera | 21.2 | 19.2 | 55.9 | 16.4 | 16.4 | 28.8 | 18.2 | 16.1 | 78.2 |
| National | 25.8 | 24.9 | 73.3 | 20.7 | 20.7 | 40.7 | 24.0 | 22.8 | 85.1 |

Source: NISR, SAS 2020

Table 40: Season C 2020_ Use of inorganic fertilizer per district (%)

| District | Percentage of farmers who used inorganic fertilizers | | | Percentage of plots in which inorganic fertilizer was applied | | | Percentage of land under which inorganic fertilizer was applied | | |
|-----------------|--|-------------|-------------|---|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE |
| Nyarugenge | 68.3 | 45.8 | 82.1 | 28.7 | 28.3 | 72.9 | 49.9 | 49.8 | 67.0 |
| Gasabo | 86.4 | 69.2 | 91.3 | 37.3 | 36.9 | 89.7 | 71.8 | 71.1 | 95.1 |
| Kicukiro | 83.8 | 83.3 | 83.9 | 89.4 | 89.5 | 83.9 | 86.5 | 86.4 | 88.0 |
| Nyanza | 57.3 | 25.0 | 65.2 | 19.2 | 18.8 | 64.7 | 31.8 | 30.5 | 85.1 |
| Gisagara | 71.0 | 33.3 | 80.8 | 34.0 | 33.8 | 80.2 | 21.5 | 20.7 | 87.5 |
| Nyaruguru | 60.7 | 46.5 | 67.0 | 51.4 | 51.4 | 66.3 | 51.3 | 51.1 | 80.9 |
| Huye | 57.6 | 50.0 | 59.3 | 38.8 | 38.6 | 58.7 | 47.7 | 47.4 | 66.5 |
| Nyamagabe | 58.3 | 30.0 | 71.2 | 21.4 | 21.2 | 71.4 | 31.1 | 30.7 | 81.1 |
| Ruhango | 38.6 | 25.0 | 44.9 | 30.2 | 30.1 | 45.8 | 27.6 | 27.0 | 81.1 |
| Muhanga | 57.1 | 23.8 | 66.2 | 16.2 | 15.9 | 67.1 | 28.9 | 28.2 | 72.0 |
| Kamonyi | 72.9 | 25.0 | 92.6 | 25.9 | 25.7 | 93.0 | 20.6 | 19.8 | 94.6 |
| Karongi | 45.2 | 21.4 | 50.0 | 26.4 | 26.1 | 48.0 | 22.6 | 21.9 | 56.8 |
| Rutsiro | 64.1 | 44.4 | 65.7 | 25.8 | 23.7 | 64.9 | 45.2 | 34.5 | 78.2 |
| Rubavu | 71.1 | 62.0 | 84.8 | 61.8 | 61.8 | 82.5 | 75.1 | 75.0 | 80.1 |
| Nyabihu | 80.4 | 70.5 | 92.9 | 72.9 | 72.8 | 93.3 | 69.7 | 69.6 | 97.7 |
| Ngororero | 18.2 | 11.1 | 20.8 | 1.1 | 1.0 | 24.0 | 35.1 | 34.4 | 72.0 |
| Rusizi | 100.0 | 100.0 | | 100.0 | 100.0 | | 100.0 | 100.0 | |
| Nyamasheke | 71.3 | 57.9 | 75.4 | 42.1 | 41.9 | 74.2 | 62.1 | 61.7 | 87.9 |
| Rulindo | 60.6 | 57.5 | 65.4 | 56.7 | 56.7 | 63.0 | 61.0 | 60.9 | 85.4 |
| Gakenke | 60.3 | 50.0 | 63.6 | 31.8 | 31.6 | 63.4 | 47.3 | 47.3 | 49.8 |
| Musanze | 82.2 | 68.4 | 90.0 | 80.3 | 80.3 | 89.8 | 84.9 | 84.8 | 97.6 |
| Burera | 71.0 | 67.7 | 73.7 | 70.1 | 70.1 | 74.6 | 77.5 | 77.5 | 82.7 |
| Gicumbi | 73.1 | 43.5 | 81.5 | 59.6 | 59.5 | 82.8 | 46.7 | 42.5 | 94.5 |
| Rwamagana | 82.9 | 68.0 | 86.7 | 61.2 | 60.7 | 86.9 | 67.1 | 66.5 | 83.5 |
| Nyagatare | 63.5 | 73.9 | 58.8 | 73.2 | 73.3 | 57.7 | 77.7 | 77.2 | 87.6 |
| Gatsibo | 43.3 | 60.0 | 38.5 | 35.8 | 35.8 | 36.7 | 68.0 | 67.9 | 74.0 |
| Kayonza | 94.1 | 82.4 | 98.0 | 60.4 | 60.1 | 96.5 | 85.3 | 84.4 | 98.5 |
| Kirehe | 79.0 | 58.3 | 81.3 | 68.3 | 67.5 | 80.7 | 74.1 | 61.8 | 95.6 |
| Ngoma | 58.6 | 60.0 | 58.3 | 62.8 | 62.9 | 57.9 | 66.6 | 62.3 | 93.0 |
| Bugesera | 81.9 | 57.1 | 87.0 | 53.1 | 52.7 | 87.3 | 53.8 | 51.3 | 94.0 |
| National | 67.5 | 54.3 | 72.6 | 50.9 | 50.8 | 72.2 | 64.4 | 64.0 | 87.8 |

Source: NISR, SAS 2020

Table 41. Level of fertilizer use per districts and farmer types (percentages)

| District | Season A | | | | Season B | | | | Season C | | | |
|-----------------|--------------|----------------|-------------|--------------------|--------------|----------------|-------------|--------------------|--------------|----------------|-------------|--------------------|
| | Organic only | Inorganic only | Both | Use of fertilizers | Organic only | Inorganic only | Both | Use of fertilizers | Organic only | Inorganic only | Both | Use of fertilizers |
| Nyarugenge | 52.0 | 1.5 | 7.8 | 61.3 | 37.9 | 1.4 | 10.0 | 49.3 | 1.6 | 15.9 | 52.4 | 69.8 |
| Gasabo | 34.2 | 6.1 | 13.5 | 53.8 | 27.4 | 3.8 | 10.8 | 42.0 | 5.1 | 5.9 | 80.5 | 91.5 |
| Kicukiro | 28.3 | 14.6 | 21.5 | 64.4 | 17.9 | 15.2 | 4.9 | 38.0 | 2.9 | 27.9 | 55.9 | 86.8 |
| Nyanza | 36.4 | 2.3 | 15.5 | 54.2 | 29.1 | 3.4 | 12.0 | 44.6 | 23.1 | 4.9 | 52.5 | 80.4 |
| Gisagara | 32.5 | 6.0 | 24.3 | 62.8 | 25.1 | 9.7 | 12.5 | 47.3 | 10.7 | 3.1 | 67.9 | 81.7 |
| Nyaruguru | 27.4 | 1.8 | 57.5 | 86.8 | 28.1 | 3.7 | 43.8 | 75.6 | 30.0 | 0.7 | 60.0 | 90.7 |
| Huye | 40.6 | 3.4 | 20.1 | 64.1 | 33.8 | 6.7 | 11.0 | 51.5 | 27.7 | 4.5 | 53.1 | 85.3 |
| Nyamagabe | 33.0 | 1.2 | 38.5 | 72.6 | 37.9 | 5.5 | 32.8 | 76.2 | 32.3 | - | 58.3 | 90.6 |
| Ruhango | 43.6 | 2.7 | 9.6 | 55.8 | 40.0 | 4.0 | 7.5 | 51.6 | 51.5 | 6.9 | 31.7 | 90.1 |
| Muhanga | 64.2 | - | 12.4 | 76.6 | 50.5 | 0.7 | 12.9 | 64.2 | 27.6 | 1.0 | 56.1 | 84.7 |
| Kamonyi | 49.8 | 0.8 | 12.4 | 63.0 | 39.2 | 1.7 | 8.3 | 49.2 | 15.6 | 4.2 | 68.8 | 88.5 |
| Karongi | 35.1 | 3.0 | 30.7 | 68.8 | 36.0 | 3.9 | 20.2 | 60.1 | 31.0 | - | 45.2 | 76.2 |
| Rutsiro | 35.6 | 4.9 | 32.8 | 73.3 | 33.5 | 3.3 | 31.3 | 68.1 | 24.8 | 6.8 | 57.3 | 88.9 |
| Rubavu | 15.7 | 28.4 | 18.5 | 62.5 | 13.3 | 23.3 | 23.8 | 60.4 | 8.4 | 38.6 | 32.5 | 79.5 |
| Nyabihu | 23.7 | 14.4 | 46.3 | 84.4 | 15.0 | 17.2 | 42.8 | 75.0 | 10.8 | 19.0 | 61.4 | 91.1 |
| Ngororero | 41.2 | 0.8 | 43.4 | 85.4 | 41.5 | 1.6 | 36.4 | 79.5 | 54.6 | 3.0 | 15.2 | 72.7 |
| Rusizi | 22.4 | 9.3 | 45.8 | 77.4 | 19.0 | 8.6 | 29.1 | 56.7 | - | 33.3 | 66.7 | 100.0 |
| Nyamasheke | 23.9 | 1.4 | 49.9 | 75.2 | 34.1 | 2.6 | 40.1 | 76.8 | 26.3 | 2.5 | 68.8 | 97.5 |
| Rulindo | 53.9 | 1.7 | 27.1 | 82.7 | 50.6 | 2.7 | 22.2 | 75.6 | 25.8 | - | 60.6 | 86.4 |
| Gakenke | 38.7 | 0.8 | 51.8 | 91.4 | 43.3 | 1.0 | 34.6 | 78.9 | 18.5 | 0.7 | 59.6 | 78.8 |
| Musanze | 30.0 | 7.2 | 34.0 | 71.2 | 23.0 | 8.9 | 33.5 | 65.4 | 14.0 | 7.0 | 75.2 | 96.2 |
| Burera | 40.5 | 4.9 | 34.0 | 79.4 | 46.3 | 4.4 | 16.4 | 67.1 | 21.0 | 10.0 | 61.0 | 91.9 |
| Gicumbi | 53.2 | 2.4 | 26.1 | 81.7 | 60.4 | 1.1 | 19.0 | 80.4 | 22.1 | 13.5 | 59.6 | 95.2 |
| Rwamagana | 31.0 | 5.9 | 28.9 | 65.9 | 22.0 | 7.9 | 14.6 | 44.5 | 1.6 | 37.4 | 45.5 | 84.6 |
| Nyagatare | 21.6 | 16.9 | 14.5 | 53.0 | 17.1 | 20.6 | 9.4 | 47.2 | 4.1 | 18.9 | 44.6 | 67.6 |
| Gatsibo | 31.6 | 4.9 | 25.8 | 62.2 | 26.9 | 8.1 | 17.1 | 52.1 | 28.4 | 3.0 | 40.3 | 71.6 |
| Kayonza | 23.0 | 9.7 | 11.9 | 44.6 | 16.6 | 11.9 | 8.5 | 36.9 | 4.4 | 16.2 | 77.9 | 98.5 |
| Kirehe | 28.1 | 7.8 | 26.7 | 62.5 | 18.1 | 9.0 | 8.2 | 35.2 | 4.8 | 15.3 | 63.7 | 83.9 |
| Ngoma | 27.2 | 8.2 | 30.6 | 66.0 | 19.7 | 6.2 | 7.2 | 33.1 | 9.2 | 11.5 | 47.1 | 67.8 |
| Bugesera | 20.7 | 14.1 | 10.4 | 45.2 | 19.2 | 11.8 | 9.4 | 40.4 | 1.2 | 21.7 | 60.2 | 83.1 |
| National | 34.2 | 6.2 | 27.6 | 68.1 | 30.9 | 7.0 | 18.8 | 56.7 | 18.2 | 10.0 | 57.5 | 85.7 |
| SSF | 35.0 | 5.7 | 27.1 | 67.7 | 31.4 | 6.5 | 18.4 | 56.3 | 25.0 | 11.1 | 43.2 | 79.3 |
| LSF/SITE | 5.7 | 28.5 | 55.4 | 89.6 | 8.7 | 32.0 | 41.4 | 82.0 | 15.7 | 9.4 | 63.3 | 88.3 |

Source: NISR, SAS 2020

Table 42: Percentage of farmers by source of inorganic fertilizers per district in Season A 2020

| District | Government (MINAGRI/RAB/NAEB) | Agro dealers | NGOs/Companies | Market | Agriculture cooperative | Other source | Total |
|-----------------|-------------------------------|--------------|----------------|------------|-------------------------|--------------|--------------|
| Nyarugenge | 10.5 | 73.7 | - | 5.3 | 5.3 | 5.3 | 100.0 |
| Gasabo | 4.5 | 76.1 | 1.5 | 11.9 | 1.5 | 4.5 | 100.0 |
| Kicukiro | 1.4 | 81.1 | - | 17.6 | - | - | 100.0 |
| Nyanza | 3.3 | 16.3 | 73.9 | 1.1 | 3.3 | 2.2 | 100.0 |
| Gisagara | 6.6 | 16.8 | 68.6 | 5.1 | 2.2 | 0.7 | 100.0 |
| Nyaruguru | 6.1 | 33.0 | 53.8 | 4.6 | 2.0 | 0.5 | 100.0 |
| Huye | 3.8 | 33.3 | 60.0 | 1.0 | 1.0 | 1.0 | 100.0 |
| Nyamagabe | 2.3 | 45.0 | 42.1 | 6.4 | 3.5 | 0.6 | 100.0 |
| Ruhango | 17.2 | 54.7 | 10.9 | 10.9 | 6.3 | - | 100.0 |
| Muhanga | 5.9 | 66.7 | 5.9 | 9.8 | 9.8 | 2.0 | 100.0 |
| Kamonyi | 6.0 | 61.2 | 14.9 | 10.5 | 6.0 | 1.5 | 100.0 |
| Karongi | 3.4 | 31.8 | 58.8 | 4.7 | 1.4 | - | 100.0 |
| Rutsiro | 12.2 | 49.3 | 31.8 | 6.1 | - | 0.7 | 100.0 |
| Rubavu | 3.8 | 86.0 | 0.5 | 5.4 | 3.8 | 0.5 | 100.0 |
| Nyabihu | 3.6 | 84.7 | 10.0 | 1.2 | 0.4 | - | 100.0 |
| Ngororero | 0.9 | 29.5 | 64.7 | 4.9 | - | - | 100.0 |
| Rusizi | 7.9 | 24.7 | 59.9 | 6.0 | - | 1.5 | 100.0 |
| Nyamasheke | 2.6 | 7.5 | 84.1 | 5.3 | 0.4 | - | 100.0 |
| Rulindo | 5.0 | 48.8 | - | 5.8 | 38.8 | 1.7 | 100.0 |
| Gakenke | 0.3 | 89.4 | 0.3 | 8.1 | 1.9 | - | 100.0 |
| Musanze | 1.9 | 96.6 | - | 0.5 | 1.0 | - | 100.0 |
| Burera | 10.6 | 80.7 | - | 4.8 | 3.9 | - | 100.0 |
| Gicumbi | 7.1 | 82.5 | 0.7 | 9.1 | 0.7 | - | 100.0 |
| Rwamagana | 1.6 | 43.5 | 47.2 | 4.7 | 0.5 | 2.6 | 100.0 |
| Nyagatare | 6.9 | 72.5 | 10.1 | 2.7 | 7.4 | 0.5 | 100.0 |
| Gatsibo | 12.4 | 26.9 | 55.2 | 1.0 | 1.0 | 3.5 | 100.0 |
| Kayonza | 4.1 | 25.5 | 58.2 | 9.2 | 2.0 | 1.0 | 100.0 |
| Kirehe | 10.1 | 28.1 | 35.5 | 3.1 | 20.6 | 2.6 | 100.0 |
| Ngoma | 11.2 | 26.8 | 56.8 | 3.2 | 0.8 | 1.2 | 100.0 |
| Bugesera | 8.6 | 61.8 | 15.8 | 5.9 | 3.3 | 4.6 | 100.0 |
| National | 5.8 | 51.0 | 33.4 | 5.1 | 3.7 | 1.0 | 100.0 |

Source: NISR, SAS 2020

Table 43: Percentage of farmers by source of inorganic fertilizers per district in Season B 2020

| District | Government (MINAGRI/RAB/NAEB) | Agro dealers | NGOs/Companies | Market | Agriculture cooperative | Other source | Total |
|-----------------|-------------------------------|--------------|----------------|------------|-------------------------|--------------|------------|
| Nyarugenge | 8.3 | 75.0 | - | 16.7 | - | - | 100 |
| Gasabo | 2.0 | 82.0 | - | 16.0 | - | - | 100 |
| Kicukiro | 2.2 | 62.2 | - | 28.9 | 6.7 | - | 100 |
| Nyanza | 13.3 | 28.9 | 53.0 | 3.6 | 1.2 | - | 100 |
| Gisagara | 4.7 | 28.3 | 54.7 | 7.5 | 3.8 | 0.9 | 100 |
| Nyaruguru | 11.0 | 22.6 | 52.9 | 10.3 | 2.6 | 0.6 | 100 |
| Huye | 10.0 | 27.5 | 57.5 | 2.5 | 2.5 | - | 100 |
| Nyamagabe | 3.6 | 41.9 | 37.1 | 10.8 | 6.6 | - | 100 |
| Ruhango | 12.1 | 34.8 | 27.3 | 16.7 | 7.6 | 1.5 | 100 |
| Muhanga | - | 68.4 | 15.8 | 5.3 | 10.5 | - | 100 |
| Kamonyi | 7.5 | 75.5 | 13.2 | 3.8 | - | - | 100 |
| Karongi | 11.1 | 30.3 | 57.6 | 1.0 | - | - | 100 |
| Rutsiro | 7.0 | 48.4 | 39.1 | 4.7 | - | 0.8 | 100 |
| Rubavu | 2.2 | 92.4 | 0.5 | 4.9 | - | - | 100 |
| Nyabihu | 0.9 | 91.2 | 7.4 | - | 0.5 | - | 100 |
| Ngororero | 2.3 | 28.1 | 59.6 | 6.4 | 3.5 | - | 100 |
| Rusizi | 9.9 | 23.8 | 62.4 | 2.0 | 2.0 | - | 100 |
| Nyamasheke | 3.2 | 12.4 | 76.3 | 7.0 | 1.1 | - | 100 |
| Rulindo | 4.0 | 69.0 | - | 3.0 | 24.0 | - | 100 |
| Gakenke | 4.3 | 83.7 | 5.7 | 5.3 | 1.0 | - | 100 |
| Musanze | 0.5 | 99.0 | - | - | 0.5 | - | 100 |
| Burera | - | 97.1 | - | 1.9 | 1.0 | - | 100 |
| Gicumbi | 1.8 | 88.6 | 1.8 | 5.3 | 1.8 | 0.9 | 100 |
| Rwamagana | 0.8 | 32.5 | 53.2 | 12.7 | 0.8 | - | 100 |
| Nyagatare | 2.3 | 66.3 | 18.6 | 7.6 | 5.2 | - | 100 |
| Gatsibo | 15.0 | 23.4 | 49.1 | 7.8 | 4.8 | - | 100 |
| Kayonza | 6.5 | 28.3 | 42.4 | 15.2 | 5.4 | 2.2 | 100 |
| Kirehe | 9.9 | 32.4 | 36.9 | 5.4 | 14.4 | 0.9 | 100 |
| Ngoma | 13.8 | 43.8 | 37.5 | 3.8 | 1.3 | - | 100 |
| Bugesera | 3.7 | 74.3 | 11.8 | 5.9 | 4.4 | - | 100 |
| National | 5.3 | 54.7 | 30.1 | 6.3 | 3.4 | 0.2 | 100 |

Source: NISR, SAS 2020

Table 44: Percentage of farmers by source of inorganic fertilizers per district in Season C 2020

| District | Government (MINAGRI/RAB/NAEB) | Agro dealers | NGOs/Companies | Market | Agriculture cooperative | Other source | Total |
|-----------------|-------------------------------|--------------|----------------|-------------|-------------------------|--------------|------------|
| Nyarugenge | - | 72.1 | - | 20.9 | 7.0 | - | 100 |
| Gasabo | - | 92.2 | 1.0 | 5.9 | 1.0 | - | 100 |
| Kicukiro | 1.8 | 86.0 | 10.5 | 1.8 | - | - | 100 |
| Nyanza | - | 50.6 | 19.3 | 20.5 | 8.4 | 1.2 | 100 |
| Gisagara | 1.1 | 58.5 | 22.3 | 13.8 | 3.2 | 1.1 | 100 |
| Nyaruguru | 9.4 | 20.0 | 65.9 | 3.5 | 1.2 | - | 100 |
| Huye | 3.9 | 35.3 | 27.5 | 33.3 | - | - | 100 |
| Nyamagabe | - | 62.5 | 25.0 | 5.4 | 5.4 | 1.8 | 100 |
| Ruhango | 12.8 | 59.0 | 5.1 | 10.3 | 10.3 | 2.6 | 100 |
| Muhanga | - | 17.5 | 1.8 | 35.1 | 45.6 | - | 100 |
| Kamonyi | - | 74.3 | 4.3 | 2.9 | 18.6 | - | 100 |
| Karongi | 2.6 | 57.9 | 36.8 | 2.6 | - | - | 100 |
| Rutsiro | 6.7 | 85.3 | 5.3 | 2.7 | - | - | 100 |
| Rubavu | - | 89.8 | 3.4 | - | 6.8 | - | 100 |
| Nyabihu | - | 99.2 | - | 0.8 | - | - | 100 |
| Ngororero | - | 66.7 | - | 16.7 | 16.7 | - | 100 |
| Rusizi | - | 33.3 | 33.3 | - | - | 33.3 | 100 |
| Nyamasheke | - | 26.3 | 64.9 | 7.0 | 1.8 | - | 100 |
| Rulindo | - | 80.0 | 2.5 | 2.5 | 15.0 | - | 100 |
| Gakenke | - | 86.4 | 1.1 | 12.5 | - | - | 100 |
| Musanze | - | 89.9 | 2.3 | 6.2 | 1.6 | - | 100 |
| Burera | - | 83.9 | 0.7 | 0.7 | 14.8 | - | 100 |
| Gicumbi | 1.3 | 90.8 | - | 1.3 | 5.3 | 1.3 | 100 |
| Rwamagana | - | 52.0 | 27.5 | 20.6 | - | - | 100 |
| Nyagatare | - | 78.7 | 2.1 | 17.0 | 2.1 | - | 100 |
| Gatsibo | - | 86.2 | 6.9 | - | 3.4 | 3.4 | 100 |
| Kayonza | 1.5 | 61.5 | 26.2 | 9.2 | - | 1.5 | 100 |
| Kirehe | 1.0 | 46.9 | 15.3 | 29.6 | 4.1 | 3.1 | 100 |
| Ngoma | - | 47.1 | 35.3 | 15.7 | 2.0 | - | 100 |
| Bugesera | - | 76.5 | 2.9 | 17.6 | 2.9 | - | 100 |
| National | 1.3 | 68.0 | 14.1 | 10.8 | 5.3 | 0.5 | 100 |

Source: NISR, SAS 2020

Table 45: Source of inorganic fertiliser by type of fertilizer in Season A 2020 (%)

| Fertilizer name | Government (MINAGRI/RAB/NAEB) | Agro dealers | NGOs/Companies | Market | Agriculture cooperative | Other source | Total |
|--------------------------|-------------------------------|--------------|----------------|------------|-------------------------|--------------|------------|
| NPK 17-17-17 | 3.2 | 71.3 | 13.5 | 6.9 | 3.3 | 1.7 | 100 |
| NPK 20-10-10 | 22.2 | 38.9 | 16.7 | 22.2 | - | - | 100 |
| NPK 25-5-5 | 75.0 | - | 12.5 | 12.5 | - | - | 100 |
| NPK 22-6-12 | 61.9 | 23.8 | - | 4.8 | 9.5 | - | 100 |
| Other NPK | 2.9 | 54.3 | 17.1 | 20.0 | - | 5.7 | 100 |
| Urea | 5.4 | 47.3 | 38.6 | 4.3 | 3.1 | 1.3 | 100 |
| liquid urea (Mbonea M | - | 88.4 | 3.5 | 4.7 | 3.5 | - | 100 |
| DAP | 5.0 | 45.9 | 41.1 | 3.9 | 3.4 | 0.7 | 100 |
| TSP | - | 100.0 | - | - | - | - | 100 |
| KCL/MOP | 33.3 | 33.3 | - | - | 33.3 | - | 100 |
| Omax | - | 70.0 | - | 10.0 | 10.0 | 10.0 | 100 |
| Winner | - | 62.5 | 12.5 | - | 12.5 | 12.5 | 100 |
| Yara Viva | 15.4 | 30.8 | 15.4 | 7.7 | 30.8 | - | 100 |
| Amidas | 4.6 | 63.6 | 13.6 | - | 13.6 | 4.6 | 100 |
| Cereal | 4.6 | 50.0 | 18.2 | - | 13.6 | 13.6 | 100 |
| Boaster | - | 100.0 | - | - | - | - | 100 |
| DI Grow | - | 62.5 | - | 25.0 | - | 12.5 | 100 |
| Other type of fertilizer | 4.0 | 56.0 | 12.0 | 28.0 | - | - | 100 |
| National | 5.1 | 50.8 | 34.8 | 4.7 | 3.4 | 1.2 | 100 |

Source: NISR, SAS 2020

Table 46: Source of inorganic fertilizer by type of fertilizer in Season B 2020

| Fertilizer name | Government (MINAGRI/RAB/NAEB) | Agro dealers | NGOs/Companies | Market | Agriculture cooperative | Other source | Total |
|-------------------------------|----------------------------------|-----------------|----------------|------------|----------------------------|-----------------|------------|
| NPK 17-17-17 | 3.3 | 69.2 | 17.8 | 6 | 3.5 | 0.2 | 100 |
| NPK 20-10-10 | 81 | 8.6 | 3.4 | 1.7 | 5.2 | 0 | 100 |
| NPK 25-5-5 | 25 | 16.7 | 33.3 | 16.7 | 8.3 | 0 | 100 |
| NPK 22-6-12 | 74.1 | 6.9 | 6.9 | 3.4 | 6.9 | 1.7 | 100 |
| Other NPK | 6.7 | 76.7 | 3.3 | 10 | 3.3 | 0 | 100 |
| Urea | 2.7 | 55.5 | 31.3 | 6.2 | 4.1 | 0.2 | 100 |
| liquid urea (Mbolea Majimaji) | 0 | 95.4 | 1.5 | 3.1 | 0 | 0 | 100 |
| DAP | 3 | 51.1 | 38.3 | 4.8 | 2.5 | 0.2 | 100 |
| KCL/MOP | 9.1 | 81.8 | 0 | 9.1 | 0 | 0 | 100 |
| Omax | 0 | 92.9 | 7.1 | 0 | 0 | 0 | 100 |
| Winner | 0 | 100 | 0 | 0 | 0 | 0 | 100 |
| Yara Viva | 8.3 | 83.3 | 0 | 8.3 | 0 | 0 | 100 |
| Amidas | 0 | 52.6 | 36.8 | 5.3 | 5.3 | 0 | 100 |
| Cereal | 0 | 50 | 38.9 | 5.6 | 5.6 | 0 | 100 |
| Boaster | 0 | 100 | 0 | 0 | 0 | 0 | 100 |
| DI Grow | 5 | 70 | 10 | 15 | 0 | 0 | 100 |
| Other type of fertilizer | 12.5 | 60 | 7.5 | 10 | 10 | 0 | 100 |
| National | 4.6 | 56.1 | 30.2 | 5.6 | 3.3 | 0.2 | 100 |

Source: NISR, SAS 2020

Table 47: Source of inorganic fertiliser by type of fertilizer in Season C 2020 (%)

| Fertilizer name | Government (MINAGRI/RAB/NAEB) | Agro dealers | NGOs/Companies | Market | Agriculture cooperative | Other source | Total |
|------------------------------------|-------------------------------|--------------|----------------|-------------|-------------------------|--------------|------------|
| NPK 17-17-17 | 1.0 | 73.3 | 12.3 | 7.9 | 5.2 | 0.4 | 100 |
| NPK 20-10-10 | 12.5 | 50.0 | 12.5 | 25.0 | - | - | 100 |
| NPK 25-5-5 | 100.0 | - | - | - | - | - | 100 |
| NPK 22-6-12 | - | - | - | 100.0 | - | - | 100 |
| Other NPK | - | 95.8 | - | 4.2 | - | - | 100 |
| Urea | 1.4 | 64.6 | 14.3 | 14.3 | 4.9 | 0.6 | 100 |
| liquid urea (Mbonea Majimaji) | - | 68.5 | 10.1 | 19.1 | 2.2 | - | 100 |
| DAP | 1.2 | 64.5 | 18.1 | 11.4 | 4.3 | 0.5 | 100 |
| Omax | - | 87.0 | 4.3 | 4.3 | 4.3 | - | 100 |
| Winner | - | 92.9 | - | 7.1 | - | - | 100 |
| Yara Viva | 5.0 | 70.0 | 15.0 | 5.0 | 5.0 | - | 100 |
| Amidas | - | 62.5 | - | 37.5 | - | - | 100 |
| Cereal | - | 100.0 | - | - | - | - | 100 |
| Boaster | - | 100.0 | - | - | - | - | 100 |
| DI Grow | - | 65.5 | 17.2 | 13.8 | 3.4 | - | 100 |
| Dyna gro | - | 33.3 | 33.3 | - | 33.3 | - | 100 |
| Other type of fertilizer (specify) | - | 73.0 | 19.0 | 7.9 | - | - | 100 |
| National | 1.2 | 68.6 | 14.0 | 11.1 | 4.7 | 0.4 | 100 |

Source: NISR, SAS 2020

Table 48: Type of inorganic fertilizer, per Season and district (%)

| District | Season A | | | | | Season B | | | | | Season C | | | | | | | | | | | | | |
|-----------------|--------------|--------------|------------|-------------|-------------|-------------|------------|------------|--------------|--------------|------------|-------------|-------------|-------------|------------|------------|--------------|--------------|------------|-------------|-------------|-------------|----------|------------|
| | NPK 17-17-17 | NPK 20-10-10 | NPK 25-5-5 | Urea | Liquid urea | DAP | KCL/MOP | Others | NPK 17-17-17 | NPK 20-10-10 | NPK 25-5-5 | Urea | Liquid urea | DAP | KCL/MOP | Others | NPK 17-17-17 | NPK 20-10-10 | NPK 25-5-5 | Urea | Liquid urea | DAP | KCL/MOP | Others |
| Nyarugenge | 14.3 | - | - | 45.7 | - | 28.6 | - | 11.4 | 10.8 | - | - | 56.8 | - | 24.3 | - | 8.1 | 32.5 | - | - | 50.6 | - | 10.4 | - | 6.5 |
| Gasabo | 12.6 | - | - | 42.3 | - | 38.7 | - | 6.3 | 19.5 | - | - | 55.8 | - | 22.1 | - | 2.6 | 30.2 | - | - | 39.2 | 0.5 | 27.5 | - | 2.6 |
| Kicukiro | 13.4 | - | - | 47.2 | - | 39.4 | - | - | 14.5 | - | - | 33.9 | - | 50.0 | - | 1.6 | 28.2 | - | - | 41.7 | - | 29.1 | - | 1.0 |
| Nyanza | 8.3 | - | - | 43.8 | - | 46.8 | - | 1.2 | 12.8 | 6.0 | - | 39.8 | - | 37.6 | - | 3.8 | 31.5 | 0.7 | - | 42.5 | 2.1 | 21.2 | - | 2.0 |
| Gisagara | 6.5 | - | - | 38.4 | - | 50.9 | - | 4.3 | 15.6 | 0.6 | - | 39.4 | - | 36.9 | - | 7.5 | 38.0 | - | - | 40.9 | - | 21.1 | - | - |
| Nyaruguru | 5.5 | - | 0.3 | 39.5 | - | 54.7 | - | 0.0 | 17.7 | - | 1.4 | 23.3 | - | 57.2 | - | 0.4 | 56.5 | - | - | 15.2 | - | 28.3 | - | - |
| Huye | 17.6 | 0.5 | - | 44.7 | - | 33.7 | - | 3.5 | 25.2 | 4.9 | 1.6 | 36.6 | - | 24.4 | - | 7.3 | 29.4 | 0.7 | - | 49.0 | 1.4 | 19.6 | - | 0.1 |
| Nyamagabe | 17.1 | - | - | 38.1 | - | 43.2 | - | 1.6 | 17.7 | - | 0.8 | 31.2 | - | 46.2 | - | 4.1 | 26.6 | - | - | 38.3 | - | 29.8 | - | 5.3 |
| Ruhango | 12.6 | 1.1 | 2.1 | 48.4 | - | 34.7 | - | 1.0 | 30.9 | 3.2 | - | 42.6 | - | 21.3 | 1.1 | 0.9 | 31.3 | - | - | 52.2 | - | 13.4 | - | 3.1 |
| Muhanga | 12.5 | 1.3 | - | 35.0 | - | 45.0 | - | 6.3 | 12.8 | - | - | 29.5 | - | 55.1 | - | 2.6 | 22.2 | 2.5 | - | 59.3 | - | 13.6 | - | 2.4 |
| Kamonyi | 13.1 | - | - | 46.7 | 0.9 | 33.6 | - | 5.6 | 21.7 | - | - | 44.6 | 1.2 | 24.1 | 2.4 | 6.0 | 20.5 | 2.1 | - | 48.6 | - | 25.3 | - | 3.5 |
| Karongi | 6.9 | - | - | 43.3 | - | 48.4 | - | 1.5 | 20.5 | 3.8 | - | 22.0 | - | 48.5 | - | 5.2 | 53.8 | - | - | 25.0 | - | 19.2 | - | 2.0 |
| Rutsiro | 30.6 | - | 0.5 | 30.6 | - | 32.5 | - | 5.7 | 23.9 | 1.1 | - | 26.6 | 0.5 | 41.8 | - | 6.1 | 55.9 | - | 0.8 | 26.3 | 0.8 | 13.6 | - | 2.6 |
| Rubavu | 52.1 | - | - | 13.1 | 12.5 | 20.7 | - | 1.6 | 37.3 | 1.6 | - | 22.5 | 11.7 | 22.2 | - | 4.7 | 32.7 | - | - | 20.6 | 9.3 | 33.6 | - | 3.8 |
| Nyabihu | 46.4 | - | - | 21.5 | 8.6 | 21.8 | - | 1.8 | 30.3 | - | 0.3 | 32.5 | 5.0 | 27.8 | - | 4.1 | 51.5 | - | - | 19.3 | 11.9 | 13.9 | - | 3.4 |
| Ngororero | 9.0 | - | - | 37.4 | - | 53.3 | - | 0.3 | 9.0 | - | - | 39.3 | - | 51.7 | - | - | 12.5 | - | - | 37.5 | - | 50.0 | - | - |
| Rusizi | 12.3 | 1.1 | 0.2 | 39.4 | - | 46.0 | - | 1.1 | 21.2 | 3.6 | - | 23.4 | - | 49.6 | - | 2.2 | 25.0 | - | - | 25.0 | - | 50.0 | - | - |
| Nyamashoke | 5.2 | - | 0.3 | 36.2 | 0.3 | 57.0 | - | 1.1 | 12.8 | 3.4 | - | 15.8 | - | 67.5 | - | 0.5 | 34.8 | - | - | 41.7 | 7.8 | 15.7 | - | - |
| Rulindo | 18.4 | - | - | 42.9 | 0.5 | 35.4 | 0.9 | 1.9 | 16.5 | - | - | 47.0 | - | 31.7 | 3.7 | 1.1 | 53.3 | - | - | 36.7 | - | 8.3 | - | 1.7 |
| Gakenke | 3.8 | 0.7 | - | 43.1 | 0.2 | 52.0 | - | 0.2 | 7.8 | 2.7 | - | 25.9 | - | 63.5 | - | 0.1 | 65.1 | - | - | 16.5 | - | 17.4 | - | 1.0 |
| Musanze | 27.7 | - | - | 31.6 | 1.8 | 36.5 | - | 2.4 | 32.9 | - | - | 27.6 | 1.3 | 30.3 | - | 7.9 | 53.8 | - | - | 12.7 | 5.4 | 18.1 | - | 10.0 |
| Burera | 33.8 | 0.4 | - | 25.4 | 0.4 | 39.4 | - | 0.7 | 36.4 | - | - | 14.9 | 2.5 | 46.3 | - | 0.1 | 70.6 | - | - | 7.8 | 1.0 | 7.4 | - | 13.2 |
| Gicumbi | 31.2 | - | - | 35.6 | - | 33.2 | - | - | 34.5 | - | - | 37.3 | - | 27.5 | - | 0.7 | 64.2 | - | - | 15.1 | - | 15.1 | - | 5.6 |
| Rwamagana | 10.9 | - | - | 44.8 | 0.5 | 42.6 | - | 1.2 | 18.4 | - | 1.3 | 37.2 | - | 39.7 | - | 3.4 | 28.0 | - | - | 36.2 | - | 32.9 | - | 2.9 |
| Nyagatare | 6.3 | 0.6 | - | 45.6 | - | 43.7 | - | 3.8 | 7.1 | - | - | 46.8 | 0.3 | 42.9 | - | 2.9 | 26.4 | - | - | 41.5 | - | 23.6 | - | 8.5 |
| Gatsibo | 8.4 | - | 0.3 | 44.6 | - | 43.3 | - | 3.4 | 14.0 | - | 0.4 | 36.4 | - | 37.9 | - | 11.3 | 21.7 | - | - | 41.3 | 4.3 | 19.6 | - | 13.1 |
| Kayanza | 18.7 | - | - | 40.4 | - | 39.9 | 0.5 | 0.5 | 17.6 | 1.6 | - | 42.9 | 0.5 | 34.1 | - | 3.3 | 29.6 | - | - | 40.7 | 1.5 | 16.3 | - | 11.9 |
| Kirehe | 2.6 | - | - | 36.8 | - | 55.9 | 0.8 | 3.9 | 3.7 | - | - | 45.7 | - | 44.7 | 1.1 | 4.8 | 23.6 | 0.4 | - | 35.1 | 6.7 | 21.3 | - | 12.9 |
| Ngoma | 5.0 | 0.2 | - | 48.0 | 0.4 | 44.5 | - | 1.9 | 16.8 | 0.8 | - | 48.1 | 0.8 | 30.5 | - | 3.0 | 30.4 | - | - | 32.4 | 2.0 | 17.6 | - | 17.6 |
| Bugesera | 14.8 | 0.6 | 0.3 | 35.4 | - | 43.4 | - | 5.6 | 10.1 | 1.2 | - | 37.0 | - | 45.1 | - | 6.6 | 27.3 | - | - | 39.6 | 2.9 | 25.9 | - | 4.3 |
| National | 15.3 | 0.2 | 0.1 | 38.2 | 1.0 | 43.0 | 0.1 | 2.1 | 18.8 | 1.0 | 0.2 | 33.9 | 1.2 | 40.8 | 0.2 | 3.9 | 38.4 | 0.2 | - | 33.0 | 2.5 | 20.5 | - | 5.4 |

Source: NISR, SAS 2020

Table 49: Season A 2020_ Use of pesticides by farmer type per district (%)

| District | Percentage of farmers who used pesticides | | | Percentage of plots in which pesticides were used | | | Percentage of land size in which pesticides were used | | |
|-----------------|---|-------------|-------------|---|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 16.2 | 16.2 | | 12.2 | 12.2 | | 14.6 | 14.6 | - |
| Gasabo | 13.7 | 11.5 | 81.8 | 8.2 | 8.2 | 34.7 | 13.1 | 11.5 | 72.7 |
| Kicukiro | 24.4 | 23.4 | 75.0 | 11.5 | 11.5 | 58.3 | 25.2 | 23.8 | 84.8 |
| Nyanza | 15.5 | 14.2 | 100.0 | 10.7 | 10.7 | 69.2 | 14.3 | 12.3 | 96.3 |
| Gisagara | 20.6 | 17.3 | 100.0 | 16.2 | 16.2 | 77.8 | 24.3 | 14.3 | 99.9 |
| Nyaruguru | 34.3 | 32.7 | 100.0 | 26.5 | 26.5 | 76.9 | 30.6 | 30.0 | 99.0 |
| Huye | 14.7 | 10.5 | 87.5 | 8.5 | 8.5 | 56.8 | 13.0 | 9.5 | 87.0 |
| Nyamagabe | 20.2 | 20.0 | 100.0 | 11.2 | 11.2 | 100.0 | 18.6 | 18.5 | 100.0 |
| Ruhango | 15.1 | 13.8 | 100.0 | 9.1 | 9.1 | 58.8 | 15.1 | 12.8 | 99.5 |
| Muhanga | 13.2 | 11.4 | 100.0 | 6.2 | 6.2 | 100.0 | 11.1 | 9.6 | 100.0 |
| Kamonyi | 15.6 | 13.7 | 91.7 | 14.5 | 14.5 | 77.8 | 13.8 | 12.0 | 97.8 |
| Karongi | 14.1 | 13.9 | 100.0 | 10.6 | 10.6 | 50.0 | 13.0 | 13.0 | 98.5 |
| Rutsiro | 20.8 | 20.8 | | 13.4 | 13.4 | | 20.0 | 20.0 | - |
| Rubavu | 48.4 | 48.1 | 75.0 | 37.0 | 37.0 | 40.0 | 49.3 | 49.3 | 51.8 |
| Nyabihu | 53.4 | 53.4 | | 40.3 | 40.3 | | 52.8 | 52.8 | - |
| Ngororero | 14.7 | 14.7 | | 14.7 | 14.7 | | 14.1 | 14.1 | - |
| Rusizi | 11.6 | 10.3 | 77.8 | 9.3 | 9.3 | 81.8 | 13.3 | 10.0 | 72.5 |
| Nyamasheke | 10.4 | 8.7 | 100.0 | 7.0 | 7.0 | 80.0 | 8.2 | 7.0 | 98.8 |
| Rulindo | 22.6 | 21.9 | 66.7 | 14.9 | 14.9 | 45.0 | 20.2 | 20.0 | 64.8 |
| Gakenke | 29.6 | 29.6 | | 27.5 | 27.5 | | 27.4 | 27.4 | - |
| Musanze | 45.8 | 45.8 | | 38.5 | 38.5 | | 47.0 | 47.0 | - |
| Burera | 39.4 | 39.4 | | 35.3 | 35.3 | | 37.4 | 37.4 | - |
| Gicumbi | 18.1 | 18.0 | 50.0 | 14.7 | 14.7 | 50.0 | 16.2 | 16.1 | 67.2 |
| Rwamagana | 23.9 | 21.2 | 72.4 | 14.4 | 14.4 | 30.4 | 21.3 | 20.8 | 50.1 |
| Nyagatare | 16.7 | 11.1 | 86.4 | 7.9 | 7.9 | 61.1 | 15.1 | 11.1 | 94.7 |
| Gatsibo | 15.9 | 14.1 | 77.8 | 8.3 | 8.3 | 38.5 | 17.7 | 14.8 | 94.8 |
| Kayonza | 12.6 | 10.5 | 73.3 | 8.1 | 8.1 | 21.7 | 11.7 | 10.3 | 81.8 |
| Kirehe | 16.2 | 14.9 | 100.0 | 13.5 | 13.5 | 95.7 | 17.2 | 13.5 | 99.6 |
| Ngoma | 14.6 | 13.1 | 91.7 | 10.1 | 10.1 | 75.0 | 15.4 | 13.7 | 94.2 |
| Bugesera | 14.7 | 11.1 | 68.4 | 9.7 | 9.7 | 53.7 | 12.5 | 9.8 | 74.1 |
| National | 21.2 | 19.8 | 83.9 | 16.0 | 16.0 | 49.4 | 19.6 | 17.9 | 90.2 |

Source: NISR, SAS 2020

Table 50: Season B 2020_ Use of pesticides by farmer type per district (%)

| District | Percentage of farmers who used pesticides | | | Percentage of plots in which pesticides were used | | | Percentage of land size in which pesticides were used | | |
|-----------------|---|-------------|-------------|---|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 16.1 | 16.1 | | 13.0 | 13.0 | | 14.1 | 14.1 | |
| Gasabo | 12.8 | 11.1 | 70.0 | 9.5 | 9.5 | 30.6 | 10.4 | 9.1 | 71.7 |
| Kicukiro | 5.4 | 4.1 | 75.0 | 2.1 | 2.1 | 40.0 | 3.8 | 3.3 | 71.2 |
| Nyanza | 11.8 | 10.6 | 100.0 | 10.6 | 10.6 | 83.3 | 10.8 | 9.3 | 98.6 |
| Gisagara | 11.0 | 8.5 | 92.9 | 7.5 | 7.5 | 66.7 | 13.5 | 6.8 | 96.9 |
| Nyaruguru | 14.5 | 13.0 | 75.0 | 8.1 | 8.1 | 50.0 | 12.0 | 11.3 | 82.5 |
| Huye | 10.7 | 6.8 | 95.0 | 4.3 | 4.3 | 86.4 | 9.8 | 6.5 | 94.9 |
| Nyamagabe | 20.1 | 20.1 | | 11.5 | 11.5 | | 20.7 | 20.7 | |
| Ruhango | 10.5 | 8.9 | 90.9 | 5.5 | 5.5 | 66.7 | 8.5 | 7.0 | 99.1 |
| Muhanga | 11.7 | 11.1 | 100.0 | 9.4 | 9.4 | 100.0 | 9.8 | 9.4 | 100.0 |
| Kamonyi | 9.9 | 9.1 | 100.0 | 7.1 | 7.1 | 66.7 | 9.2 | 8.6 | 94.3 |
| Karongi | 8.6 | 8.4 | 100.0 | 6.4 | 6.4 | 50.0 | 7.9 | 7.9 | 6.6 |
| Rutsiro | 20.8 | 20.8 | | 14.3 | 14.3 | | 20.9 | 20.9 | |
| Rubavu | 49.6 | 49.6 | 50.0 | 35.2 | 35.2 | 37.5 | 52.1 | 52.1 | 52.5 |
| Nyabihu | 41.9 | 41.9 | | 35.7 | 35.7 | | 44.3 | 44.3 | |
| Ngororero | 19.4 | 19.4 | | 17.4 | 17.4 | | 19.0 | 19.0 | |
| Rusizi | 12.3 | 9.3 | 100.0 | 6.8 | 6.8 | 81.8 | 15.7 | 8.2 | 97.2 |
| Nyamasheke | 7.7 | 6.1 | 87.5 | 3.6 | 3.6 | 70.0 | 7.6 | 6.5 | 90.9 |
| Rulindo | 17.5 | 16.5 | 83.3 | 13.8 | 13.8 | 57.9 | 14.5 | 14.4 | 54.0 |
| Gakenke | 14.7 | 14.7 | | 13.5 | 13.5 | | 13.3 | 13.3 | |
| Musanze | 44.6 | 44.6 | | 35.2 | 35.2 | | 46.0 | 46.0 | |
| Burera | 19.2 | 19.2 | | 17.2 | 17.2 | | 21.2 | 21.2 | |
| Gicumbi | 12.8 | 12.5 | 100.0 | 10.7 | 10.7 | 50.0 | 13.2 | 13.2 | 61.1 |
| Rwamagana | 15.7 | 12.9 | 70.4 | 8.8 | 8.8 | 30.0 | 11.8 | 10.9 | 65.0 |
| Nyagatare | 10.5 | 6.6 | 61.0 | 5.4 | 5.4 | 42.5 | 8.5 | 6.3 | 61.3 |
| Gatsibo | 12.4 | 11.3 | 52.9 | 6.9 | 6.9 | 28.6 | 12.1 | 9.5 | 81.5 |
| Kayonza | 11.6 | 9.0 | 86.7 | 6.4 | 6.4 | 22.2 | 11.4 | 9.5 | 84.5 |
| Kirehe | 5.2 | 4.1 | 88.9 | 2.1 | 2.1 | 81.1 | 7.2 | 3.5 | 95.2 |
| Ngoma | 6.6 | 5.3 | 72.7 | 3.7 | 3.7 | 37.5 | 9.1 | 7.3 | 90.8 |
| Bugesera | 11.5 | 9.1 | 52.9 | 7.9 | 7.9 | 28.8 | 10.5 | 8.3 | 70.7 |
| National | 15.3 | 14.1 | 74.8 | 11.2 | 11.2 | 40.6 | 14.1 | 12.7 | 84.0 |

Source: NISR, SAS 2020

Table 51: Season C 2020_ Use of pesticides per district (%)

| District | Percentage of farmers who used pesticides | | | Percentage of plots in which pesticides were used | | | Percentage of land size in which pesticides were used | | |
|-----------------|---|-------------|-------------|---|-------------|-------------|---|-------------|-------------|
| | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE |
| Nyarugenge | 74.6 | 75.0 | 74.4 | 59.2 | 59.1 | 68.8 | 78.7 | 78.8 | 62.0 |
| Gasabo | 76.3 | 73.1 | 77.2 | 40.5 | 40.2 | 75.3 | 79.8 | 79.8 | 81.0 |
| Kicukiro | 72.1 | 41.7 | 78.6 | 31.9 | 30.6 | 78.6 | 51.2 | 49.3 | 84.3 |
| Nyanza | 71.3 | 42.9 | 78.3 | 43.1 | 42.8 | 77.3 | 53.9 | 53.1 | 87.0 |
| Gisagara | 74.0 | 70.4 | 75.0 | 51.3 | 51.1 | 75.7 | 73.2 | 73.0 | 84.7 |
| Nyaruguru | 10.0 | 14.0 | 8.2 | 16.1 | 16.1 | 8.2 | 15.6 | 15.6 | 7.9 |
| Huye | 58.8 | 56.3 | 59.3 | 34.8 | 34.6 | 59.3 | 54.1 | 53.9 | 64.9 |
| Nyamagabe | 21.9 | 6.7 | 28.8 | 13.7 | 13.6 | 30.0 | 7.8 | 7.5 | 42.4 |
| Ruhango | 48.5 | 34.4 | 55.1 | 37.1 | 37.0 | 55.6 | 36.8 | 36.7 | 48.2 |
| Muhanga | 76.5 | 52.4 | 83.1 | 75.1 | 75.0 | 83.5 | 56.9 | 56.4 | 90.6 |
| Kamonyi | 80.2 | 60.7 | 88.2 | 59.2 | 59.1 | 88.7 | 61.3 | 60.9 | 91.8 |
| Karongi | 25.0 | 21.4 | 25.7 | 16.5 | 16.3 | 26.7 | 19.7 | 19.6 | 24.2 |
| Rutsiro | 53.0 | 33.3 | 54.6 | 20.3 | 18.5 | 54.1 | 40.8 | 30.3 | 73.4 |
| Rubavu | 78.3 | 66.0 | 97.0 | 64.4 | 64.4 | 95.0 | 76.2 | 76.2 | 96.9 |
| Nyabihu | 80.4 | 72.7 | 90.0 | 76.2 | 76.2 | 90.7 | 72.8 | 72.7 | 96.8 |
| Ngororero | 3.0 | 11.1 | - | 0.9 | 1.0 | - | 33.8 | 34.4 | - |
| Rusizi | 100.0 | 100.0 | - | 100.0 | 100.0 | - | 100.0 | 100.0 | - |
| Nyamasheke | 62.5 | 42.1 | 68.9 | 32.7 | 32.4 | 67.7 | 45.7 | 45.2 | 80.8 |
| Rulindo | 60.6 | 57.5 | 65.4 | 55.3 | 55.3 | 63.0 | 61.0 | 60.9 | 85.4 |
| Gakenke | 63.7 | 55.6 | 66.4 | 59.9 | 59.9 | 66.1 | 55.3 | 55.0 | 78.1 |
| Musanze | 86.6 | 77.2 | 92.0 | 89.2 | 89.2 | 91.7 | 93.7 | 93.7 | 98.0 |
| Burera | 69.5 | 64.6 | 73.7 | 61.5 | 61.5 | 73.7 | 69.7 | 69.7 | 79.1 |
| Gicumbi | 64.4 | 26.1 | 75.3 | 22.6 | 22.3 | 77.0 | 29.3 | 24.0 | 91.1 |
| Rwamagana | 84.6 | 80.0 | 85.7 | 75.8 | 75.6 | 85.9 | 79.9 | 79.4 | 95.6 |
| Nyagatare | 62.2 | 69.6 | 58.8 | 65.5 | 65.5 | 57.7 | 76.0 | 75.3 | 88.8 |
| Gatsibo | 44.8 | 66.7 | 38.5 | 47.9 | 47.9 | 41.7 | 73.4 | 73.4 | 70.6 |
| Kayonza | 88.2 | 94.1 | 86.3 | 89.1 | 89.1 | 87.7 | 89.2 | 88.7 | 96.9 |
| Kirehe | 76.6 | 66.7 | 77.7 | 69.2 | 68.7 | 77.3 | 79.2 | 70.1 | 95.0 |
| Ngoma | 59.8 | 46.7 | 62.5 | 53.4 | 53.2 | 63.2 | 57.0 | 50.9 | 94.5 |
| Bugesera | 77.1 | 57.1 | 81.2 | 56.3 | 56.1 | 81.7 | 59.0 | 57.0 | 91.7 |
| National | 64.1 | 56.8 | 67.0 | 54.4 | 54.4 | 67.1 | 67.4 | 67.2 | 84.5 |

Source: NISR, SAS 2020

Table 52: Type of pesticides, per Season and district in 2020 (%)

| District | Season A | | | | | | | | Season B | | | | | | | | Season C | | | | | | | |
|-----------------|-------------|------------|------------|---------------|------------|-------------|------------|------------|-------------|------------|------------|---------------|------------|-------------|------------|------------|-------------|------------|-------------|---------------|------------|-------------|------------|-------------|
| | Dithane | Ridomil | Dimethoate | Cypermethr in | Dursiban | Rocket | Beam | Others | Dithane | Ridomil | Dimethoate | Cypermethr in | Dursiban | Rocket | Beam | Others | Dithane | Ridomil | Dimethoate | Cypermethr in | Dursiban | Rocket | Beam | Others |
| Nyarugenge | 31.0 | - | 15.5 | 9.9 | - | 33.8 | - | 9.9 | 29.7 | 2.7 | 21.6 | 8.1 | - | 29.7 | - | 8.1 | 23.6 | 1.9 | 17.0 | 11.3 | - | 30.2 | - | 16.0 |
| Gasabo | 20.0 | 2.9 | 6.7 | 8.6 | - | 40.0 | 1.9 | 20.0 | 31.9 | - | 4.2 | 5.6 | 1.4 | 43.1 | 2.8 | 11.1 | 23.7 | - | 12.5 | 9.1 | 1.7 | 17.2 | - | 35.8 |
| Kicukiro | 14.3 | - | 1.2 | 7.1 | - | 56.0 | 1.2 | 20.2 | 16.7 | - | - | 22.2 | - | 38.9 | 5.6 | 16.7 | 28.6 | - | 12.4 | 16.2 | - | 20.0 | - | 22.8 |
| Nyanza | 7.1 | 4.1 | 2.0 | 7.1 | - | 69.4 | 3.1 | 7.2 | 7.2 | 2.4 | 1.2 | 14.5 | 1.2 | 61.5 | 7.2 | 4.8 | 25.3 | 3.8 | 5.5 | 3.8 | 0.5 | 45.6 | 0.5 | 15.0 |
| Gisagara | 4.8 | - | 0.8 | 11.9 | - | 66.7 | 7.9 | 7.9 | 9.2 | - | 1.3 | 17.1 | - | 52.6 | 11.8 | 7.9 | 29.6 | - | 3.0 | 5.3 | - | 53.8 | - | 8.3 |
| Nyaruguru | 11.1 | - | 3.0 | 14.1 | - | 62.2 | - | 9.6 | 44.1 | 5.1 | - | 11.9 | - | 28.8 | - | 10.2 | 41.2 | 5.9 | - | 11.8 | - | 35.3 | - | 5.8 |
| Huye | 7.4 | - | - | 26.3 | - | 43.2 | 19.0 | 4.2 | 5.6 | - | 1.4 | 30.6 | - | 29.2 | 19.4 | 13.9 | 12.5 | - | 0.7 | 9.6 | - | 69.9 | - | 7.3 |
| Nyamagabe | 38.8 | 5.8 | 0.8 | 33.1 | - | 17.4 | - | 4.1 | 27.5 | 1.7 | - | 46.7 | - | 20.0 | - | 4.2 | 14.7 | 2.9 | - | 38.2 | - | 38.2 | - | 6.0 |
| Ruhango | 6.4 | 1.8 | 0.9 | 14.6 | - | 66.4 | 5.5 | 4.6 | 5.9 | - | 1.2 | 30.6 | - | 48.2 | 12.9 | 1.2 | 28.2 | 3.5 | 5.9 | 10.6 | - | 47.1 | - | 4.7 |
| Muhanga | 10.1 | 2.9 | 1.5 | 20.3 | - | 37.7 | 4.4 | 23.2 | 10.2 | 1.7 | 3.4 | 17.0 | - | 57.6 | 5.1 | 5.1 | 16.0 | 0.9 | 16.0 | 11.3 | - | 53.8 | - | 2.0 |
| Kamonyi | 19.4 | 6.7 | 3.7 | 3.7 | - | 53.7 | 2.2 | 10.5 | 26.2 | 10.3 | 4.7 | 6.5 | - | 42.1 | 1.9 | 8.4 | 28.8 | 6.8 | 7.5 | 2.7 | - | 46.6 | - | 7.6 |
| Karongi | 25.4 | - | 1.6 | 6.4 | - | 63.5 | - | 3.2 | 31.0 | 2.4 | 7.1 | 16.7 | 2.4 | 26.2 | - | 14.3 | 29.6 | - | - | 22.2 | - | 40.7 | - | 7.5 |
| Rutsiro | 51.9 | 7.6 | 0.9 | 13.2 | 2.8 | 20.8 | - | 2.8 | 51.4 | 7.5 | 0.9 | 26.2 | - | 11.2 | - | 2.8 | 54.9 | 0.9 | 10.6 | 15.0 | - | 12.4 | - | 6.2 |
| Rubavu | 33.7 | 20.8 | 14.5 | 24.0 | - | 2.0 | - | 5.1 | 33.0 | 23.7 | 12.5 | 23.0 | 0.4 | 6.6 | - | 0.8 | 37.8 | 12.8 | 13.4 | 25.0 | 0.6 | 8.1 | - | 2.3 |
| Nyabihu | 35.9 | 26.8 | 9.8 | 21.9 | - | 3.0 | - | 2.7 | 32.4 | 23.5 | 13.1 | 19.6 | - | 8.1 | - | 3.4 | 46.1 | 8.9 | 13.0 | 26.4 | - | 4.1 | - | 1.5 |
| Ngororero | 28.6 | 2.4 | - | 32.1 | - | 36.9 | - | 0.0 | 13.4 | 3.1 | - | 16.5 | - | 62.9 | - | 4.1 | 50.0 | - | - | 50.0 | - | - | - | - |
| Rusizi | 16.7 | - | 24.0 | 14.6 | - | 32.3 | - | 12.5 | 10.9 | 2.2 | 13.0 | 54.4 | - | 10.9 | 6.5 | 2.2 | 25.0 | - | 37.5 | 12.5 | - | - | - | 25.0 |
| Nyamasheke | 9.5 | - | 7.9 | 33.3 | - | 30.2 | 4.8 | 14.3 | 17.0 | 4.3 | 6.4 | 34.0 | - | 10.6 | 6.4 | 21.3 | 25.3 | 3.3 | 12.1 | 20.9 | - | 24.2 | - | 14.2 |
| Rulindo | 19.0 | 4.4 | 7.3 | 3.7 | - | 56.9 | 0.7 | 8.0 | 22.6 | 1.0 | 5.9 | 9.8 | - | 52.9 | 1.0 | 6.9 | 27.3 | - | 6.1 | 24.2 | - | 30.3 | - | 12.1 |
| Gakenke | 8.1 | 3.1 | 4.6 | 13.2 | - | 70.6 | - | 0.5 | 13.1 | 6.1 | 1.0 | 29.3 | - | 43.4 | - | 7.1 | 28.9 | 2.6 | 0.9 | 21.9 | - | 39.5 | - | 6.2 |
| Musanze | 33.9 | 9.9 | 10.1 | 9.3 | - | 34.2 | - | 2.6 | 36.6 | 9.5 | 12.6 | 13.4 | - | 22.4 | - | 5.6 | 41.8 | 9.5 | 20.0 | 16.6 | - | 6.2 | - | 5.9 |
| Burera | 27.7 | 9.7 | 6.3 | 18.7 | - | 35.3 | - | 2.3 | 39.2 | 10.1 | 5.1 | 22.2 | - | 21.5 | - | 1.9 | 44.7 | 5.1 | 7.1 | 38.3 | - | 3.1 | - | 1.7 |
| Gicumbi | 49.2 | - | 0.8 | 8.9 | 0.8 | 29.0 | - | 11.3 | 43.7 | 2.3 | - | 9.2 | - | 34.5 | - | 10.3 | 38.1 | 0.9 | - | 6.2 | - | 49.6 | - | 5.2 |
| Rwamagana | 18.9 | 1.9 | 9.5 | 9.5 | 0.4 | 42.4 | 1.1 | 16.3 | 21.0 | 2.2 | 9.1 | 8.6 | 0.5 | 34.4 | 1.6 | 22.6 | 26.9 | 1.3 | 19.4 | 7.9 | - | 24.2 | - | 20.3 |
| Nyagatare | 8.6 | 1.9 | 7.1 | 13.3 | 0.5 | 33.8 | 2.4 | 32.4 | 14.2 | - | 12.7 | 20.2 | - | 25.4 | 3.7 | 23.9 | 29.1 | 3.1 | 15.0 | 10.2 | - | 16.5 | - | 26.1 |
| Gatsibo | 21.5 | 3.2 | 4.4 | 8.9 | - | 49.4 | 1.9 | 10.8 | 22.5 | - | 5.0 | 10.8 | - | 41.7 | 2.5 | 17.5 | 18.8 | - | 12.5 | 18.8 | - | 29.7 | 1.6 | 18.6 |
| Kayonza | 15.9 | 7.1 | 6.4 | 10.3 | - | 34.1 | 3.2 | 23.0 | 20.2 | 0.9 | 1.8 | 14.7 | - | 36.7 | 5.5 | 20.2 | 23.1 | 0.6 | 19.4 | 4.4 | - | 24.4 | - | 28.1 |
| Kirehe | 7.0 | 1.8 | 4.1 | 9.9 | - | 62.0 | 4.1 | 11.1 | 7.8 | 1.1 | 5.6 | 27.8 | - | 27.8 | 8.9 | 21.1 | 23.0 | 4.7 | 18.7 | 3.9 | 0.4 | 28.0 | - | 21.3 |
| Ngoma | 21.7 | 0.6 | 4.5 | 14.0 | - | 47.1 | 3.2 | 8.9 | 22.7 | 1.5 | 12.1 | 18.2 | - | 24.2 | 7.6 | 13.6 | 27.9 | 1.6 | 26.2 | 5.7 | - | 24.6 | - | 14.0 |
| Bugesera | 6.4 | 2.6 | 4.3 | 9.0 | 0.4 | 38.5 | 3.4 | 35.5 | 7.8 | 1.4 | 5.0 | 14.2 | - | 46.8 | 5.7 | 19.2 | 36.9 | 0.6 | 16.9 | 7.5 | - | 23.8 | - | 14.3 |
| National | 23.0 | 8.1 | 7.0 | 15.1 | 0.1 | 35.2 | 1.7 | 9.8 | 25.8 | 8.5 | 7.5 | 19.2 | 0.2 | 27.8 | 2.5 | 8.6 | 31.4 | 3.7 | 12.2 | 14.2 | 0.2 | 25.9 | 0.1 | 12.3 |

Source: NISR, SAS 2020

Table 53: Percentage of farmers by agricultural practices in Season A 2020

| District | Farmers who protected land against erosion (%) | | | Farmers who used any mechanical equipment for agriculture activities (%) | | | Farmers who practiced irrigation (%) | | | Farmers who practiced agroforestry (%) | | |
|-----------------|--|-------------|-------------|--|------------|-------------|--------------------------------------|------------|-------------|--|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 76.5 | 76.5 | - | - | - | - | 9.3 | 9.3 | - | 49.8 | 49.8 | |
| Gasabo | 84.2 | 84.0 | 90.9 | 1.5 | 0.6 | 27.3 | 9.4 | 8.2 | 45.5 | 35.3 | 34.6 | 58.3 |
| Kicukiro | 63.4 | 63.2 | 75.0 | 2.0 | 1.5 | 25.0 | 2.9 | 2.5 | 25.0 | 36.7 | 37.1 | 20.0 |
| Nyanza | 88.6 | 88.4 | 100.0 | 0.2 | 0.2 | - | 14.7 | 14.0 | 62.5 | 36.5 | 36.4 | 50.0 |
| Gisagara | 86.1 | 85.5 | 100.0 | - | - | - | 5.8 | 3.9 | 50.0 | 37.5 | 38.3 | 15.8 |
| Nyaruguru | 97.9 | 97.8 | 100.0 | - | - | - | 10.8 | 10.5 | 25.0 | 35.0 | 34.5 | 62.5 |
| Huye | 95.7 | 95.5 | 100.0 | - | - | - | 13.1 | 9.1 | 83.3 | 32.0 | 32.4 | 25.0 |
| Nyamagabe | 97.9 | 97.9 | 100.0 | 0.2 | 0.2 | - | 1.9 | 1.9 | - | 42.9 | 42.8 | 100.0 |
| Ruhango | 93.7 | 93.8 | 87.5 | 0.4 | 0.4 | - | 10.3 | 9.7 | 50.0 | 31.5 | 31.2 | 50.0 |
| Muhanga | 98.1 | 98.0 | 100.0 | - | - | - | 8.5 | 8.0 | 37.5 | 42.1 | 42.2 | 37.5 |
| Kamonyi | 95.5 | 95.6 | 91.7 | 0.2 | 0.2 | - | 10.0 | 9.3 | 41.7 | 20.1 | 20.2 | 16.7 |
| Karongi | 95.8 | 95.8 | 100.0 | 0.2 | 0.2 | - | 2.1 | 2.1 | - | 31.0 | 30.8 | 100.0 |
| Rutsiro | 97.2 | 97.2 | | 0.5 | 0.5 | | 1.3 | 1.3 | - | 40.4 | 40.4 | |
| Rubavu | 93.9 | 93.9 | 100.0 | - | - | - | 0.8 | 0.8 | - | 16.6 | 16.3 | 50.0 |
| Nyabihu | 97.8 | 97.8 | | - | - | - | - | - | - | 47.1 | 47.1 | |
| Ngororero | 97.0 | 97.0 | | 0.8 | 0.8 | - | 3.6 | 3.6 | - | 41.9 | 41.9 | |
| Rusizi | 85.3 | 85.0 | 100.0 | - | - | - | 7.7 | 6.5 | 66.7 | 55.0 | 55.3 | 40.0 |
| Nyamasheke | 97.7 | 97.7 | 100.0 | 0.2 | 0.2 | - | 4.1 | 3.0 | 62.5 | 52.7 | 52.5 | 62.5 |
| Rulindo | 98.6 | 98.6 | 100.0 | 0.5 | 0.2 | 16.7 | 14.3 | 14.2 | 16.7 | 35.4 | 35.4 | 33.3 |
| Gakenke | 97.9 | 97.9 | - | 0.3 | 0.3 | - | 3.8 | 3.8 | - | 28.3 | 28.3 | |
| Musanze | 90.6 | 90.6 | - | 0.2 | 0.2 | - | 1.4 | 1.4 | - | 44.8 | 44.8 | |
| Burera | 96.1 | 96.1 | - | 0.9 | 0.9 | - | 0.2 | 0.2 | - | 20.2 | 20.2 | |
| Gicumbi | 97.8 | 97.8 | 100.0 | 0.4 | 0.4 | - | 2.8 | 2.8 | - | 22.7 | 22.5 | 100.0 |
| Rwamagana | 90.0 | 90.2 | 86.2 | 0.4 | 0.4 | - | 7.8 | 5.9 | 41.4 | 43.9 | 42.9 | 62.1 |
| Nyagatare | 58.3 | 57.6 | 65.9 | 6.8 | 2.0 | 65.9 | 6.3 | 3.5 | 40.9 | 41.2 | 40.4 | 53.3 |
| Gatsibo | 94.2 | 94.7 | 77.8 | 1.7 | 1.1 | 22.2 | 5.8 | 5.8 | 5.6 | 56.5 | 56.4 | 57.9 |
| Kayonza | 57.7 | 56.9 | 80.0 | 1.4 | 0.7 | 20.0 | 9.2 | 8.2 | 40.0 | 42.7 | 43.7 | 12.5 |
| Kirehe | 80.5 | 80.7 | 70.0 | 0.8 | 0.3 | 30.0 | 5.0 | 3.9 | 80.0 | 47.4 | 47.6 | 30.0 |
| Ngoma | 84.9 | 84.8 | 91.7 | 0.6 | 0.3 | 16.7 | 6.7 | 5.4 | 75.0 | 56.0 | 56.6 | 23.1 |
| Bugesera | 73.0 | 73.3 | 68.4 | 0.8 | - | 13.2 | 15.2 | 13.4 | 42.1 | 38.4 | 37.4 | 55.0 |
| National | 88.9 | 89.0 | 84.6 | 0.8 | 0.4 | 17.1 | 6.5 | 5.7 | 45.6 | 38.8 | 38.7 | 43.8 |

Source: NISR, SAS 2020

Table 54: Percentage of farmers by agricultural practices in Season B 2020

| District | Farmers who protected land against erosion (%) | | | Farmers who used any mechanical equipment for agriculture activities (%) | | | Farmers who practiced irrigation (%) | | | Farmers who practiced agroforestry (%) | | |
|-----------------|--|-------------|-------------|--|------------|-------------|--------------------------------------|-------------|-------------|--|-------------|-------------|
| | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF | Overall | SSF | LSF |
| Nyarugenge | 64.0 | 64.0 | | 0.5 | 0.5 | | 10.9 | 10.9 | | 39.0 | 39.0 | |
| Gasabo | 84.3 | 84.1 | 90.0 | 0.6 | - | 20.0 | 8.2 | 6.9 | 50.0 | 45.3 | 45.2 | 50.0 |
| Kicukiro | 55.8 | 55.0 | 100.0 | - | - | - | 16.5 | 15.5 | 75.0 | 37.2 | 36.7 | 60.0 |
| Nyanza | 93.7 | 93.6 | 100.0 | - | - | - | 23.4 | 22.6 | 85.7 | 34.7 | 34.8 | 25.0 |
| Gisagara | 87.8 | 87.8 | 85.7 | 0.4 | 0.4 | - | 15.2 | 13.3 | 78.6 | 33.8 | 34.6 | 10.5 |
| Nyaruguru | 98.5 | 98.4 | 100.0 | 0.3 | 0.3 | - | 16.7 | 15.2 | 75.0 | 26.8 | 25.9 | 75.0 |
| Huye | 91.7 | 91.3 | 100.0 | - | - | - | 25.7 | 22.7 | 90.0 | 27.2 | 26.8 | 36.4 |
| Nyamagabe | 97.9 | 97.9 | | - | - | | 13.4 | 13.4 | | 33.0 | 32.8 | 100.0 |
| Ruhango | 94.1 | 93.9 | 100.0 | 0.4 | 0.4 | - | 15.0 | 14.1 | 63.6 | 34.5 | 34.2 | 50.0 |
| Muhanga | 97.1 | 97.1 | 100.0 | - | - | - | 18.5 | 17.9 | 100.0 | 32.2 | 31.8 | 66.7 |
| Kamonyi | 92.3 | 92.2 | 100.0 | - | - | - | 25.1 | 24.4 | 100.0 | 23.4 | 23.7 | - |
| Karongi | 99.0 | 99.0 | 100.0 | - | - | - | 14.0 | 13.8 | 100.0 | 32.2 | 32.2 | - |
| Rutsiro | 98.3 | 98.3 | | 0.3 | 0.3 | | 1.9 | 1.9 | | 38.6 | 38.6 | |
| Rubavu | 92.8 | 93.0 | 75.0 | 0.8 | 0.8 | - | 1.3 | 1.3 | - | 23.5 | 23.0 | 75.0 |
| Nyabihu | 98.1 | 98.1 | | 0.3 | 0.3 | | 1.7 | 1.7 | | 42.6 | 42.6 | |
| Ngororero | 94.9 | 94.9 | | 0.9 | 0.9 | | 6.0 | 6.0 | | 29.3 | 29.3 | |
| Rusizi | 90.6 | 90.4 | 100.0 | - | - | - | 9.4 | 8.9 | 33.3 | 50.6 | 49.6 | 100.0 |
| Nyamasheke | 97.0 | 96.9 | 100.0 | 0.2 | 0.2 | - | 5.6 | 4.5 | 62.5 | 58.8 | 59.1 | 37.5 |
| Rulindo | 99.3 | 99.2 | 100.0 | 0.3 | - | 16.7 | 24.7 | 24.6 | 33.3 | 28.4 | 28.3 | 33.3 |
| Gakenke | 97.8 | 97.8 | | 0.2 | 0.2 | | 7.5 | 7.5 | | 32.3 | 32.3 | |
| Musanze | 96.3 | 96.3 | | 0.2 | 0.2 | | 5.7 | 5.7 | | 35.2 | 35.2 | |
| Burera | 93.6 | 93.6 | | 0.6 | 0.6 | | 0.2 | 0.2 | | 10.5 | 10.5 | |
| Gicumbi | 96.0 | 96.0 | 100.0 | - | - | - | 10.2 | 10.2 | - | 26.5 | 26.3 | 100.0 |
| Rwamagana | 95.0 | 95.1 | 92.6 | 0.2 | - | 3.7 | 7.9 | 5.7 | 51.9 | 41.6 | 40.9 | 55.6 |
| Nyagatare | 51.2 | 50.5 | 61.0 | 5.2 | 1.7 | 51.2 | 7.3 | 4.1 | 48.8 | 38.7 | 37.9 | 51.2 |
| Gatsibo | 88.7 | 88.7 | 88.2 | 1.5 | 1.1 | 17.7 | 9.8 | 8.3 | 64.7 | 45.7 | 45.5 | 52.6 |
| Kayonza | 64.7 | 63.4 | 100.0 | 1.6 | 1.2 | 13.3 | 16.1 | 14.1 | 73.3 | 45.0 | 45.2 | 37.5 |
| Kirehe | 79.0 | 78.7 | 100.0 | 0.3 | 0.2 | 11.1 | 12.8 | 11.9 | 77.8 | 45.3 | 45.4 | 40.0 |
| Ngoma | 76.6 | 76.2 | 100.0 | 1.0 | 0.9 | 9.1 | 11.6 | 10.5 | 72.7 | 46.2 | 46.4 | 33.3 |
| Bugesera | 69.7 | 69.0 | 82.4 | 0.9 | 0.7 | 5.9 | 11.3 | 8.8 | 55.9 | 32.4 | 31.4 | 52.8 |
| National | 88.0 | 88.0 | 88.6 | 0.6 | 0.4 | 12.9 | 11.8 | 10.9 | 62.4 | 35.7 | 35.5 | 47.1 |

Source: NISR, SAS 2020

Table 55: Percentage of farmers by agricultural practices in Season C 2020

| District | Farmers who protected land against erosion (%) | | | Farmers who used any mechanical equipment for agriculture activities (%) | | | Farmers who practiced irrigation (%) | | | Farmers who practiced agroforestry (%) | |
|-----------------|--|-------------|-------------|--|------------|------------|--------------------------------------|-------------|-------------|--|-------------|
| | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF | SITE | Overall | SSF |
| Nyarugenge | 77.8 | 58.3 | 89.7 | - | - | - | 69.8 | 50.0 | 82.1 | - | - |
| Gasabo | 88.1 | 88.5 | 88.0 | - | - | - | 93.2 | 88.5 | 94.6 | 9.6 | 9.6 |
| Kicukiro | 89.7 | 100.0 | 87.5 | 1.5 | - | 1.8 | 97.1 | 100.0 | 96.4 | 3.6 | 3.6 |
| Nyanza | 95.1 | 96.4 | 94.8 | - | - | - | 97.2 | 96.4 | 97.4 | 8.5 | 8.5 |
| Gisagara | 100.0 | 100.0 | 100.0 | 0.8 | - | 1.0 | 84.0 | 51.9 | 92.3 | 8.3 | 8.3 |
| Nyaruguru | 99.3 | 100.0 | 99.0 | 0.7 | 2.3 | - | 76.4 | 79.1 | 75.3 | 4.7 | 4.7 |
| Huye | 91.5 | 100.0 | 89.7 | - | - | - | 90.4 | 81.3 | 92.4 | 7.0 | 7.0 |
| Nyamagabe | 96.9 | 100.0 | 95.5 | 1.0 | - | 1.5 | 60.4 | 33.3 | 72.7 | 13.0 | 13.0 |
| Ruhango | 99.0 | 100.0 | 98.6 | - | - | - | 76.2 | 78.1 | 75.4 | 10.4 | 10.4 |
| Muhanga | 96.9 | 90.5 | 98.7 | - | - | - | 88.8 | 57.1 | 97.4 | 7.0 | 7.0 |
| Kamonyi | 99.0 | 96.4 | 100.0 | - | - | - | 94.8 | 85.7 | 98.5 | 4.3 | 4.3 |
| Karongi | 95.2 | 100.0 | 94.3 | - | - | - | 61.9 | 42.9 | 65.7 | 10.0 | 10.0 |
| Rutsiro | 99.2 | 100.0 | 99.1 | 0.9 | - | 0.9 | 34.2 | 66.7 | 31.5 | 29.3 | 29.3 |
| Rubavu | 97.6 | 98.0 | 97.0 | - | - | - | 12.1 | 4.0 | 24.2 | 25.2 | 25.2 |
| Nyabihu | 96.2 | 97.7 | 94.3 | - | - | - | 3.2 | 3.4 | 2.9 | 45.6 | 45.6 |
| Ngororero | 100.0 | 100.0 | 100.0 | 3.0 | - | 4.2 | 3.0 | 11.1 | - | 3.0 | 3.0 |
| Rusizi | 100.0 | 100.0 | | - | - | | 100.0 | 100.0 | | 38.1 | 38.1 |
| Nyamasheke | 97.5 | 94.7 | 98.4 | - | - | - | 90.0 | 79.0 | 93.4 | 44.6 | 44.6 |
| Rulindo | 92.4 | 87.5 | 100.0 | 1.5 | - | 3.9 | 81.8 | 75.0 | 92.3 | 20.6 | 20.6 |
| Gakenke | 92.5 | 91.7 | 92.7 | - | - | - | 72.6 | 58.3 | 77.3 | 20.3 | 20.3 |
| Musanze | 98.1 | 94.7 | 100.0 | - | - | - | 24.8 | 21.1 | 27.0 | 32.5 | 32.5 |
| Burera | 94.8 | 95.8 | 93.9 | 0.5 | 1.0 | - | 12.4 | 1.0 | 21.9 | 23.5 | 23.5 |
| Gicumbi | 98.1 | 91.3 | 100.0 | - | - | - | 65.4 | 78.3 | 61.7 | 9.0 | 9.0 |
| Rwamagana | 91.9 | 84.0 | 93.9 | 0.8 | - | 1.0 | 91.9 | 88.0 | 92.9 | 7.9 | 7.9 |
| Nyagatare | 79.7 | 87.0 | 76.5 | 2.7 | - | 3.9 | 77.0 | 87.0 | 72.6 | 17.7 | 17.7 |
| Gatsibo | 98.5 | 93.3 | 100.0 | 1.5 | 6.7 | - | 85.1 | 73.3 | 88.5 | 13.9 | 13.9 |
| Kayonza | 100.0 | 100.0 | 100.0 | 2.9 | 5.9 | 2.0 | 98.5 | 100.0 | 98.0 | 8.7 | 8.7 |
| Kirehe | 96.8 | 100.0 | 96.4 | 4.0 | - | 4.5 | 96.0 | 100.0 | 95.5 | 33.3 | 33.3 |
| Ngoma | 87.4 | 93.3 | 86.1 | 1.2 | - | 1.4 | 71.3 | 73.3 | 70.8 | 8.8 | 8.8 |
| Bugesera | 83.1 | 92.9 | 81.2 | 1.2 | - | 1.5 | 88.0 | 78.6 | 89.9 | - | - |
| National | 94.6 | 94.5 | 94.6 | 0.7 | 0.5 | 0.8 | 66.9 | 50.8 | 73.2 | 23.4 | 23.4 |

Source: NISR, SAS 2020

Table 56: Irrigation type, per Season and district in 2020 (%)

| District | Modern irrigation | | | | | | | | | | | | | | | Traditional techniques | | |
|-----------------|--------------------|-------------|-------------|------------------|-------------|------------|-----------------|------------|------------|----------------------|------------|------------|------------------|------------|-------------|------------------------|-------------|----------|
| | Surface irrigation | | | Flood irrigation | | | Drip irrigation | | | Sprinkler irrigation | | | Pivot irrigation | | | 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 | 97.8 | 42.9 | - | - | - | - | - | - | - | - | - | 2.0 | - | - | - | 2.2 | 57.1 | 98.0 |
| Gasabo | 0.1 | 4.0 | 26.9 | 0.1 | 12.0 | - | - | - | - | 20.0 | - | - | - | - | - | 99.9 | 64.0 | 73.1 |
| Kicukiro | 34.1 | 44.4 | 32.8 | 0.1 | 11.1 | 0.1 | 22.2 | - | - | - | - | - | - | - | - | 65.7 | 22.2 | 67.2 |
| Nyanza | 6.7 | 11.5 | 13.0 | 14.9 | 30.8 | - | - | - | - | - | - | - | - | - | - | 78.4 | 57.7 | 87.1 |
| Gisagara | - | 24.0 | 33.3 | 6.0 | 60.0 | 0.0 | - | - | - | - | - | 0.9 | - | - | 0.9 | 94.0 | 16.0 | 64.9 |
| Nyaruguru | 100.0 | 20.0 | 14.8 | - | - | - | - | 3.4 | - | - | - | - | - | - | - | - | 80.0 | 81.8 |
| Huye | 0.1 | 4.6 | 13.3 | 0.7 | 81.8 | - | - | - | - | - | - | - | - | - | - | 99.2 | 13.6 | 86.7 |
| Nyamagabe | - | 33.3 | 4.0 | - | - | - | - | - | - | - | - | - | - | - | - | 100.0 | 66.7 | 96.0 |
| Ruhango | 8.0 | - | 6.8 | 12.8 | 67.9 | - | - | 1.4 | - | - | - | 4.1 | - | - | - | 79.2 | 32.1 | 87.8 |
| Muhanga | - | 14.3 | 1.1 | 0.0 | 21.4 | - | - | - | - | - | - | - | - | - | - | 100.0 | 64.3 | 98.9 |
| Kamonyi | 0.0 | 6.7 | - | 0.0 | 6.7 | - | - | - | - | - | - | - | 1.3 | - | - | 98.7 | 86.7 | 100.0 |
| Karongi | - | - | 40.7 | - | - | - | - | - | - | 9.1 | - | - | - | - | - | 100.0 | 90.9 | 59.3 |
| Rutsiro | - | - | 2.7 | - | - | - | - | - | - | - | - | - | - | - | - | 100.0 | 100.0 | 97.3 |
| Rubavu | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100.0 |
| Nyabihu | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100.0 | 100.0 |
| Ngororero | - | 50.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | 100.0 | 50.0 | 100.0 |
| Rusizi | 8.2 | 75.0 | 33.3 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | 91.7 | 25.0 | 66.7 |
| Nyamasheke | 20.0 | - | - | 80.0 | 45.5 | - | - | 2.9 | - | - | - | 4.3 | - | - | - | - | 54.6 | 92.9 |
| Rulindo | 6.4 | - | - | 0.0 | 4.8 | - | - | - | - | 19.1 | - | - | - | - | - | 93.6 | 76.2 | 100.0 |
| Gakenke | 14.1 | - | 10.2 | - | - | - | - | - | - | - | - | - | 12.1 | - | - | 73.7 | 100.0 | 89.8 |
| Musanze | 16.0 | - | 16.7 | - | - | - | - | - | - | - | - | 2.8 | - | - | - | 84.0 | 100.0 | 80.6 |
| Burera | - | - | 8.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 91.3 |
| Gicumbi | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100.0 | 100.0 | 100.0 |
| Rwamagana | 8.2 | 15.8 | 8.4 | 0.1 | 10.5 | 0.1 | 21.1 | - | - | 5.3 | - | - | - | 2.6 | 7.5 | 91.6 | 44.7 | 84.1 |
| Nyagatare | 3.5 | 47.2 | 30.4 | 45.0 | 11.3 | 0.1 | 1.9 | - | 2.4 | 11.3 | - | 0.4 | 18.9 | 12.5 | 48.7 | 9.4 | 57.1 | |
| Gatsibo | 64.1 | 24.1 | - | 0.0 | 13.8 | - | - | - | - | - | 3.4 | - | 3.5 | - | 35.9 | 58.6 | 96.6 | |
| Kayonza | 80.5 | 8.8 | 17.6 | 0.0 | 14.7 | - | - | - | - | - | - | 0.0 | 11.8 | - | 19.4 | 64.7 | 82.4 | |
| Kirehe | 99.6 | 22.0 | 56.2 | 0.1 | 10.0 | - | - | - | 0.1 | 26.0 | 0.8 | 0.2 | 28.0 | - | 0.0 | 14.0 | 43.0 | |
| Ngoma | 19.7 | 33.3 | 21.5 | 0.2 | 46.7 | 0.0 | - | - | - | - | - | - | - | - | 80.2 | 20.0 | 78.5 | |
| Bugesera | 1.2 | 2.0 | 18.9 | 15.4 | 31.4 | 0.0 | 15.7 | - | 0.1 | 5.9 | 27.0 | - | - | - | 83.2 | 45.1 | 54.1 | |
| National | 23.0 | 16.6 | 16.1 | 4.9 | 21.6 | 0.0 | 3.4 | 0.3 | 0.0 | 6.0 | 1.6 | 0.7 | 5.3 | 0.8 | 71.5 | 47.1 | 81.3 | |

Source: NISR, SAS 2020

Table 57: Source of water used for irrigation, per season and district in 2020 (%)

| District | Rainwater | | | Water treatment | | | Underground | | | Lake / streams | | | Water catchment | | |
|-----------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|--------------|-------------|----------------|--------------|--------------|-----------------|--------------|-------------|
| | 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 | 22.22 | 0 | 0 | 11.11 | 12.5 | 1.85 | - | 25 | 38.89 | 44.44 | 37.5 | 59.26 | 22.22 | 25 | 0 |
| Gasabo | 0 | 0 | 0 | 0 | 4 | 0 | 18.18 | 16 | 42.22 | 72.73 | 76 | 51.11 | 9.09 | 4 | 6.67 |
| Kicukiro | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18.18 | 4.84 | 90 | 63.64 | 95.16 | 10 | 18.18 | 0 |
| Nyanza | 0 | 0 | 0 | 5 | 0 | 0 | 50 | 18.52 | 32.14 | 35 | 70.37 | 67.14 | 10 | 11.11 | 0.71 |
| Gisagara | 0 | 0 | 0 | 5.26 | 0 | 0 | 52.63 | 53.57 | 76.72 | 36.84 | 39.29 | 15.52 | 5.26 | 7.14 | 7.76 |
| Nyaruguru | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 42.86 | 100 | 80 | 57.14 | 0 | 0 | 0 |
| Huye | 3.33 | 3.33 | 0 | 0 | 3.33 | 0 | 13.33 | 23.33 | 41.33 | 70 | 56.67 | 58 | 13.33 | 13.33 | 0.67 |
| Nyamagabe | 0 | 0 | 0 | 0 | 33.33 | 0 | 0 | 0 | 64.71 | 100 | 66.67 | 35.29 | 0 | 0 | 0 |
| Ruhango | 5.26 | 6.25 | 0 | 10.53 | 6.25 | 0 | 47.37 | 25 | 46.05 | 31.58 | 59.38 | 51.32 | 5.26 | 3.13 | 2.63 |
| Muhanga | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 62.5 | 73.91 | 30 | 25 | 26.09 | 20 | 12.5 | 0 |
| Kamonyi | 0 | 3.03 | 0 | 3.85 | 9.09 | 0 | 46.15 | 39.39 | 50.51 | 26.92 | 42.42 | 30.3 | 23.08 | 6.06 | 19.19 |
| Karongi | 0 | 0 | 0 | 0 | 0 | 0 | 33.33 | 90.91 | 40.74 | 33.33 | 9.09 | 59.26 | 33.33 | 0 | 0 |
| Rutsiro | 0 | 0 | 0 | 0 | 0 | 0 | 66.67 | 100 | 59.46 | 33.33 | 0 | 40.54 | 0 | 0 | 0 |
| Rubavu | | | 0 | | | 0 | | | 88.89 | | | 11.11 | | | 0 |
| Nyabihu | | 0 | 0 | | 100 | 0 | | 0 | 66.67 | | 0 | 33.33 | | 0 | 0 |
| Ngororero | 0 | 0 | 0 | 0 | 18.18 | 0 | 9.09 | 45.45 | 100 | 81.82 | 27.27 | 0 | 9.09 | 9.09 | 0 |
| Rusizi | 4.55 | 0 | 0 | 13.64 | 0 | 0 | 27.27 | 0 | 33.33 | 54.55 | 100 | 66.67 | 0 | 0 | 0 |
| Nyamasheke | 0 | 0 | 0 | 0 | 9.09 | 0 | 20 | 27.27 | 25.35 | 80 | 63.64 | 74.65 | 0 | 0 | 0 |
| Rulindo | 0 | 0 | 0 | 0 | 0 | 22.22 | 8.33 | 47.62 | 64.44 | 91.67 | 47.62 | 13.33 | 0 | 4.76 | 0 |
| Gakenke | 0 | 0 | 0 | 0 | 0 | 0 | 37.5 | 44.44 | 13.13 | 62.5 | 55.56 | 86.87 | 0 | 0 | 0 |
| Musanze | 25 | 0 | 2.78 | 0 | 11.11 | 8.33 | 50 | 33.33 | 8.33 | 25 | 55.56 | 80.56 | 0 | 0 | 0 |
| Burera | | | 0 | | | 0 | | | 21.74 | | | 78.26 | | | 0 |
| Gicumbi | 33.33 | 0 | 0 | 0 | 0 | 0 | 66.67 | 0 | 22.73 | 0 | 100 | 77.27 | 0 | 0 | 0 |
| Rwamagana | 8.82 | 2.63 | 1.82 | 17.65 | 7.89 | 0 | 8.82 | 7.89 | 30 | 38.24 | 60.53 | 50.91 | 26.47 | 21.05 | 17.27 |
| Nyagatare | 18.18 | 16.42 | 1.75 | 2.27 | 4.48 | 0 | 4.55 | 14.93 | 19.3 | 47.73 | 37.31 | 73.68 | 27.27 | 26.87 | 5.26 |
| Gatsibo | 0 | 9.68 | 4.35 | 0 | 0 | 2.9 | 58.33 | 51.61 | 40.58 | 8.33 | 9.68 | 50.72 | 33.33 | 29.03 | 1.45 |
| Kayonza | 0 | 0 | 0 | 0 | 0 | 0 | 51.72 | 41.67 | 17.86 | 44.83 | 52.78 | 55.95 | 3.45 | 5.56 | 26.19 |
| Kirehe | 0 | 0 | 1.59 | 0 | 3.92 | 0 | 32 | 13.73 | 35.71 | 68 | 80.39 | 38.89 | 0 | 1.96 | 23.81 |
| Ngoma | 5.56 | 0 | 0 | 27.78 | 13.33 | 0 | 55.56 | 46.67 | 0 | 5.56 | 40 | 100 | 5.56 | 0 | 0 |
| Bugesera | 1.54 | 5.45 | 7.59 | 0 | 0 | 0 | 23.08 | 27.27 | 30.38 | 61.54 | 58.18 | 56.96 | 13.85 | 9.09 | 5.06 |
| National | 4.37 | 3.61 | 0.71 | 4.59 | 4.26 | 0.76 | 28.6 | 29.51 | 37.9 | 49.78 | 52.13 | 54.92 | 12.66 | 10.49 | 5.71 |

Source: NISR, SAS 2020

Table 58: Type of anti-erosion activities, per season and district in 2020 (%)

| District | Ditches | | | Trees/Windbreak/ shelterbelt | | | Bench/Radical terraces | | | Progressive terraces | | | Cover plants | | | Water drainage | | | Mulching | | | Beds/ridges | | | Water channels | | | Others | | |
|-----------------|-------------|------------|------------|---------------------------------|------------|------------|---------------------------|------------|------------|-------------------------|------------|------------|--------------|-------------|-------------|----------------|------------|------------|------------|------------|------------|-------------|------------|-------------|----------------|------------|-------------|------------|------------|------------|
| | 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 | 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 | 16.19 | 5.0 | - | 14.3 | 5.5 | - | - | - | - | 8.1 | 15.9 | - | 44.3 | 44.5 | 5.9 | - | 1.7 | 41.2 | 6.7 | 12.1 | 23.5 | 9.5 | 11.0 | 11.8 | 0.5 | 4.4 | 17.7 | 0.5 | - | - |
| Gasabo | 5.58 | 3.4 | - | 10.6 | 11.0 | - | 1.1 | 0.7 | - | 3.7 | 7.4 | 1.9 | 56.1 | 50.5 | 19.2 | 12.3 | 15.0 | 5.8 | 0.7 | 1.7 | 7.7 | 3.7 | 0.9 | 3.9 | 2.6 | 4.0 | 61.5 | 3.5 | 5.5 | - |
| Kicukiro | 11.98 | 5.4 | 5.6 | 11.5 | 9.5 | - | 2.1 | 1.4 | - | 1.0 | 3.4 | - | 26.0 | 16.3 | - | 14.1 | 15.0 | - | 7.3 | 12.9 | 5.6 | 12.5 | 6.8 | 44.4 | 8.3 | 27.2 | 44.4 | 5.2 | 2.0 | - |
| Nyanza | 4.56 | 11.0 | - | 3.3 | 10.9 | 5.7 | 3.5 | 2.9 | 8.0 | 23.5 | 6.7 | 3.4 | 48.1 | 46.2 | 22.7 | 8.7 | 11.7 | 5.7 | 0.5 | 0.2 | - | 1.7 | 3.4 | 22.7 | 5.4 | 4.1 | 29.6 | 0.8 | 2.9 | 2.3 |
| Gisagara | 4.46 | 4.9 | 2.3 | 3.3 | 2.3 | - | 2.0 | 2.0 | 1.2 | 4.7 | 3.5 | 1.2 | 30.9 | 32.7 | 8.1 | 38.9 | 36.9 | 25.3 | 0.3 | 0.8 | - | 2.1 | 2.5 | 25.3 | 6.4 | 5.6 | 36.8 | 7.0 | 8.7 | - |
| Nyaruguru | 6.99 | 6.8 | 5.9 | 8.8 | 7.6 | 1.7 | 2.3 | 4.3 | 0.9 | 17.8 | 14.6 | - | 47.2 | 50.1 | 22.0 | 6.6 | 5.1 | 6.8 | 1.5 | 1.6 | 0.9 | 1.2 | 0.3 | 0.9 | 7.5 | 9.8 | 61.0 | - | - | - |
| Huye | 5.54 | 4.9 | 5.3 | 6.6 | 8.2 | 1.1 | 2.6 | 2.1 | - | 7.6 | 12.1 | 6.3 | 35.9 | 33.8 | 16.8 | 29.9 | 25.0 | 2.1 | 1.1 | 1.2 | 1.1 | 1.5 | 1.0 | 11.6 | 3.3 | 4.8 | 55.8 | 6.0 | 7.1 | - |
| Nyamagabe | 9.3 | 5.1 | 4.8 | 2.8 | 2.6 | - | 10.6 | 10.9 | 1.2 | 15.4 | 20.3 | - | 54.9 | 54.2 | 22.6 | 0.2 | 1.1 | 22.6 | 1.6 | 1.8 | 1.2 | 1.2 | 0.3 | 2.4 | 4.0 | 3.7 | 45.2 | - | - | - |
| Ruhango | 6.87 | 8.9 | 1.8 | 2.0 | 3.9 | 2.7 | 0.2 | 0.5 | - | 21.8 | 14.9 | - | 50.6 | 50.1 | 27.9 | 8.4 | 10.7 | 3.6 | 1.0 | 0.6 | 0.9 | 1.6 | 0.8 | 36.9 | 7.0 | 7.1 | 26.1 | 0.5 | 2.5 | - |
| Muhanga | 9.37 | 6.1 | - | 9.2 | 5.5 | - | 3.5 | 3.3 | - | 4.6 | 3.4 | - | 51.9 | 58.0 | 33.9 | 7.3 | 4.6 | - | 5.4 | 8.0 | 1.6 | 2.3 | 2.2 | 17.7 | 3.1 | 3.9 | 46.8 | 3.6 | 5.1 | - |
| Kamonyi | 8.25 | 4.9 | 1.3 | 3.7 | 5.5 | - | 0.7 | 0.1 | - | 13.2 | 5.6 | 9.2 | 50.2 | 60.9 | 26.3 | 11.9 | 6.8 | - | 1.9 | 4.1 | - | 1.8 | 3.3 | 9.2 | 5.5 | 4.1 | 54.0 | 2.8 | 4.7 | - |
| Karongi | 13.25 | 20.8 | 15.0 | 10.2 | 4.8 | 1.7 | 5.0 | 4.7 | - | 1.5 | 6.5 | 8.3 | 59.5 | 53.5 | 28.3 | - | 1.0 | - | 0.5 | 0.8 | 3.3 | 0.5 | 0.8 | 5.0 | 9.7 | 7.1 | 38.3 | - | - | - |
| Rutsiro | 6.78 | 7.4 | 7.7 | 9.0 | 11.9 | - | 5.4 | 5.9 | - | 6.4 | 11.5 | 2.6 | 64.6 | 55.7 | 59.0 | 0.9 | - | - | 4.1 | 4.2 | 5.1 | 0.5 | - | 10.3 | 2.4 | 3.4 | 15.4 | - | - | - |
| Rubavu | 1.67 | 2.4 | 4.3 | 5.5 | 3.4 | 11.2 | 4.8 | 5.1 | 7.9 | 2.9 | 5.1 | 1.2 | 22.7 | 23.1 | 19.8 | - | - | - | - | 1.2 | 1.9 | 62.4 | 59.6 | 50.2 | - | - | 3.6 | - | - | - |
| Nyabihu | 0.17 | 0.5 | 4.4 | 8.7 | 8.0 | 3.1 | 16.6 | 16.0 | 19.5 | 8.3 | 15.8 | 5.6 | 47.9 | 43.9 | 48.4 | - | - | - | 0.5 | 0.2 | 0.4 | 17.2 | 15.1 | 17.7 | 0.7 | 0.6 | 1.0 | - | - | - |
| Ngororero | 9.19 | 4.3 | - | 5.3 | 2.5 | - | 5.8 | 7.7 | 7.1 | 3.8 | 1.5 | 3.6 | 67.4 | 73.0 | 60.7 | - | 0.6 | - | 2.3 | 4.2 | - | 0.6 | 1.4 | 10.7 | 5.4 | 4.8 | 17.9 | 0.2 | - | - |
| Rusizi | 11.58 | 13.6 | 23.8 | 20.5 | 20.1 | 28.6 | 0.2 | 0.2 | - | 10.7 | 7.2 | - | 40.6 | 53.0 | 23.8 | 9.1 | 1.5 | 9.5 | 1.9 | 1.5 | 9.5 | 3.5 | 1.8 | - | 1.7 | 1.2 | 4.8 | 0.3 | - | - |
| Nyamashake | 6.81 | 8.9 | 2.7 | 15.5 | 10.5 | 20.3 | 2.5 | 2.7 | 6.8 | 1.9 | 4.4 | 2.7 | 60.4 | 56.5 | 20.3 | 6.0 | 7.5 | 6.8 | 2.5 | 5.5 | - | 0.4 | 1.2 | 18.9 | 3.5 | 2.6 | 21.6 | 0.5 | 0.3 | - |
| Rulindo | 15.9 | 16.8 | - | 7.2 | 5.5 | - | 11.9 | 12.5 | 6.2 | 4.9 | 2.1 | - | 48.5 | 50.4 | 33.9 | 0.7 | 2.6 | 15.4 | 0.4 | 0.4 | - | 2.9 | 2.4 | 10.8 | 4.4 | 6.7 | 33.9 | 3.3 | 0.7 | - |
| Gakenke | 2.92 | 3.7 | 1.1 | 1.8 | 2.4 | 9.6 | 4.4 | 4.5 | 1.1 | 5.5 | 4.6 | 2.1 | 78.0 | 74.5 | 48.9 | - | 0.3 | 8.5 | 1.5 | 5.7 | 1.1 | 0.6 | 1.5 | 6.4 | 5.4 | 2.9 | 21.3 | - | - | - |
| Musanze | 0.53 | 0.2 | 2.0 | 4.6 | 0.7 | 3.2 | 7.9 | 7.0 | 5.5 | 1.9 | 4.2 | 1.7 | 33.1 | 30.9 | 31.1 | 1.8 | 3.3 | 2.2 | 1.1 | - | 1.2 | 46.8 | 51.8 | 51.3 | 2.5 | 1.9 | 1.8 | - | - | 0.2 |
| Burera | 0.5 | 0.2 | 3.0 | 6.1 | 6.3 | 4.4 | 3.6 | 3.6 | 4.1 | 18.0 | 12.4 | 9.4 | 52.2 | 56.0 | 50.9 | - | 0.5 | 0.6 | 0.3 | 0.2 | 0.4 | 15.7 | 17.0 | 21.0 | 3.6 | 3.9 | 6.3 | 0.1 | - | - |
| Gicumbi | 0.46 | 0.3 | - | 1.8 | 0.5 | 1.9 | 15.1 | 14.9 | - | 12.3 | 19.8 | - | 65.4 | 59.2 | 39.6 | 0.7 | 0.1 | - | 0.8 | 0.4 | 1.9 | 0.1 | 0.1 | 11.3 | 3.3 | 4.8 | 45.3 | - | - | - |
| Rwamagana | 10.17 | 9.3 | - | 7.0 | 6.7 | - | 5.0 | 4.6 | - | 5.5 | 10.6 | - | 53.0 | 46.4 | 11.1 | 6.9 | 6.1 | 11.1 | 2.6 | 4.9 | - | 2.2 | 3.1 | - | 0.3 | 0.4 | 77.8 | 7.4 | 7.9 | - |
| Nyagatare | 21.32 | 17.3 | 1.5 | 10.6 | 1.8 | - | - | 0.3 | - | 2.6 | 4.4 | 1.5 | 33.8 | 33.9 | 7.7 | 22.2 | 26.9 | 43.1 | 1.7 | 5.9 | 1.5 | 2.4 | 4.2 | 9.2 | 2.6 | 2.6 | 35.4 | 2.9 | 2.6 | - |
| Gatsibo | 3.08 | 1.7 | 1.2 | 6.3 | 7.0 | - | 2.3 | 2.2 | - | 4.9 | 11.0 | - | 65.4 | 45.7 | 28.6 | 12.2 | 14.7 | 16.7 | 1.5 | 9.5 | 2.4 | 1.6 | 3.9 | 2.4 | 2.4 | 3.8 | 48.8 | 0.3 | 0.5 | - |
| Kayanza | 10.8 | 8.3 | - | 3.3 | 1.4 | - | 12.7 | 10.3 | - | 1.4 | 0.2 | - | 39.9 | 34.4 | 8.1 | 15.5 | 23.9 | 21.6 | 3.6 | 5.1 | 21.6 | 1.7 | 5.5 | 5.4 | 11.1 | 7.8 | 43.2 | - | 3.2 | - |
| Kirehe | 14.82 | 9.8 | 4.8 | 8.9 | 3.1 | 2.4 | 1.0 | 0.1 | - | 9.6 | 0.3 | - | 35.2 | 52.2 | 35.7 | 20.3 | 23.6 | 14.3 | 7.1 | 7.0 | 7.1 | 1.5 | 0.3 | 16.7 | 1.2 | 0.8 | 19.1 | 0.5 | 2.8 | - |
| Ngoma | 5.46 | 4.6 | - | 2.7 | 2.9 | 15.4 | 3.9 | 4.6 | - | 8.5 | 2.6 | - | 48.9 | 46.1 | 3.9 | 22.6 | 26.8 | 3.9 | 5.4 | 10.4 | - | 0.9 | 1.1 | - | 1.5 | 0.8 | 76.9 | 0.1 | 0.1 | - |
| Bugesera | 19.57 | 16.8 | - | 9.1 | 8.2 | - | 0.1 | 1.2 | - | 4.4 | 5.1 | - | 37.4 | 34.8 | 11.1 | 17.4 | 19.6 | - | 3.5 | 4.8 | 5.6 | 6.0 | 3.7 | 22.2 | 2.1 | 3.1 | 61.1 | 0.4 | 2.8 | - |
| National | 7.86 | 7.2 | 3.2 | 6.8 | 5.9 | 4.3 | 4.5 | 4.8 | 6.0 | 8.7 | 8.4 | 3.7 | 50.0 | 49.3 | 33.8 | 9.5 | 9.6 | 4.5 | 2.1 | 3.5 | 1.5 | 5.1 | 5.2 | 25.1 | 3.8 | 4.0 | 18.0 | 1.6 | 2.2 | 0.1 |

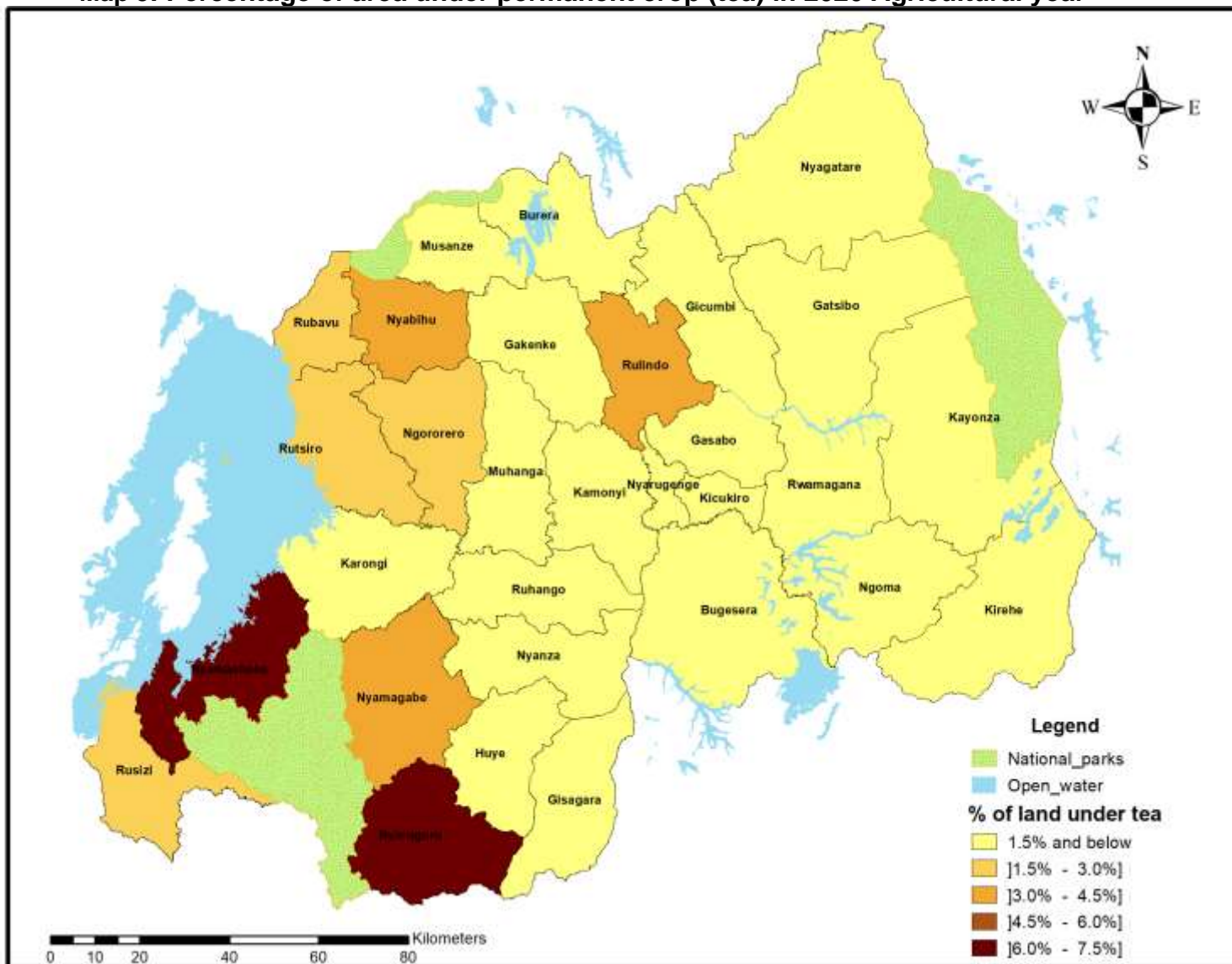
Table 59 : Degree of erosion, per season and district in 2020 (%)

| District | Severe (Rill erosion, Gully erosion, Mass movement/Landslides) | | | Moderate (Diffuse overland flow erosion, overland flow erosion) | | | Low (wind erosion) | | | Very Low (splash erosion) | | |
|-----------------|--|------------|------------|---|-------------|------------|--------------------|-------------|-------------|---------------------------|-------------|-------------|
| | 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 | 0.7 | 0.3 | - | 8.9 | 6.2 | - | 35.6 | 39.1 | 10.0 | 54.8 | 54.4 | 90.0 |
| Gasabo | 1.7 | 5.5 | 6.6 | 5.2 | 13.2 | 50.3 | 10.4 | 8.5 | 40.1 | 82.7 | 72.8 | 2.9 |
| Kicukiro | 1.1 | 0.8 | - | 5.0 | 4.0 | 4.9 | 31.4 | 22.8 | 60.9 | 62.6 | 72.4 | 34.2 |
| Nyanza | 3.7 | 5.6 | 6.3 | 33.3 | 15.5 | 15.5 | 43.0 | 17.4 | 10.7 | 20.0 | 61.5 | 67.5 |
| Gisagara | 1.3 | 0.3 | - | 2.1 | 2.6 | 7.3 | 5.5 | 0.4 | 3.9 | 91.1 | 96.6 | 88.8 |
| Nyaruguru | 0.4 | 0.9 | - | 8.5 | 6.1 | 2.8 | 20.5 | 40.5 | 70.3 | 70.5 | 52.5 | 27.0 |
| Huye | 0.6 | 0.0 | 0.7 | 5.3 | 5.4 | 8.9 | 22.5 | 27.7 | 15.9 | 71.6 | 66.9 | 74.5 |
| Nyamagabe | 8.5 | 8.7 | 0.4 | 25.4 | 13.5 | - | 34.1 | 23.3 | 6.1 | 32.0 | 54.5 | 93.5 |
| Ruhango | 2.2 | 2.0 | 0.9 | 18.4 | 26.2 | 19.3 | 32.6 | 30.8 | 29.5 | 46.7 | 41.0 | 50.4 |
| Muhanga | 1.4 | 9.5 | - | 16.8 | 23.4 | 2.5 | 37.1 | 46.8 | 66.1 | 44.7 | 20.3 | 31.5 |
| Kamonyi | 1.1 | 3.2 | - | 14.6 | 12.7 | - | 40.0 | 62.8 | 20.7 | 44.3 | 21.3 | 79.4 |
| Karongi | 1.3 | 0.3 | 0.0 | 12.0 | 17.4 | - | 40.5 | 52.6 | 0.3 | 46.2 | 29.7 | 99.7 |
| Rutsiro | 3.9 | 7.1 | 0.1 | 13.9 | 6.0 | 53.6 | 41.6 | 48.9 | 29.8 | 40.6 | 38.0 | 16.5 |
| Rubavu | 2.6 | 3.3 | 1.9 | 5.5 | 4.6 | 7.0 | 31.1 | 29.7 | 20.3 | 60.7 | 62.4 | 70.8 |
| Nyabihu | 1.9 | 9.5 | 8.3 | 11.4 | 15.0 | 17.2 | 33.9 | 28.8 | 39.3 | 52.8 | 46.6 | 35.3 |
| Ngororero | 5.7 | 11.6 | 0.1 | 14.1 | 15.3 | 0.0 | 47.5 | 43.7 | 15.3 | 32.7 | 29.4 | 84.6 |
| Rusizi | 8.1 | 2.2 | - | 13.1 | 26.2 | - | 22.0 | 45.1 | - | 56.8 | 26.6 | 100.0 |
| Nyamasheke | 0.8 | 1.6 | - | 9.4 | 1.8 | 15.1 | 20.5 | 4.6 | 0.0 | 69.4 | 92.0 | 84.9 |
| Rulindo | 2.0 | 8.4 | - | 10.6 | 16.6 | - | 24.9 | 19.9 | 55.2 | 62.6 | 55.1 | 44.8 |
| Gakenke | 1.4 | 12.8 | - | 21.0 | 36.3 | 5.2 | 71.2 | 37.2 | 46.6 | 6.4 | 13.7 | 48.1 |
| Musanze | 0.0 | 4.2 | 1.8 | 6.0 | 7.5 | 2.7 | 38.7 | 33.5 | 28.1 | 55.2 | 54.8 | 67.4 |
| Burera | 1.5 | 3.1 | 1.7 | 18.6 | 3.8 | 1.5 | 44.3 | 22.9 | 25.8 | 35.6 | 70.2 | 70.9 |
| Gicumbi | 1.2 | 3.6 | - | 10.8 | 4.6 | 22.6 | 17.3 | 27.5 | 12.4 | 70.7 | 64.3 | 65.0 |
| Rwamagana | 0.0 | 0.5 | 1.5 | 1.1 | 0.7 | 11.4 | 25.2 | 3.6 | 47.8 | 73.7 | 95.2 | 39.2 |
| Nyagatare | 0.8 | 3.0 | 29.0 | 7.1 | 11.3 | 7.3 | 11.9 | 21.4 | 10.3 | 80.1 | 64.3 | 53.4 |
| Gatsibo | 1.2 | 1.4 | 0.0 | 14.2 | 13.2 | 0.0 | 28.6 | 49.4 | 14.2 | 56.0 | 36.0 | 85.8 |
| Kayonza | 2.2 | 1.4 | - | 14.7 | 7.0 | 0.0 | 26.2 | 26.3 | 5.3 | 57.0 | 65.4 | 94.7 |
| Kirehe | 0.4 | 1.8 | 0.2 | 6.5 | 3.4 | 20.3 | 38.7 | 23.3 | 68.2 | 54.3 | 71.6 | 11.4 |
| Ngoma | 0.0 | 0.2 | - | 6.0 | 8.9 | 0.0 | 54.3 | 25.9 | 11.9 | 39.6 | 65.0 | 88.1 |
| Bugesera | 0.8 | 3.1 | - | 17.2 | 1.4 | 3.6 | 13.9 | 15.1 | 24.6 | 68.0 | 80.5 | 71.8 |
| National | 2.1 | 4.3 | 2.5 | 12.9 | 12.1 | 8.6 | 32.9 | 30.5 | 29.9 | 51.9 | 53.1 | 59.0 |

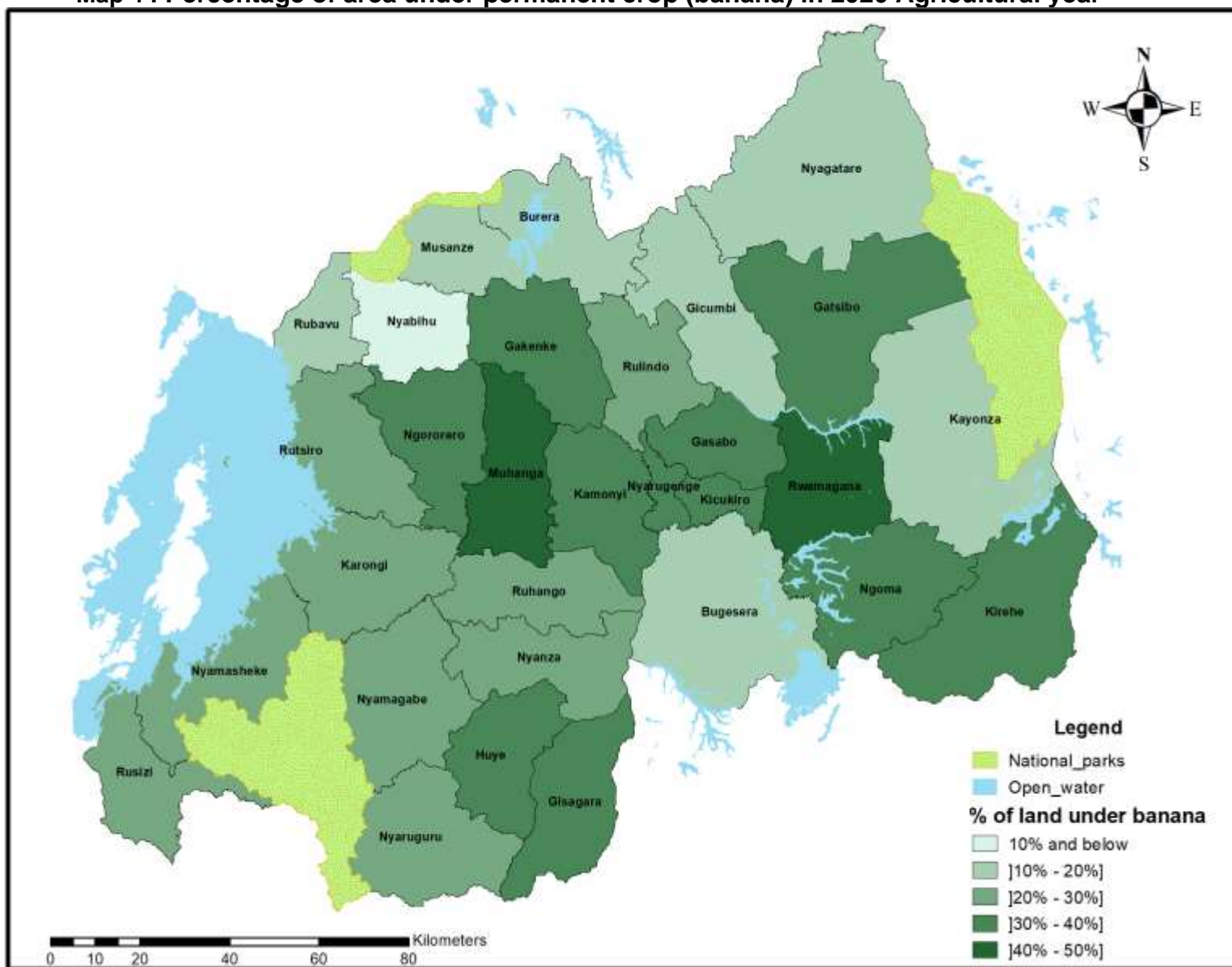
Source: NISR, SAS 2020

ANNEX

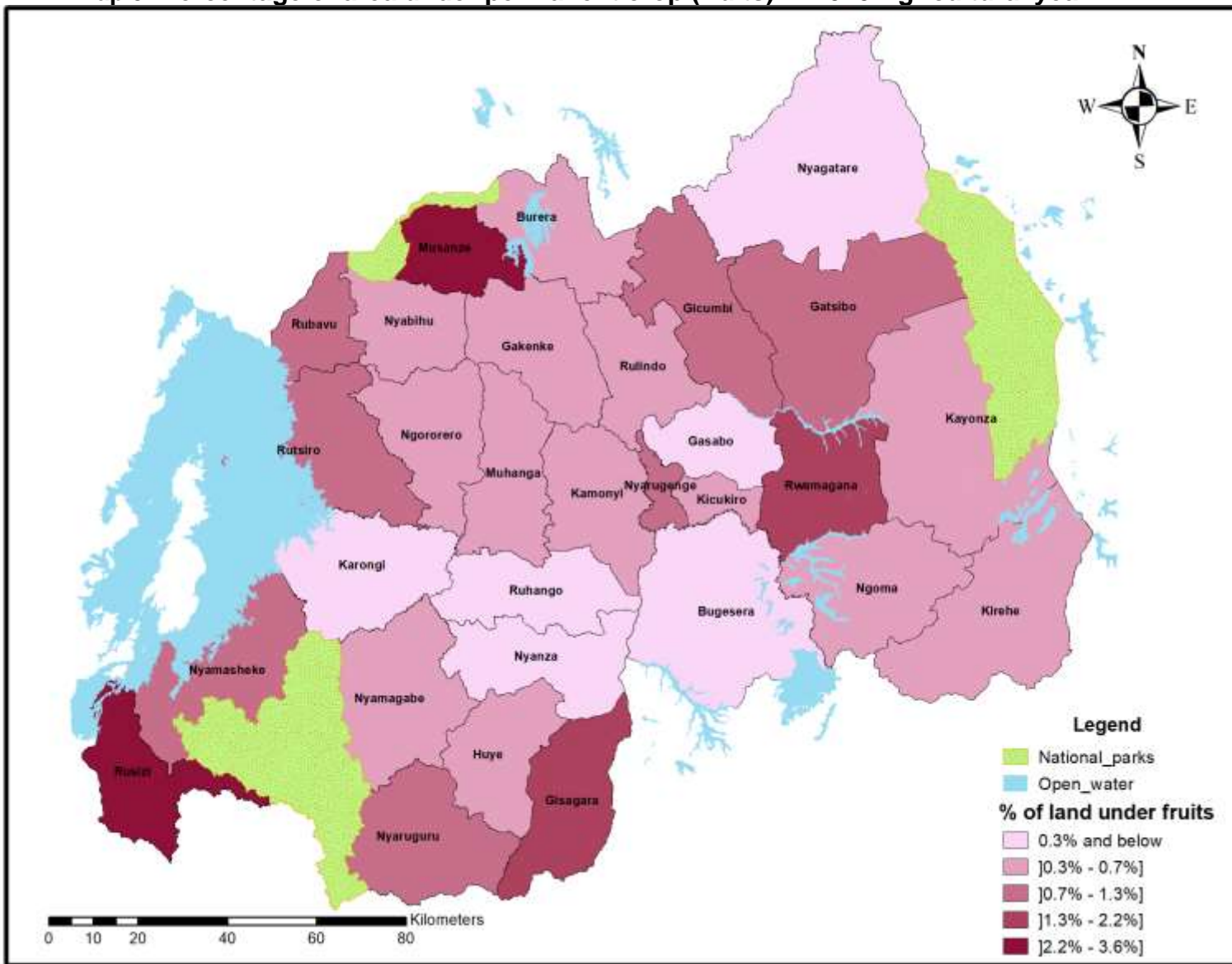
Map 3: Percentage of area under permanent crop (tea) in 2020 Agricultural year



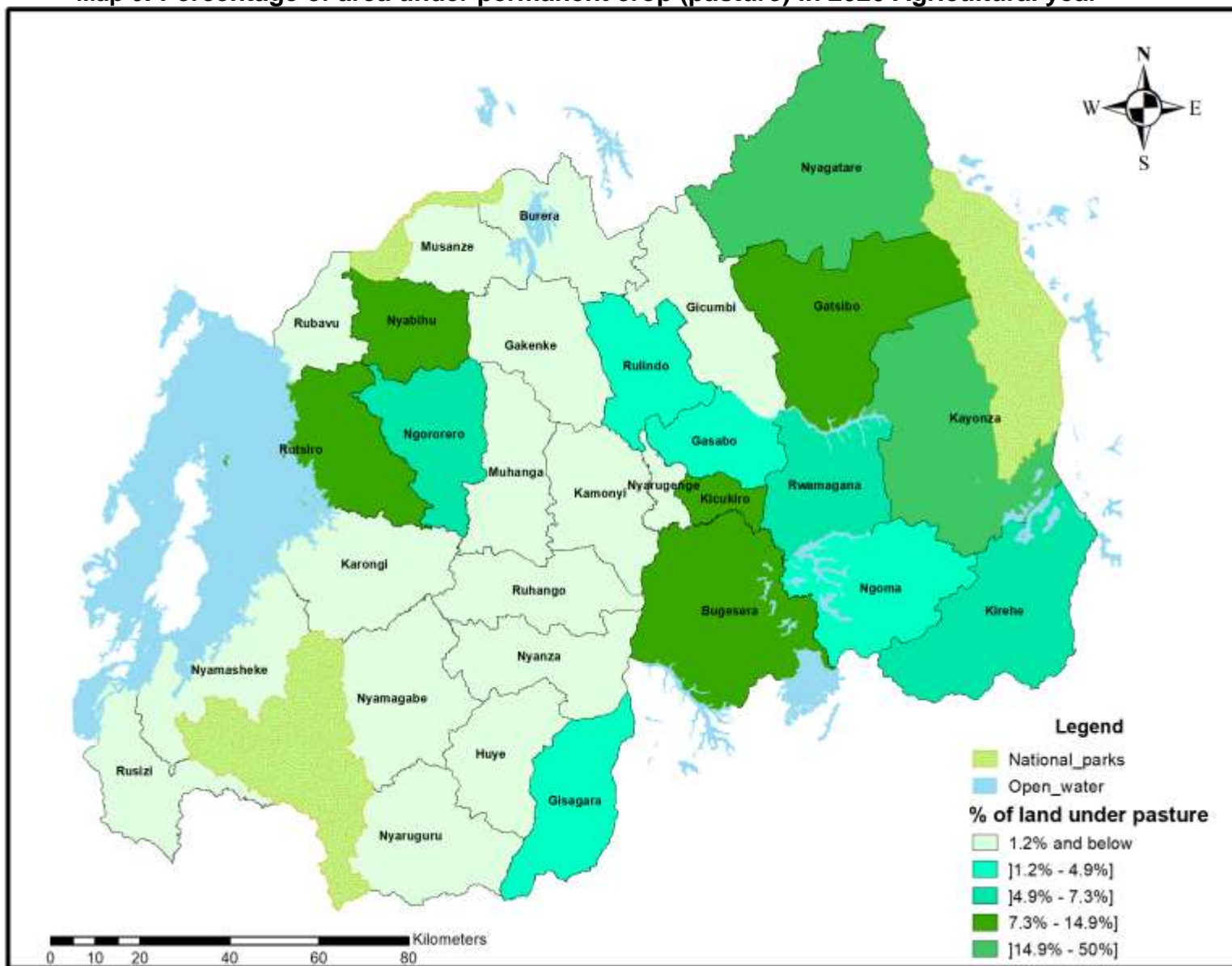
Map 4 : Percentage of area under permanent crop (banana) in 2020 Agricultural year



Map 5: Percentage of area under permanent crop (fruits) in 2020 Agricultural year



Map 6: Percentage of area under permanent crop (pasture) in 2020 Agricultural year



STAFF WHO CONTRIBUTED TO THE UPGRADED SEASONAL AGRICULTURAL SURVEY 2020

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