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SEASONAL AGRICULTURAL SURVEY ANNUAL REPORT 2019



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Additional information about Seasonal Agricultural Survey 2019 report may be obtained from NISR.

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FOREWORD

The National Institute of Statistics of Rwanda (NISR), in partnership with the Ministry of Agriculture and Animal Resources (MINAGRI), conduct Seasonal Agricultural Survey (SAS). SAS provides key agriculture statistics which include agricultural land use, crop area, yield, production, agricultural inputs, agricultural practices and other agricultural items. These data are crucial to the government of Rwanda for monitoring progress of the agriculture programs and policies as well as addressing key agricultural issues and provides information to policy makers and other stakeholders. SAS 2019 covered all three agricultural seasons (A, B and C). Results of SAS 2019 indicate the substantial progress in area under cultivation and production of some crops, comparing to previous agricultural years.

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

I acknowledge the NISR core technical team for their excellent work, and extend my special gratitude to other partners for their great role in 2018/2019 Seasonal Agricultural Survey.


Yusuf MURANGWA
Director General, NISR



EXECUTIVE SUMMARY

This is the consolidated report for 2019 Seasonal Agricultural Survey (SAS). National Institute of Statistics of Rwanda (NISR) conducted SAS in 2018/2019 agricultural year following Rwanda 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 small agricultural season mainly for vegetables and sweet potato grown in swamps and Irish potato grown in volcanic agro-ecological zone.

This report presents main findings related to:

1. Land use:

- Agricultural land: includes land already used for farming and land that can be brought back into cultivation (fallow or pasture land). Agricultural land indicates land potential for agriculture.
- 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 with crops. It is synonymous with cropland;
- Pasture land: 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

SAS 2019 results estimate agricultural land at 1.4 million hectares (59% of total country land), from which 1.14 million of hectares was arable land. In 2018/2019 agricultural year the physical crop cultivated land was 1.1 (79% of total agricultural land), and increased by 16.8 % comparing to 2017/2018 agricultural year. Out of physical cultivated area, 1 million hectares was used for seasonal crops while 0.5 million hectares of land was under permanent crops.

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

Crop area

SAS 2019 results indicate that, comparing with Season A 2018 area estimates, in season A 2019 there was an increase of cultivated area for sorghum (12.2%), wheat (22.2%), sweat potato(11.6%), yams and taro(11.3%), banana(13.4%), bean (4.3%), pea(16.8%), groundnut(16.9%), soybean (8.8%). The decrease of cultivated area was reported on maize (1.4%). Cassava cultivated area remained slightly the same. In season B 2019, crops that increased in cultivated area are sorghum (12.3%), paddy rice (8.9%), sweat potato (1.2%), banana (1.7%) and bean (4.8%). There was a slight decrease of area under cultivation for maize (-0.5%), cassava (-0.5%), and high decrease on Irish potato (-18.8%), yams and taro (-19.8%), pea (-35.4%), groundnuts (-4.7%) and soybean (-29.2%).

Crop production

In 2018/2019 agricultural year there was the increase of 5% of annual crop production comparing with 2017/2018 agricultural year 2018. There was a slight decrease of annual production for maize (-1%) and bean (-0.3%), while there was a great increase of annual production for paddy rice (15.5%) and wheat (16.4%).

Crop yield

As indicated by SAS 2019 results, the annual average yield for of main crops in Rwanda were: 1.46 t/ha for maize, 0.99 t/ha for sorghum, 4 t/ha for paddy rice, 1.19 t/ha for wheat, 14.8t/ha for cassava , 6.78/ha for sweet potato, 9.05t/ha for Irish potato , 6.10 t/ha for yams and taro, 18.04 t/ha for cooking banana, 12.79 t/ha for desert banana, 8.67 t/ha for banana for beer , 11.77 t/ha for banana as whole, 0.83 t/ha for bean, 0.62 t/ha for groundnut, 0.53 t/ha for pea, 0.53 t/ha for soybean, 10.39 t/ha for vegetables and 6.37 t/ha fruits.

Use of inputs

Findings from SAS 2019 illustrate that in 2018/2019 agricultural year, 17.1% of farmers used improved seeds, 55.7% used organic fertilizers, 24.6% inorganic fertilizers and 16.1% used pesticides. Most of improved seed come from agro-dealers. Improved seeds were used mostly for crops such as vegetables, fruits, paddy rice, wheat and maize. DAP, UREA and NPK are inorganic fertilizers mostly used in 2019 agricultural year. Dithane, Cypermethrin and Rocket were reported as most used pesticides in 2019.

Agricultural practices

SAS 2019 results also show that 3.3% of farmers practiced irrigation and 24% of cultivated land was protected against erosion.

Sowing dates

SAS 2019 Season A results indicate that 31.7 % of crops were sown before September 2018(those crops include mostly banana, cassava, taro and rice), 32.4 % of crops were sown September 2018, 23.3.0 % in October 2018 while the rest of crops have been sown after October 2018. For 2019 season B, 30.9 % of the crops have been sown before January 2019, 11.4 % in January 2019, 26.9 % in February 2019, 26.1 % in March 2019 while the rest was sown after 31/3/ 2019. For Season C 2018, 35.1 % of crops were grown in June 2019 and 31.6 % in July 2019.

The main highlights (key summary indicators) are described below.

Summary of Seasonal Agricultural Survey main indicators

| SAS main indicators | SAS 2017 | | | SAS 2018 | | | SAS 2019 | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| 1 Cultivated area for major crops (Ha) | | | | | | | | | |
| Maize | 210,609 | 85,130 | - | 218,179 | 78,151 | - | 215,159 | 73,139 | - |
| Sorghum | 29,702 | 112,694 | - | 27,151 | 116,986 | - | 30,467 | 131,383 | - |
| Paddy rice | 16,922 | 17,283 | - | 16,938 | 16,739 | - | 14,671 | 18,225 | - |
| Wheat | 3,313 | 7,448 | - | 4,490 | 7,735 | - | 5,487 | 7,747 | - |
| Cassava | 219,845 | 164,529 | - | 194,717 | 188,485 | - | 195,135 | 187,511 | - |
| Sweet potato | 87,725 | 85,200 | 7,609 | 87,456 | 79,983 | 5,683 | 97,639 | 80,919 | 5,331 |
| Irish potato | 38,351 | 45,923 | 8,526 | 50,836 | 60,644 | 7,740 | 49,728 | 49,244 | 8,618 |
| Yams & Taro | 35,321 | 22,028 | - | 11,406 | 19,287 | - | 12,695 | 15,469 | - |
| Banana | 237,849 | 226,472 | - | 224,053 | 232,420 | - | 253,996 | 236,417 | - |
| Cooking banana | 96,571 | 93,549 | - | 85,524 | 90,175 | - | 86,707 | 81,010 | - |
| Dessert banana | 35,430 | 32,575 | - | 30,110 | 34,153 | - | 32,036 | 37,398 | - |
| Banana for beer | 105,847 | 100,348 | - | 111,213 | 108,091 | - | 135,252 | 118,009 | - |
| Bean | 268,095 | 276,435 | 3,256 | 287,218 | 269,105 | 885 | 299,443 | 282,099 | 1,128 |
| Pea | 9,373 | 10,298 | 103 | 15,121 | 10,612 | 228 | 17,658 | 6,859 | 255 |
| Groundnut | 25,004 | 20,451 | - | 20,474 | 20,983 | - | 23,929 | 19,990 | - |
| Soybean | 22,268 | 30,486 | 307 | 24,011 | 30,431 | 351 | 24,593 | 21,543 | 559 |
| Vegetables | 19,969 | 19,010 | 3,525 | 13,794 | 12,480 | 3,017 | 15,012 | 14,976 | 3,744 |
| Fruits | 6,551 | 6,844 | - | 5,975 | 6,677 | - | 8,383 | 7,454 | - |
| 2 Harvested area for major crops (Ha) | | | | | | | | | |
| Maize | 210,609 | 85,130 | - | 218,179 | 78,151 | - | 215,159 | 73,139 | - |
| Sorghum | 29,702 | 112,694 | - | 27,151 | 116,986 | - | 30,467 | 131,383 | - |
| Paddy rice | 16,922 | 17,283 | - | 16,938 | 15,842 | - | 14,671 | 18,225 | - |
| Wheat | 3,313 | 7,448 | - | 4,490 | 7,735 | - | 5,487 | 7,747 | - |
| Cassava | 219,845 | 164,529 | - | 35,897 | 56,216 | - | 36,960 | 44,667 | - |
| Sweet potato | 87,725 | 85,200 | 7,609 | 87,456 | 79,983 | 5,683 | 97,639 | 80,919 | 5,331 |
| Irish potato | 38,351 | 45,923 | 8,526 | 50,836 | 60,644 | 7,740 | 49,728 | 49,244 | 8,618 |
| Yams & Taro | 35,321 | 22,028 | - | 11,411 | 19,287 | - | 12,695 | 15,469 | - |
| Banana | - | - | - | 61,976 | 63,140 | - | 82,523 | 74,733 | - |
| Cooking banana | - | - | - | 21,389 | 19,767 | - | 25,340 | 20,155 | - |
| Dessert banana | - | - | - | 5,165 | 7,355 | - | 8,342 | 10,517 | - |
| Banana for beer | 105,847 | 100,348 | - | 35,397 | 36,018 | - | 48,841 | 44,060 | - |
| Bean | 268,095 | 276,435 | 3,256 | 287,218 | 269,105 | 885 | 299,443 | 282,099 | 1,128 |
| Pea | 9,373 | 10,298 | 103 | 15,121 | 10,612 | 228 | 17,658 | 6,859 | 255 |
| Groundnut | 25,004 | 20,451 | - | 20,474 | 20,983 | - | 23,929 | 19,990 | - |
| Soybean | 22,268 | 30,486 | 307 | 24,011 | 30,431 | 351 | 24,593 | 21,543 | 559 |
| Vegetables | 19,969 | 19,010 | 3,525 | 13,649 | 12,480 | 3,017 | 14,801 | 14,972 | 3,744 |
| Fruits | 6,551 | 6,844 | - | 4,263 | 4,522 | - | 6,585 | 5,623 | - |

| | SAS main indicators | | SAS 2017 | | | SAS 2018 | | | SAS 2019 | | |
|-----------------|------------------------------------|--|----------|----------|----------|----------|----------|----------|-----------|----------|----------|
| 3 | 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 | |
| 4 | Production for major crops (MT) | | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Maize | | | 324,368 | 85,912 | - | 332,670 | 91,534 | - | 331,090 | 90,128 | - |
| Sorghum | | | 41,662 | 118,310 | - | 36,581 | 118,111 | - | 37,584 | 122,042 | - |
| Paddy Rice | | | 55,217 | 64,715 | - | 57,934 | 55,946 | - | 59,286 | 72,291 | - |
| Wheat | | | 3,651 | 7,224 | - | 5,950 | 7,525 | - | 7,082 | 8,605 | - |
| Cassava | | | 451,362 | 590,481 | - | 486,440 | 640,759 | - | 523,117 | 658,708 | - |
| Sweet potato | | | 574,500 | 483,898 | 23,966 | 661,583 | 498,790 | 26,358 | 674,257 | 546,788 | 26,539 |
| Irish potato | | | 378,906 | 398,934 | 69,462 | 439,512 | 396,064 | 80,487 | 468,931 | 422,266 | 82,211 |
| Yams & Taro | | | 129,630 | 93,131 | - | 70,653 | 97,331 | - | 71,104 | 100,700 | - |
| Banana | | | 985,485 | 753,522 | - | 952,684 | 817,013 | - | 1,020,141 | 830,491 | - |
| Cooking banana | | | 415,868 | 315,481 | - | 406,044 | 353,652 | - | 456,351 | 364,566 | - |
| Dessert banana | | | 113,032 | 111,312 | - | 112,283 | 117,057 | - | 112,937 | 128,273 | - |
| Banana for beer | | | 456,585 | 326,729 | - | 434,356 | 346,304 | - | 450,853 | 354,930 | - |
| Beans | | | 224,233 | 226,131 | 3,810 | 251,189 | 233,540 | 1,027 | 252,569 | 230,744 | 938 |
| Peas | | | 6,768 | 5,600 | 55 | 9,001 | 5,689 | 137 | 9,115 | 6,136 | 149 |
| Groundnut | | | 11,873 | 8,805 | - | 12,546 | 9,734 | - | 9,362 | 10,200 | - |
| Soybean | | | 10,686 | 12,925 | 192 | 12,156 | 10,427 | 227 | 13,638 | 10,588 | 299 |
| Vegetables | | | 133,118 | 155,476 | 30,305 | 162,938 | 145,272 | 40,417 | 158,927 | 155,506 | 36,072 |
| Fruits | | | 54,940 | 16,378 | 414 | 35,883 | 17,711 | - | 48,791 | 29,002 | - |
| 5 | Yield for major crops (Kg/ha) | | | | | | | | | | |
| Maize | | | 1,540 | 1,009 | - | 1,525 | 1,171 | - | 1,647 | 1,183 | - |
| Sorghum | | | 1,403 | 1,050 | - | 1,347 | 1,010 | - | 1,234 | 954 | - |
| Paddy Rice | | | 3,263 | 3,744 | - | 3,420 | 3,532 | - | 4,041 | 4,008 | - |
| Wheat | | | 1,102 | 970 | - | 1,325 | 973 | - | 1,291 | 1,111 | - |
| Cassava | | | 2,053 | 3,589 | - | 13,540 | 11,398 | - | 14,153 | 14,842 | - |
| Sweet potato | | | 6,549 | 5,680 | 3,149 | 7,565 | 6,236 | 4,638 | 6,918 | 6,757 | 4,979 |
| Irish potato | | | 9,880 | 8,687 | 8,147 | 8,646 | 6,531 | 10,399 | 9,953 | 8,688 | 9,540 |
| Yams & Taro | | | 3,670 | 4,228 | - | 6,194 | 5,047 | - | 5,601 | 6,510 | - |
| Banana | | | - | - | - | 15,378 | 12,940 | - | 12,362 | 11,113 | - |
| Cooking banana | | | - | - | - | 19.0 | 18,970 | 17,891 | 18.0 | - | - |
| Dessert banana | | | - | - | - | 21.7 | 21,693 | 15,915 | 13.5 | - | - |
| Banana for beer | | | - | - | - | 12.3 | 12,271 | 9,615 | 9.2 | - | - |
| Beans | | | 836 | 818 | 1,170 | 875 | 868 | 1,160 | 891 | 841 | 831 |
| Peas | | | 722 | 544 | 532 | 595 | 536 | 600 | 516 | 895 | 585 |
| Ground nuts | | | 475 | 431 | - | 613 | 464 | - | 391 | 510 | - |
| Soya beans | | | 480 | 424 | 627 | 506 | 343 | 646 | 555 | 501 | 535 |
| Vegetables | | | 6,666 | 8,179 | 8,598 | 11,938 | 11,641 | - | 10,738 | 10,386 | - |
| Fruits | | | 8,675 | 2,393 | 26,736 | 8,418 | 3,916 | - | 7,409 | 5,373 | - |

| | | SAS 2017 | | | SAS 2018 | | | SAS 2019 | | |
|----|--|---|----------|----------|-----------|----------|----------|-----------|----------|----------|
| | | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| | | 6 Share of pure crop in agricultural land | | | | | | | | |
| 6 | Small Scale Farmers | 26.6 | 26.7 | 78.9 | 36 | 32 | 78 | 23.3 | 34.0 | - |
| 6 | Large Scale Farmers | 95.7 | 89.5 | - | 95.3 | 96.6 | - | 97.6 | 98.3 | - |
| 7 | Percentage of plots with improved seeds | - | - | - | - | - | - | 11.0 | 6 | 13 |
| 8 | Percentage of plots with organic fertilizer use | - | - | - | - | - | - | 52.8 | 43.8 | 66.7 |
| 9 | Percentage of plots with inorganic fertilizers use | - | - | - | - | - | - | 26.0 | 21 | 43 |
| 10 | Percentage of plots with pesticides use | - | - | - | - | - | - | 18.1 | 14.7 | 42.3 |
| 11 | Percentage of irrigated plots | - | - | - | - | - | - | 3.4 | 3 | 26 |
| 12 | Percentage of plots protected against erosion | - | - | - | - | - | - | 72.4 | 71.8 | 85.9 |
| 13 | Percentage of farmers who used improved seeds | - | - | - | - | - | - | 22.4 | 11.8 | 14.6 |
| 14 | Percentage of farmers who used organic fertilizer | - | - | - | - | - | - | 53.3 | 47 | 67 |
| 15 | Percentage of farmers who used inorganic fertilizers | - | - | - | - | - | - | 26.1 | 23.1 | 42.4 |
| 16 | Percentage of farmers who used pesticides | - | - | - | - | - | - | 17.6 | 15 | 42 |
| 17 | Percentage of farmers who practiced irrigation | - | - | - | - | - | - | 3.1 | 3.5 | 26.4 |
| 18 | Percentage of farmers who practiced anti-erosion activities | - | - | - | - | - | - | 72.5 | 74 | 86 |
| 19 | Percentage of land area sown with improved seeds | - | - | - | - | - | - | 10.9 | 6 | 12 |
| 20 | Percentage of fertilized land with organic fertilizer | - | - | - | - | - | - | 57.2 | 46.5 | 70.6 |
| 21 | Percentage of fertilized land with inorganic fertilizer | - | - | - | - | - | - | 26.3 | 21 | 56 |
| 22 | Percentage of land with pesticides application | - | - | - | - | - | - | 17.1 | 14.2 | 58.9 |
| 23 | Percentage of irrigated agricultural land | - | - | - | - | - | - | 2.8 | 3 | 21 |
| 24 | Percentage of land protected against erosion | - | - | - | - | - | - | 76.3 | 76.0 | 86.6 |
| 25 | Total land area (,000Ha) | - | - | - | - | - | - | 2,377 | 2,377 | |
| 26 | Agriculture land (,000Ha) | - | - | - | - | - | - | 1,411 | 1,415 | - |
| 27 | Percentage of agricultural area | - | - | - | - | - | - | 59.4 | 59.5 | - |
| 28 | Arable land | | | | | | | 1,149 | 1,139 | |
| 29 | Physical cultivated land | | | | | | | 1,114 | 1,106.7 | |
| 30 | Area under permanent crops (,000Ha) | - | - | - | - | - | - | 514 | 496 | - |
| 31 | Area under permanent pasture (,000Ha) | - | - | - | - | - | - | 147 | 151 | - |
| 32 | Modern irrigated agricultural land (,000Ha) | - | - | - | - | - | - | 18 | 21 | - |
| 33 | Area under seasonal crops(,000Ha) | - | - | - | - | - | - | 1,041 | 1,025 | - |
| 34 | Temporary fallow land(,000Ha) | - | - | - | - | - | - | 108 | 115 | - |
| 35 | Temporarily meadow and pasture(,000Ha) | - | - | - | - | - | - | 8 | 8 | - |
| 36 | Agriculture Gross Value Added / Ha at 2014 constant 2014 prices (Rwf/ha) | 2014/2015 | | | 2015/2016 | | | 2016/2017 | | |
| | | 708,621 | | | 736,679 | | | 800,313 | | |
| | | | | | | | | 850,499 | | |

Source: NISR, SAS 2017, 2018 and 2019; National accounts 2015,2016,2017and 2018

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Acronyms and abbreviations

%: Percentage

AHS: Agricultural Household Survey

CAPI: Computer Assisted Personal Interviewing

CIP: Crop Intensification Program

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

LFS: Labor Force Survey

LSF: Large-Scale Farmer

MINAGRI: Ministry of Agriculture and Animal Resources

MT: Metric Tones

NA: Not applicable

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

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

1. Introduction

Agriculture remain the major sector of Rwandan economy with around 2.1 million of agricultural households (AHS2017²). 55.3 percent (3,855,029 people) of working age population were involved in agriculture activity (LFS 2018³). It is considered as one of priority areas sector for future economic growth and economic inclusion in the current National Strategy for Transformation (NST1). To evaluate the performance of agricultural programs agriculture statistics are needed. Therefore, NISR in collaboration with MINAGRI conduct Seasonal Agricultural Survey (SAS) to cover various needs in agricultural economy of Rwanda.

1.1. Objectives of the Survey

The main objective of the Seasonal Agricultural Survey 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.

2. Survey design

2.1. Sample design

In order to provide the basis for conducting probability surveys based on complete coverage of the farm level, and as a better way of collecting agricultural data and find better precise survey estimates, SAS uses a Multiple-Frame Sampling (MFS) methodology by which, area frame is constructed and survey sample is drawn. Apart from that, a list frame of large-scale farmers (LSF), with at least 10 hectares of agricultural holdings is done to complement the area frame just to cover crops mostly grown by large scale farmers which are not easily covered in area frame. To construct area frame, the process involves the following two steps: land stratification and sampling of segment.

2.1.1. Stratification

The purpose of stratification is to construct a frame by dividing the land of every district into homogenous land use groups or land use strata among which only strata with potential land for agriculture are taken into consideration for allocating the sample to each stratum. This helps to minimize variability within each stratum and improve precision of estimates. It also helps to allocate sample, where strata that are very homogeneous may get only a small sample, while more heterogeneous strata would have a large sample. Using orthophotos imagery from the Rwanda National Land Center (2008) and Satellite images (World View) from Digital Globe (2010-2016), and basing on land cover, and cropping or livestock activity intensity, the stratification ended up with 10 strata for the whole country as shown in the table 1.

² National Institute of Statistics of Rwanda (NISR), Agricultural Household Survey 2017 report, December 2018

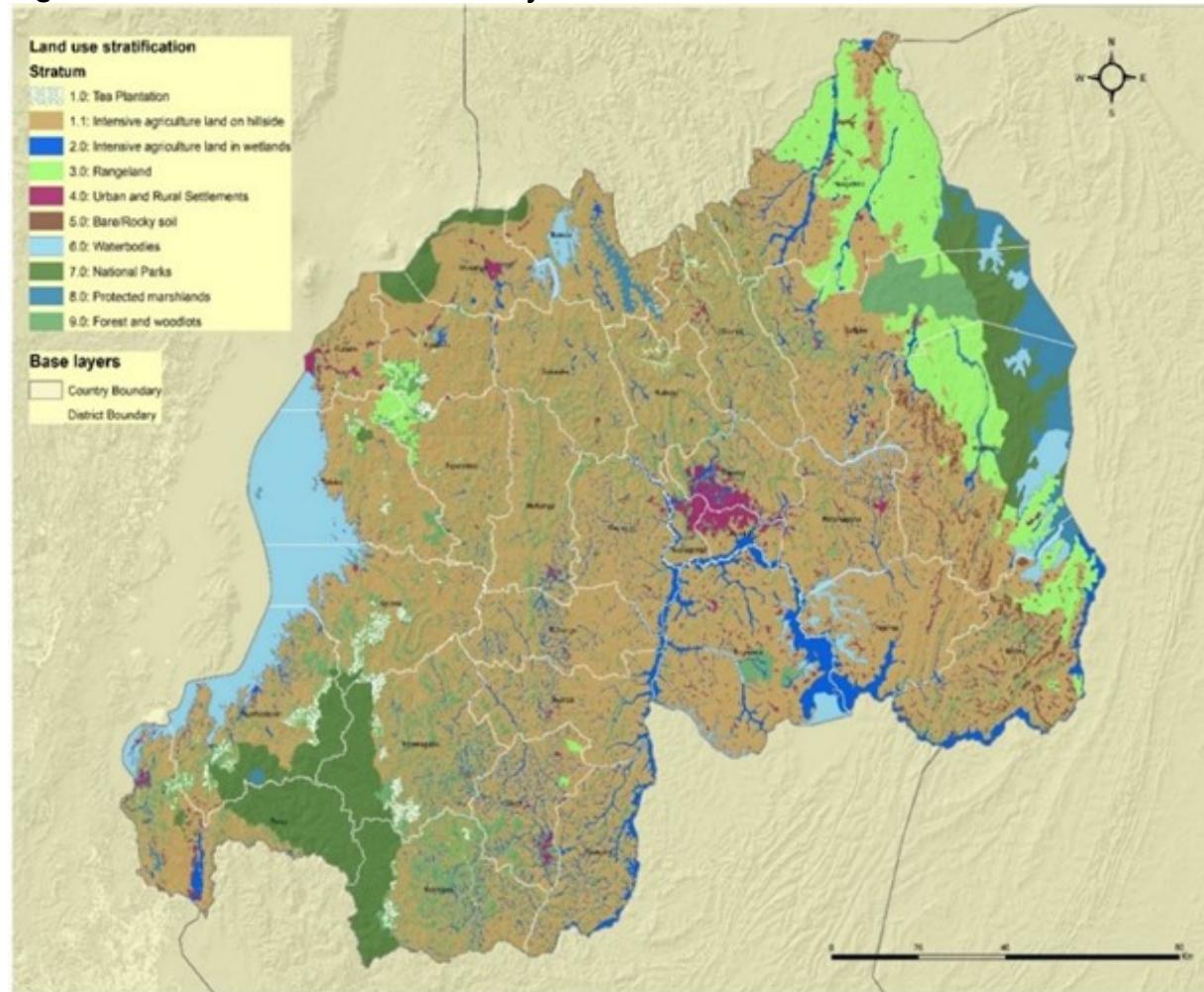
³ National Institute of Statistics of Rwanda (NISR), Labour Force Survey, Annual report, December 2018

Table 1: List of strata

| Stratum Code | Stratum name | Area (Ha) | Percentage share |
|--------------|--|-------------|------------------|
| 1.0 | Tea plantations | 34,262.8 | 1.4 |
| 1.1 | Intensive agriculture land on Hillsides | 1,448,045.5 | 57.2 |
| 2.0 | Intensive agriculture land in marshlands | 126,441.3 | 5.0 |
| 3.0 | Rangelands area | 178,821.6 | 7.1 |
| 4.0 | Urban area and rural settlements | 56,895.1 | 2.2 |
| 5.0 | Non crop land | 17,341.3 | 0.7 |
| 6.0 | Water bodies | 152,304.8 | 6.0 |
| 7.0 | National Parks | 189,075.1 | 7.5 |
| 8.0 | Uncultivated "protected" marshlands | 47,224.3 | 1.9 |
| 9.0 | Forest and woodlands | 278,968.0 | 11.0 |

Source: NISR, SAS 2019

Figure 1: Strata distribution in the country



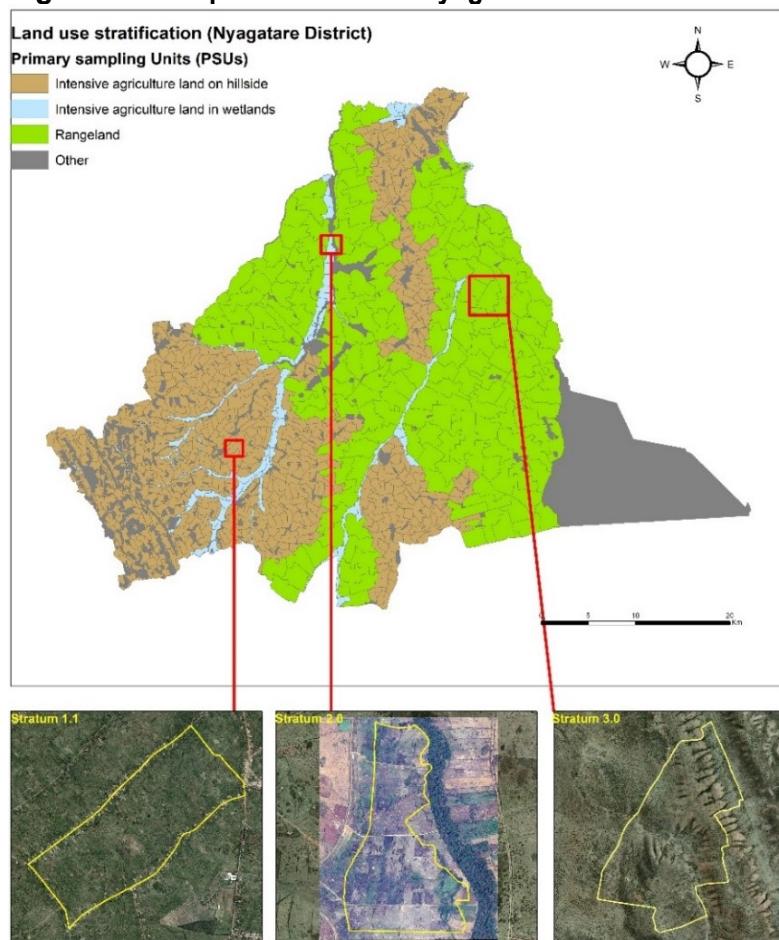
Source: NISR, SAS 2019

2.1.2. Sampling process

Out of 10 strata, only 4 are considered to represent the country land potential for agriculture, and they cover the total area of 1,787,571.2 hectares (ha). Those strata are: 1.0 (tea plantations), 1.1 (intensive agriculture land on hillsides), 2.0 (intensive agriculture land in marshlands) and 3.0 (rangelands). The remainder of land use strata represents all the non-agricultural land in Rwanda. Stratum 1.0, which represents tea plantations, is assumed to be well monitored through administrative records by the National Agriculture Export Board (NAEB), an institution whose main mission is to promote the agriculture export commodities. Thus, SAS is conducted on 3 strata (1.1; 2.0 & 3.0) to cover other major crops.

Within district, the agriculture strata (1.1, 2.0 & 3.0) were divided into larger sampling units called first-step or primary sampling units (PSUs) (as shown in Figure 2). Strata 1.1 and 2.0 were divided into PSUs of around 100 ha while stratum 3.0 was divided into PSUs of around 500 ha. After sample size determination, a sample of PSUs was done by systematic sampling method with probability proportional to size, then a given number of PSUs to be selected for each stratum, was assigned in every district. In 2019, the 2018 SAS sample of 780 segments has been kept the same for SAS 2019 in Season A and B.

Figure 2: Example of 3 strata of Nyagatare District divided into PSUs



Source: NISR, SAS 2019

At first stage, 780 PSUs sampled countrywide were proportionally allocated in different levels of stratification (Hill side, marshland and rangeland strata) for 30 districts of Rwanda, to allow publication of results at district level. Sampled PSUs in each stratum were systematically selected from the frame with probability of selection proportional to the size of the PSU.

Table 2: Number of sampled segments per district

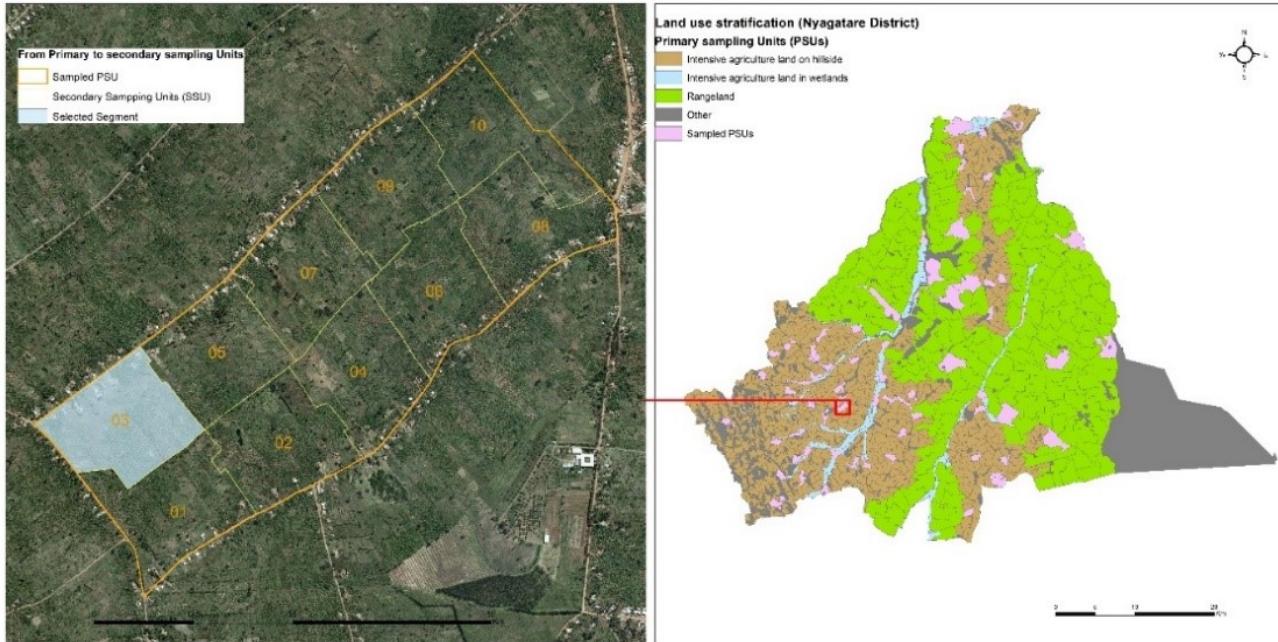
| District | Segments (Season A&B) | Total area (in ha) | Share (%) | Segments (Season C) | Total area (in ha) | Share (%) |
|-------------------|--------------------------|-----------------------|--------------|------------------------|-----------------------|--------------|
| Nyarugenge | 20 | 201.28 | 1.82 | 4 | 40 | 1.6 |
| Gasabo | 20 | 198.42 | 1.80 | 4 | 40 | 1.6 |
| Kicukiro | 16 | 160.43 | 1.45 | | | |
| Nyanza | 25 | 248.29 | 2.25 | 9 | 88 | 3.7 |
| Gisagara | 27 | 270.07 | 2.45 | 12 | 121 | 5.0 |
| Nyaruguru | 20 | 199.00 | 1.80 | 4 | 40 | 1.7 |
| Huye | 24 | 321.27 | 2.91 | 6 | 59 | 2.5 |
| Nyamagabe | 20 | 201.06 | 1.82 | 4 | 40 | 1.7 |
| Ruhango | 20 | 200.86 | 1.82 | 4 | 40 | 1.7 |
| Muhanga | 20 | 199.86 | 1.81 | 4 | 39 | 1.6 |
| Kamonyi | 20 | 203.44 | 1.84 | 4 | 40 | 1.7 |
| Karongi | 20 | 200.43 | 1.82 | 4 | 40 | 1.7 |
| Rutsiro | 24 | 395.90 | 3.59 | 4 | 40 | 1.7 |
| Rubavu | 18 | 263.63 | 2.39 | 18 | 264 | 11.0 |
| Nyabihu | 20 | 201.73 | 1.83 | 20 | 202 | 8.4 |
| Ngororero | 24 | 405.60 | 3.67 | 4 | 40 | 1.7 |
| Rusizi | 22 | 220.78 | 2.00 | 6 | 61 | 2.5 |
| Nyamasheke | 20 | 201.42 | 1.82 | 4 | 40 | 1.7 |
| Rulindo | 20 | 200.95 | 1.82 | 4 | 40 | 1.7 |
| Gakenke | 20 | 198.62 | 1.80 | 4 | 40 | 1.7 |
| Musanze | 20 | 198.56 | 1.80 | 20 | 199 | 8.3 |
| Burera | 20 | 198.78 | 1.80 | 20 | 199 | 8.3 |
| Gicumbi | 20 | 200.77 | 1.82 | 4 | 40 | 1.7 |
| Rwamagana | 24 | 240.15 | 2.18 | 4 | 40 | 1.7 |
| Nyagatare | 60 | 1,087.72 | 9.85 | 12 | 120 | 5.0 |
| Gatsibo | 45 | 1,098.74 | 9.95 | 9 | 94 | 3.9 |
| Kayonza | 53 | 1,498.21 | 13.57 | 4 | 41 | 1.7 |
| Kirehe | 53 | 1,173.23 | 10.63 | 12 | 119 | 4.9 |
| Ngoma | 16 | 160.91 | 1.46 | | | |
| Bugesera | 49 | 488.30 | 4.42 | 24 | 240 | 10.0 |
| Total | 780 | 11,038.4 | 100.0 | 232 | 2,405 | 100.0 |

Source: NISR, SAS 2018

At the second stage 780 sampled PSUs were divided into secondary sampling units (SSUs) also called segments. Each segment is estimated to be around 10 ha for strata 1.1 and 2.0 and 50 ha for stratum 3.0 (as shown in Figure 3). For each PSU, only one SSU is selected by random sampling method without replacement. This is why for 2019

SAS season A and B, the same number of 780 SSUs was selected. In addition to this, a list frame of large-scale farmers (LSF), with at least 10 hectares of agricultural holdings, was done to complement the area frame just to cover crops mostly grown by large scale farmers and that cannot be easily covered in area frame

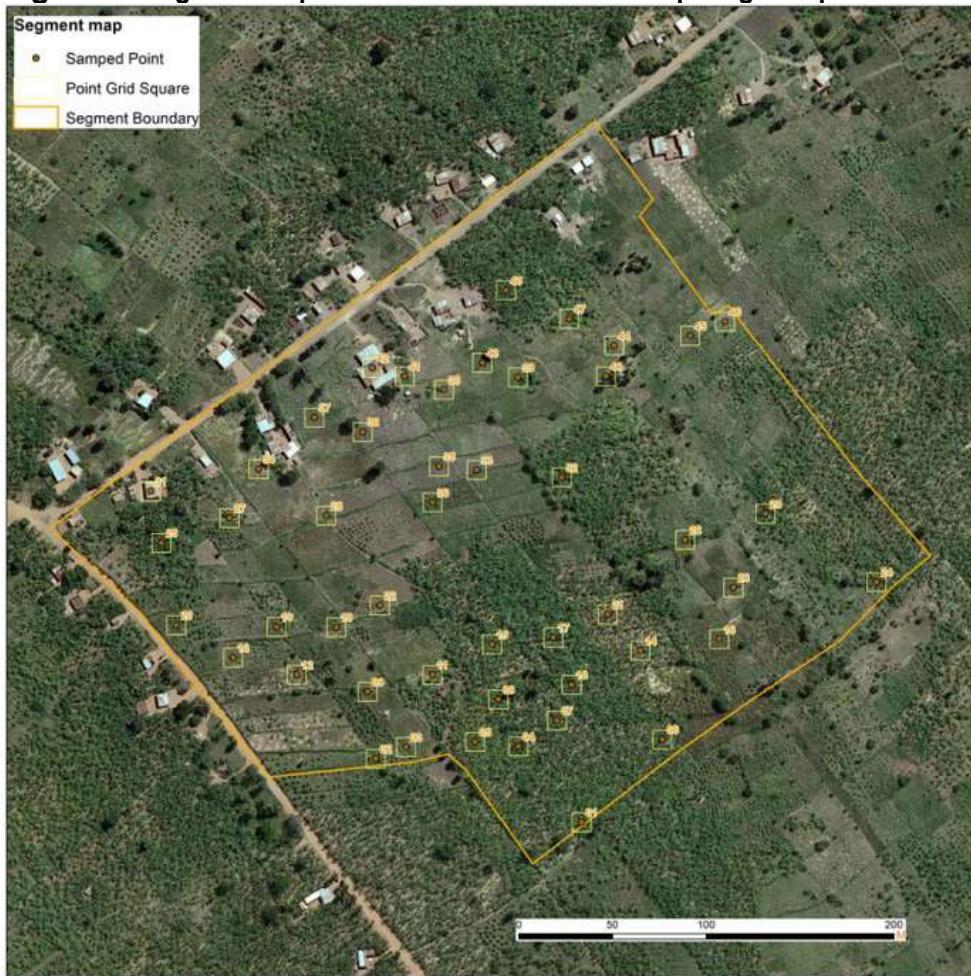
Figure 3: Example of one PSU in stratum 11 of Nyagatare district divided into 10 SSUs



Source: NISR, SAS 2019

At the last sampling stage, in strata 1.1 and 2.0 each segment of an average size of 10 ha (100,000 Square meters) has been divided into around 1,000 grids squares of 100 Sq. meters each, while for stratum 3.0 around 5,000 grids squares of 100 Sq. meters each have been divided. A point was placed at the center of every grid square and named a grid point (A grid point is a geographical location at the center of every grid square). A random sample of 5% of the total grid points were selected in each segment of strata 1.1 and 2.0 whereas a random sample of 2% of total grid points was selected in each segment of stratum 3.0. Grids points are reporting units within a segment, where enumerators go to every grid point, locate and delineate the plots in which the grid falls, 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.

Figure 4: Segment map with a distribution of 50 sampled grid squares



Source: NISR, SAS 2017

2.1.3. Estimation procedures

The SAS is based on a stratified three-stage sample design, with PSUs selected with PPS at the first sampling stage within each land-use stratum. At the second stage one sample segment is selected within each sample PSU, and at the third stage plots are selected based on a sample of grid points. It was shown that the selection of plots based on grid points is equivalent to the selection of plots with probability proportional to size (PPS), with the measures of size based on the physical area of the plot.

Based on the PPS selection of the sample PSUs within each stratum using area as the measure of size, the first stage probability of selection can be expressed as follows:

$$p_{1hi} = \frac{n_h \times A_{hi}}{A_h}$$

where:

p_{1hi} = first stage probability of selection for the i -th sample PSU in stratum (district and land use stratum) h

n_h = number of sample PSUs selected in stratum h

A_{hi} =area of the i-th sample PSU in stratum h

A_h =total area of stratum h

The second stage probability of selection can be expressed as:

$$p_{2hi} = \frac{1}{S_{hi}}$$

Where S_{hi} =total number of segments in the i-th sample PSU of stratum h

The weight of the sample segment is calculated as the inverse of the probabilities of selection for the first two sampling stages, as follows:

$$W_{Shi} = \frac{1}{p_{1hi} \times p_{2hi}}$$

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

$$p_{3hij} = \frac{g_{hi} \times A_{hij}}{A_{hi} \times g_{hij}}$$

where: g_{hi} =number of grid points selected in the sample segment in the i-th sample PSU of stratum h

A_{hij} =area (in ha.) of the j-th sample plot selected in the sample segment in the i-th sample PSU of stratum h

A_{hi} =area (in ha.) of the sample segment in the i-th sample PSU of stratum h

g_{hij} =number of selected grid points in the j-th sample plot of the sample segment in the i-th sample PSU of stratum h (that is, number of “hits” for the sample plot)

The final weight of a sample plot is equal to the weight of the segment times the inverse of the third stage probability of selection:

$$W_{Phij} = W_{Shi} \times \frac{1}{p_{3hij}}$$

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

2.2. Data Collection design

Data collection is done in two distinct phases: The first phase, known as screening activity, consists of visiting all sampled segments and delineating all plots in which the sampled grids points are fallen and thereafter recording the related information. The second phase consists of visiting the sub-sampled agricultural plots from screened plots in first phase as well as all Large-Scale Farmers having cultivated plots in the season the survey is being conducted. SAS 2019 used 153 fieldworkers and 22 team leaders. All fieldwork staff in 2019 held a degree in agriculture sciences and were trained by NISR headquarter staff before starting data collection. Higher level supervision staff from NISR visited the field teams during each phase of data collection to ensure data quality control.

2.2.1. Time frame

Data collection is done three times a year, following three agricultural seasons:

- Season A starts in September and ends with February of the following year
- Season B starts in March and ends with June of the same year; and
- Season C starts in July and ends in September of the same year.

Season A data collection was done from 02nd December 2018 to 09th February 2019. Season B data was collected from 05th May to 23rd June 2019; while in Season C, field work was done from 8th to 27th September 2019. Data collection was done in 780 segments and 222 large scale farmers holdings for Season A, whereas in Season C data was collected in 232 segments.

2.2.2. Data collection tools and materials

Seasonal agricultural survey uses two main questionnaires:

- **Screening Questionnaire:** Screening questionnaire is a form used to collect information on the sampled plot mainly related to land use, plot area and crop cultivated.
- **Plot Questionnaire:** Plot questionnaire is a form used to collect information on the sampled plot mainly related to crop production, inputs used (seeds, fertilizers, labor ...), and agricultural practices.

The computer assisted personal interview (CAPI) data collection methodology was used based on three different software applications: “Collector” which is GIS based and is used to help identify and navigate the enumerator team to the exact GPS point-sample location and for mapping the plot boundary for GIS area determination, “survey 123” which is an electronic instrument or questionnaire for farmer interview data collection, and “CS Entry” which is a CSPro data entry application used on Android tablets and suite of data processing tools.

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 have to check if they have required materials for their fieldwork. All field enumeration team members and staff are required to arrive early in the field for both segment and interviews with the LSF. For each segment, enumerators are required to first familiarize themselves with the segment boundaries. They use their tablet GPS to guide them to each of the point-sampled and automatically record the geographical coordinates and the time/date stamp at each point-sample within the segment during the enumeration process to know the actual time of the fieldwork.

- **Screening Activity of the Segment:** After locating and identifying segment boundaries, enumerators team proceeds to let their tablet GPS guide them to locate accurately each of the sampled grid points inside the segment. Arriving at the point, enumerators identify plot boundary with the guide of the farmer and delineate the plot using collector with 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 subsampled plots are given to enumerators to collect information provided in the plot questionnaire.

2.3. Data processing and analysis

CAPI data collection method allows the enumerators in the field to collect and enter data with their tablets and then synchronize them to the server at headquarter where data are received by NISR staff, checked for consistency at NISR and thereafter transmitted to analysts for tabulation and reporting using STATA and 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 pasture land

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 together in same plot, due to the fact that 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. In agriculture Season B, if the farmer only harvested 1,250 trees. In this case, the farmer harvested only a quarter (0.125hectares) of the cultivated area.

11. Crop yield

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

12. Crop production

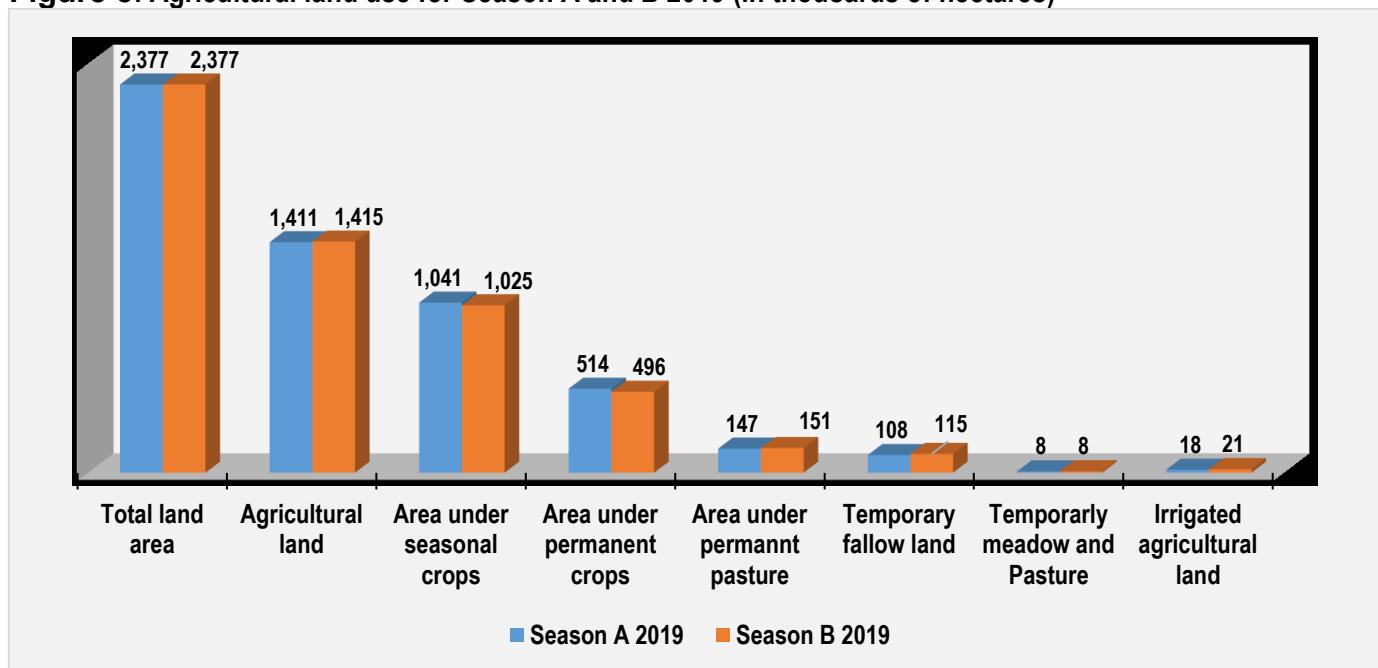
Crop production is the product of crop yield and crop area (harvested). At district level, crop production is estimated by taking crop yield of crop produce times total harvested area in the district.

3. Results of SAS 2019

This section highlights key results of SAS 2019 season A, B and C, related to area (physical land use, cultivated area, and harvested area), crop yield and production, agricultural inputs, agricultural practices and agricultural land status and tenure in Rwanda

3.1. Agricultural land use (1000Ha) in Season A and B 2019

Figure 5: Agricultural land use for Season A and B 2019 (in thousands of hectares)



Source: NISR, SAS 2019

Results show that, in 2019, the agricultural land was estimated at 1.4 million hectares equivalent to around 60% of the total country land. Out of the total agricultural land, 1.04 million hectares was used for Seasonal crops in season A compared to 1.02 in season B; 0.5 million hectares are area under permanent crops, 0.15 million ha under permanent pasture. Only 18 thousand hectares of cultivated land in Season A and 21 hectares in season B 2019 was irrigated with modern irrigation techniques (See district details in table 4 and 5).

3.2. Crop area, yield and production for major crops

Maize:

- In Season A 2019, maize cultivated area was estimated at 215,159 ha, down 1% compared to 2018 season A estimates. Total production was estimated at 331,090 MT, slightly the same as the one for 2018 season A. The average yield of maize was estimated at 1,647 kilograms per hectare (See district details in Table 7,10,13,16 and 18).
- In Season B 2019, maize cultivated area was estimated at 73,139 ha, down 6% compared to 2018 season B estimates. Total production was estimated at 90,128 MT, a decrease of 2% from 2018 season B estimates. The average yield of maize was estimated at 1,183 kilograms per hectare (See district details in Table 8,11,14,17 and 19).

Sweet potato:

- In Season A 2019, sweet potato cultivated area was estimated at 97,639 ha and had an increase of 12 percent change compared to 2018 season A area estimates. Sweet potato production was 674,257 MT with an increase of 2 percent compared with 2018 season A production estimates. The average sweet potato yield was estimated at 6,918 kilograms per hectare (See district details in Table 7,10,13,16 and 18).
- In 2019 Season B, sweet potato cultivated area was estimated at 80,919 ha and had an increase of 1 percent change compared to 2018 season B area estimates. Sweet potato production was 546,788 MT with slight increase of 10 percent compared with 2018 season B production estimates. The average sweet potato yield was estimated at 6,757 kilograms per hectare (See district details in Table 8,11,14,17 and 19).

Irish potatoes:

- In 2019 Season A, Irish potato cultivated area was estimated at 49,728 ha and had a decrease of 2 percent change compared to 2018 season A estimates. Irish potato production was 468,931 MT with the increase of 7 percent compared with 2018 season A estimates. The average yield of Irish potato was estimated at 9,953 kilograms per hectare (See district details in Table 7,10,13,16 and 18).
- In 2019 Season B, Irish potato cultivated area was estimated at 49,244 ha and had a decrease of 19 percent change compared to 2018 season B estimates. Irish potato production was 422,266 MT with the increase of 7 percent compared with 2018 season B estimates. The average yield of Irish potato was estimated at 8,688 kilograms per hectare (See district details in Table 8,11,14,17 and 19).

Cassava:

- In Season A 2019, cassava cultivated area was estimated at 195,135 and remained almost the same as 2018 season B estimates. Cassava production was 523,117 MT with the increase of 8 percent compared with 2018 season A estimates. The average yield of cassava was estimated at 14,153 kilograms per hectare (See district details in Table 7,10,13,16 and 18).
- In Season B 2019, cassava cultivated area was estimated at 187,511 ha and had 1 % decrease change recorded compared to 2018 season B estimates. Cassava production was 658,708 MT with the increase of 3 percent compared with 2018 season B estimates. The average yield of cassava was estimated at 14,842 kilograms per hectare (See district details in Table 8,11,14,17 and 19).

Paddy rice:

- In Season A 2019, rice cultivated area was estimated at 14,671 ha, and has known and decrease of 13 percent compared to the 2018 season A records. Paddy rice production was 59,286 MT with an increase change of 2 percent from the 2018 season A estimates. The average yield of paddy rice is estimated 4,041 kilograms per hectare (See district details in Table 7,10,13,16 and 18).
- In 2019 Season B, rice cultivated area was estimated at 18,225 ha, and has known an increase of 9 percent compared to the 2018 season B records. Paddy rice production was 72,291 MT with a considerable increase change of 29 percent from the 2018 season B estimates. The average yield of paddy rice is estimated 4,008 kilograms per hectare (See district details in Table 8,11,14,17 and 19).

Banana:

- In Season A 2019, banana cultivated area was estimated at 253,996 ha, and had an increase of 13 percent compared to the 2018 season A records. Banana production was 1,020,141 MT with an increase of 7 percent

change from the 2018 season A estimates. The average yield of banana was estimated at 12,362 kilograms per hectare (See district details in Table 7,10,13,16 and 18).

- In 2019 Season B, banana cultivated area was estimated at 236,417 ha, and had an increase of 2 percent compared to the 2018 season B records. Banana production was 830,491 MT with an increase of 2 percent change from the 2018 season B estimates. The average yield of banana is estimated 11,113 kilograms per hectare (See district details in Table 8,11,14,17 and 19).

Beans:

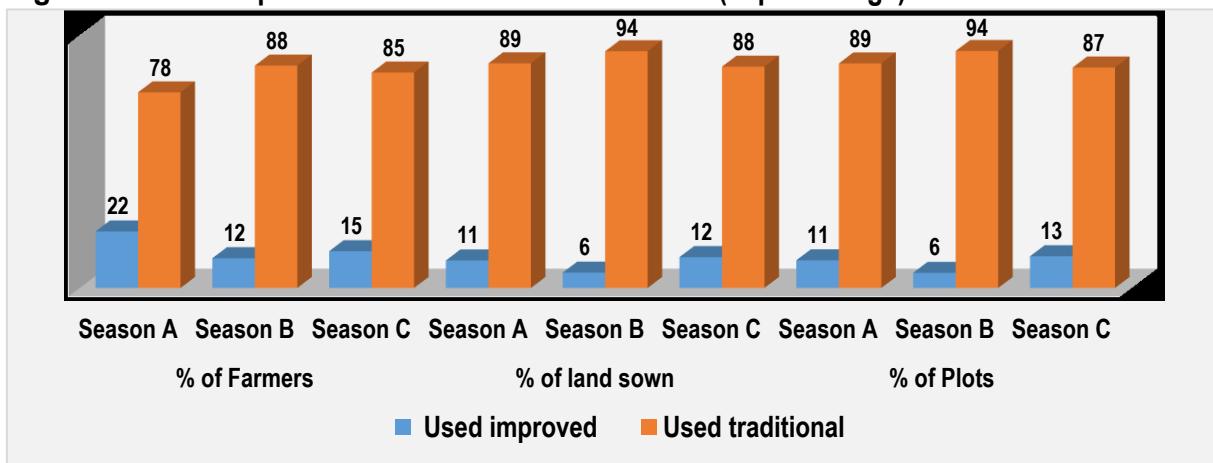
- In 2019 Season A, beans cultivated area was estimated at 299,443 ha, and had an increase of 4 percent from 2018 season A records. Beans production was 252,569 MT, with slight increase of 1 percent change from the 2018 season A estimates. The average yield of beans was estimated at 891 kilograms per hectare (See district details in Table 7,10,13,16 and 18).
- In 2019 Season B, beans cultivated area was estimated at 282,099 ha, and had an increase of 5 percent from 2018 season B records. Beans production was 230,744 MT, down slightly 1 percent change from the 2018 season B estimates. The average yield of beans was estimated at 841 kilograms per hectare (See district details in Table 8,11,14,17 and 19).

3.3. Agricultural inputs

- Findings related to use of agricultural inputs (seeds, fertilizers and pesticides) in 2019, are presented in terms of percentage of farmers who used such agricultural inputs, percentage of land area under inputs application, and percentage of plots inputs use.

3.3.1. Use of seeds

Figure 6: Use of improved and traditional seeds in 2019 (in percentage)

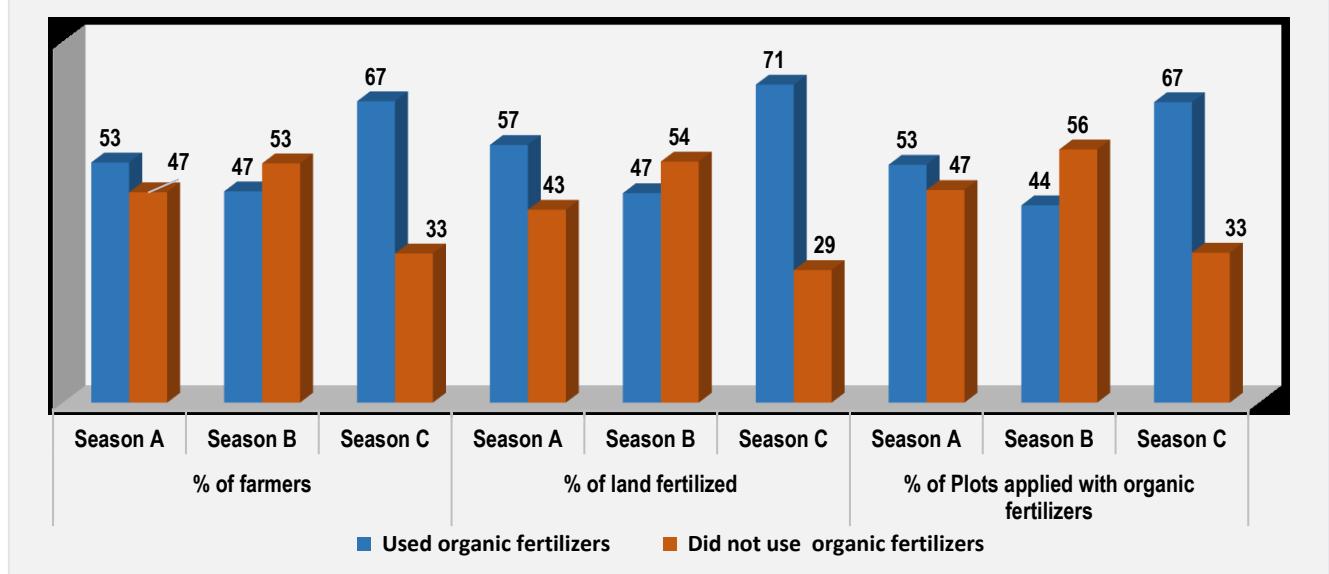


Source: NISR, SAS 2019

Results show that, improved seeds was sown on 11% and 6% of cultivated plots in Season A and B respectively representing 11% and 6% of total cultivated land size in season A and B respectively. In regards to farmers, this represents 22% and 12% of farmers for season A and B respectively. Most of improved seeds came from agro-dealers (40.4% in season A, 34.6% in season B, and 42.6% in season C (See district details in Table 28, 29,30,31,32 and 33).

3.3.2. Use of organic fertilizer

Figure 7 : Use of organic fertilizers in 2019 (in percentage)

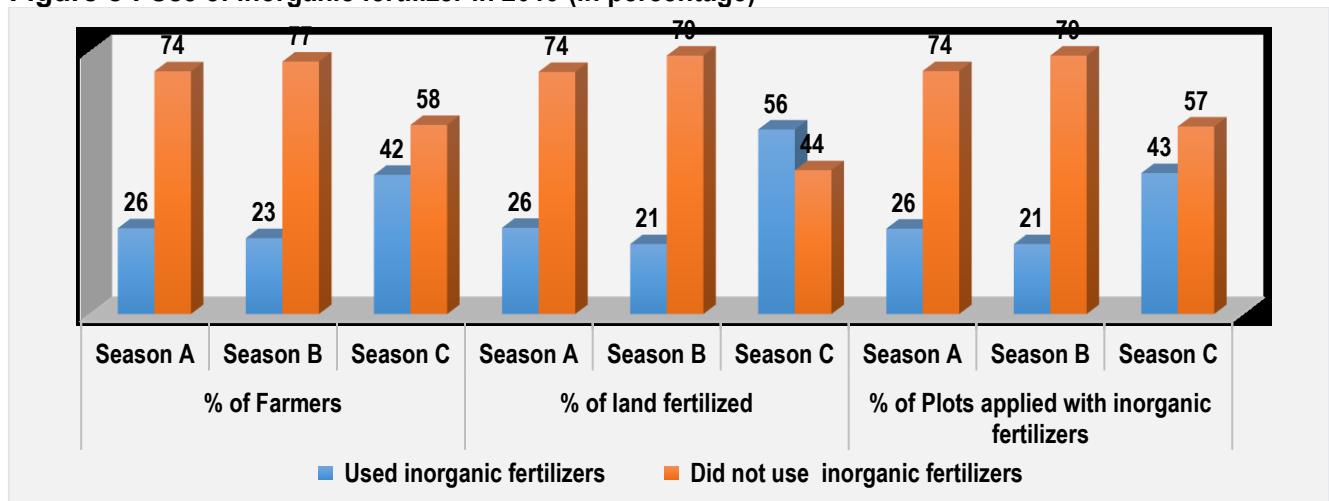


Source: NISR, SAS 2019

Results show that organic fertilizer was applied on 53% and 44% of cultivated plots in Season A and B respectively. This correspond to 57% and 47% of total cultivated area in season A and B respectively. In regards to number of farmers who applied the organic fertilizer, 53% and 47% have applied the organic fertilizer in season A and B respectively.

3.3.3. Inorganic fertilizer

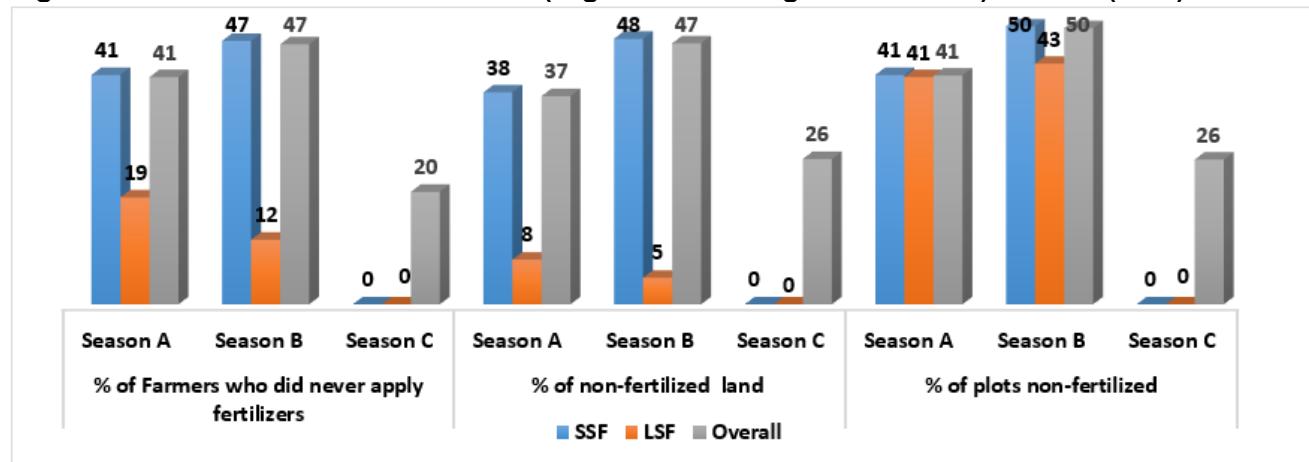
Figure 8 : Use of inorganic fertilizer in 2019 (in percentage)



Source: NISR, SAS 2019

Results show that inorganic fertilizer was applied to 26% and 21% of cultivated plots in Season A and B respectively, corresponding to 26% and 21% of total cultivated area in season A and B respectively and 26% and 23% of farmers in season A and B respectively. DAP was most used in Season A (41%) and B (36%), followed by UREA (36% and 29%) and NPK (18% and 28.5%). In Season C NPK was mostly used (49.2%) followed by DAP (23.1%) and UREA (22.3%).

Figure 9: Level of non-use of fertiliser (organic and inorganic fertilizer) in 2019 (in %)

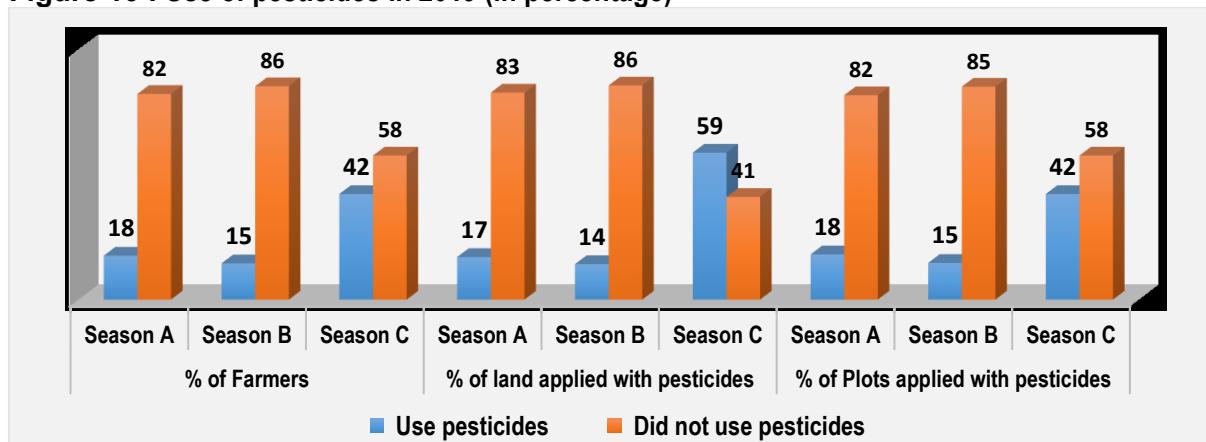


Source: NISR, SAS 2019

The figure above shows that 41% and 47% of famers did not use fertilizer in season A and B respectively. This represent 37% and 47% of cultivated land in season A and B respectively, thus 41% and 50% of cultivated plots in season A and B respectively. This problem was most predominant on small scale farmers and this leads to low productivity.

3.3.4. Use of pesticides

Figure 10 : Use of pesticides in 2019 (in percentage)



Source: NISR, SAS 2019

Results show that pesticide was applied to 18% and 15% of cultivated plots in Season A and B respectively, corresponding to 17% and 14% of cultivated land in season A and B. In regards to number of farmers, pesticides

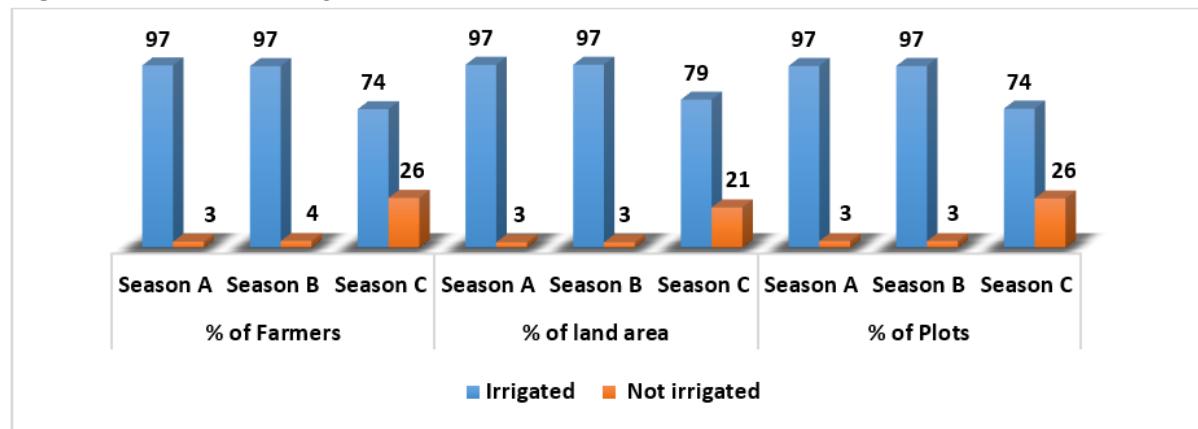
were used by 18% and 15% of farmers in Season A and B respectively. Dithane was most used in Season A (23.9%), B (32.0%) and C (41.7%), followed by Cypermethrin (19.4% in A, 22.3% in B and 22.3% in season C) and Rocket (19.1% in A, 18.7% in B and 18.7% in season C).

3.4. Agricultural Practices

Results related to agricultural practices (irrigation and erosion control) in 2019, are presented in terms of percentage of farmers, land area and plots.

3.4.1. Irrigation practices

Figure 11: Practice of irrigation in 2019

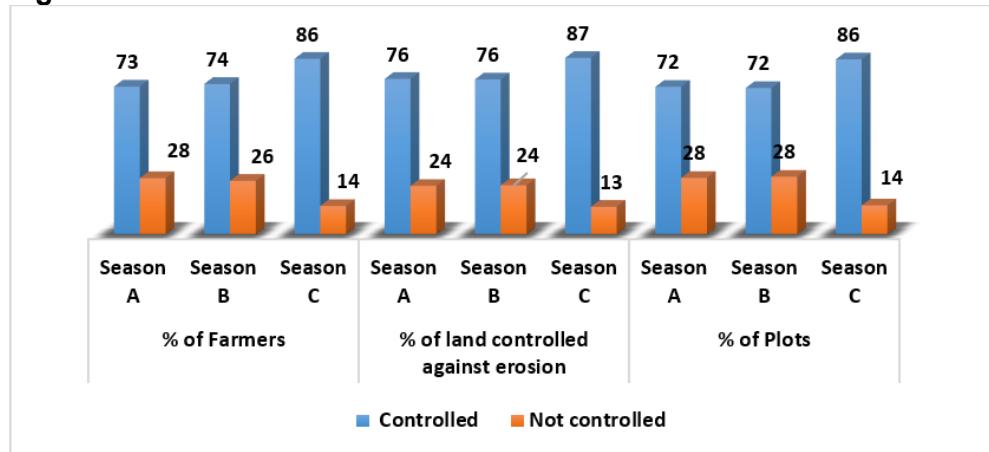


Source: NISR, SAS 2019

Results show that, 3% and 4% of farmers irrigated their land in season A and B respectively, and this correspond to 3% of cultivated area in both seasons and 3% of cultivated plots in both seasons. Traditional irrigation method is still the most used method used in Rwanda with 51% in Season A, 46% in Season B and 95% in Season C. Stream/lake water was the most important source of water used for irrigation of crops (See district details in Table 45,46,47,48,49 and 50).

3.4.2. Erosion control measures

Figure 12 : Practice of anti-erosion control measures in 2019



Source: NISR, SAS 2019

Results show that in 2019 erosion control measures were applied to around 72% of cultivated plots in Season A and B corresponding to around 76% of total cultivated area in both seasons and it was done by 73% and 74% of farmers in season A and B respectively. Results show further that 88% of plots faced low erosion (splash erosion, wind erosion), 10% faced moderate erosion (diffuse overland flow erosion, overland flow erosion), while the rest faced severe erosion (Rill erosion, gully erosion, mass movement/landslides). (See district details in Table 51,52,53,54 and 55).

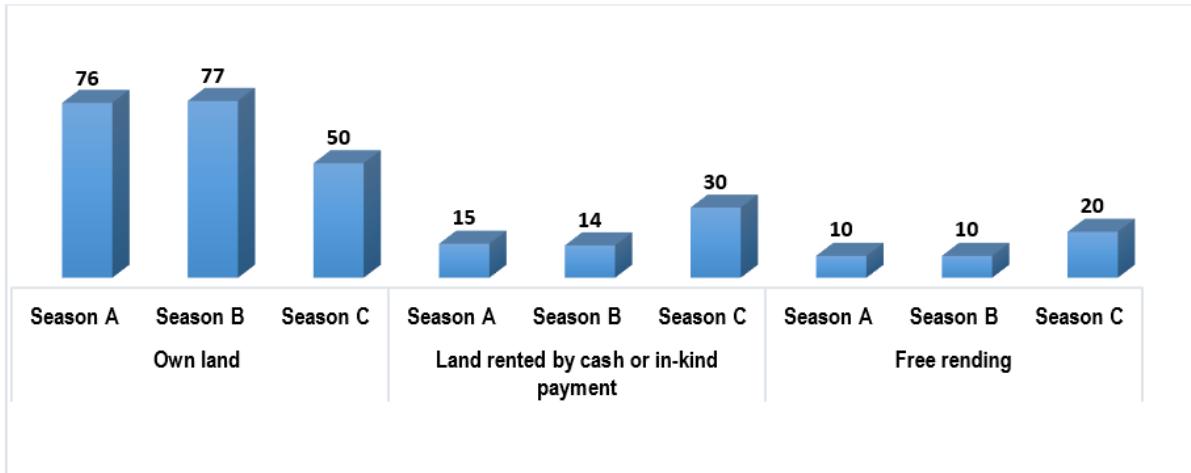
3.5. Sowing dates

SAS 2019 Season A results indicate that 31.7 % of crops were sown before September 2018(those crops include mostly banana, cassava, taro and rice), 32.4 % of crops were sown September 2018, 23.3.0 % in October 2018 while the rest of crops have been sown after October 2018. For 2019 season B, 30.9 % of the crops have been sown before January 2019, 11.4 % in January 2019, 26.9 % in February 2019, 26.1 % in March 2019 while the rest was sown after 31/3/ 2019. For Season C 2019, 35.1 % of crops were grown in June 2019 and 31.6 % in July 2019 (See district details in Table 24 and 25).

3.6. Land status and Tenure

Results from figure 13 show that land ownership was at 76% and 77% in Season A and B respectively, land rented by cash or in-Kind payment was around 15% and 14% in season A and B respectively, while free rending of land was around 10% in both seasons. (See district details in Table 56 and 57).

Figure 13: Agricultural land ownership



Source: NISR, SAS 2019

3.7. Gross Value Added (GVA)

Table 3 shows the Gross Value-Added value of different crops in current prices. It is revealed that in 2018 the gross added value of crops, such as maize, cooking banana, dessert banana, groundnuts and soybean, were increased comparing to the 2018 year.

Table 3: Main crops Gross Value Added in current prices (Value RWF per ha)

| Crop name | 2015 | 2016 | 2017 | 2018 |
|-----------------|-----------|-----------|-----------|-----------|
| Sorghum | 287,157 | 290,457 | 405,456 | 325,105 |
| Maize | 240,241 | 274,620 | 275,805 | 298,617 |
| Wheat | 286,658 | 245,098 | 296,963 | 281,592 |
| Paddy rice | 2,269,385 | 2,165,030 | 2,932,325 | 2,733,423 |
| Irish potato | 1,083,057 | 1,449,409 | 1,787,205 | 1,493,880 |
| Sweet potato | 658,185 | 766,847 | 936,594 | 711,444 |
| Cassava | 279,090 | 384,400 | 849,635 | 775,041 |
| Beans | 343,667 | 352,404 | 357,121 | 312,606 |
| Pea | 330,864 | 545,926 | 477,748 | 280,124 |
| Banana for beer | 414,587 | 492,776 | 837,380 | 762,591 |
| Cooking banana | 735,558 | 779,767 | 1,272,422 | 1,839,108 |
| Dessert banana | 720,062 | 836,628 | 1,222,897 | 1,371,102 |
| Groundnuts | 191,745 | 202,714 | 223,864 | 252,331 |
| Soybeans | 105,788 | 94,058 | 101,512 | 101,768 |

Source: NISR, SAS 2019

MAIN TABLES

Table 4: Season A 2019 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 midow and pasture | Area under permanent pasture | Modern irrigated agricultural land |
|-------------------|-----------------|-------------------|------------------------|--------------|--------------------------|---------------------------|----------------------------|-----------------------|-------------------------------|------------------------------|------------------------------------|
| Nyarugenge | 13.1 | 6.4 | 48.9 | 4.4 | 5.4 | 3.8 | 3.6 | 0.6 | 0.4 | - | 0 |
| Gasabo | 42.7 | 24.1 | 56.4 | 23.0 | 20.4 | 21.3 | 10.7 | 1.7 | 1.5 | 0.6 | 0.2 |
| Kicukiro | 16.6 | 6.4 | 38.6 | 5.8 | 5.8 | 5.3 | 2.6 | 0.5 | 0.1 | 0.1 | 0.1 |
| Nyanza | 67.1 | 46.6 | 69.4 | 40.3 | 37.6 | 33.9 | 14.1 | 6.4 | 0.2 | 2.3 | 0.8 |
| Gisagara | 67.3 | 44.1 | 65.5 | 42.4 | 38.9 | 37.9 | 20.2 | 4.5 | 0.6 | 0.1 | 1.7 |
| Nyaruguru | 100.7 | 28.9 | 28.7 | 24.3 | 20.4 | 20.3 | 12.2 | 4 | 0.7 | 0.1 | 0 |
| Huye | 58.1 | 29.3 | 50.4 | 27.4 | 23.5 | 22.4 | 9.9 | 4.9 | 0 | 0.8 | 0.9 |
| Nyamagabe | 109.1 | 42.7 | 39.1 | 34.1 | 31.0 | 29.4 | 16.6 | 4.7 | 0.1 | 0.6 | 0 |
| Ruhango | 62.6 | 45.5 | 72.7 | 42.1 | 39.9 | 36.5 | 14 | 5.6 | 0.1 | - | 0.9 |
| Muhanga | 64.4 | 43.1 | 66.9 | 40.6 | 40.6 | 38.2 | 29.1 | 2.4 | 0.1 | - | 0.3 |
| Kamonyi | 65.8 | 48 | 72.9 | 44.2 | 44.6 | 41.4 | 24.9 | 2.9 | 0.2 | 0.4 | 0.2 |
| Karongi | 78.9 | 43.8 | 55.5 | 32.4 | 33.8 | 29.2 | 22.9 | 3.2 | 0.1 | - | - |
| Rutsiro | 66 | 42.3 | 64.1 | 33.5 | 32.7 | 29.3 | 15 | 4.2 | 0.1 | 3.7 | - |
| Rubavu | 33.8 | 21.6 | 63.9 | 20.0 | 16.2 | 16.1 | 1.8 | 3.9 | 0.2 | 1 | - |
| Nyabihu | 53.6 | 33.6 | 62.7 | 30.5 | 29.0 | 28.2 | 6.3 | 2.3 | 0.1 | 0.4 | - |
| Ngororero | 67.5 | 44 | 65.2 | 36.4 | 37.7 | 34.2 | 19.5 | 2.3 | 0.2 | 2.4 | - |
| Rusizi | 91.4 | 37.2 | 40.7 | 34.4 | 34.6 | 32.9 | 12.8 | 1.5 | 0 | - | 1.5 |
| Nyamasheke | 94.8 | 38 | 40.1 | 26.3 | 28.8 | 25 | 21.2 | 1.3 | 0.4 | - | 0.3 |
| Rulindo | 56.7 | 34 | 60 | 31.6 | 31.8 | 31 | 20.1 | 0.6 | 0.1 | 0 | 0 |
| Gakenke | 70.1 | 45.7 | 65.2 | 43.0 | 44.1 | 41.7 | 23 | 1.3 | 0.3 | - | - |
| Musanze | 50.9 | 27.6 | 54.2 | 25.9 | 25.0 | 25.2 | 2.4 | 0.8 | 0.3 | 1.6 | 0 |
| Burera | 58.4 | 35.4 | 60.6 | 35.1 | 34.4 | 34.4 | 5 | 0.8 | 0.1 | 0.1 | - |
| Gicumbi | 82.5 | 61.1 | 74.1 | 56.9 | 53.9 | 53 | 21.7 | 3.9 | 0.2 | 0.6 | - |
| Rwamagana | 65.3 | 46.1 | 70.6 | 39.7 | 40.1 | 38.2 | 23.5 | 1.5 | 0.9 | 3.6 | 0.5 |
| Nyagatare | 191.1 | 151.8 | 79.4 | 82.7 | 79.7 | 77.6 | 28.3 | 5.1 | 0 | 67 | 3.2 |
| Gatsibo | 153.6 | 79.7 | 51.9 | 55.8 | 61.2 | 54.1 | 28.3 | 1.7 | 0.1 | 16.6 | 1.5 |
| Kayonza | 179.2 | 94.1 | 52.5 | 58.2 | 56.0 | 51.1 | 23.2 | 7.1 | 0.1 | 31 | 1.5 |
| Kirehe | 114.9 | 70.3 | 61.2 | 57.5 | 61.7 | 54.5 | 33.5 | 3 | 0.1 | 5.5 | 2.4 |
| Ngoma | 80.5 | 55.7 | 69.2 | 49.7 | 49.6 | 47.1 | 26.2 | 2.6 | 0 | 3.5 | 0.8 |
| Bugesera | 120.4 | 84.2 | 69.9 | 70.2 | 55.4 | 47.8 | 21.5 | 22.4 | 0.9 | 5.5 | 1.3 |
| National | 2377 | 1411 | 59.4 | 1,149 | 1,114 | 1,041.0 | 514 | 107.7 | 8.1 | 147 | 18 |

Source: NISR, SAS 2019

Table 5: Season B 2019 Agricultural land use per district (,000Ha)

| District | Total land area | Agriculture Land | % of agriculture area | Arable land | Physical cultivated land | Area under Seasonal crops | Area under Permanent crops | Temporary fallow land | Temporarily midow and Pasture | Area under Permanent pasture | Irrigated agricultural land |
|-----------------|-----------------|------------------|-----------------------|----------------|--------------------------|---------------------------|----------------------------|-----------------------|-------------------------------|------------------------------|-----------------------------|
| Nyarugenge | 13.1 | 6 | 46.1 | 4.2 | 5.2 | 3.3 | 3.3 | 0.9 | - | - | 0.1 |
| Gasabo | 42.7 | 23.9 | 55.9 | 22.7 | 19.9 | 20.4 | 10 | 2.3 | 1.1 | 0.6 | 0.3 |
| Kicukiro | 16.6 | 6.3 | 38.1 | 5.8 | 5.7 | 5.3 | 2.6 | 0.6 | 0 | 0.1 | - |
| Nyanza | 67.1 | 47 | 70.1 | 40.4 | 37.1 | 34.1 | 13.5 | 6.3 | 0.3 | 3.3 | 0.9 |
| Gisagara | 67.3 | 46.7 | 69.4 | 44.1 | 39.2 | 36.7 | 16.2 | 7.4 | 0.1 | 0.1 | 3.6 |
| Nyaruguru | 100.7 | 28.6 | 28.4 | 24.0 | 21.1 | 20.6 | 11.1 | 3.4 | 0.5 | 0.1 | 0 |
| Huye | 58.1 | 29.7 | 51.2 | 28.2 | 24.9 | 24.1 | 8.9 | 4.1 | 0 | 0.7 | 1.6 |
| Nyamagabe | 109.1 | 42.7 | 39.2 | 34.3 | 31.7 | 30.3 | 18 | 4.1 | 0.1 | 0.6 | 0.1 |
| Ruhango | 62.6 | 45.9 | 73.3 | 43.6 | 41.1 | 38.9 | 14.9 | 4.7 | 0.1 | - | 1.2 |
| Muhanga | 64.4 | 43 | 66.8 | 39.3 | 39.8 | 36.6 | 27.5 | 2.7 | 0.2 | 0.2 | 0.1 |
| Kamonyi | 65.8 | 47.9 | 72.9 | 43.4 | 43.5 | 39.5 | 24.4 | 3.9 | 0.2 | 0.4 | 0.2 |
| Karongi | 78.9 | 44.3 | 56.1 | 34.6 | 33.2 | 30.7 | 23.2 | 3.9 | 0.3 | 0.1 | - |
| Rutsiro | 66 | 41.9 | 63.4 | 31.3 | 31.2 | 26 | 14.5 | 5.3 | 0 | 3.7 | - |
| Rubavu | 33.8 | 18.7 | 55.5 | 17.0 | 15.8 | 15.8 | 1.8 | 1.2 | 0.4 | 1 | - |
| Nyabihu | 53.6 | 33.6 | 62.7 | 30.3 | 24.8 | 24.2 | 6.5 | 6.1 | 0.4 | 0.4 | - |
| Ngororero | 67.5 | 42.7 | 63.3 | 34.5 | 34.1 | 29.9 | 18.1 | 4.5 | 0.2 | 2.5 | - |
| Rusizi | 91.4 | 37.2 | 40.7 | 33.7 | 33.9 | 31.5 | 12.4 | 2.3 | 0 | - | 1.5 |
| Nyamasheke | 94.8 | 38.7 | 40.8 | 26.3 | 28.4 | 24.2 | 21 | 2.1 | 0.6 | - | 0.4 |
| Rulindo | 56.7 | 34 | 60 | 30.9 | 31.6 | 30 | 19.6 | 0.8 | 0.1 | - | 0.2 |
| Gakenke | 70.1 | 45.7 | 65.2 | 39.0 | 44.2 | 37.7 | 23.9 | 1.3 | 0.2 | - | - |
| Musanze | 50.9 | 27 | 53.1 | 24.8 | 20.3 | 20.1 | 2.5 | 4.6 | 0.2 | 1.9 | - |
| Burera | 58.4 | 35.5 | 60.7 | 35.3 | 33.8 | 33.8 | 5.1 | 1.5 | 0.2 | 0.1 | - |
| Gicumbi | 82.5 | 61 | 74 | 56.3 | 53.8 | 52.5 | 18.8 | 3.8 | 0.4 | 0.6 | - |
| Rwamagana | 65.3 | 46.5 | 71.1 | 40.0 | 40.5 | 38.6 | 22.7 | 1.5 | 1.3 | 3.2 | 0.3 |
| Nyagatare | 191.1 | 151.2 | 79.1 | 80.3 | 81.3 | 77.8 | 24.6 | 2.5 | 0 | 67.4 | 2.7 |
| Gatsibo | 153.6 | 79.6 | 51.8 | 56.7 | 61.2 | 55.1 | 29.7 | 1.7 | 0.2 | 16.5 | 1.8 |
| Kayonza | 179.2 | 94.3 | 52.6 | 60.9 | 60.1 | 57.5 | 23.1 | 3.5 | 0.1 | 30.6 | 1.5 |
| Kirehe | 114.9 | 72.6 | 63.2 | 55.7 | 63.2 | 54.2 | 31.6 | 1.6 | 0.1 | 7.8 | 2.1 |
| Ngoma | 80.5 | 56.2 | 69.8 | 47.0 | 48.1 | 42.4 | 24.5 | 4.7 | 0 | 3.5 | 1.2 |
| Bugesera | 120.4 | 86.3 | 71.7 | 74.4 | 58.3 | 52.9 | 21.3 | 21.4 | 0.9 | 5.6 | 1.8 |
| National | 2,377.10 | 1,414.7 | 59.5 | 1,139.0 | 1,106.8 | 1,024.50 | 495.5 | 114.6 | 8.1 | 151 | 21.4 |

Source: NISR, SAS 2019

Table 6: Average plot size by cropping system per Season and district in 2019 (in sqm)

| District | Pure Plots | | | Mixed plots | | | Overall | | |
|-----------------|--------------|--------------|------------|--------------|--------------|------------|--------------|--------------|------------|
| | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | 3,177 | 1,982 | 36,998 | 1,498 | 1,555 | 1,500 | 1,968 | 1,715 | 18,788 |
| Gasabo | 1,814 | 1,597 | 694 | 1,767 | 1,848 | 1,837 | 1,775 | 1,787 | 967 |
| Kicukiro | 2,217 | 1,699 | | 2,130 | 2,188 | | 2,146 | 2,081 | |
| Nyanza | 1,399 | 1,459 | 608 | 1,195 | 1,154 | 715 | 1,261 | 1,258 | 658 |
| Gisagara | 1,731 | 1,420 | 937 | 1,503 | 1,424 | 1,299 | 1,540 | 1,423 | 1,046 |
| Nyaruguru | 606 | 631 | 452 | 1,010 | 963 | 399 | 854 | 833 | 442 |
| Huye | 837 | 902 | 457 | 963 | 904 | 766 | 933 | 904 | 576 |
| Nyamagabe | 838 | 804 | 585 | 1,190 | 1,211 | 873 | 1,083 | 1,094 | 717 |
| Ruhango | 910 | 837 | 749 | 1,140 | 1,126 | 812 | 1,045 | 1,020 | 769 |
| Muhanga | 830 | 1,024 | 492 | 1,315 | 1,286 | 649 | 1,213 | 1,225 | 580 |
| Kamonyi | 934 | 849 | 439 | 1,436 | 1,452 | 1,047 | 1,294 | 1,285 | 729 |
| Karongi | 847 | 703 | 501 | 1,116 | 1,206 | 734 | 1,018 | 1,019 | 544 |
| Rutsiro | 761 | 956 | 1,108 | 898 | 842 | 1,034 | 858 | 886 | 1,069 |
| Rubavu | 1,118 | 1,128 | 1,192 | 1,076 | 1,070 | 1,082 | 1,100 | 1,108 | 1,181 |
| Nyabihu | 1,035 | 1,110 | 1,098 | 1,126 | 1,057 | 1,159 | 1,081 | 1,089 | 1,114 |
| Ngororero | 618 | 991 | 1,213 | 1,069 | 1,094 | 902 | 937 | 1,054 | 1,111 |
| Rusizi | 1,370 | 1,322 | 1,695 | 1,386 | 1,385 | 938 | 1,383 | 1,356 | 1,496 |
| Nyamasheke | 839 | 835 | 527 | 975 | 949 | 693 | 929 | 901 | 545 |
| Rulindo | 571 | 572 | 931 | 1,265 | 1,330 | 710 | 1,147 | 1,130 | 854 |
| Gakenke | 553 | 637 | 403 | 1,072 | 1,163 | 804 | 940 | 960 | 531 |
| Musanze | 1,134 | 1,054 | 1,165 | 935 | 917 | 957 | 1,017 | 983 | 1,095 |
| Burera | 820 | 772 | 936 | 1,005 | 1,042 | 1,040 | 943 | 936 | 965 |
| Gicumbi | 913 | 829 | 1,436 | 1,361 | 1,372 | 1,938 | 1,219 | 1,189 | 1,565 |
| Rwamagana | 2,063 | 2,604 | 766 | 2,085 | 1,982 | 800 | 2,082 | 2,112 | 779 |
| Nyagatare | 3,192 | 14,672 | 2,024 | 3,922 | 3,738 | 897 | 3,813 | 6,246 | 1,823 |
| Gatsibo | 1,742 | 3,271 | 688 | 2,133 | 2,127 | 1,150 | 2,017 | 2,482 | 808 |
| Kayonza | 2,912 | 8,272 | 2,112 | 2,485 | 2,544 | 1,421 | 2,590 | 3,781 | 1,905 |
| Kirehe | 2,973 | 3,687 | 1,191 | 2,889 | 3,006 | 1,142 | 2,911 | 3,193 | 1,167 |
| Ngoma | 1,332 | 1,673 | | 1,645 | 1,698 | | 1,573 | 1,691 | |
| Bugesera | 2,595 | 3,049 | 674 | 2,628 | 2,684 | 1,211 | 2,616 | 2,786 | 1,089 |
| National | 1,155 | 1,578 | 963 | 1,465 | 1,501 | 997 | 1,374 | 1,527 | 974 |

NISR, SAS, 2019

Table 7: Season A 2019_Cultivated area by crop type per district (ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potato | Irish potato | Yams & Taro | Bananas | Beans | Pea | Groundnut | Soybean | Vegetables | Fruits | Other crops | Total Developed Crop area |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------------------|
| Nyarugenge | 561 | - | - | - | 1,036 | 379 | 22 | 33 | 1,522 | 1,362 | 5 | 15 | 51 | 199 | 24 | 1,529 | 6,846 |
| Gasabo | 4,379 | 17 | 164 | - | 2,853 | 2,172 | 695 | 177 | 4,467 | 7,626 | 180 | 533 | 482 | 619 | 239 | 636 | 26,669 |
| Kicukiro | 1,707 | - | - | - | 892 | 271 | 7 | 32 | 1,094 | 2,031 | - | 81 | 73 | 122 | 10 | 60 | 6,424 |
| Nyanza | 3,889 | 360 | 359 | - | 12,027 | 2,422 | 482 | 185 | 4,748 | 8,552 | 341 | 1,405 | 1,467 | 731 | 145 | 2,779 | 40,241 |
| Gisagara | 6,286 | 295 | 2,085 | - | 7,923 | 4,307 | 552 | 264 | 7,484 | 12,405 | 123 | 1,166 | 2,168 | 420 | 31 | 2,246 | 48,818 |
| Nyaruguru | 2,818 | - | 7 | 13 | 4,855 | 4,963 | 1,302 | 410 | 2,630 | 4,138 | 350 | 53 | 875 | 214 | - | 1,465 | 24,851 |
| Huye | 2,396 | 35 | 895 | - | 4,356 | 2,453 | 379 | 336 | 3,389 | 9,147 | 429 | 245 | 2,225 | 241 | 42 | 723 | 27,593 |
| Nyamagabe | 3,318 | - | - | - | 5,300 | 5,024 | 1,718 | 255 | 4,403 | 8,231 | 2,049 | - | 751 | 200 | 56 | 920 | 32,338 |
| Ruhango | 1,743 | - | 887 | - | 21,800 | 1,223 | 227 | 168 | 8,070 | 10,582 | 153 | 850 | 1,887 | 487 | 536 | 1,111 | 50,004 |
| Muhanga | 1,949 | - | 151 | - | 8,540 | 5,347 | 183 | 2,051 | 18,282 | 9,484 | 444 | 22 | 3,946 | 263 | 3 | 766 | 52,122 |
| Kamonyi | 5,397 | - | 205 | - | 10,865 | 3,737 | 348 | 759 | 12,318 | 12,365 | 65 | 889 | 1,734 | 591 | 279 | 1,275 | 50,993 |
| Karongi | 5,101 | 3 | 12 | - | 7,386 | 5,448 | 786 | 755 | 10,808 | 5,597 | 557 | 30 | 463 | 162 | 149 | 1,167 | 38,544 |
| Rutsiro | 10,059 | 48 | - | 66 | 2,216 | 3,132 | 3,616 | 863 | 6,353 | 5,136 | 678 | - | 853 | 497 | 577 | 3,608 | 37,848 |
| Rubavu | 4,258 | 116 | - | 220 | 10 | 498 | 5,332 | 95 | 621 | 2,647 | 384 | - | - | 1,067 | 28 | 795 | 16,214 |
| Nyabihu | 3,818 | 366 | - | 536 | 235 | 3,478 | 7,584 | 82 | 1,527 | 6,007 | 2,116 | - | 70 | 892 | 75 | 3,056 | 29,884 |
| Ngororero | 5,330 | 260 | 31 | 264 | 5,006 | 6,968 | 1,632 | 1,251 | 12,581 | 7,779 | 475 | - | 834 | 122 | 695 | 832 | 44,210 |
| Rusizi | 9,444 | 60 | 1,472 | - | 18,399 | 1,636 | 131 | 948 | 3,830 | 9,654 | 75 | 80 | 149 | 235 | 486 | 2,615 | 49,251 |
| Nyamasheke | 5,687 | - | 327 | 11 | 11,070 | 3,108 | 38 | 861 | 4,436 | 5,749 | 50 | 573 | 1,006 | 340 | 229 | 4,131 | 38,000 |
| Rulindo | 6,602 | - | 16 | 3 | 5,710 | 4,458 | 781 | 118 | 9,868 | 13,543 | 741 | 243 | 863 | 540 | 71 | 662 | 44,354 |
| Gakenke | 9,564 | - | - | - | 4,327 | 7,499 | 1,831 | 1,190 | 14,765 | 10,223 | 748 | 223 | 360 | 288 | 496 | 1,189 | 53,244 |
| Musanze | 6,955 | 1,586 | - | 3,253 | 425 | 1,994 | 4,082 | 176 | 1,296 | 2,475 | 293 | - | 19 | 1,036 | 169 | 1,457 | 25,487 |
| Burera | 9,631 | 2,410 | - | 767 | 292 | 4,278 | 4,440 | 81 | 2,808 | 9,020 | 1,749 | - | - | 563 | 509 | 380 | 37,041 |
| Gicumbi | 5,570 | 606 | - | 54 | 2,807 | 7,696 | 5,252 | 287 | 8,007 | 21,143 | 2,775 | 538 | 84 | 856 | 178 | 684 | 56,714 |
| Rwamagana | 7,802 | - | 339 | - | 7,913 | 1,447 | 1,596 | 423 | 13,839 | 13,869 | 422 | 1,637 | 383 | 1,583 | 1,224 | 2,868 | 56,277 |
| Nyagatare | 26,456 | 15,726 | 2,373 | - | 10,309 | 2,961 | 823 | 51 | 13,271 | 20,589 | 808 | 5,942 | 1,291 | 413 | 116 | 872 | 102,785 |
| Gatsibo | 16,705 | 3,225 | 1,410 | 300 | 2,174 | 2,268 | 1,510 | 23 | 18,322 | 21,237 | 408 | 2,480 | 587 | 941 | 53 | 2,148 | 73,903 |
| Kayonza | 8,360 | 1,914 | 872 | - | 9,325 | 2,627 | 1,970 | 244 | 12,202 | 15,399 | 576 | 1,275 | 382 | 370 | 122 | 832 | 57,222 |
| Kirehe | 17,027 | 345 | 839 | - | 10,065 | 682 | 1,288 | 65 | 20,084 | 20,017 | 220 | 1,157 | 468 | 95 | - | 1,308 | 73,797 |
| Ngoma | 16,496 | 273 | 956 | - | 9,713 | 1,796 | 999 | 170 | 18,091 | 12,850 | 440 | 1,474 | 398 | 239 | 886 | 968 | 66,401 |
| Bugesera | 5,850 | 2,824 | 1,271 | - | 7,304 | 3,370 | 122 | 343 | 12,881 | 10,585 | - | 3,019 | 724 | 687 | 957 | 321 | 51,178 |
| Total | 215,159 | 30,467 | 14,671 | 5,487 | 195,135 | 97,639 | 49,728 | 12,695 | 253,996 | 299,443 | 17,658 | 23,929 | 24,593 | 15,012 | 8,383 | 43,405 | 1,319,256 |

Source: NISR, SAS 2019

Table 8: Season B 2019_Cultivated area by crop type per District (ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potato | Irish potato | Yam & Taro | Banana | Beans | Pea | Groundnut | Soybean | Vegetables | Fruits | Other crops | Total developed Crop area |
|-----------------|---------------|----------------|---------------|--------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------|---------------|---------------|---------------|--------------|---------------|---------------------------|
| Nyarugenge | 129 | 572 | - | - | 1,046 | 73 | 11 | 25 | 1,452 | 1,056 | - | 50 | 48 | 184 | 28 | 1,043 | 5,717 |
| Gasabo | 910 | 5,545 | 243 | - | 3,187 | 880 | 658 | 128 | 3,540 | 4,617 | 53 | 133 | 183 | 505 | 150 | 485 | 22,205 |
| Kicukiro | 341 | 1,301 | - | - | 808 | 424 | 60 | 12 | 1,134 | 1,401 | - | 60 | 110 | 221 | 15 | 115 | 6,010 |
| Nyanza | 1,638 | 5,409 | 812 | - | 11,585 | 2,244 | 314 | 449 | 4,037 | 9,559 | 168 | 896 | 1,058 | 731 | 91 | 2,786 | 42,104 |
| Gisagara | 1,913 | 4,397 | 3,528 | - | 6,701 | 1,911 | 233 | 157 | 5,241 | 12,774 | 42 | 403 | 1,675 | 430 | 15 | 1,732 | 41,685 |
| Nyaruguru | 508 | 2,809 | - | 354 | 4,629 | 3,710 | 1,238 | 284 | 2,427 | 3,364 | 107 | 25 | 571 | 208 | - | 1,138 | 21,823 |
| Huye | 461 | 6,500 | 1,401 | - | 4,639 | 2,250 | 306 | 497 | 2,953 | 5,756 | 38 | 140 | 1,715 | 230 | 22 | 518 | 27,455 |
| Nyamagabe | 402 | 4,025 | - | 913 | 4,998 | 6,373 | 2,455 | 265 | 4,258 | 5,446 | 1,032 | - | 602 | 320 | 26 | 845 | 32,154 |
| Ruhango | 1,013 | 2,134 | 1,823 | - | 21,806 | 2,801 | 263 | 396 | 7,025 | 9,786 | 15 | 2,006 | 1,641 | 257 | 468 | 1,232 | 52,800 |
| Muhanga | 325 | 164 | 148 | - | 9,088 | 5,534 | 127 | 1,806 | 16,911 | 9,232 | 41 | 42 | 2,921 | 476 | 86 | 697 | 47,774 |
| Kamonyi | 1,932 | 3,709 | 180 | - | 11,039 | 3,039 | 691 | 1,197 | 12,371 | 10,244 | 16 | 690 | 1,606 | 746 | 329 | 1,243 | 49,187 |
| Karongi | 563 | 2,659 | - | 308 | 7,883 | 4,857 | 633 | 904 | 10,181 | 6,780 | 287 | 73 | 867 | 253 | 280 | 1,038 | 37,931 |
| Rutsiro | 1,937 | 18 | - | 476 | 2,319 | 3,008 | 3,972 | 1,149 | 6,544 | 4,878 | 457 | - | 1,145 | 496 | 479 | 3,515 | 30,476 |
| Rubavu | 1,233 | 716 | - | 16 | 4 | 581 | 6,154 | 176 | 568 | 2,898 | 279 | - | - | 1,279 | 72 | 1,199 | 15,459 |
| Nyabihu | 3,335 | - | - | 1,350 | 257 | 2,772 | 7,112 | 177 | 1,687 | 1,978 | 337 | - | 13 | 213 | 71 | 3,042 | 22,622 |
| Ngororero | 1,723 | - | - | 1,256 | 4,980 | 6,456 | 1,943 | 1,397 | 10,259 | 3,028 | 238 | - | 684 | 252 | 438 | 965 | 33,773 |
| Rusizi | 1,074 | 61 | 1,539 | - | 17,037 | 1,747 | 36 | 624 | 3,899 | 7,022 | 2 | 24 | 280 | 510 | 471 | 2,272 | 36,632 |
| Nyamasheke | 459 | 6 | 523 | 18 | 10,261 | 2,970 | 66 | 933 | 3,799 | 4,247 | 37 | 643 | 1,809 | 262 | 252 | 4,326 | 31,187 |
| Rulindo | 1,095 | 3,985 | 17 | 386 | 5,459 | 2,946 | 1,306 | 116 | 8,470 | 10,228 | 449 | 183 | 345 | 281 | 58 | 624 | 36,017 |
| Gakenke | 1,440 | 486 | - | 329 | 3,606 | 6,087 | 1,356 | 1,144 | 15,941 | 11,403 | 135 | - | 92 | 294 | 411 | 1,272 | 44,143 |
| Musanze | 2,570 | - | - | 446 | 373 | 1,193 | 4,359 | 192 | 1,393 | 5,058 | 415 | - | 3 | 745 | 292 | 1,812 | 19,052 |
| Burera | 2,434 | 4,784 | - | 1,335 | 196 | 3,124 | 4,918 | 250 | 2,361 | 10,800 | 1,480 | - | 26 | 705 | 401 | 204 | 33,174 |
| Gicumbi | 1,461 | 17,159 | - | 208 | 1,890 | 5,378 | 3,523 | 194 | 6,569 | 12,623 | 461 | 209 | 71 | 597 | 121 | 612 | 51,319 |
| Rwamagana | 3,288 | 8,471 | 368 | - | 5,264 | 949 | 1,450 | 818 | 12,224 | 8,377 | 23 | 311 | 108 | 1,665 | 696 | 2,418 | 47,425 |
| Nyagatare | 19,524 | 10,170 | 2,052 | 16 | 9,291 | 1,834 | 1,069 | 177 | 11,727 | 30,970 | 90 | 4,053 | 1,274 | 1,395 | 116 | 803 | 94,585 |
| Gatsibo | 7,220 | 9,059 | 1,365 | 336 | 2,168 | 1,006 | 1,961 | 338 | 17,657 | 17,209 | 48 | 4,738 | 910 | 408 | - | 3,481 | 68,057 |
| Kayonza | 5,416 | 15,622 | 953 | - | 11,882 | 1,682 | 2,072 | 326 | 12,614 | 15,428 | 522 | 1,094 | 164 | 166 | 183 | 825 | 69,201 |
| Kirehe | 3,087 | 11,684 | 821 | - | 11,661 | 1,373 | 435 | 897 | 19,039 | 18,144 | 38 | 958 | 1,017 | 118 | - | 977 | 70,473 |
| Ngoma | 1,616 | 3,685 | 1,136 | - | 7,125 | 1,496 | 242 | 205 | 17,383 | 19,110 | 49 | 230 | 322 | 615 | 838 | 1,079 | 55,501 |
| Bugesera | 4,093 | 6,255 | 1,316 | - | 6,327 | 2,223 | 280 | 235 | 12,754 | 18,685 | - | 3,032 | 281 | 410 | 1,049 | 255 | 58,115 |
| National | 73,139 | 131,383 | 18,225 | 7,747 | 187,511 | 80,919 | 49,244 | 15,469 | 236,417 | 282,099 | 6,859 | 19,990 | 21,543 | 14,976 | 7,454 | 42,554 | 1,204,057 |

Source: NISR, SAS 2019

Table 9: Season C 2019_Cultivated area by crop type per District (ha)

| District | Sweet potato | Irish potato | Beans | Pea | Soybean | Vegetables and Fruits | Developed land |
|-----------------|--------------|--------------|--------------|------------|------------|-----------------------|----------------|
| Nyarugenge | 10 | - | 16 | - | 1 | 24 | 50 |
| Gasabo | 37 | - | 2 | - | - | 59 | 99 |
| Nyanza | 128 | - | 52 | 22 | 12 | 231 | 446 |
| Gisagara | 335 | - | 292 | - | 169 | 302 | 1,098 |
| Nyaruguru | 838 | 6 | 94 | - | - | 161 | 1,099 |
| Huye | 287 | 20 | 28 | - | - | 140 | 475 |
| Nyamagabe | 513 | 104 | 34 | 61 | - | 151 | 863 |
| Ruhango | 303 | 11 | 11 | - | - | 267 | 591 |
| Muhanga | 169 | - | 14 | 2 | 83 | - | 268 |
| Kamonyi | 222 | 30 | 74 | 2 | - | 727 | 1,055 |
| Karongi | 29 | 1 | - | - | - | 33 | 64 |
| Rutsiro | 7 | 164 | 6 | 11 | - | 23 | 211 |
| Rubavu | 218 | 658 | - | - | - | 58 | 933 |
| Nyabihu | - | 3,276 | 27 | 158 | - | 271 | 3,733 |
| Ngororero | 38 | 1 | 1 | - | 19 | 1 | 60 |
| Rusizi | 41 | 48 | 13 | - | - | 32 | 135 |
| Nyamasheke | - | - | - | - | - | 24 | 24 |
| Rulindo | 30 | 102 | - | - | - | 88 | 221 |
| Gakenke | 48 | 9 | - | - | - | 61 | 118 |
| Musanze | 477 | 2,487 | 167 | - | - | 341 | 3,471 |
| Burera | 1,159 | 1,203 | 18 | - | - | 162 | 2,542 |
| Gicumbi | - | 442 | 1 | - | - | 7 | 449 |
| Rwamagana | 23 | - | 9 | - | 1 | 115 | 148 |
| Nyagatare | 25 | - | 0 | - | - | 121 | 146 |
| Gatsibo | 84 | 31 | 34 | - | 70 | 156 | 375 |
| Kayonza | - | 3 | - | - | - | 49 | 52 |
| Kirehe | 26 | 9 | 15 | - | - | 72 | 122 |
| Bugesera | 285 | 13 | 220 | - | 204 | 66 | 788 |
| National | 5,331 | 8,618 | 1,128 | 255 | 559 | 3,744 | 19,635 |

Source: NISR, SAS 2019

Table 10: Season A 2019 Harvested area by crop type per district (ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potato | Irish potato | Yams & Taro | Bananas | Beans | Pea | Groundnut | Soybean | vegetables | Fruits | Folder crops | Total Developed crop area |
|-----------------|----------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|--------------|--------------|---------------------------|
| Nyarugenge | 561 | - | - | - | 50 | 379 | 22 | 33 | 652 | 1,362 | 5 | 15 | 51 | 199 | 13 | 109 | 3,720 |
| Gasabo | 4,379 | 17 | 164 | - | 582 | 2,172 | 695 | 177 | 1,145 | 7,626 | 180 | 533 | 482 | 618 | 116 | 1,415 | 20,546 |
| Kicukiro | 1,707 | - | - | - | 40 | 271 | 7 | 32 | 330 | 2,031 | - | 81 | 73 | 122 | 3 | 44 | 4,743 |
| Nyanza | 3,889 | 360 | 359 | - | 3,541 | 2,422 | 482 | 185 | 807 | 8,552 | 341 | 1,405 | 1,467 | 731 | 6 | 15 | 25,532 |
| Gisagara | 6,286 | 295 | 2,085 | - | 1,028 | 4,307 | 552 | 264 | 2,486 | 12,405 | 123 | 1,166 | 2,168 | 420 | 9 | 859 | 34,947 |
| Nyaruguru | 2,818 | - | 7 | 13 | 693 | 4,963 | 1,302 | 410 | 616 | 4,138 | 350 | 53 | 875 | 214 | - | 247 | 16,813 |
| Huye | 2,396 | 35 | 895 | - | 499 | 2,453 | 379 | 336 | 904 | 9,147 | 429 | 245 | 2,225 | 241 | 42 | 16 | 20,530 |
| Nyamagabe | 3,318 | - | - | - | 551 | 5,024 | 1,718 | 255 | 1,627 | 8,231 | 2,049 | - | 751 | 200 | 50 | 70 | 23,843 |
| Ruhango | 1,743 | - | 887 | - | 4,659 | 1,223 | 227 | 168 | 2,390 | 10,582 | 153 | 850 | 1,887 | 487 | 489 | 102 | 26,026 |
| Muhanga | 1,949 | - | 151 | - | 1,229 | 5,347 | 183 | 2,051 | 7,198 | 9,484 | 444 | 22 | 3,946 | 263 | 3 | 102 | 33,069 |
| Kamonyi | 5,397 | - | 205 | - | 2,642 | 3,737 | 348 | 759 | 3,814 | 12,365 | 65 | 889 | 1,734 | 591 | 279 | 167 | 32,991 |
| Karongi | 5,101 | 3 | 12 | - | 1,150 | 5,448 | 786 | 755 | 3,678 | 5,597 | 557 | 30 | 463 | 162 | 142 | 122 | 24,332 |
| Rutsiro | 10,059 | 48 | - | 66 | 84 | 3,132 | 3,616 | 863 | 1,919 | 5,136 | 678 | - | 853 | 497 | 558 | 111 | 28,961 |
| Rubavu | 4,258 | 116 | - | 220 | - | 498 | 5,332 | 95 | 377 | 2,647 | 384 | - | - | 1,067 | 21 | 143 | 15,804 |
| Nyabihu | 3,818 | 366 | - | 536 | 19 | 3,478 | 7,584 | 82 | 316 | 6,007 | 2,116 | - | 70 | 892 | 75 | 41 | 27,732 |
| Ngororero | 5,330 | 260 | 31 | 264 | 865 | 6,968 | 1,632 | 1,251 | 5,302 | 7,779 | 475 | - | 834 | 122 | 514 | 83 | 31,795 |
| Rusizi | 9,444 | 60 | 1,472 | - | 2,586 | 1,636 | 131 | 948 | 726 | 9,654 | 75 | 80 | 149 | 235 | 260 | 37 | 27,522 |
| Nyamasheke | 5,687 | - | 327 | 11 | 1,982 | 3,108 | 38 | 861 | 714 | 5,749 | 50 | 573 | 1,006 | 340 | 193 | 141 | 21,271 |
| Rulindo | 6,602 | - | 16 | 3 | 747 | 4,458 | 781 | 118 | 2,906 | 13,543 | 741 | 243 | 863 | 540 | 3 | 120 | 31,851 |
| Gakenke | 9,564 | - | - | - | 759 | 7,499 | 1,831 | 1,190 | 5,440 | 10,223 | 748 | 223 | 360 | 288 | 496 | 253 | 39,516 |
| Musanze | 6,955 | 1,586 | - | 3,253 | 53 | 1,994 | 4,082 | 176 | 243 | 2,475 | 293 | - | 19 | 1,036 | 153 | 243 | 23,855 |
| Burera | 9,631 | 2,410 | - | 767 | 26 | 4,278 | 4,440 | 81 | 434 | 9,020 | 1,749 | - | - | 563 | 141 | 99 | 33,997 |
| Gicumbi | 5,570 | 606 | - | 54 | 452 | 7,696 | 5,252 | 287 | 2,118 | 21,143 | 2,775 | 538 | 84 | 856 | 158 | 109 | 47,718 |
| Rwamagana | 7,802 | - | 339 | - | 1,997 | 1,447 | 1,596 | 423 | 5,213 | 13,869 | 422 | 1,637 | 383 | 1,379 | 1,315 | 810 | 39,189 |
| Nyagatare | 26,456 | 15,726 | 2,373 | - | 1,241 | 2,961 | 823 | 51 | 4,336 | 20,589 | 808 | 5,942 | 1,291 | 408 | 91 | 21 | 83,981 |
| Gatsibo | 16,705 | 3,225 | 1,410 | 300 | 805 | 2,268 | 1,510 | 23 | 6,730 | 21,237 | 408 | 2,480 | 587 | 941 | 53 | 58 | 58,810 |
| Kayonza | 8,360 | 1,914 | 872 | - | 3,268 | 2,627 | 1,970 | 244 | 3,320 | 15,399 | 576 | 1,275 | 382 | 368 | 21 | 137 | 41,427 |
| Kirehe | 17,027 | 345 | 839 | - | 1,812 | 682 | 1,288 | 65 | 4,929 | 20,017 | 220 | 1,157 | 468 | 95 | - | 52 | 49,081 |
| Ngoma | 16,496 | 273 | 956 | - | 2,001 | 1,796 | 999 | 170 | 5,583 | 12,850 | 440 | 1,474 | 398 | 239 | 794 | 3 | 45,144 |
| Bugesera | 5,850 | 2,824 | 1,271 | - | 1,600 | 3,370 | 122 | 343 | 6,274 | 10,585 | - | 3,019 | 724 | 686 | 587 | 688 | 38,036 |
| National | 215,159 | 30,467 | 14,671 | 5,487 | 36,960 | 97,639 | 49,728 | 12,695 | 82,523 | 299,443 | 17,658 | 23,929 | 24,593 | 14,801 | 6,585 | 6,419 | 952,780 |

Source: NISR, SAS 2019

Table 11: Season B 2019 Harvested area by crop type per district (ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potato | Irish potato | Yam & Taro | Bananas | Beans | Pea | Groundnut | Soybean | vegetables | Fruits | Other crops | Total Developed Crop area |
|-----------------|---------------|----------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|---------------|---------------|---------------|--------------|---------------|---------------------------|
| Nyarugenge | 129 | 572 | - | - | 177 | 73 | 11 | 25 | 685 | 1,056 | - | 50 | 48 | 184 | 24 | 80 | 3,115 |
| Gasabo | 910 | 5,545 | 243 | - | 321 | 880 | 658 | 128 | 976 | 4,617 | 53 | 133 | 183 | 505 | 57 | 409 | 16,591 |
| Kicukiro | 341 | 1,301 | - | - | 83 | 424 | 60 | 12 | 369 | 1,401 | - | 60 | 110 | 221 | 2 | 65 | 4,458 |
| Nyanza | 1,638 | 5,409 | 812 | - | 1,523 | 2,244 | 314 | 449 | 1,000 | 9,559 | 168 | 896 | 1,058 | 731 | 73 | 2,664 | 28,796 |
| Gisagara | 1,913 | 4,397 | 3,528 | - | 2,708 | 1,911 | 233 | 157 | 1,464 | 12,774 | 42 | 403 | 1,675 | 430 | 15 | 1,098 | 33,053 |
| Nyaruguru | 508 | 2,809 | - | 354 | 1,267 | 3,710 | 1,238 | 284 | 443 | 3,364 | 107 | 25 | 571 | 208 | - | 467 | 15,805 |
| Huye | 461 | 6,500 | 1,401 | - | 883 | 2,250 | 306 | 497 | 789 | 5,756 | 38 | 140 | 1,715 | 230 | 13 | 446 | 21,439 |
| Nyamagabe | 402 | 4,025 | - | 913 | 1,067 | 6,373 | 2,455 | 265 | 1,319 | 5,446 | 1,032 | - | 602 | 320 | 26 | 349 | 24,788 |
| Ruhango | 1,013 | 2,134 | 1,823 | - | 6,403 | 2,801 | 263 | 396 | 1,958 | 9,786 | 15 | 2,006 | 1,641 | 257 | 429 | 932 | 31,990 |
| Muhanga | 325 | 164 | 148 | - | 2,555 | 5,534 | 127 | 1,806 | 6,766 | 9,232 | 41 | 42 | 2,921 | 476 | 86 | 680 | 31,080 |
| Kamonyi | 1,932 | 3,709 | 180 | - | 1,080 | 3,039 | 691 | 1,197 | 4,311 | 10,244 | 16 | 690 | 1,606 | 746 | 300 | 1,107 | 31,005 |
| Karongi | 563 | 2,659 | - | 308 | 1,782 | 4,857 | 633 | 904 | 5,007 | 6,780 | 287 | 73 | 867 | 253 | 56 | 384 | 25,581 |
| Rutsiro | 1,937 | 18 | - | 476 | 900 | 3,008 | 3,972 | 1,149 | 2,090 | 4,878 | 457 | - | 1,145 | 496 | 479 | 2,756 | 23,843 |
| Rubavu | 1,233 | 716 | - | 16 | - | 581 | 6,154 | 176 | 183 | 2,898 | 279 | - | - | 1,279 | 52 | 1,001 | 14,852 |
| Nyabihu | 3,335 | - | - | 1,350 | 15 | 2,772 | 7,112 | 177 | 366 | 1,978 | 337 | - | 13 | 213 | 71 | 2,383 | 20,393 |
| Ngororero | 1,723 | - | - | 1,256 | 210 | 6,456 | 1,943 | 1,397 | 3,541 | 3,028 | 238 | - | 684 | 252 | 410 | 645 | 21,938 |
| Rusizi | 1,074 | 61 | 1,539 | - | 7,755 | 1,747 | 36 | 624 | 1,140 | 7,022 | 2 | 24 | 280 | 510 | 421 | 1,431 | 23,701 |
| Nyamasheke | 459 | 6 | 523 | 18 | 3,828 | 2,970 | 66 | 933 | 1,018 | 4,247 | 37 | 643 | 1,809 | 262 | 173 | 2,443 | 20,011 |
| Rulindo | 1,095 | 3,985 | 17 | 386 | 1,095 | 2,946 | 1,306 | 116 | 2,442 | 10,228 | 449 | 183 | 345 | 281 | 46 | 470 | 25,459 |
| Gakenke | 1,440 | 486 | - | 329 | 1,012 | 6,087 | 1,356 | 1,144 | 5,772 | 11,403 | 135 | - | 92 | 294 | 402 | 1,100 | 31,181 |
| Musanze | 2,570 | - | - | 446 | 26 | 1,193 | 4,359 | 192 | 349 | 5,058 | 415 | - | 3 | 745 | 289 | 1,798 | 17,636 |
| Burera | 2,434 | 4,784 | - | 1,335 | 28 | 3,124 | 4,918 | 250 | 519 | 10,800 | 1,480 | - | 26 | 705 | 364 | 204 | 31,106 |
| Gicumbi | 1,461 | 17,159 | - | 208 | 417 | 5,378 | 3,523 | 194 | 1,665 | 12,623 | 461 | 209 | 71 | 597 | 121 | 496 | 44,825 |
| Rwamagana | 3,288 | 8,471 | 368 | - | 1,469 | 949 | 1,450 | 818 | 3,511 | 8,377 | 23 | 311 | 108 | 1,665 | 693 | 1,936 | 34,426 |
| Nyagatare | 19,524 | 10,170 | 2,052 | 16 | 1,490 | 1,834 | 1,069 | 177 | 3,971 | 30,970 | 90 | 4,053 | 1,274 | 1,394 | 92 | 337 | 78,538 |
| Gatsibo | 7,220 | 9,059 | 1,365 | 336 | 680 | 1,006 | 1,961 | 338 | 5,138 | 17,209 | 48 | 4,738 | 910 | 408 | - | 3,338 | 53,907 |
| Kayonza | 5,416 | 15,622 | 953 | - | 2,452 | 1,682 | 2,072 | 326 | 2,783 | 15,428 | 522 | 1,094 | 164 | 163 | 110 | 761 | 49,800 |
| Kirehe | 3,087 | 11,684 | 821 | - | 1,817 | 1,373 | 435 | 897 | 3,764 | 18,144 | 38 | 958 | 1,017 | 118 | - | 784 | 45,161 |
| Ngoma | 1,616 | 3,685 | 1,136 | - | 1,299 | 1,496 | 242 | 205 | 5,025 | 19,110 | 49 | 230 | 322 | 615 | 756 | 349 | 36,505 |
| Bugesera | 4,093 | 6,255 | 1,316 | - | 323 | 2,223 | 280 | 235 | 6,369 | 18,685 | - | 3,032 | 281 | 410 | 62 | 82 | 44,565 |
| National | 73,139 | 131,383 | 18,225 | 7,747 | 44,667 | 80,919 | 49,244 | 15,469 | 74,733 | 282,099 | 6,859 | 19,990 | 21,543 | 14,972 | 5,623 | 30,995 | 885,548 |

Source: NISR, SAS 2019

Table 12: Season C 2019 Harvested area by crop type per district (ha)

| District | Sweet potato | Irish potato | Beans | Pea | Soybean | Vegetables and Fruits | Developed land |
|-----------------|--------------|--------------|--------------|------------|------------|-----------------------|----------------|
| Nyarugenge | 10 | - | 16 | - | 1 | 24 | 50 |
| Gasabo | 37 | - | 2 | - | - | 59 | 99 |
| Nyanza | 128 | - | 52 | 22 | 12 | 231 | 446 |
| Gisagara | 335 | - | 292 | - | 169 | 302 | 1,098 |
| Nyaruguru | 838 | 6 | 94 | - | - | 161 | 1,099 |
| Huye | 287 | 20 | 28 | - | - | 140 | 475 |
| Nyamagabe | 513 | 104 | 34 | 61 | - | 151 | 863 |
| Ruhango | 303 | 11 | 11 | - | - | 267 | 591 |
| Muhanga | 169 | - | 14 | 2 | 83 | - | 268 |
| Kamonyi | 222 | 30 | 74 | 2 | - | 727 | 1,055 |
| Karongi | 29 | 1 | - | - | - | 33 | 64 |
| Rutsiro | 7 | 164 | 6 | 11 | - | 23 | 211 |
| Rubavu | 218 | 658 | - | - | - | 58 | 933 |
| Nyabihu | - | 3,276 | 27 | 158 | - | 271 | 3,733 |
| Ngororero | 38 | 1 | 1 | - | 19 | 1 | 60 |
| Rusizi | 41 | 48 | 13 | - | - | 32 | 135 |
| Nyamasheke | - | - | - | - | - | 24 | 24 |
| Rulindo | 30 | 102 | - | - | - | 88 | 221 |
| Gakenke | 48 | 9 | - | - | - | 61 | 118 |
| Musanze | 477 | 2,487 | 167 | - | - | 341 | 3,471 |
| Burera | 1,159 | 1,203 | 18 | - | - | 162 | 2,542 |
| Gicumbi | - | 442 | 1 | - | - | 7 | 449 |
| Rwamagana | 23 | - | 9 | - | 1 | 115 | 148 |
| Nyagatare | 25 | - | 0 | - | - | 121 | 146 |
| Gatsibo | 84 | 31 | 34 | - | 70 | 156 | 375 |
| Kayonza | - | 3 | - | - | - | 49 | 52 |
| Kirehe | 26 | 9 | 15 | - | - | 72 | 122 |
| Bugesera | 285 | 13 | 220 | - | 204 | 66 | 788 |
| National | 5,331 | 8,618 | 1,128 | 255 | 559 | 3,744 | 19,635 |

Source: NISR, SAS 2019

Table 13: Season A 2019 Average yield by crop type per district (Kg/Ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potatoes | Irish potatoes | Yams & Taro | Banana | Beans | Peas | Ground nuts | Soya beans | Vegetables | Fruits |
|-----------------|--------------|--------------|--------------|--------------|---------------|----------------|----------------|--------------|---------------|------------|------------|-------------|------------|---------------|--------------|
| Nyarugenge | 733 | - | - | - | 11,229 | 5,462 | 2,142 | 2,590 | 10,501 | 802 | 82 | 285 | 268 | 6,970 | 5,477 |
| Gasabo | 676 | - | 3,305 | - | 12,948 | 5,611 | 4,212 | 4,149 | 15,942 | 718 | 470 | 627 | 1,541 | 8,166 | 1,716 |
| Kicukiro | 1,524 | - | - | - | 16,162 | 10,184 | 1,774 | 9,892 | 13,360 | 685 | - | 574 | 721 | 10,821 | 3,110 |
| Nyanza | 2,077 | 699 | 3,142 | - | 19,440 | 8,582 | 2,575 | 6,916 | 10,425 | 770 | 262 | 400 | 283 | 7,701 | 7,193 |
| Gisagara | 2,073 | 557 | 3,781 | - | 12,839 | 5,635 | 3,646 | 5,032 | 8,499 | 701 | 438 | 342 | 256 | 10,429 | 8,281 |
| Nyaruguru | 932 | - | - | 706 | 10,693 | 7,472 | 5,371 | 6,096 | 11,644 | 890 | 539 | 254 | 501 | 10,957 | - |
| Huye | 1,656 | 332 | 3,232 | - | 16,274 | 6,525 | 2,729 | 3,841 | 10,512 | 710 | 436 | 385 | 374 | 9,406 | - |
| Nyamagabe | 1,044 | - | - | - | 11,060 | 7,884 | 7,417 | 7,149 | 8,538 | 752 | 394 | - | 418 | 8,898 | 2,885 |
| Ruhango | 813 | - | 4,310 | - | 15,994 | 5,874 | 2,774 | 6,664 | 9,253 | 704 | 285 | 494 | 269 | 9,908 | 8,254 |
| Muhanga | 1,132 | - | 3,938 | - | 16,568 | 5,696 | 2,825 | 4,407 | 8,661 | 580 | 407 | 429 | 337 | 9,734 | 8,235 |
| Kamonyi | 1,815 | - | 3,175 | - | 19,479 | 5,061 | 3,136 | 10,186 | 10,128 | 703 | 346 | 367 | 1,349 | 11,577 | 8,137 |
| Karongi | 1,202 | 750 | - | - | 10,081 | 6,080 | 3,435 | 6,019 | 9,357 | 677 | 439 | 679 | 454 | 9,488 | 848 |
| Rutsiro | 1,076 | 696 | - | 211 | 9,961 | 7,305 | 8,440 | 9,130 | 12,589 | 861 | 364 | - | 348 | 7,445 | 1,978 |
| Rubavu | 1,676 | 1,328 | - | 1,964 | - | 6,328 | 12,685 | 6,960 | 20,729 | 1,097 | 364 | - | - | 18,290 | 6,197 |
| Nyabihu | 1,238 | 909 | - | 601 | 11,413 | 6,658 | 16,075 | 10,655 | 11,788 | 1,045 | 497 | - | 807 | 17,707 | 2,514 |
| Ngororero | 1,074 | 1,298 | - | 369 | 11,078 | 5,173 | 5,375 | 6,709 | 8,457 | 709 | 569 | - | 292 | 9,513 | 1,633 |
| Rusizi | 1,124 | 810 | 5,167 | - | 10,067 | 3,503 | 2,320 | 2,544 | 9,956 | 917 | 483 | 646 | 584 | 9,305 | 5,779 |
| Nyamasheke | 895 | - | 4,480 | 181 | 11,953 | 5,532 | 3,374 | 4,678 | 13,698 | 773 | 809 | 140 | 413 | 10,226 | 2,474 |
| Rulindo | 1,382 | - | 2,243 | 1,293 | 10,388 | 7,093 | 6,745 | 6,358 | 10,400 | 883 | 428 | 437 | 304 | 8,510 | 1,213 |
| Gakenke | 1,267 | - | - | - | 12,472 | 9,634 | 6,847 | 5,469 | 12,494 | 951 | 744 | 1,063 | 474 | 12,050 | 11,669 |
| Musanze | 1,327 | 2,142 | - | 1,531 | 7,990 | 7,716 | 12,147 | 6,179 | 9,285 | 1,166 | 773 | - | 519 | 7,806 | 3,198 |
| Burera | 1,239 | 2,269 | - | 1,331 | 14,231 | 8,834 | 11,160 | - | 9,903 | 1,419 | 713 | - | - | 8,888 | 10,590 |
| Gicumbi | 2,146 | 533 | - | 404 | 13,433 | 8,911 | 9,618 | 5,917 | 14,422 | 999 | 622 | 475 | 277 | 10,703 | 915 |
| Rwamagana | 1,742 | - | 4,277 | - | 14,038 | 5,179 | 4,994 | 3,325 | 14,095 | 791 | 951 | 360 | 255 | 11,044 | 9,940 |
| Nyagatare | 1,513 | 1,191 | 4,202 | - | 13,618 | 4,681 | 5,467 | 2,798 | 11,767 | 723 | 344 | 357 | 865 | 10,650 | 4,285 |
| Gatsibo | 2,642 | 1,227 | 4,341 | 590 | 10,402 | 7,849 | 5,645 | 3,923 | 17,292 | 878 | 558 | 365 | 758 | 11,317 | 789 |
| Kayonza | 2,217 | 1,055 | 3,694 | - | 12,617 | 7,704 | 5,363 | 7,882 | 15,662 | 854 | 441 | 491 | 1,974 | 11,962 | 13,251 |
| Kirehe | 1,568 | 523 | 4,634 | - | 14,138 | 4,644 | 2,347 | 7,508 | 18,164 | 1,036 | 426 | 297 | 1,604 | 7,628 | - |
| Ngoma | 1,484 | 743 | 4,165 | - | 11,158 | 5,026 | 5,313 | 5,775 | 15,431 | 1,067 | 220 | 432 | 525 | 12,130 | 13,351 |
| Bugesera | 1,444 | 699 | 3,173 | - | 16,146 | 7,259 | 2,965 | - | 11,426 | 427 | - | 390 | 1,314 | 6,702 | 8,947 |
| National | 1,539 | 1,234 | 4,041 | 1,291 | 14,153 | 6,906 | 9,430 | 5,601 | 12,362 | 843 | 516 | 391 | 555 | 10,738 | 7,409 |

Source: NISR, SAS 2019

Table 14: Season B 2019 Average yield by crop type per district (Kg/Ha)

| District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potatoes | Irish potatoes | Yams & Taro | Banana | Bean | Peas | Ground nuts | Soya beans | Vegetables | Fruits |
|-----------------|--------------|------------|--------------|--------------|---------------|----------------|----------------|--------------|---------------|------------|------------|-------------|------------|---------------|--------------|
| Nyarugenge | 1,047 | 731 | - | - | 10,730 | 6,397 | 1,242 | 7,230 | 8,520 | 622 | - | 410 | 664 | 7,996 | 14,262 |
| Gasabo | 1,292 | 1,067 | 4,193 | - | 11,995 | 5,513 | 3,031 | 1,194 | 12,526 | 692 | 525 | 382 | 362 | 8,526 | 4,337 |
| Kicukiro | 1,265 | 1,171 | - | - | 13,243 | 8,385 | 5,682 | 5,052 | 12,894 | 977 | - | 514 | 847 | 14,680 | 8,998 |
| Nyanza | 1,337 | 914 | 3,599 | - | 18,154 | 7,797 | 2,234 | 3,616 | 8,706 | 792 | 568 | 482 | 339 | 11,981 | 5,611 |
| Gisagara | 1,040 | 671 | 3,650 | - | 16,445 | 6,002 | 2,232 | 3,368 | 9,574 | 700 | 341 | 396 | 489 | 7,812 | 1,915 |
| Nyaruguru | 1,459 | 903 | - | 654 | 14,750 | 7,666 | 4,876 | 11,180 | 8,808 | 850 | 636 | 416 | 457 | 11,785 | - |
| Huye | 1,343 | 831 | 2,695 | - | 20,925 | 7,804 | 3,629 | 4,097 | 8,418 | 765 | 1,466 | 491 | 389 | 11,397 | 13,479 |
| Nyamagabe | 1,258 | 690 | - | 1,058 | 12,693 | 6,381 | 8,110 | 7,897 | 5,634 | 706 | 594 | - | 350 | 13,211 | 959 |
| Ruhango | 1,027 | 956 | 3,482 | - | 18,056 | 4,306 | 4,029 | 7,255 | 7,532 | 829 | 1,182 | 718 | 409 | 7,711 | 4,186 |
| Muhanga | 801 | 850 | 4,133 | - | 17,035 | 6,658 | 3,604 | 5,962 | 7,589 | 634 | 1,041 | 231 | 374 | 7,123 | 21,694 |
| Kamonyi | 660 | 988 | 3,031 | - | 17,181 | 5,642 | 2,137 | 7,454 | 8,885 | 679 | 659 | 443 | 500 | 7,554 | 881 |
| Karongi | 1,299 | 620 | - | 790 | 13,499 | 8,346 | 3,789 | 8,482 | 8,884 | 787 | 833 | 426 | 478 | 10,615 | 1,307 |
| Rutsiro | 1,520 | 1,249 | - | 348 | 14,934 | 6,635 | 4,777 | 6,529 | 14,945 | 821 | 563 | - | 539 | 12,148 | 4,140 |
| Rubavu | 2,027 | 1,783 | - | 472 | - | 6,167 | 12,806 | 6,111 | 16,470 | 1,137 | 1,497 | - | - | 22,110 | 3,163 |
| Nyabihu | 1,389 | - | - | 1,446 | 9,224 | 4,768 | 12,824 | 6,084 | 8,890 | 969 | 566 | - | 1,002 | 12,214 | 1,880 |
| Ngororero | 1,251 | - | - | 857 | 9,825 | 5,976 | 3,318 | 6,928 | 8,017 | 755 | 1,007 | - | 370 | 9,555 | 3,792 |
| Rusizi | 1,386 | 603 | 5,167 | - | 8,281 | 6,998 | 8,082 | 7,193 | 13,098 | 807 | 2,202 | 2,073 | 661 | 10,118 | 4,825 |
| Nyamasheke | 1,102 | 1,976 | 3,547 | 284 | 11,491 | 7,846 | 2,983 | 6,331 | 12,306 | 934 | 1,516 | 415 | 539 | 10,426 | 2,275 |
| Rulindo | 1,095 | 931 | 4,500 | 845 | 13,885 | 6,921 | 5,154 | 7,276 | 10,809 | 836 | 512 | 724 | 564 | 12,395 | 2,280 |
| Gakenke | 1,282 | 1,187 | - | 1,707 | 17,221 | 10,809 | 5,597 | 8,400 | 11,267 | 1,003 | 537 | - | 946 | 13,529 | 2,315 |
| Musanze | 1,936 | - | - | 1,271 | 11,814 | 10,524 | 12,482 | 10,116 | 9,222 | 1,495 | 1,368 | - | 801 | 10,915 | 5,114 |
| Burera | 1,556 | 1,434 | - | 1,471 | 10,583 | 5,630 | 12,282 | 8,613 | 13,495 | 1,247 | 1,437 | - | 682 | 8,290 | 3,570 |
| Gicumbi | 1,290 | 1,096 | - | 680 | 19,530 | 7,246 | 8,479 | 6,526 | 12,062 | 928 | 892 | 719 | 551 | 7,158 | 9,284 |
| Rwamagana | 1,142 | 952 | 2,984 | - | 16,085 | 4,362 | 4,317 | 5,236 | 14,669 | 770 | 348 | 511 | 489 | 10,227 | 1,803 |
| Nyagatare | 1,187 | 763 | 4,175 | 424 | 20,239 | 3,290 | 4,227 | 2,927 | 14,266 | 854 | 218 | 568 | 622 | 5,874 | 5,932 |
| Gatsibo | 1,402 | 1,234 | 4,287 | 1,165 | 15,861 | 8,841 | 4,788 | 7,093 | 13,056 | 819 | 616 | 529 | 666 | 7,567 | - |
| Kayonza | 1,022 | 939 | 3,713 | - | 15,342 | 3,869 | 3,849 | 5,696 | 14,968 | 727 | 472 | 408 | 516 | 5,529 | 16,557 |
| Kirehe | 1,023 | 718 | 4,529 | - | 17,706 | 4,101 | 2,692 | 4,078 | 16,293 | 712 | 637 | 383 | 846 | 11,950 | - |
| Ngoma | 1,012 | 801 | 4,813 | - | 16,227 | 6,824 | 5,032 | 3,261 | 14,779 | 779 | 1,005 | 464 | 586 | 7,723 | 2,191 |
| Bugesera | 913 | 602 | 4,609 | - | 20,233 | 3,660 | 2,744 | 7,201 | 7,934 | 629 | - | 380 | 459 | 7,434 | 25,801 |
| National | 1,232 | 929 | 3,967 | 1,111 | 14,747 | 6,757 | 8,575 | 6,510 | 11,113 | 818 | 895 | 510 | 492 | 10,386 | 4,147 |

Source: NISR, SAS 2019

Table 15: Season C 2019 Average yield by crop type per district (Kg/Ha)

| District | Sweet potatoes | Irish potatoes | Beans | Bush bean | Climbing bean | Peas | Soya beans | Vegetables |
|-----------------|----------------|----------------|------------|------------|---------------|------------|------------|--------------|
| Nyarugenge | 4,342 | - | 751 | 751 | - | - | 848 | 6,889 |
| Gasabo | 2,976 | - | 851 | 851 | - | - | - | 10,240 |
| Nyanza | 4,407 | - | 536 | 536 | - | 243 | 556 | 16,142 |
| Gisagara | 5,077 | - | 695 | 700 | 635 | - | 427 | 8,123 |
| Nyaruguru | 5,757 | 5,619 | 789 | 789 | - | - | - | 8,489 |
| Huye | 5,495 | 4,410 | 1,077 | 984 | 1,205 | - | - | 9,826 |
| Nyamagabe | 5,473 | 9,988 | 619 | 619 | - | 519 | - | 9,996 |
| Ruhango | 3,804 | 1,673 | 747 | 747 | - | - | - | 8,863 |
| Muhanga | 5,054 | - | 707 | 707 | - | 763 | 672 | - |
| Kamonyi | 4,115 | 2,276 | 345 | 345 | - | 661 | - | 7,986 |
| Karongi | 4,058 | 2,667 | - | - | - | - | - | 10,451 |
| Rutsiro | 5,256 | 6,928 | 517 | - | 517 | 712 | - | 8,281 |
| Rubavu | 5,105 | 11,547 | - | - | - | - | - | 22,138 |
| Nyabihu | - | 8,457 | 1,239 | - | 1,239 | 647 | - | 6,791 |
| Ngororero | 4,835 | 3,969 | 1,062 | 1,062 | - | - | 775 | 11,565 |
| Rusizi | 5,514 | 4,752 | 1,046 | 1,046 | - | - | - | 9,319 |
| Nyamasheke | - | - | - | - | - | - | - | 12,850 |
| Rulindo | 4,748 | 4,886 | - | - | - | - | - | 8,663 |
| Gakenke | 6,130 | 9,046 | - | - | - | - | - | 7,532 |
| Musanze | 4,717 | 10,261 | 936 | 529 | 1,088 | - | - | 8,646 |
| Burera | 4,482 | 10,846 | 2,028 | - | 2,028 | - | - | 9,813 |
| Gicumbi | - | 11,064 | 648 | 648 | - | - | - | 12,661 |
| Rwamagana | 3,501 | - | 995 | 995 | - | - | 661 | 16,995 |
| Nyagatare | 1,581 | - | - | - | - | - | - | 8,824 |
| Gatsibo | 6,264 | 5,706 | 693 | 693 | - | - | 551 | 9,658 |
| Kayonza | - | 3,650 | - | - | - | - | - | 10,188 |
| Kirehe | 4,163 | 4,980 | 604 | 604 | - | - | - | 11,808 |
| Bugesera | 5,907 | 1,684 | 1,082 | 1,082 | - | - | 537 | 10,148 |
| National | 4,979 | 9,540 | 831 | 764 | 1,137 | 585 | 535 | 9,634 |

Source: NISR, SAS 2019

Table 16: Season A 2019 Average yield (MT/Ha) for CIP crops by farmer type per district

| District | Yield for Large Scale Farmers | | | | | | | | | | | | Yield for Small Scale Farmers | | | | | | | | | |
|-----------------|-------------------------------|------------|------------|------------|---------------|--------------|------------|-------------|----------------|----------------|-----------------|------------|-------------------------------|------------|------------|---------------|--------------|------------|-------------|----------------|----------------|-----------------|
| | Maize | Paddy rice | Wheat | Bush bean | Climbing bean | Irish potato | Soybean | Cassava | Cooking banana | Dessert banana | Banana for beer | Maize | Paddy rice | Wheat | Bush bean | Climbing bean | Irish potato | Soybean | Cassava | Cooking banana | Dessert banana | Banana for beer |
| Nyarugenge | - | - | - | - | - | - | - | - | - | - | - | 0.8 | - | - | 0.8 | 0.9 | 2.2 | 0.3 | 11.6 | 18.4 | 14.9 | 8.6 |
| Gasabo | 0.9 | 3.3 | - | 1.3 | - | - | 1.6 | - | 23.2 | - | - | 0.7 | 3.2 | - | 0.6 | 1.2 | 4.5 | 0.4 | 13.1 | 19.0 | 15.0 | 10.0 |
| Kicukiro | 2.3 | - | - | 1.0 | - | - | - | - | 21.5 | 15.8 | - | 1.1 | - | - | 0.7 | 0.9 | 1.8 | 0.8 | 16.1 | 19.8 | 15.3 | 9.2 |
| Nyanza | 2.1 | 3.1 | - | 0.8 | - | - | - | - | 27.9 | 8.6 | 13.3 | 1.1 | 3.6 | - | 0.7 | 0.8 | 2.9 | 0.3 | 18.6 | 11.0 | 10.0 | 9.3 |
| Gisagara | 2.1 | 3.8 | - | - | - | - | - | - | 13.0 | 8.0 | 0.9 | 2.4 | - | 0.7 | 1.0 | 3.6 | 0.3 | 12.8 | 10.6 | 14.3 | 7.3 | |
| Nyaruguru | 0.9 | - | - | - | - | 6.8 | - | - | - | - | - | 1.0 | - | 0.7 | 0.6 | 1.0 | 2.0 | 0.5 | 10.9 | 14.6 | 16.7 | 9.7 |
| Huye | 1.7 | 3.2 | - | - | - | - | 0.5 | - | 12.8 | - | - | 0.5 | 2.7 | - | 0.6 | 0.8 | 3.2 | 0.3 | 17.4 | 12.1 | 12.0 | 8.7 |
| Nyamagabe | 1.3 | - | - | - | 0.8 | 7.7 | - | - | - | - | - | 0.9 | - | - | 0.6 | 0.8 | 5.5 | 0.4 | 11.1 | 12.5 | 12.1 | 8.5 |
| Ruhango | - | 4.3 | - | 0.8 | - | - | 0.4 | - | 12.6 | 29.8 | - | 0.6 | 2.9 | - | 0.5 | 0.7 | 2.7 | 0.3 | 15.8 | 7.4 | 10.6 | 9.0 |
| Muhanga | 1.1 | 3.9 | - | - | - | - | - | - | - | - | - | 0.5 | 2.0 | - | 0.5 | 0.7 | 2.6 | 0.3 | 15.9 | 22.0 | 13.1 | 7.8 |
| Kamonyi | 1.8 | 3.2 | - | - | - | - | 1.4 | - | - | - | - | 1.0 | - | - | 0.7 | 0.9 | 3.0 | 0.4 | 19.5 | 18.2 | 13.4 | 9.1 |
| Karongi | - | - | - | - | - | - | - | - | - | - | - | 1.1 | - | - | 0.5 | 0.7 | 3.4 | 0.4 | 9.4 | 16.5 | 12.0 | 9.1 |
| Rutsiro | - | - | - | - | - | - | - | - | - | - | - | 0.9 | - | 0.2 | 0.6 | 0.9 | 7.7 | 0.5 | 10.3 | 21.3 | 16.0 | 10.3 |
| Rubavu | 1.6 | - | - | 0.3 | - | 12.0 | - | - | 22.2 | - | - | 1.8 | - | 2.0 | 0.4 | 1.1 | 12.6 | - | - | 21.0 | - | 10.7 |
| Nyabihu | - | - | - | - | - | - | - | - | - | - | - | 0.8 | - | 0.6 | 0.5 | 1.1 | 15.9 | 0.6 | 11.4 | 22.6 | 13.4 | 7.8 |
| Ngororero | - | - | - | - | - | - | - | - | - | - | - | 1.0 | - | 0.4 | 0.6 | 0.7 | 4.9 | 0.3 | 10.9 | 15.8 | 10.5 | 7.6 |
| Rusizi | 1.5 | 5.2 | - | 1.2 | - | - | - | - | 32.8 | - | 8.5 | 1.0 | 3.6 | - | 0.6 | 0.9 | 2.2 | 0.6 | 10.1 | 17.5 | 10.4 | 8.0 |
| Nyamasheke | - | 4.5 | - | - | - | - | - | - | - | - | - | 0.9 | 1.8 | 0.2 | 0.5 | 0.9 | 2.8 | 0.4 | 11.2 | 13.1 | 11.7 | 13.7 |
| Rulindo | 2.3 | 2.2 | 1.3 | - | 2.3 | 7.4 | - | - | 35.1 | 23.4 | 1.2 | 1.0 | - | - | 0.7 | 0.9 | 2.8 | 0.3 | 10.4 | 18.0 | 13.8 | 8.5 |
| Gakenke | - | - | - | - | - | - | - | - | - | - | - | 1.2 | - | - | 0.6 | 1.1 | 6.8 | 0.4 | 12.3 | 24.5 | 13.2 | 9.7 |
| Musanze | - | - | 1.5 | - | - | 10.9 | - | - | - | - | - | 1.3 | - | 1.6 | 0.9 | 1.1 | 12.2 | 0.5 | 8.0 | 15.4 | 12.4 | 6.0 |
| Burera | - | - | - | - | - | - | - | - | - | - | - | 1.2 | - | 1.4 | 0.8 | 1.5 | 11.7 | - | 13.8 | 13.3 | 9.9 | 7.5 |
| Gicumbi | 4.2 | - | - | - | - | - | - | - | - | - | - | 0.9 | - | 0.4 | 0.9 | 1.1 | 9.7 | 0.3 | 12.8 | 17.1 | 13.7 | 12.0 |
| Rwamagana | 2.0 | 4.3 | - | 1.0 | - | 6.1 | - | 17.1 | 13.6 | 14.7 | 32.6 | 0.7 | 3.1 | - | 0.6 | 1.1 | 3.9 | 0.3 | 12.3 | 17.7 | 14.7 | 8.3 |
| Nyagatare | 1.6 | 4.2 | - | 1.0 | - | 7.9 | 0.9 | 4.3 | 7.6 | 9.2 | 4.0 | 1.1 | 3.5 | - | 0.7 | 0.8 | 2.9 | 0.5 | 14.4 | 18.7 | 14.0 | 7.9 |
| Gatsibo | 2.8 | 4.3 | - | 1.0 | 1.2 | 6.6 | 0.8 | - | 27.4 | 26.4 | 28.4 | 1.3 | - | 0.6 | 0.9 | 0.8 | 4.7 | 0.5 | 9.6 | 18.8 | 15.3 | 10.9 |
| Kayonza | 2.8 | 3.7 | - | 1.0 | - | 6.0 | 2.1 | 10.8 | 16.8 | 19.0 | 11.1 | 0.6 | 1.9 | - | 0.5 | 1.2 | 1.9 | 0.3 | 13.9 | 17.6 | 9.8 | 11.1 |
| Kirehe | - | - | - | - | - | - | - | - | - | - | - | 0.7 | 3.6 | - | 0.4 | 0.7 | 2.7 | 0.7 | 14.7 | 21.2 | 10.8 | 11.5 |
| Ngoma | - | - | - | - | - | - | - | - | - | - | - | 0.8 | 1.3 | - | 0.6 | 0.9 | 2.7 | 0.7 | 11.1 | 17.0 | 6.1 | 10.4 |
| Bugesera | 1.5 | 3.2 | - | 0.4 | - | - | 1.4 | 17.8 | 26.9 | 15.5 | 17.1 | 1.0 | - | - | 0.5 | 0.0 | 2.9 | 0.9 | 11.1 | 15.4 | 18.0 | 7.9 |
| National | 1.9 | 4.0 | 1.5 | 0.9 | 1.6 | 7.3 | 1.4 | 14.2 | 17.7 | 15.7 | 12.6 | 1.0 | 2.7 | 1.4 | 0.6 | 1.0 | 8.9 | 0.4 | 13.9 | 18.2 | 13.3 | 8.9 |

NISR, SAS, 2019

Table 17: Season B 2019 Average yield (MT/Ha) for CIP crops by farmer type per district

| District | Yield for Large Scale Farmers | | | | | | | | | | | | Yield for Small Scale Farmers | | | | | | | | | |
|-----------------|-------------------------------|------------|------------|------------|---------------|--------------|------------|-------------|----------------|----------------|-----------------|------------|-------------------------------|------------|------------|---------------|--------------|------------|-------------|----------------|----------------|-----------------|
| | Maize | Paddy rice | Wheat | Bush bean | Climbing bean | Irish potato | Soybean | Cassava | Cooking banana | Dessert banana | Banana for beer | Maize | Paddy rice | Wheat | Bush bean | Climbing bean | Irish potato | Soybean | Cassava | Cooking banana | Dessert banana | Banana for beer |
| Nyarugenge | | | | | | | | | | | | 1.0 | | | 0.6 | 0.9 | 1.2 | 0.7 | 10.7 | 18.6 | 7.7 | 6.9 |
| Gasabo | 2.5 | 4.4 | | | | | | | | | | 1.2 | 2.0 | | 0.7 | 0.6 | 3.0 | 0.4 | 12.0 | 17.0 | 11.4 | 7.9 |
| Kicukiro | | | | | | | | | | | | 1.2 | | | 1.0 | 1.1 | 5.7 | 0.8 | 13.2 | 19.4 | 14.8 | 8.5 |
| Nyanza | 2.5 | 4.1 | | | | | | | | | | 1.3 | 2.6 | | 0.8 | 0.7 | 2.1 | 0.3 | 18.2 | 10.4 | 7.6 | 8.6 |
| Gisagara | 2.5 | 4.1 | | | | | | | | | | 0.9 | 2.7 | | 0.7 | 0.8 | 2.2 | 0.5 | 16.4 | 14.7 | 9.3 | 8.8 |
| Nyaruguru | | | | | 25.0 | | | | | | | 1.5 | | 0.7 | 0.5 | 1.0 | 4.3 | 0.5 | 14.7 | 14.0 | 7.5 | 7.5 |
| Huye | 2.5 | 3.2 | | | | | 1.5 | | | | | 1.2 | 1.9 | | 0.7 | 0.8 | 3.6 | 0.4 | 20.9 | 10.3 | 10.4 | 7.1 |
| Nyamagabe | | | 2.8 | | | 17.7 | | | | | | 1.3 | | 1.0 | 0.5 | 0.8 | 8.1 | 0.4 | 12.7 | 9.4 | 12.6 | 5.1 |
| Ruhango | 2.5 | 4.1 | | | | | | | | | | 1.0 | 3.0 | | 0.8 | 0.9 | 4.0 | 0.4 | 18.1 | 17.8 | 12.6 | 6.8 |
| Muhanga | | 4.3 | | | | | | | | | | 0.8 | 3.4 | | 0.6 | 0.7 | 3.6 | 0.4 | 17.0 | 13.8 | 9.4 | 7.1 |
| Kamonyi | 2.0 | 3.0 | | | | | | | | | | 0.6 | | | 0.7 | 0.8 | 2.1 | 0.5 | 17.2 | 17.7 | 10.6 | 7.8 |
| Karongi | | | | | | | | | | | | 1.3 | | 0.8 | 0.7 | 0.8 | 3.8 | 0.5 | 13.5 | 16.5 | 12.1 | 8.5 |
| Rutsiro | | | | | | | | | | | | 1.5 | | 0.3 | 0.7 | 0.8 | 4.8 | 0.5 | 14.9 | 25.6 | 18.2 | 10.0 |
| Rubavu | | | | | | | 9.6 | | | | | 2.0 | | 0.5 | 0.6 | 1.2 | 12.8 | | | 21.0 | | 9.2 |
| Nyabihu | | | | | | | | | | | | 1.4 | | 1.4 | 0.5 | 1.0 | 12.8 | 1.0 | 9.2 | 15.3 | 8.6 | 7.0 |
| Ngororero | | | | | | | | | | | | 1.3 | | 0.9 | 0.7 | 0.8 | 3.3 | 0.4 | 9.8 | 17.4 | 11.4 | 7.5 |
| Rusizi | 5.3 | | | | | | | | | | | 1.4 | 3.9 | | 0.8 | 0.9 | 8.1 | 0.7 | 8.3 | 17.4 | 22.2 | 8.8 |
| Nyamasheke | | 4.1 | | | | | | | | | | 1.1 | 2.7 | 0.3 | 0.7 | 1.0 | 3.0 | 0.5 | 11.5 | 20.7 | 14.5 | 10.7 |
| Rulindo | | 4.5 | 2.7 | | | | | | | | | 1.1 | | 0.8 | 0.6 | 1.1 | 5.1 | 0.6 | 13.9 | 19.9 | 12.1 | 8.0 |
| Gakenke | | | | | | | | | | | | 1.3 | | 1.7 | 0.6 | 1.0 | 5.6 | 0.9 | 17.2 | 22.4 | 12.6 | 8.7 |
| Musanze | | | | | | | | | | | | 1.9 | | 1.3 | 1.2 | 1.5 | 12.5 | | 11.8 | 15.4 | 7.3 | 8.5 |
| Burera | | | | | | | | | | | | 1.6 | | 1.5 | 0.9 | 1.3 | 12.3 | 0.7 | 10.6 | 21.0 | 11.9 | 7.7 |
| Gicumbi | 0.7 | | | | | | | | | | | 1.3 | | 0.7 | 0.7 | 1.0 | 8.5 | 0.6 | 19.5 | 21.2 | 10.3 | 8.9 |
| Rwamagana | 2.3 | 3.0 | | | | | | | | | | 1.1 | 2.7 | | 0.8 | 1.6 | 4.3 | 0.5 | 16.1 | 17.9 | 9.5 | 7.8 |
| Nyagatare | 2.5 | 4.3 | | 1.4 | | 0.9 | | 10.1 | | | | 1.2 | 2.5 | 0.3 | 0.9 | 0.8 | 4.2 | 0.6 | 20.2 | 18.6 | 12.2 | 8.1 |
| Gatsibo | 2.4 | 4.3 | | 1.1 | | 0.9 | | | | | | 1.4 | | 1.2 | 0.8 | 0.7 | 4.8 | 0.6 | 15.9 | 17.3 | 11.1 | 9.1 |
| Kayonza | 1.8 | 3.7 | | 1.3 | 23.0 | | 17.2 | | | | | 1.0 | | | 0.7 | 1.3 | 3.7 | 0.5 | 15.3 | 17.0 | 13.2 | 8.6 |
| Kirehe | 2.5 | 4.6 | | 1.6 | | 1.4 | | | | | | 0.6 | 2.4 | | 0.6 | 0.8 | 2.7 | 0.4 | 17.7 | 21.0 | | 7.9 |
| Ngoma | | 4.8 | | | | | | | | | | 1.0 | 4.8 | | 0.8 | 1.0 | 5.0 | 0.6 | 16.2 | 16.8 | 11.9 | 10.2 |
| Bugesera | 0.9 | 4.6 | | 0.9 | | 0.7 | 25.0 | | | | | 0.9 | 3.9 | | 0.6 | 0.7 | 2.7 | 0.4 | 19.9 | 14.3 | 12.3 | 5.9 |
| National | 2.2 | 4.3 | 2.7 | 1.3 | | 18.4 | 1.2 | 17.3 | 19.5 | | | 1.2 | 2.9 | 1.1 | 0.7 | 1.0 | 8.6 | 0.5 | 15.7 | 17.8 | 12.0 | 8.2 |

Source: NISR, SAS 2019

Table 18: Season A 2019_Crop production by crop type per district (MT)

| District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potato | Irish potato | Yams & Taro | Bananas | Beans | Groundnut | Soybean | Vegetables | Fruits | Other crops | National |
|-----------------|----------------|---------------|---------------|--------------|----------------|----------------|----------------|---------------|------------------|----------------|--------------|---------------|----------------|---------------|---------------|------------------|
| Nyarugenge | 411 | - | - | - | 557 | 2,068 | 46 | 84 | 6,847 | 1,093 | 4 | 14 | 1,387 | 73 | 1,102 | 13,685 |
| Gasabo | 2,959 | - | 541 | - | 7,531 | 12,185 | 2,928 | 736 | 18,247 | 5,478 | 334 | 742 | 5,050 | 200 | 449 | 57,380 |
| Kicukiro | 2,602 | - | - | - | 654 | 2,757 | 13 | 313 | 4,403 | 1,391 | 46 | 52 | 1,323 | 9 | 12 | 13,578 |
| Nyanza | 8,080 | 251 | 1,129 | - | 68,844 | 20,786 | 1,242 | 1,279 | 8,411 | 6,584 | 562 | 416 | 5,628 | 43 | 2,198 | 125,453 |
| Gisagara | 13,031 | 164 | 7,886 | - | 13,199 | 24,268 | 2,011 | 1,328 | 21,126 | 8,693 | 399 | 555 | 4,377 | 77 | 685 | 97,799 |
| Nyaruguru | 2,628 | - | - | 9 | 7,406 | 37,084 | 6,993 | 2,500 | 7,176 | 3,682 | 13 | 438 | 2,347 | - | 16 | 70,293 |
| Huye | 3,968 | 12 | 2,891 | - | 8,126 | 16,004 | 1,034 | 1,291 | 9,500 | 6,493 | 94 | 831 | 2,270 | - | 6 | 52,520 |
| Nyamagabe | 3,463 | - | - | - | 6,094 | 39,608 | 12,746 | 1,821 | 13,888 | 6,187 | - | 313 | 1,781 | 144 | - | 86,044 |
| Ruhango | 1,418 | - | 3,822 | - | 74,523 | 7,182 | 629 | 1,118 | 22,115 | 7,450 | 420 | 507 | 4,822 | 4,039 | 0 | 128,043 |
| Muhanga | 2,205 | - | 596 | - | 20,361 | 30,457 | 518 | 9,039 | 62,340 | 5,500 | 9 | 1,331 | 2,563 | 21 | 8,594 | 143,535 |
| Kamonyi | 9,795 | - | 649 | - | 51,468 | 18,913 | 1,090 | 7,736 | 38,624 | 8,686 | 326 | 2,339 | 6,838 | 2,271 | - | 148,735 |
| Karongi | 6,131 | 2 | - | - | 11,596 | 33,123 | 2,698 | 4,544 | 34,415 | 3,790 | 20 | 210 | 1,539 | 120 | 1,125 | 99,312 |
| Rutsiro | 10,828 | 33 | - | 14 | 837 | 22,880 | 30,522 | 7,881 | 24,156 | 4,423 | - | 297 | 3,697 | 1,104 | 10,437 | 117,109 |
| Rubavu | 7,139 | 154 | - | 433 | - | 3,149 | 67,633 | 660 | 7,805 | 2,903 | - | - | 19,516 | 129 | 7,184 | 116,706 |
| Nyabihu | 4,726 | 333 | - | 322 | 220 | 23,154 | 121,915 | 871 | 3,721 | 6,281 | - | 56 | 15,788 | 189 | 885 | 178,461 |
| Ngororero | 5,727 | 337 | - | 98 | 9,580 | 36,044 | 8,771 | 8,393 | 44,839 | 5,512 | - | 244 | 1,157 | 838 | 54 | 121,594 |
| Rusizi | 10,617 | 48 | 7,605 | - | 26,030 | 5,730 | 305 | 2,410 | 7,231 | 8,853 | 52 | 87 | 2,185 | 1,503 | 15 | 72,673 |
| Nyamasheke | 5,089 | - | 1,465 | 2 | 23,693 | 17,195 | 127 | 4,029 | 9,778 | 4,445 | 80 | 415 | 3,480 | 477 | 2,231 | 72,506 |
| Rulindo | 9,124 | - | 37 | 4 | 7,760 | 31,625 | 5,271 | 748 | 30,222 | 11,955 | 106 | 263 | 4,598 | 3 | 106 | 101,820 |
| Gakenke | 12,120 | - | - | - | 9,463 | 72,243 | 12,537 | 6,507 | 67,965 | 9,723 | 237 | 171 | 3,476 | 5,784 | 2,313 | 202,537 |
| Musanze | 9,232 | 3,398 | - | 4,980 | 420 | 15,389 | 49,588 | 1,087 | 2,256 | 2,885 | - | 10 | 8,089 | 490 | 599 | 98,423 |
| Burera | 11,933 | 5,466 | - | 1,021 | 369 | 37,797 | 49,555 | - | 4,298 | 12,804 | - | - | 5,000 | 1,494 | 10,423 | 140,160 |
| Gicumbi | 11,955 | 323 | - | 22 | 6,078 | 68,577 | 50,510 | 1,696 | 30,545 | 21,115 | 256 | 23 | 9,163 | 145 | - | 200,405 |
| Rwamagana | 13,590 | - | 1,449 | - | 28,038 | 7,494 | 7,972 | 1,408 | 73,479 | 10,972 | 588 | 98 | 15,232 | 13,073 | 1,007 | 174,398 |
| Nyagatare | 40,036 | 18,730 | 9,971 | - | 16,896 | 13,858 | 4,501 | 143 | 51,021 | 14,894 | 2,124 | 1,117 | 4,347 | 388 | 3,232 | 181,257 |
| Gatsibo | 44,129 | 3,958 | 6,123 | 177 | 8,371 | 17,801 | 8,523 | 89 | 116,372 | 18,655 | 906 | 445 | 10,645 | 42 | 1,493 | 237,729 |
| Kayonza | 18,533 | 2,018 | 3,221 | - | 41,233 | 20,235 | 10,563 | 1,923 | 51,989 | 13,144 | 626 | 754 | 4,406 | 276 | 436 | 169,358 |
| Kirehe | 26,693 | 180 | 3,887 | - | 25,613 | 3,165 | 3,022 | 485 | 89,520 | 20,744 | 344 | 751 | 725 | - | 8 | 175,139 |
| Ngoma | 24,484 | 203 | 3,982 | - | 22,325 | 9,024 | 5,307 | 984 | 86,160 | 13,712 | 636 | 209 | 2,899 | 10,602 | 105 | 180,632 |
| Bugesera | 8,448 | 1,973 | 4,033 | - | 25,833 | 24,464 | 361 | - | 71,692 | 4,522 | 1,178 | 950 | 4,600 | 5,256 | 4 | 153,314 |
| National | 331,090 | 37,584 | 59,286 | 7,082 | 523,117 | 674,257 | 468,931 | 71,104 | 1,020,141 | 252,569 | 9,362 | 13,638 | 158,927 | 48,791 | 54,721 | 3,730,600 |

Source: NISR, SAS 2019

Table 19: Season B 2019_Crop production by crop type per district (MT)

| District | Maize | Sorghum | Paddy rice | Wheat | Cassava | Sweet potatoes | Irish potatoes | Yams & Taro | Bananas | Beans | Ground nuts | Soya beans | Vegetables | Fruits | Other crops | National |
|-----------------|---------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|---------------|---------------|------------------|
| Nyarugenge | 135 | 418 | - | - | 1,904 | 467 | 14 | 183 | 5,838 | 656 | 20 | 32 | 1,469 | 341 | 4,445 | 15,922 |
| Gasabo | 1,175 | 5,915 | 1,019 | - | 3,855 | 4,852 | 1,994 | 153 | 12,220 | 3,197 | 51 | 66 | 4,309 | 247 | 586 | 53,187 |
| Kicukiro | 432 | 1,523 | - | - | 1,104 | 3,552 | 339 | 59 | 4,751 | 1,368 | 31 | 93 | 3,246 | 22 | 1,433 | 18,184 |
| Nyanza | 2,190 | 4,946 | 2,923 | - | 27,657 | 17,497 | 701 | 1,623 | 8,702 | 7,571 | 432 | 358 | 8,759 | 410 | 5,001 | 92,989 |
| Gisagara | 1,990 | 2,951 | 12,878 | - | 44,533 | 11,466 | 520 | 530 | 14,020 | 8,945 | 160 | 819 | 3,359 | 28 | 1,033 | 105,483 |
| Nyaruguru | 741 | 2,537 | - | 232 | 18,687 | 28,443 | 6,038 | 3,171 | 3,900 | 2,860 | 10 | 261 | 2,454 | - | 425 | 78,921 |
| Huye | 619 | 5,403 | 3,776 | - | 18,471 | 17,561 | 1,109 | 2,037 | 6,640 | 4,403 | 69 | 668 | 2,619 | 178 | 682 | 64,352 |
| Nyamagabe | 506 | 2,776 | - | 966 | 13,546 | 40,662 | 19,910 | 2,096 | 7,429 | 3,846 | - | 211 | 4,229 | 25 | 167 | 98,984 |
| Ruhango | 1,040 | 2,041 | 6,348 | - | 115,618 | 12,061 | 1,061 | 2,875 | 14,746 | 8,110 | 1,440 | 670 | 1,980 | 1,795 | 8,086 | 179,616 |
| Muhanga | 260 | 139 | 612 | - | 43,530 | 36,843 | 458 | 10,766 | 51,348 | 5,857 | 10 | 1,092 | 3,393 | 1,860 | 6,135 | 165,590 |
| Kamonyi | 1,274 | 3,664 | 544 | - | 18,555 | 17,147 | 1,477 | 8,920 | 38,307 | 6,951 | 306 | 804 | 5,633 | 265 | 1,492 | 107,644 |
| Karongi | 731 | 1,648 | - | 244 | 24,059 | 40,540 | 2,397 | 7,671 | 44,482 | 5,334 | 31 | 414 | 2,689 | 73 | 621 | 131,752 |
| Rutsiro | 2,945 | 23 | - | 166 | 13,435 | 19,959 | 18,975 | 7,499 | 31,233 | 4,003 | - | 618 | 6,030 | 1,981 | 10,512 | 117,962 |
| Rubavu | 2,499 | 1,276 | - | 7 | - | 3,580 | 78,815 | 1,075 | 3,008 | 3,295 | - | - | 28,278 | 165 | 7,860 | 132,949 |
| Nyabihu | 4,634 | - | - | 1,951 | 138 | 13,218 | 91,211 | 1,075 | 3,254 | 1,918 | - | 13 | 2,607 | 133 | 827 | 122,009 |
| Ngororero | 2,156 | - | - | 1,076 | 2,064 | 38,577 | 6,446 | 9,678 | 28,391 | 2,284 | - | 253 | 2,407 | 1,557 | 1,593 | 97,361 |
| Rusizi | 1,489 | 36 | 7,952 | - | 64,224 | 12,222 | 292 | 4,487 | 14,931 | 5,668 | 49 | 185 | 5,158 | 2,033 | 2,909 | 122,774 |
| Nyamasheke | 506 | 12 | 1,855 | 5 | 43,988 | 23,304 | 198 | 5,906 | 12,522 | 3,965 | 267 | 974 | 2,736 | 394 | 5,257 | 113,486 |
| Rulindo | 1,199 | 3,710 | 77 | 326 | 15,207 | 20,391 | 6,734 | 847 | 26,402 | 8,553 | 133 | 195 | 3,488 | 105 | 838 | 89,759 |
| Gakenke | 1,846 | 577 | - | 561 | 17,431 | 65,789 | 7,588 | 9,609 | 65,036 | 11,440 | - | 87 | 3,984 | 930 | 5,192 | 191,310 |
| Musanze | 4,974 | - | - | 567 | 313 | 12,552 | 54,414 | 1,939 | 3,214 | 7,560 | - | 3 | 8,136 | 1,475 | 1,809 | 100,972 |
| Burera | 3,786 | 6,862 | - | 1,963 | 297 | 17,589 | 60,405 | 2,153 | 7,004 | 13,471 | - | 18 | 5,846 | 1,299 | 6,565 | 131,396 |
| Gicumbi | 1,885 | 18,804 | - | 142 | 8,137 | 38,966 | 29,867 | 1,268 | 20,088 | 11,715 | 150 | 39 | 4,276 | 1,124 | 381 | 141,562 |
| Rwamagana | 3,755 | 8,065 | 1,097 | - | 23,632 | 4,139 | 6,261 | 4,284 | 51,498 | 6,447 | 159 | 53 | 17,029 | 1,250 | 2,236 | 140,663 |
| Nyagatare | 23,171 | 7,764 | 8,567 | 7 | 30,148 | 6,033 | 4,518 | 519 | 56,655 | 26,454 | 2,303 | 792 | 8,192 | 545 | 5,289 | 181,150 |
| Gatsibo | 10,122 | 11,179 | 5,853 | 391 | 10,783 | 8,891 | 9,392 | 2,399 | 67,087 | 14,087 | 2,508 | 607 | 3,089 | - | 4,282 | 152,365 |
| Kayonza | 5,535 | 14,669 | 3,537 | - | 37,615 | 6,508 | 7,974 | 1,856 | 41,651 | 11,211 | 446 | 85 | 904 | 1,828 | 2,441 | 137,241 |
| Kirehe | 3,159 | 8,386 | 3,718 | - | 32,166 | 5,632 | 1,170 | 3,659 | 61,329 | 12,927 | 367 | 861 | 1,413 | - | 567 | 135,838 |
| Ngoma | 1,635 | 2,950 | 5,469 | - | 21,079 | 10,206 | 1,219 | 667 | 74,270 | 14,889 | 107 | 189 | 4,750 | 1,657 | 169 | 139,735 |
| Bugesera | 3,738 | 3,765 | 6,066 | - | 6,530 | 8,138 | 768 | 1,695 | 50,534 | 11,760 | 1,153 | 129 | 3,047 | 1,595 | 151 | 115,983 |
| National | 90,128 | 122,042 | 72,291 | 8,605 | 658,708 | 546,788 | 422,266 | 100,700 | 830,491 | 230,744 | 10,200 | 10,588 | 155,506 | 23,315 | 88,985 | 3,477,142 |

Source: NISR, SAS 2019

Table 20: Season C 2019_Crop production by crop type and district (MT)

| District | Tubers and Roots | Sweet potatoes | Irish potatoes | Legumes and Pulses | Beans | Peas | Soya beans | Vegetables and Fruits | National |
|-----------------|------------------|----------------|----------------|--------------------|------------|------------|------------|-----------------------|----------------|
| Nyarugenge | 43 | 43 | - | 13 | 12 | - | 1 | 164 | 220 |
| Gasabo | 111 | 111 | - | 2 | 2 | - | - | 606 | 719 |
| Nyanza | 564 | 564 | - | 40 | 28 | 5 | 7 | 3,734 | 4,337 |
| Gisagara | 1,699 | 1,699 | - | 275 | 203 | - | 72 | 2,457 | 4,432 |
| Nyaruguru | 4,857 | 4,824 | 33 | 74 | 74 | - | - | 1,368 | 6,299 |
| Huye | 1,665 | 1,578 | 87 | 30 | 30 | - | - | 1,375 | 3,070 |
| Nyamagabe | 3,845 | 2,806 | 1,039 | 53 | 21 | 31 | - | 1,509 | 5,407 |
| Ruhango | 1,170 | 1,151 | 19 | 8 | 8 | - | - | 2,362 | 3,540 |
| Muhanga | 853 | 853 | - | 67 | 10 | 1 | 56 | - | 921 |
| Kamonyi | 980 | 911 | 69 | 27 | 26 | 1 | - | 5,803 | 6,810 |
| Karongi | 122 | 119 | 3 | - | - | - | - | 347 | 469 |
| Rutsiro | 1,174 | 38 | 1,135 | 10 | 3 | 7 | - | 194 | 1,378 |
| Rubavu | 8,704 | 1,112 | 7,592 | - | - | - | - | 1,287 | 9,991 |
| Nyabihu | 27,707 | - | 27,707 | 136 | 34 | 102 | - | 1,843 | 29,687 |
| Ngororero | 186 | 183 | 3 | 16 | 1 | - | 15 | 14 | 216 |
| Rusizi | 454 | 226 | 228 | 14 | 14 | - | - | 302 | 770 |
| Nyamasheke | - | - | - | - | - | - | - | 311 | 311 |
| Rulindo | 644 | 143 | 501 | - | - | - | - | 762 | 1,406 |
| Gakenke | 375 | 292 | 84 | - | - | - | - | 461 | 836 |
| Musanze | 27,770 | 2,248 | 25,522 | 156 | 156 | - | - | 2,945 | 30,871 |
| Burera | 18,242 | 5,194 | 13,049 | 36 | 36 | - | - | 1,590 | 19,869 |
| Gicumbi | 4,886 | - | 4,886 | 0 | 0 | - | - | 85 | 4,971 |
| Rwamagana | 81 | 81 | - | 10 | 9 | - | 1 | 1,953 | 2,044 |
| Nyagatare | 39 | 39 | - | - | - | - | - | 1,067 | 1,106 |
| Gatsibo | 708 | 529 | 179 | 62 | 23 | - | 38 | 1,511 | 2,280 |
| Kayonza | 11 | - | 11 | - | - | - | - | 503 | 514 |
| Kirehe | 153 | 109 | 44 | 9 | 9 | - | - | 850 | 1,012 |
| Bugesera | 1,706 | 1,685 | 21 | 348 | 238 | - | 110 | 669 | 2,724 |
| National | 108,750 | 26,539 | 82,211 | 1,386 | 938 | 149 | 299 | 36,072 | 146,209 |

Source: NISR, SAS 2019

Table 21: Season A 2019 Share of crop production use by use type per crop type (percentages)

| Crops | Sold | Auto consumption | Wages for hired labor | Farm rent | Offered as gift | Barter trade/Exchanged | Seeds | Fodder purposes | Stored | Damaged/Post harvesting losses | Other usage | Total Produce |
|------------------------------|------|------------------|-----------------------|-----------|-----------------|------------------------|-------|-----------------|--------|--------------------------------|-------------|---------------|
| Cereals | | | | | | | | | | | | |
| Maize | 79.6 | 17.8 | 0.1 | 0.1 | 0.4 | 0 | 1.6 | 0 | 0.2 | 0.2 | 0 | 100 |
| Sorghum | 66.4 | 6.5 | 21.7 | 1.4 | 2 | 0 | 1.1 | - | 0.7 | 0 | 0.1 | 100 |
| Paddy rice | 89.1 | 8.5 | 0 | 0 | 0 | 0 | 0.7 | - | 0 | 1.2 | 0.5 | 100 |
| Wheat | 93.4 | 5 | 0.1 | - | 0.6 | 0 | 1 | 0 | 0 | 0 | - | 100 |
| Other cereals | 17.4 | 75.6 | 0.4 | 0.3 | 3 | 0.1 | 2.6 | - | 0.7 | - | - | 100 |
| Tubers and Roots | | | | | | | | | | | | |
| Sweet potato | 38.2 | 51.5 | 1.6 | 0.2 | 3.4 | 0 | 0 | 2.9 | - | 1.9 | 0.4 | 100 |
| Irish potato | 60 | 7.7 | 0.2 | 0 | 1.9 | 0 | 30 | - | - | 0.1 | 0 | 100 |
| Yam & Taro | 49.6 | 37.9 | 1.7 | 0.3 | 4.5 | 0.2 | 4.8 | - | - | 0.6 | 0.4 | 100 |
| Cassava | 51.5 | 42.6 | 1.9 | 1 | 2.3 | 0 | 0 | 0.1 | - | 0.2 | 0.4 | 100 |
| Legumes and Pulses | | | | | | | | | | | | |
| Bush bean | 63.3 | 23.6 | 8.3 | 0.4 | 0.8 | 0 | 3.1 | - | 0.5 | 0 | 0.1 | 100 |
| Small red bean | 13.1 | 66.8 | - | - | 7.6 | - | 12.5 | - | - | - | - | 100 |
| Climbing bean | 28.6 | 48.8 | 1.5 | 0.4 | 6.8 | 0.1 | 11.6 | - | 2.2 | 0 | 0.1 | 100 |
| Pea | 20.6 | 64.4 | 0.1 | 0.3 | 2.8 | 0 | 11.6 | - | 0 | 0 | 0 | 100 |
| Groundnut | 20.8 | 61.7 | 0.2 | 0.4 | 2.2 | 0 | 14.4 | - | 0.4 | - | 0 | 100 |
| Soybean | 90.9 | 8.7 | 0 | 0 | 0.1 | 0 | 0.3 | - | 0 | - | 0 | 100 |
| Banana | | | | | | | | | | | | |
| Cooking banana | 63 | 34.4 | 0.9 | 0.1 | 1.3 | 0 | - | 0 | - | 0.1 | 0.2 | 100 |
| Dessert banana | 77.1 | 20.2 | 0.1 | - | 2.2 | - | - | 0 | - | 0.3 | 0.2 | 100 |
| Banana for beer | 83 | 11.7 | 0.1 | 0 | 4.6 | 0 | - | 0 | - | 0.3 | 0.3 | 100 |
| Vegetables and fruits | | | | | | | | | | | | |
| Vegetables | 92.5 | 6.2 | 0.1 | 0 | 0.4 | - | 0.3 | 0 | - | 0.4 | 0 | 100 |
| Fruits | 82.8 | 13.5 | 0.7 | - | 1.3 | - | 0 | - | - | 1.7 | 0.1 | 100 |
| Fodder crops | 0.4 | 1.1 | 0.1 | - | 0 | 0 | 0 | 90.4 | 7.9 | - | 0.1 | 100 |
| Other crops | 93.8 | 2 | - | - | 0.4 | - | 0 | 0.2 | - | 0.4 | 3.2 | 100 |

Source: NISR, SAS 2019

Table 22: Season B 2019 Share of crop production use by use type per crop type (percentages)

| Crops | Sold | Auto consumption | Wages for hired labor | Farm rent | Offered as gift | Barter trade/Exchanged | Seeds | Fodder purposes | Stored | Damaged/Post harvesting losses | Other usage | Total Produce |
|------------------------------|------|------------------|-----------------------|-----------|-----------------|------------------------|-------|-----------------|--------|--------------------------------|-------------|---------------|
| Cereals | | | | | | | | | | | | |
| Maize | | | | | | | | | | | | |
| Maize | 88.9 | 9.7 | 0.1 | 0.1 | 0.4 | - | 0.1 | 0.5 | 0.1 | - | - | 100 |
| Sorghum | 61.4 | 12.5 | 16.9 | 1.2 | 2.9 | - | 4.2 | - | 0.6 | - | 0.3 | 100 |
| Paddy rice | 88.8 | 9.5 | - | - | - | - | 0.8 | - | - | 0.9 | - | 100 |
| Wheat | 77.9 | 8.9 | 1.3 | - | 3.7 | 0.1 | 6.1 | 1.3 | 0.6 | - | - | 100 |
| Other cereals | 96.1 | 3.5 | - | - | 0.1 | - | 0.2 | - | - | - | - | 100 |
| Tubers and Roots | | | | | | | | | | | | |
| Sweet potato | | | | | | | | | | | | |
| Sweet potato | 30 | 57.7 | 3 | 0.7 | 4.5 | 0.1 | - | 3.6 | - | 0.1 | 0.3 | 100 |
| Irish potato | 69.3 | 13.8 | 0.4 | 0.1 | 1.6 | - | 14.4 | - | - | 0.3 | 0.2 | 100 |
| Yam & Taro | 28.8 | 61.2 | 4.3 | 0.3 | 3 | - | 1.9 | - | 0.1 | - | 0.4 | 100 |
| Cassava | 69.7 | 25.8 | 0.9 | 0.6 | 2.2 | - | - | 0.2 | - | 0.4 | 0.2 | 100 |
| Legumes and Pulses | | | | | | | | | | | | |
| Bush bean | | | | | | | | | | | | |
| Bush bean | 53.3 | 24.4 | 13.3 | 0.7 | 1.7 | 0 | 5.7 | - | 0.7 | 0.1 | 0.2 | 100 |
| Small red bean | - | 69 | - | 20.7 | 5.2 | - | 5.2 | - | - | - | - | 100 |
| Climbing bean | 28.8 | 48 | 1.1 | 0.4 | 7.5 | 0.1 | 12.6 | - | 1.4 | 0.1 | 0.1 | 100 |
| Pea | 25.9 | 63 | 0.1 | - | 2.2 | - | 7.5 | - | 0.3 | - | 1 | 100 |
| Groundnut | 45.3 | 37.3 | 1.1 | 1.3 | 2.7 | - | 11.6 | - | 0.5 | - | 0.2 | 100 |
| Soybean | 77.4 | 21.6 | - | - | 0.1 | - | 0.4 | - | - | 0.1 | 0.3 | 100 |
| Banana | | | | | | | | | | | | |
| Cooking banana | | | | | | | | | | | | |
| Cooking banana | 58.8 | 35.8 | 1.5 | 0.1 | 2.6 | - | - | - | - | 0.9 | 0.3 | 100 |
| Dessert banana | 80.5 | 15.9 | 0 | 0.1 | 2.9 | - | - | - | - | 0.3 | 0.2 | 100 |
| Banana for beer | 78.2 | 13.9 | 0.1 | 0.1 | 6 | - | - | - | - | 1 | 0.8 | 100 |
| Vegetables and fruits | | | | | | | | | | | | |
| Vegetables | | | | | | | | | | | | |
| Vegetables | 97.2 | 0.4 | - | - | 2.2 | - | - | - | - | 0.1 | - | 100 |
| Fruits | 98 | 1.5 | - | - | 0.3 | - | - | - | - | - | - | 100 |
| Fodder crops | 0.4 | 44.5 | 0.1 | - | 0.2 | - | - | 53.8 | 0.9 | 0.1 | - | 100 |
| Other crops | 89.9 | 3.7 | - | - | 0.3 | - | 1.1 | - | - | 0.1 | 4.9 | 100 |

Source: NISR, SAS 2019

Table 23: Season C 2019 Share of crop production use by use type per crop type (percentages)

| Crops | Sold | Auto consumption | Wages for hired labor | Farm rent | Offered as gift | Barter trade/Exchanged | Seeds | Fodder purposes | Stored | Damaged/Post harvesting losses | Other usage | Total produce |
|---------------------------|-------|------------------|-----------------------|-----------|-----------------|------------------------|-------|-----------------|--------|--------------------------------|-------------|---------------|
| Legumes and Pulses | | | | | | | | | | | | |
| Bush bean | 40.6 | 39.3 | 0.8 | 0.1 | 3.4 | 0.1 | 14.5 | - | 1.2 | - | - | 100.0 |
| Climbing bean | 32.4 | 54.0 | - | - | 4.4 | - | 9.2 | - | - | - | - | 100.0 |
| Pea | 74.6 | 22.2 | - | 0.2 | 1.5 | - | 1.4 | - | - | - | - | 100.0 |
| Tubers and Roots | | | | | | | | | | | | |
| Irish potato | 75.5 | 12.1 | 1.5 | 0.1 | 2.1 | 0.0 | 8.3 | 0.1 | - | 0.2 | 0.0 | 100.0 |
| Sweet potato | 37.4 | 48.5 | 2.4 | 0.3 | 5.5 | 0.0 | - | 5.8 | - | 0.1 | 0.0 | 100.0 |
| Vegetables | | | | | | | | | | | | |
| Tomato | 68.6 | 23.6 | 0.0 | 0.1 | 3.0 | 0.0 | 0.5 | 0.8 | - | 3.2 | 0.0 | 100.0 |
| <i>Cabbage</i> | 66.8 | 25.9 | 2.8 | 0.3 | 3.6 | 0.0 | - | 0.0 | - | 0.4 | 0.2 | 100.0 |
| Onion | 67.6 | 31.9 | - | - | 0.3 | - | - | - | - | 0.2 | - | 100.0 |
| Carrot | 88.0 | 7.8 | - | - | 2.8 | - | - | 0.3 | - | 1.1 | - | 100.0 |
| Eggplant | 80.5 | 15.3 | - | - | 3.8 | - | 0.1 | - | - | - | 0.3 | 100.0 |
| Soybean | 62.2 | 24.6 | 0.5 | 0.3 | 3.6 | 0.1 | 8.4 | - | 0.1 | - | 0.2 | 100.0 |
| <i>Sweet pepper</i> | 81.8 | 6.4 | - | - | 4.1 | - | 2.1 | - | - | 5.7 | - | 100.0 |
| Amaranth | 59.8 | 37.7 | - | - | 2.5 | - | - | - | - | - | - | 100.0 |
| Sugar beet | 64.8 | 33.6 | - | - | 1.5 | - | - | - | - | 0.0 | - | 100.0 |
| Garlic | 85.5 | 0.0 | - | - | 0.0 | - | 14.4 | - | - | - | - | 100.0 |
| French bean | 77.7 | 15.3 | - | - | 4.4 | - | 2.6 | - | - | - | - | 100.0 |
| Cucumber | 98.0 | 2.0 | - | - | - | - | - | - | - | - | - | 100.0 |
| Other annual crop | 100.0 | - | - | - | - | - | - | - | - | - | - | 100.0 |

Source: NISR, SAS 2019

Table 24: Percentage of crops by sowing date per season and crop type in 2019 (in percentage)

| Crops | Season A 2019 | | | | | | Total | Season B 2019 | | | | | | Season C 2019 | | | | | | | | | |
|-----------------|---------------|------------------|------------------|------------------|------------------|-------------|------------|---------------|------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------|------------|--------------|------------------|------------------|-------------------|-------------|------------|---|
| | Before 01/09 | Between 01-15/09 | Between 16-30/09 | Between 01-15/10 | Between 16-31/10 | After 31/10 | | Before 31/12 | 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 | Total | Before 30/04 | Between 01-31/05 | Between 01-30/06 | Between 01- 31/07 | After 31/07 | Total | |
| Fruits | 92.0 | 2.5 | 1.7 | 1.7 | 1.7 | 0.4 | 100 | 94.4 | 0.5 | 0.5 | 0.9 | - | 0.9 | 0.5 | 2.4 | 100 | - | - | - | - | - | - | |
| Vegetables | 13.8 | 18.6 | 12.3 | 19.8 | 11.6 | 23.9 | 100 | 6.5 | 5.2 | 8.2 | 13.7 | 10.7 | 19 | 11.4 | 25.3 | 100 | 6.1 | 26.1 | 32.2 | 30.6 | 5.0 | - | |
| Other crops | 89.9 | 2.0 | 0.5 | 2.0 | 3.1 | 2.5 | 100 | 88.4 | 0.1 | - | 0.7 | 1 | 3.5 | 3.5 | 2.7 | 100 | - | - | - | - | - | - | |
| Fodder crops | 88.8 | 4.3 | 1.8 | 3.6 | 0.7 | 0.7 | 100 | 82.1 | 2.2 | 0.9 | 3.9 | 1.3 | 4.8 | 1.8 | 3.1 | 100 | - | - | - | - | - | - | |
| Other cereals | 3.6 | 17.4 | 21.7 | 41.3 | 10.9 | 5.1 | 100 | 3 | 4 | 2 | 19 | 31 | 36 | 4 | 1 | 100 | - | - | - | - | - | - | |
| Maize | 9.5 | 23.5 | 22.0 | 29.3 | 11.2 | 4.4 | 100 | 0.6 | 2.7 | 3.5 | 16.8 | 32 | 33.9 | 8.7 | 1.8 | 100 | - | - | - | - | - | - | |
| Paddy rice | 67.6 | 10.4 | 5.8 | 8.7 | 3.3 | 4.2 | 100 | 6 | 18.1 | 16.9 | 24.1 | 17.3 | 10.8 | 2.4 | 4.4 | 100 | - | - | - | - | - | - | |
| Sorghum | 19.4 | 39.5 | 27.5 | 11.1 | 1.9 | 0.6 | 100 | 4.6 | 44.3 | 25.9 | 16.9 | 6.6 | 1.4 | 0.3 | - | 100 | - | - | - | - | - | - | |
| Wheat | 12.7 | 13.5 | 25.4 | 20.6 | 13.5 | 14.3 | 100 | - | 1.5 | 1 | 3.1 | 5.6 | 19.4 | 33.7 | 35.7 | 100 | - | - | - | - | - | - | |
| Bush bean | 1.5 | 15.9 | 22.9 | 40.5 | 15.5 | 3.8 | 100 | 0.2 | 0.6 | 1.1 | 16 | 29.5 | 38.6 | 11.7 | 2.2 | 100 | 1.5 | 5.1 | 29.9 | 44.5 | 19.0 | 100 | |
| Climbing bean | 8.8 | 37.6 | 26.8 | 18.5 | 6.7 | 1.6 | 100 | 0.2 | 0.7 | 1.3 | 17.4 | 24.9 | 37.9 | 14.5 | 3.1 | 100 | 2.9 | 5.7 | 48.6 | 40.0 | 2.9 | 100 | |
| Pea | 7.5 | 28.7 | 23.5 | 21.1 | 9.5 | 9.7 | 100 | - | 2.6 | 1.3 | 5.6 | 15.9 | 30.8 | 23.6 | 20.3 | 100 | 2.0 | 11.8 | 54.9 | 25.5 | 5.9 | 100 | |
| Irish potato | 13.4 | 23.3 | 20.8 | 20.0 | 7.6 | 15.0 | 100 | 0.8 | 4.7 | 3.5 | 11.3 | 13.8 | 26 | 17.5 | 22.5 | 100 | 4.2 | 29.4 | 34.8 | 27.8 | 3.9 | 100 | |
| Sweet potato | 21.1 | 12.2 | 7.8 | 13.7 | 10.7 | 34.5 | 100 | 7.7 | 15.5 | 9 | 15.3 | 10.1 | 14.2 | 8.8 | 19.5 | 100 | 7.3 | 21.1 | 37.4 | 29.7 | 4.6 | 100 | |
| Soybean | 1.0 | 17.9 | 20.1 | 36.8 | 15.8 | 8.4 | 100 | 0.2 | 0.9 | 4 | 25.7 | 30.5 | 23.3 | 12.3 | 3.2 | 100 | 1.7 | 2.6 | 42.6 | 41.7 | 11.3 | 100 | |
| Groundnut | 4.8 | 21.6 | 26.2 | 34.0 | 10.6 | 2.8 | 385 | - | 1 | 2.2 | 19.3 | 35.9 | 34.5 | 6.5 | 0.7 | 100 | - | - | - | - | - | - | |
| Small red bean | 8.7 | 21.7 | 13.0 | 30.4 | 21.7 | 4.4 | 100 | - | 20 | - | - | - | 80 | - | - | 100 | - | - | - | - | - | - | |
| Taro | 56.6 | 13.1 | 9.0 | 7.8 | 6.3 | 7.3 | 100 | 69.6 | 10.4 | 4.2 | 7.3 | 1.8 | 2.4 | 1.3 | 2.9 | 100 | - | - | - | - | - | - | |
| Yams | 33.3 | 66.7 | - | - | - | - | 100 | 100 | - | - | - | - | - | - | - | 100 | - | - | - | - | - | - | |
| Cassava | 99.6 | 0.1 | 0.2 | 0.1 | - | 0.1 | 100 | 99.8 | - | 0.1 | - | 0.1 | 0.1 | - | - | 100 | - | - | - | - | - | - | |
| Cooking banana | 100.0 | 0.1 | - | - | - | - | 100 | 100 | - | - | - | - | - | - | - | 100 | - | - | - | - | - | - | |
| Dessert banana | 99.8 | 0.1 | - | 0.1 | - | - | 100 | 99.8 | 0.1 | - | - | 0.1 | - | - | - | 100 | - | - | - | - | - | - | |
| Banana for beer | 99.7 | - | 0.0 | 0.1 | - | 0.1 | 100 | 99.9 | 0.1 | - | - | - | - | - | - | 0 | 100 | - | - | - | - | - | - |
| National | 31.7 | 16.6 | 15.8 | 20.8 | 8.5 | 6.7 | 100 | 30.9 | 6.7 | 4.7 | 11.5 | 15.4 | 18.9 | 7.2 | 4.7 | 100 | 5.2 | 20.9 | 36.1 | 31.6 | 6.2 | 100 | |

Source: NISR, SAS 2019

Table 25: Percentage of crops by sowing dates per season and district in 2019

| District | Season A | | | | | | Season B | | | | | | Season C | | | | | | Total | |
|-----------------|-----------------|---------------------------|---------------------------|---------------------------|----------------|-----------------|---------------------------|---------------------------|---------------------------|----------------|-----------------|---------------------------|---------------------------|---------------------------|-----------------|---------------------------|---------------------------|---------------------------|------------|------------|
| | Before 01/09 | Between n 01- n 16. | Between n 01- n 16. | Between n 01- n 16. | After 31/10 | Before 31/12 | Between n 01- n 16. | Between n 01- n 16. | Between n 01- n 16. | After 31/03 | Before 30/04 | Between n 01- n 16. | Between n 01- n 16. | Between n 01- n 16. | Before 31/03 | Between n 01- n 16. | Between n 01- n 16. | Between n 01- n 16. | | |
| Nyarugenge | 32.7 | 2.1 | 11.3 | 37.2 | 9.1 | 7.6 | 39.4 | 2.8 | 7.5 | 12.1 | 17.4 | 14.2 | 4.5 | 1.6 | 0.0 | 13.3 | 26.7 | 53.3 | 6.7 | 100 |
| Gasabo | 26.7 | 11.3 | 23.8 | 26.7 | 5.9 | 5.5 | 31.2 | 12.9 | 4.5 | 8.3 | 21.4 | 13.9 | 3.9 | 3.5 | 8.0 | 44.0 | 28.0 | 20.0 | 0.0 | 100 |
| Kicukiro | 33.5 | 8.4 | 7.9 | 43.9 | 4.3 | 2.1 | 32.0 | 13.0 | 4.8 | 6.7 | 13.0 | 19.2 | 10.0 | 0.7 | - | - | - | - | - | - |
| Nyanza | 28.0 | 7.6 | 8.9 | 28.9 | 14.0 | 12.6 | 27.4 | 10.1 | 5.7 | 23.5 | 12.8 | 10.9 | 3.8 | 5.5 | 5.3 | 8.0 | 32.0 | 45.3 | 9.3 | 100 |
| Gisagara | 24.2 | 5.5 | 8.3 | 33.6 | 19.0 | 9.4 | 31.8 | 5.7 | 5.4 | 12.1 | 18.9 | 14.7 | 8.1 | 3.0 | 3.9 | 12.3 | 26.0 | 39.6 | 18.2 | 100 |
| Nyaruguru | 31.9 | 6.6 | 9.6 | 25.1 | 12.8 | 14.1 | 35.1 | 9.0 | 5.8 | 11.6 | 8.1 | 13.7 | 8.4 | 7.9 | 6.0 | 25.3 | 34.9 | 22.9 | 10.8 | 100 |
| Huye | 26.9 | 6.1 | 11.8 | 33.7 | 12.6 | 8.9 | 30.6 | 11.8 | 11.2 | 20.2 | 12.2 | 8.9 | 2.5 | 2.3 | 15.7 | 15.7 | 21.4 | 35.7 | 11.4 | 100 |
| Nyamagabe | 29.4 | 14.0 | 18.0 | 15.1 | 9.8 | 13.7 | 26.3 | 8.6 | 7.7 | 12.3 | 13.1 | 11.6 | 10.0 | 10.0 | 0.0 | 5.2 | 37.1 | 52.6 | 5.2 | 100 |
| Ruhango | 36.7 | 8.7 | 12.5 | 22.0 | 14.2 | 6.0 | 32.8 | 6.6 | 6.7 | 23.6 | 19.0 | 6.2 | 2.1 | 2.5 | 16.0 | 16.0 | 26.0 | 40.0 | 2.0 | 100 |
| Muhanga | 39.6 | 11.1 | 14.5 | 21.0 | 6.9 | 6.9 | 43.5 | 7.9 | 6.5 | 25.2 | 7.9 | 4.4 | 1.2 | 3.0 | 9.5 | 17.9 | 42.1 | 27.4 | 3.2 | 100 |
| Kamonyi | 28.9 | 4.8 | 8.0 | 25.4 | 26.8 | 6.1 | 31.7 | 7.7 | 3.0 | 16.1 | 24.6 | 10.5 | 3.4 | 2.6 | 8.9 | 30.4 | 35.7 | 17.9 | 7.1 | 100 |
| Karongi | 37.3 | 15.4 | 16.6 | 14.3 | 10.3 | 6.1 | 34.5 | 5.5 | 6.8 | 13.9 | 17.3 | 11.6 | 4.7 | 5.5 | 3.7 | 44.4 | 33.3 | 18.5 | 0.0 | 100 |
| Rutsiro | 42.1 | 24.9 | 15.6 | 8.1 | 3.0 | 6.3 | 35.3 | 2.7 | 2.7 | 11.3 | 15.0 | 14.9 | 8.9 | 8.7 | 9.6 | 18.3 | 54.8 | 15.4 | 1.9 | 100 |
| Rubavu | 57.9 | 18.3 | 9.1 | 5.5 | 4.3 | 5.0 | 12.8 | 4.9 | 2.7 | 9.9 | 15.7 | 17.3 | 17.3 | 19.0 | 10.0 | 16.7 | 23.3 | 46.7 | 3.3 | 100 |
| Nyabihu | 28.1 | 24.4 | 21.8 | 8.5 | 5.6 | 11.7 | 15.1 | 6.5 | 5.4 | 12.8 | 15.4 | 25.4 | 11.9 | 7.2 | 3.7 | 24.4 | 40.2 | 29.3 | 2.4 | 100 |
| Ngororero | 34.2 | 25.7 | 12.4 | 12.3 | 4.5 | 11.0 | 34.9 | 2.3 | 3.1 | 11.8 | 17.6 | 14.4 | 4.6 | 10.9 | 0.0 | 16.4 | 41.8 | 38.2 | 3.6 | 100 |
| Rusizi | 25.5 | 16.5 | 21.8 | 22.4 | 9.0 | 4.8 | 53.1 | 0.7 | 0.9 | 7.8 | 17.1 | 12.7 | 4.8 | 2.6 | 0.0 | 15.2 | 15.2 | 33.3 | 36.4 | 100 |
| Nyamasheke | 25.5 | 22.4 | 20.9 | 18.2 | 8.1 | 4.9 | 44.7 | 1.8 | 2.7 | 14.0 | 18.3 | 10.3 | 4.1 | 3.8 | 0.0 | 25.0 | 50.0 | 25.0 | 0.0 | 100 |
| Rulindo | 32.1 | 36.8 | 17.7 | 7.1 | 2.2 | 4.2 | 33.7 | 7.2 | 5.5 | 5.3 | 14.2 | 17.9 | 8.7 | 7.1 | 6.3 | 34.4 | 28.1 | 25.0 | 6.3 | 100 |
| Gakenke | 39.2 | 28.5 | 15.7 | 8.3 | 3.5 | 4.9 | 43.6 | 3.3 | 2.1 | 3.0 | 9.1 | 21.8 | 7.1 | 9.8 | 7.0 | 37.2 | 37.2 | 16.3 | 2.3 | 100 |
| Musanze | 37.7 | 29.4 | 13.5 | 7.2 | 3.6 | 8.7 | 14.2 | 5.3 | 3.0 | 6.1 | 6.8 | 27.8 | 22.7 | 13.7 | 0.8 | 12.9 | 40.3 | 43.6 | 2.4 | 100 |
| Burera | 23.9 | 39.7 | 10.2 | 7.9 | 4.5 | 13.9 | 13.5 | 12.9 | 5.0 | 12.5 | 9.3 | 22.1 | 14.7 | 9.5 | 0.0 | 28.9 | 51.9 | 19.2 | 0.0 | 100 |
| Gicumbi | 23.6 | 32.7 | 18.4 | 13.6 | 3.7 | 8.1 | 20.3 | 11.2 | 6.4 | 11.2 | 9.8 | 26.8 | 6.5 | 7.5 | 8.1 | 66.1 | 22.6 | 3.2 | 0.0 | 100 |
| Rwamagana | 39.4 | 6.8 | 13.9 | 31.1 | 6.4 | 2.4 | 42.1 | 5.2 | 6.6 | 10.6 | 14.3 | 15.2 | 3.4 | 2.2 | 6.7 | 20.0 | 20.0 | 50.0 | 3.3 | 100 |
| Nyagatare | 21.5 | 33.3 | 26.8 | 13.3 | 2.5 | 2.7 | 16.9 | 1.8 | 2.5 | 8.1 | 28.3 | 34.1 | 5.9 | 2.1 | 0.0 | 13.3 | 73.3 | 13.3 | 0.0 | 100 |
| Gatsibo | 27.1 | 12.9 | 23.3 | 25.3 | 7.6 | 3.8 | 32.1 | 3.3 | 2.6 | 11.1 | 17.4 | 22.6 | 8.2 | 2.3 | 5.1 | 37.3 | 28.8 | 27.1 | 1.7 | 100 |
| Kayonza | 31.9 | 8.1 | 20.4 | 30.9 | 5.7 | 3.0 | 24.4 | 9.3 | 4.5 | 7.0 | 8.0 | 33.1 | 10.4 | 2.8 | 9.1 | 18.2 | 63.6 | 9.1 | 0.0 | 100 |
| Kirehe | 35.8 | 2.7 | 7.9 | 26.1 | 19.4 | 8.1 | 38.8 | 10.1 | 4.5 | 10.5 | 17.3 | 15.4 | 2.4 | 0.8 | 9.1 | 31.8 | 31.8 | 27.3 | 0.0 | 100 |
| Ngoma | 37.8 | 9.0 | 11.4 | 25.6 | 12.2 | 4.0 | 42.3 | 4.7 | 1.3 | 6.1 | 14.7 | 22.5 | 6.2 | 1.7 | - | - | - | - | - | - |
| Bugesera | 39.6 | 7.1 | 9.3 | 24.1 | 11.7 | 8.2 | 27.2 | 5.6 | 4.3 | 7.3 | 11.6 | 25.3 | 15.4 | 2.9 | 0.0 | 7.3 | 42.7 | 40.9 | 9.1 | 100 |
| National | 31.7 | 16.6 | 15.8 | 20.8 | 8.5 | 6.7 | 30.9 | 6.6 | 4.6 | 11.4 | 15.4 | 18.9 | 7.2 | 4.7 | 5.2 | 20.9 | 36.1 | 31.6 | 6.2 | 100 |

Source: NISR, SAS 2019

Table 26: Percentage of plots with number of crops per plot and district in 2019

| District | 1 Crop | | | 2 Crops | | | 3 Crops | | | 4 Crops | | | 5 Crops or more | | | Average number of crops per plot | | |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|------------|-----------------|------------|------------|----------------------------------|------------|------------|
| | 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 | 27.5 | 37.4 | 48.7 | 25.3 | 28.6 | 30.7 | 28.4 | 20.6 | 20.6 | 14.7 | 9.9 | - | 4.1 | 3.6 | - | 2.4 | 2.1 | 1.7 |
| Gasabo | 14.7 | 24.1 | 76.1 | 25.8 | 30.9 | 15.3 | 24.6 | 23.6 | 8.6 | 19.0 | 12.1 | - | 15.9 | 9.3 | - | 2.9 | 2.5 | 1.3 |
| Kicukiro | 18.3 | 21.8 | - | 25.7 | 35.6 | - | 31.9 | 22.0 | - | 13.4 | 12.7 | - | 10.8 | 7.8 | - | 2.7 | 2.5 | - |
| Nyanza | 32.5 | 32.5 | 52.9 | 28.1 | 31.0 | 31.6 | 25.2 | 18.8 | 12.6 | 8.1 | 10.7 | 2.4 | 6.0 | 7.0 | 0.5 | 2.3 | 2.3 | 1.7 |
| Gisagara | 16.0 | 26 | 70.0 | 20.3 | 23.1 | 20.8 | 22.2 | 25.8 | 8.0 | 22.9 | 18.4 | 0.6 | 18.6 | 6.6 | 0.6 | 3.1 | 2.6 | 1.4 |
| Nyaruguru | 35.1 | 38.9 | 81.5 | 23.1 | 29.0 | 14.7 | 17.8 | 17.0 | 3.8 | 13.8 | 7.5 | - | 10.3 | 7.6 | - | 2.3 | 2.2 | 1.2 |
| Huye | 23.9 | 25.9 | 61.3 | 25.5 | 34.2 | 26.5 | 23.4 | 22.1 | 9.4 | 15.1 | 11.4 | 1.3 | 12.1 | 6.4 | 1.4 | 2.7 | 2.4 | 1.5 |
| Nyamagabe | 29.5 | 28.5 | 54.2 | 27.3 | 32.2 | 27.5 | 20.2 | 17.4 | 14.9 | 11.3 | 14.1 | 2.5 | 11.8 | 7.8 | 0.8 | 2.5 | 2.4 | 1.7 |
| Ruhango | 40.9 | 36.6 | 69.1 | 27.5 | 25.4 | 23.0 | 21.3 | 20.3 | 6.8 | 7.1 | 10.5 | 1.1 | 3.2 | 7.2 | - | 2.0 | 2.3 | 1.4 |
| Muhanga | 20.5 | 23.4 | 44.0 | 25.3 | 29.9 | 29.3 | 24.5 | 22.0 | 22.8 | 17.4 | 17.3 | 3.9 | 12.3 | 7.4 | - | 2.7 | 2.6 | 1.9 |
| Kamonyi | 27.3 | 27.5 | 52.3 | 31.5 | 26.2 | 32.8 | 23.8 | 22.6 | 8.3 | 12.0 | 15.8 | 5.3 | 5.3 | 7.9 | 1.3 | 2.4 | 2.5 | 1.7 |
| Karongi | 35.8 | 37.1 | 81.5 | 25.4 | 33.1 | 16.7 | 18.8 | 15.2 | 1.8 | 12.3 | 9.9 | - | 7.7 | 4.7 | - | 2.3 | 2.1 | 1.2 |
| Rutsiro | 29.1 | 38.2 | 47.2 | 30.2 | 36.8 | 50.1 | 19.4 | 16.4 | 1.7 | 13.2 | 6.4 | 0.9 | 8.0 | 2.2 | - | 2.4 | 2.0 | 1.6 |
| Rubavu | 56.7 | 65.5 | 89.2 | 26.2 | 25.2 | 9.0 | 15.8 | 7.2 | 1.8 | 1.3 | 2.1 | - | - | - | - | 1.6 | 1.5 | 1.1 |
| Nyabihu | 49.3 | 59.2 | 74.5 | 29.7 | 27.6 | 19.2 | 15.2 | 9.3 | 5.9 | 5.1 | 2.7 | 0.4 | 0.6 | 1.2 | - | 1.8 | 1.6 | 1.3 |
| Ngororero | 28.3 | 38.6 | 67.1 | 32.8 | 30.5 | 27.7 | 22.8 | 17.5 | 5.2 | 11.3 | 9.3 | - | 4.8 | 4.1 | - | 2.3 | 2.1 | 1.4 |
| Rusizi | 19.2 | 45.4 | 73.8 | 17.8 | 32.7 | 9.8 | 35.5 | 14.3 | 11.2 | 19.3 | 6.1 | 5.3 | 8.2 | 1.5 | - | 3.8 | 1.9 | 1.5 |
| Nyamasheke | 33.3 | 42.2 | 89.0 | 25.8 | 27.8 | 10.3 | 22.1 | 20.6 | 0.7 | 12.7 | 6.6 | - | 6.1 | 2.8 | - | 2.3 | 2.0 | 1.1 |
| Rulindo | 16.9 | 26.4 | 65.1 | 31.5 | 27.6 | 29.9 | 23.7 | 22.4 | - | 15.0 | 12.3 | 2.5 | 12.9 | 11.3 | 2.5 | 2.8 | 2.5 | 1.5 |
| Gakenke | 24.5 | 38.7 | 68.1 | 28.8 | 29.3 | 21.3 | 27.3 | 19.5 | 8.8 | 12.1 | 8.6 | 1.0 | 7.3 | 4.0 | 0.8 | 2.5 | 2.1 | 1.4 |
| Musanze | 40.6 | 48.1 | 66.6 | 41.7 | 35.7 | 24.2 | 9.8 | 10.1 | 8.6 | 5.5 | 5.2 | 0.3 | 2.4 | 0.9 | 0.3 | 1.9 | 1.8 | 1.4 |
| Burera | 32.6 | 39.3 | 71.9 | 37.3 | 36.1 | 19.5 | 20.2 | 16.4 | 6.7 | 7.6 | 5.4 | 1.8 | 2.4 | 2.7 | - | 2.1 | 2.0 | 1.4 |
| Gicumbi | 31.3 | 33.5 | 74.4 | 28.0 | 33.9 | 24.8 | 22.1 | 20.5 | - | 11.3 | 7.3 | 0.8 | 7.4 | 4.8 | - | 2.3 | 2.2 | 1.3 |
| Rwamagana | 15.3 | 20.5 | 60.5 | 17.7 | 24.5 | 35.4 | 26.3 | 22.3 | - | 20.2 | 18.9 | 4.1 | 20.4 | 13.8 | - | 3.1 | 2.8 | 1.5 |
| Nyagatare | 15.0 | 17.9 | 82.1 | 21.6 | 27.1 | 15.0 | 28.8 | 28.9 | 2.9 | 17.9 | 14.4 | - | 16.7 | 11.6 | - | 3.0 | 2.7 | 1.2 |
| Gatsibo | 29.4 | 29.9 | 73.9 | 35.8 | 31.0 | 22.7 | 20.0 | 22.5 | 1.9 | 10.6 | 12.6 | 1.1 | 4.2 | 4.0 | 0.4 | 2.2 | 2.3 | 1.3 |
| Kayonza | 24.1 | 20.5 | 70.1 | 25.3 | 30.3 | 27.7 | 22.5 | 23.5 | 2.2 | 16.3 | 14.5 | - | 11.8 | 11.3 | - | 2.7 | 2.7 | 1.3 |
| Kirehe | 25.9 | 27.2 | 51.7 | 24.1 | 31.6 | 31.4 | 25.4 | 21.2 | 13.3 | 15.8 | 13.3 | 3.6 | 8.7 | 6.7 | - | 2.6 | 2.4 | 1.7 |
| Ngoma | 23.0 | 28.7 | - | 27.5 | 31.5 | - | 25.9 | 24.5 | - | 16.5 | 12.1 | - | 7.1 | 3.3 | - | 2.6 | 2.3 | - |
| Bugesera | 34.7 | 27.7 | 22.7 | 31.8 | 31.7 | 40.9 | 19.6 | 25.5 | 24.8 | 9.3 | 11.3 | 9.0 | 4.6 | 3.8 | 2.5 | 2.2 | 2.3 | 2.3 |
| National | 28.9 | 33.8 | 69.3 | 28.1 | 30.4 | 21.7 | 22.4 | 19.6 | 7.4 | 12.6 | 10.5 | 1.3 | 8.0 | 5.6 | 0.3 | 2.4 | 2.2 | 1.4 |

Source: NISR, SAS 2019

Table 27: Cultivated area by cropping system, per season and district (%) in 2019

| District | Pure | | | Mixed | | |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | 45.2 | 43.2 | 95.9 | 54.8 | 56.8 | 4.1 |
| Gasabo | 17.6 | 19.7 | 54.6 | 82.4 | 80.3 | 45.4 |
| Kicukiro | 19.5 | 16.9 | | 80.5 | 83.1 | |
| Nyanza | 36.3 | 34.1 | 48.9 | 63.7 | 65.9 | 51.1 |
| Gisagara | 18.1 | 25.9 | 62.7 | 81.9 | 74.1 | 37.3 |
| Nyaruguru | 27.4 | 29.2 | 83.3 | 72.6 | 70.8 | 16.7 |
| Huye | 21.4 | 23.8 | 48.6 | 78.6 | 76.2 | 51.4 |
| Nyamagabe | 23.4 | 19.5 | 44.3 | 76.6 | 80.5 | 55.7 |
| Ruhango | 36.0 | 30 | 67.4 | 64.0 | 70 | 32.6 |
| Muhanga | 14.5 | 19.2 | 37.3 | 85.5 | 80.8 | 62.7 |
| Kamonyi | 20.4 | 17.5 | 31.5 | 79.6 | 82.5 | 68.5 |
| Karongi | 30.4 | 25.5 | 75.1 | 69.6 | 74.5 | 24.9 |
| Rutsiro | 26.1 | 34.5 | 49.0 | 73.9 | 65.5 | 51.0 |
| Rubavu | 58.2 | 65.2 | 90.1 | 41.8 | 34.8 | 9.9 |
| Nyabihu | 47.3 | 59.7 | 73.5 | 52.7 | 40.3 | 26.5 |
| Ngororero | 19.3 | 31.7 | 73.3 | 80.7 | 68.3 | 26.7 |
| Rusizi | 19.2 | 44.3 | 83.5 | 80.8 | 55.7 | 16.5 |
| Nyamasheke | 30.5 | 39.1 | 86.0 | 69.5 | 60.9 | 14.0 |
| Rulindo | 8.4 | 13.3 | 71.0 | 91.6 | 86.7 | 29.0 |
| Gakenke | 14.9 | 25.7 | 51.7 | 85.1 | 74.3 | 48.3 |
| Musanze | 45.9 | 47.5 | 70.8 | 54.1 | 52.5 | 29.2 |
| Burera | 29.1 | 32.3 | 69.7 | 70.9 | 67.7 | 30.3 |
| Gicumbi | 23.7 | 22.6 | 68.3 | 76.3 | 77.4 | 31.7 |
| Rwamagana | 16.6 | 20.1 | 59.4 | 83.4 | 79.9 | 40.6 |
| Nyagatare | 12.6 | 15.6 | 91.2 | 87.4 | 84.4 | 8.8 |
| Gatsibo | 25.6 | 24.9 | 62.9 | 74.4 | 75.1 | 37.1 |
| Kayonza | 27.6 | 20.4 | 77.7 | 72.4 | 79.6 | 22.3 |
| Kirehe | 26.9 | 23.3 | 52.8 | 73.1 | 76.7 | 47.2 |
| Ngoma | 19.5 | 24 | | 80.5 | 76 | |
| Bugesera | 35.1 | 23.9 | 14.0 | 64.9 | 76.1 | 86.0 |
| National | 24.9 | 26.6 | 68.6 | 75.1 | 73.4 | 31.4 |

Source: NISR, SAS 2019

Table 28: Season A 2019 Use of seeds by farmer type per district (in percentage)

| District | Percentage of Plots | | | | | | Percentage of Farmers | | | | | | Percentage of land area | | | | | |
|-----------------|---------------------|-------------|-------------|------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-------------|------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved |
| Nyarugenge | 92.1 | 7.9 | 92.1 | 7.9 | - | - | 84.5 | 15.5 | 84.5 | 15.5 | - | - | 92.8 | 7.2 | 92.8 | 7.2 | - | - |
| Gasabo | 87.7 | 12.3 | 92.5 | 7.5 | 48.9 | 51.2 | 79.8 | 20.2 | 82.1 | 17.9 | 8.3 | 91.7 | 92.9 | 7.1 | 93.8 | 6.2 | 28.1 | 71.9 |
| Kicukiro | 91.5 | 8.5 | 93.9 | 6.1 | 28.0 | 72.0 | 83.5 | 16.5 | 84.9 | 15.1 | - | 100.0 | 85.4 | 14.6 | 85.8 | 14.2 | 25.1 | 74.9 |
| Nyanza | 90.4 | 9.6 | 91.6 | 8.4 | 36.8 | 63.2 | 80.5 | 19.6 | 81.8 | 18.2 | 14.3 | 85.7 | 89.5 | 10.5 | 91.1 | 8.9 | 15.2 | 84.8 |
| Gisagara | 84.5 | 15.5 | 86.0 | 14.1 | 12.5 | 87.5 | 64.8 | 35.2 | 66.8 | 33.2 | 11.1 | 88.9 | 81.3 | 18.7 | 86.2 | 13.8 | 6.0 | 94.0 |
| Nyaruguru | 89.0 | 11.0 | 89.3 | 10.7 | - | 100.0 | 75.7 | 24.3 | 76.4 | 23.6 | - | 100.0 | 88.9 | 11.1 | 89.1 | 10.9 | - | 100.0 |
| Huye | 91.8 | 8.2 | 93.4 | 6.6 | 51.5 | 48.5 | 80.7 | 19.3 | 83.0 | 17.0 | 36.8 | 63.2 | 91.8 | 8.2 | 93.8 | 6.2 | 49.3 | 50.7 |
| Nyamagabe | 93.6 | 6.4 | 94.2 | 5.8 | 30.0 | 70.0 | 84.1 | 15.9 | 84.3 | 15.7 | - | 100.0 | 94.9 | 5.1 | 95.0 | 5.0 | 12.6 | 87.4 |
| Ruhango | 95.5 | 4.5 | 96.2 | 3.8 | 70.0 | 30.0 | 90.7 | 9.3 | 91.9 | 8.1 | 44.4 | 55.6 | 95.8 | 4.2 | 97.9 | 2.1 | 19.3 | 80.7 |
| Muhanga | 94.9 | 5.1 | 96.6 | 3.4 | - | 100.0 | 89.9 | 10.1 | 91.0 | 9.1 | - | 100.0 | 96.9 | 3.1 | 97.8 | 2.2 | - | 100.0 |
| Kamonyi | 91.0 | 9.0 | 93.8 | 6.2 | - | 100.0 | 85.5 | 14.5 | 87.2 | 12.8 | - | 100.0 | 92.4 | 7.6 | 93.3 | 6.7 | - | 100.0 |
| Karongi | 88.9 | 11.1 | 89.2 | 10.8 | - | 100.0 | 73.6 | 26.4 | 73.8 | 26.2 | - | 100.0 | 91.6 | 8.4 | 91.7 | 8.3 | - | 100.0 |
| Rutsiro | 88.8 | 11.3 | 88.8 | 11.3 | - | - | 76.3 | 23.7 | 76.3 | 23.7 | - | - | 89.1 | 10.9 | 89.1 | 10.9 | - | - |
| Rubavu | 74.9 | 25.1 | 75.4 | 24.6 | 45.5 | 54.6 | 58.2 | 41.8 | 58.6 | 41.4 | - | 100.0 | 64.4 | 35.6 | 64.5 | 35.5 | 26.0 | 74.0 |
| Nyabihu | 85.7 | 14.3 | 85.7 | 14.3 | - | - | 71.4 | 28.6 | 71.4 | 28.6 | - | - | 88.3 | 11.7 | 88.3 | 11.7 | - | - |
| Ngororero | 87.5 | 12.5 | 87.5 | 12.5 | - | - | 74.4 | 25.7 | 74.4 | 25.7 | - | - | 91.6 | 8.4 | 91.6 | 8.4 | - | - |
| Rusizi | 87.9 | 12.1 | 88.6 | 11.4 | 50.0 | 50.0 | 72.7 | 27.3 | 73.7 | 26.3 | - | 100.0 | 83.6 | 16.4 | 88.1 | 11.9 | 1.3 | 98.7 |
| Nyamasheke | 93.6 | 6.4 | 93.9 | 6.1 | 50.0 | 50.0 | 86.3 | 13.7 | 86.6 | 13.4 | 60.0 | 40.0 | 94.2 | 5.8 | 94.8 | 5.2 | 55.9 | 44.1 |
| Rulindo | 85.3 | 14.7 | 85.6 | 14.4 | 71.4 | 28.6 | 61.8 | 38.2 | 62.0 | 38.0 | 50.0 | 50.0 | 89.9 | 10.1 | 90.0 | 10.0 | 45.3 | 54.7 |
| Gakenke | 84.3 | 15.8 | 84.3 | 15.8 | - | - | 62.4 | 37.6 | 62.4 | 37.6 | - | - | 86.3 | 13.7 | 86.3 | 13.7 | - | - |
| Musanze | 83.4 | 16.6 | 83.7 | 16.3 | 40.0 | 60.0 | 71.5 | 28.5 | 71.7 | 28.3 | - | 100.0 | 74.5 | 25.5 | 74.5 | 25.5 | 10.4 | 89.6 |
| Burera | 88.8 | 11.2 | 88.8 | 11.2 | - | - | 78.7 | 21.4 | 78.7 | 21.4 | - | - | 86.4 | 13.6 | 86.4 | 13.6 | - | - |
| Gicumbi | 91.1 | 8.9 | 91.2 | 8.8 | 50.0 | 50.0 | 79.9 | 20.1 | 80.0 | 20.0 | - | 100.0 | 94.0 | 6.0 | 94.0 | 6.0 | 29.4 | 70.6 |
| Rwamagana | 86.8 | 13.2 | 90.9 | 9.1 | 62.4 | 37.6 | 70.3 | 29.7 | 73.9 | 26.1 | 9.1 | 90.9 | 91.2 | 8.8 | 92.2 | 7.8 | 19.9 | 80.1 |
| Nyagatare | 94.0 | 6.1 | 95.7 | 4.3 | 46.8 | 53.2 | 85.1 | 14.9 | 87.0 | 13.0 | 9.5 | 90.5 | 90.7 | 9.3 | 93.6 | 6.4 | 2.6 | 97.4 |
| Gatsibo | 88.5 | 11.5 | 90.1 | 9.9 | 41.5 | 58.5 | 75.4 | 24.6 | 76.9 | 23.2 | 6.7 | 93.3 | 86.9 | 13.1 | 88.9 | 11.1 | 20.6 | 79.4 |
| Kayonza | 91.4 | 8.6 | 96.5 | 3.5 | 51.0 | 49.0 | 88.5 | 11.5 | 90.3 | 9.7 | 6.7 | 93.3 | 95.3 | 4.7 | 97.4 | 2.6 | 28.5 | 71.5 |
| Kirehe | 94.6 | 5.4 | 95.0 | 5.0 | 35.7 | 64.3 | 86.6 | 13.5 | 87.1 | 12.9 | 44.4 | 55.6 | 91.7 | 8.3 | 93.4 | 6.6 | 36.9 | 63.1 |
| Ngoma | 83.5 | 16.5 | 85.9 | 14.1 | 48.3 | 51.7 | 62.5 | 37.5 | 63.9 | 36.1 | 25.0 | 75.0 | 79.0 | 21.0 | 79.5 | 20.5 | 46.2 | 53.8 |
| Bugesera | 77.4 | 22.6 | 94.2 | 5.9 | 26.4 | 73.6 | 80.0 | 20.1 | 87.0 | 13.0 | 5.9 | 94.1 | 87.5 | 12.5 | 92.1 | 7.9 | 8.1 | 91.9 |
| National | 89.0 | 11.0 | 90.9 | 9.1 | 43.7 | 56.4 | 77.6 | 22.4 | 78.7 | 21.3 | 15.4 | 84.6 | 89.1 | 10.9 | 90.5 | 9.5 | 17.6 | 82.4 |

Source: NISR, SAS 2019

Table 29: Season B 2019 Use of seeds by farmer type per district (in percentage)

| District | Percentage of plots | | | | | | Percentage of farmers | | | | | | Percentage of land size | | | | | |
|-----------------|---------------------|------------|-------------|------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|------------|-------------|------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved | Traditional | Improved |
| Nyarugenge | 93.3 | 6.7 | 93.3 | 6.7 | - | - | 89.6 | 10.4 | 89.6 | 10.4 | - | - | 93 | 7 | 93 | 7 | - | - |
| Gasabo | 93.9 | 6.1 | 95.5 | 4.5 | 63.6 | 36.4 | 87.5 | 12.5 | 90.2 | 9.8 | - | 100 | 95 | 5 | 96.6 | 3.3 | 20.8 | 79.2 |
| Kicukiro | 97.8 | 2.2 | 97.9 | 2.1 | 50 | 50 | 94.2 | 5.8 | 94.6 | 5.4 | - | 100 | 97.5 | 2.5 | 97.6 | 2.4 | 52.9 | 47.1 |
| Nyanza | 91.7 | 8.3 | 92.9 | 7.1 | 29.4 | 70.6 | 82.2 | 17.8 | 83.8 | 16.3 | - | 100 | 93.5 | 6.5 | 95 | 4.9 | 2.5 | 97.5 |
| Gisagara | 95.1 | 4.9 | 96.5 | 3.5 | 11.8 | 88.2 | 89.4 | 10.6 | 92 | 8 | 13.3 | 86.7 | 91 | 9 | 96.4 | 3.4 | 5.2 | 94.8 |
| Nyaruguru | 93.5 | 6.5 | 93.6 | 6.4 | - | 100 | 86.6 | 13.4 | 86.8 | 13.2 | - | 100 | 94.1 | 5.9 | 94.3 | 5.7 | - | 100 |
| Huye | 93.9 | 6.1 | 95.4 | 4.7 | 44 | 56 | 86 | 14 | 89.1 | 10.9 | 16.7 | 83.3 | 93.7 | 6.3 | 96.3 | 3.6 | 22 | 78 |
| Nyamagabe | 95.2 | 4.8 | 95.5 | 4.5 | 25 | 75 | 87.4 | 12.6 | 87.6 | 12.4 | - | 100 | 96.2 | 3.8 | 96.3 | 3.7 | 2.7 | 97.3 |
| Ruhango | 94 | 6.1 | 95.5 | 4.5 | 51.5 | 48.5 | 90.3 | 9.7 | 91.4 | 8.6 | 40 | 60 | 94.6 | 5.4 | 96.5 | 3.4 | 15 | 85 |
| Muhanga | 98.4 | 1.6 | 98.5 | 1.5 | 50 | 50 | 96 | 4 | 96.2 | 3.8 | 50 | 50 | 98.4 | 1.6 | 98.5 | 1.5 | 45.7 | 54.3 |
| Kamonyi | 96 | 4 | 96.5 | 3.6 | - | 100 | 90.4 | 9.7 | 91.3 | 8.7 | - | 100 | 96.9 | 3.1 | 97.4 | 2.6 | - | 100 |
| Karongi | 94.9 | 5.1 | 95 | 5 | - | 100 | 88.2 | 11.8 | 88.5 | 11.5 | - | 100 | 97.6 | 2.4 | 97.7 | 2.3 | - | 100 |
| Rutsiro | 92.9 | 7.1 | 92.9 | 7.1 | - | - | 85.4 | 14.6 | 85.4 | 14.6 | - | - | 92.5 | 7.5 | 92.5 | 7.5 | - | - |
| Rubavu | 83.7 | 16.3 | 83.6 | 16.4 | 100 | - | 77.3 | 22.7 | 77.2 | 22.8 | 100 | - | 80.2 | 19.8 | 80.2 | 19.8 | 100 | - |
| Nyabihu | 84.2 | 15.8 | 84.2 | 15.8 | - | - | 73.9 | 26.1 | 73.9 | 26.1 | - | - | 83.2 | 16.8 | 83.2 | 16.8 | - | - |
| Ngororero | 92.8 | 7.2 | 92.8 | 7.2 | - | - | 86.1 | 13.9 | 86.1 | 13.9 | - | - | 91.2 | 8.8 | 91.2 | 8.8 | - | - |
| Rusizi | 95.2 | 4.8 | 96.1 | 3.9 | 65.2 | 34.8 | 91.3 | 8.7 | 92.5 | 7.5 | 16.7 | 83.3 | 91.4 | 8.6 | 96.6 | 3.2 | 5 | 95 |
| Nyamasheke | 96.8 | 3.2 | 97 | 3 | 50 | 50 | 93.6 | 6.4 | 94.4 | 5.6 | 40 | 60 | 96.8 | 3.2 | 97.6 | 2.4 | 32.7 | 67.3 |
| Rulindo | 95.8 | 4.2 | 96.1 | 4 | 66.7 | 33.3 | 91.3 | 8.7 | 91.6 | 8.4 | 50 | 50 | 97.2 | 2.8 | 97.3 | 2.7 | 45.9 | 54.1 |
| Gakenke | 96.9 | 3.2 | 96.9 | 3.2 | - | - | 91.9 | 8.1 | 91.9 | 8.1 | - | - | 96.2 | 3.8 | 96.2 | 3.8 | - | - |
| Musanze | 94.2 | 5.9 | 94.1 | 5.9 | 100 | - | 91.4 | 8.7 | 91.3 | 8.7 | 100 | - | 90.9 | 9.1 | 90.9 | 9.1 | 100 | - |
| Burera | 97.8 | 2.2 | 97.8 | 2.2 | - | - | 95.7 | 4.4 | 95.7 | 4.4 | - | - | 96.5 | 3.5 | 96.5 | 3.5 | - | - |
| Gicumbi | 96.7 | 3.3 | 96.8 | 3.2 | 50 | 50 | 92.8 | 7.2 | 93 | 7 | - | 100 | 96.5 | 3.5 | 96.5 | 3.5 | 14 | 86 |
| Rwamagana | 91.8 | 8.2 | 93.3 | 6.7 | 78.2 | 21.8 | 81.4 | 18.6 | 84 | 16 | 33.3 | 66.7 | 91 | 9 | 92 | 7.9 | 26 | 74 |
| Nyagatare | 93.2 | 6.8 | 94.7 | 5.4 | 58.6 | 41.4 | 83.4 | 16.6 | 85 | 15 | 21.7 | 78.3 | 90.3 | 9.7 | 92.4 | 7.4 | 12.3 | 87.7 |
| Gatsibo | 93.4 | 6.6 | 94.8 | 5.3 | 52.5 | 47.5 | 85 | 15 | 86.4 | 13.6 | 14.3 | 85.7 | 92.3 | 7.7 | 94.7 | 5.2 | 4.1 | 95.9 |
| Kayonza | 93.7 | 6.3 | 96.2 | 3.8 | 72.4 | 27.6 | 89.1 | 11 | 90.5 | 9.5 | 20 | 80 | 95.3 | 4.7 | 97.4 | 2.5 | 14.2 | 85.8 |
| Kirehe | 98.2 | 1.9 | 98.7 | 1.3 | 41.2 | 58.8 | 96 | 4 | 96.9 | 3.1 | 30 | 70 | 96.9 | 3.1 | 99.3 | 0.7 | 31.1 | 68.9 |
| Ngoma | 93.6 | 6.4 | 97.9 | 2.2 | 30 | 70 | 93 | 7 | 95 | 5 | 30 | 70 | 97.3 | 2.7 | 98.2 | 1.7 | 44.7 | 55.3 |
| Bugesera | 84 | 16 | 92.9 | 7.1 | 39.2 | 60.8 | 77 | 23 | 83.5 | 16.5 | 11.4 | 88.6 | 91.8 | 8.2 | 94.5 | 5.3 | 28.6 | 71.4 |
| National | 94.0 | 6.0 | 95.2 | 4.8 | 57.2 | 42.8 | 88.2 | 11.8 | 89.4 | 10.6 | 20.4 | 79.6 | 93.9 | 6.1 | 95.3 | 4.6 | 17.1 | 82.9 |

Source: NISR, SAS 2019

Table 30: Season C 2019 Use of seeds types per district (in percentage)

| District | Percentage of plots | | Percentage of farmers | | Percentage of land size | |
|-----------------|---------------------|-------------|-----------------------|-------------|-------------------------|-------------|
| | Traditional | Improved | Traditional | Improved | Traditional | Improved |
| Nyarugenge | 86.7 | 13.3 | 80.0 | 20.0 | 72.3 | 27.7 |
| Gasabo | 92.0 | 8.0 | 91.3 | 8.7 | 96.1 | 3.9 |
| Nyanza | 84.0 | 16.0 | 81.8 | 18.2 | 83.4 | 16.6 |
| Gisagara | 90.9 | 9.2 | 85.6 | 14.4 | 89.9 | 10.1 |
| Nyaruguru | 85.5 | 14.5 | 84.5 | 15.5 | 87.6 | 12.4 |
| Huye | 92.9 | 7.1 | 89.6 | 10.4 | 89.7 | 10.3 |
| Nyamagabe | 87.6 | 12.4 | 84.7 | 15.3 | 86.3 | 13.7 |
| Ruhango | 86.0 | 14.0 | 81.6 | 18.4 | 79.9 | 20.1 |
| Muhanga | 100.0 | - | 100.0 | - | 100.0 | - |
| Kamonyi | 69.6 | 30.4 | 61.3 | 38.7 | 56.8 | 43.2 |
| Karongi | 81.5 | 18.5 | 84.6 | 15.4 | 83.2 | 16.8 |
| Rutsiro | 92.2 | 7.8 | 87.1 | 12.9 | 93.7 | 6.3 |
| Rubavu | 76.7 | 23.3 | 75.9 | 24.1 | 71.8 | 28.2 |
| Nyabihu | 90.2 | 9.8 | 88.4 | 11.6 | 92.4 | 7.6 |
| Ngororero | 100.0 | - | 100.0 | - | 100.0 | - |
| Rusizi | 93.9 | 6.1 | 92.0 | 8.0 | 92.9 | 7.1 |
| Nyamasheke | 50.0 | 50.0 | 33.3 | 66.7 | 41.9 | 58.1 |
| Rulindo | 46.9 | 53.1 | 40.0 | 60.0 | 68.8 | 31.2 |
| Gakenke | 86.1 | 14.0 | 82.9 | 17.1 | 86.9 | 13.1 |
| Musanze | 87.0 | 13.0 | 85.3 | 14.7 | 96.0 | 4.0 |
| Burera | 98.1 | 1.9 | 97.8 | 2.2 | 99.8 | 0.2 |
| Gicumbi | 90.2 | 9.8 | 89.5 | 10.5 | 85.6 | 14.4 |
| Rwamagana | 66.7 | 33.3 | 66.7 | 33.3 | 63.5 | 36.5 |
| Nyagatare | 60.0 | 40.0 | 58.3 | 41.7 | 43.3 | 56.7 |
| Gatsibo | 62.7 | 37.3 | 61.5 | 38.5 | 49.7 | 50.3 |
| Kayonza | 54.6 | 45.5 | 28.6 | 71.4 | 48.5 | 51.5 |
| Kirehe | 85.7 | 14.3 | 78.6 | 21.4 | 88.7 | 11.3 |
| Bugesera | 99.1 | 0.9 | 98.8 | 1.2 | 98.3 | 1.7 |
| National | 87.4 | 12.6 | 85.4 | 14.6 | 87.8 | 12.2 |

Source: NISR, SAS 2019

Table 31: Percentage of plots by type of seed per season and crop type in 2019

| Crop type | Traditional seeds | | | Improved seeds | | |
|-----------------|-------------------|-------------|-------------|----------------|------------|-------------|
| | Season A | Season B | Season C | Season A | Season B | Season C |
| Fruits | 92.1 | 68.1 | - | 48.5 | 31.9 | - |
| Vegetables | 87.7 | 57.7 | 51.2 | 52.6 | 42.3 | 48.8 |
| Other crops | 91.5 | 74.0 | - | 23.6 | 26.1 | - |
| Other tubers | | 33.3 | - | | 66.7 | - |
| Fodder crops | 90.4 | 88.2 | - | 16.6 | 11.8 | - |
| Other cereals | 84.5 | 99.0 | - | 1.5 | 1.0 | - |
| Maize | 89.0 | 75.5 | - | 34.9 | 24.5 | - |
| Paddy rice | 91.8 | 65.6 | - | 40.9 | 34.4 | - |
| Sorghum | 93.6 | 100.0 | - | - | - | - |
| Wheat | 95.5 | 87.1 | - | 30.2 | 12.9 | - |
| Bush bean | 94.9 | 99.0 | 99.3 | 1.0 | 1.0 | 0.7 |
| Climbing bean | 91.0 | 99.7 | 100.0 | 0.3 | 0.4 | - |
| Pea | 88.9 | 100.0 | 100.0 | - | - | - |
| Irish potato | 88.8 | 98.2 | 94.5 | 1.9 | 1.8 | 5.5 |
| Sweet potato | 75.0 | 99.7 | 99.7 | 0.4 | 0.3 | 0.4 |
| Soybean | 85.7 | 96.1 | 99.1 | 4.3 | 3.9 | 0.9 |
| Groundnut | 87.5 | 99.9 | - | 0.3 | 0.1 | - |
| Small red bean | 87.9 | 100.0 | - | - | - | - |
| Taro | 93.6 | 100.0 | - | - | - | - |
| Yams | 85.3 | 100.0 | - | - | - | - |
| Cassava | 84.3 | 99.2 | - | 1.5 | 0.8 | - |
| Cooking banana | 83.4 | 99.6 | - | 2.0 | 0.5 | - |
| Dessert banana | 88.8 | 96.9 | - | 2.6 | 3.2 | - |
| Banana for beer | 91.1 | 99.6 | - | 0.9 | 0.4 | - |
| National | 86.8 | 94.0 | 87.4 | 11.0 | 6.0 | 12.6 |

Source: NISR, SAS 2019

Table 32: Percentage of seeds by source of improved seeds per district in 2019

| District | Government | | | Recognized seed multipliers | | | Agro dealers | | | NGOs | | | Market | | | Agriculture cooperatives | | | 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 |
| Nyarugenge | 40.4 | 43.2 | - | 1.8 | 6.8 | 50.0 | 33.3 | 31.8 | - | 1.8 | 4.6 | - | 21.1 | 9.1 | 50.0 | 1.8 | 2.3 | - | - | 2.3 | - |
| Gasabo | 10.9 | 35.9 | - | 22.5 | 15.1 | - | 25.2 | 28.3 | - | 7.5 | 1.9 | - | 28.6 | 13.2 | 100.0 | 2.0 | 5.7 | - | 3.4 | - | - |
| Kicukiro | 12.1 | 14.3 | - | 22.4 | - | - | 36.2 | 57.1 | - | 1.7 | - | - | 25.9 | 28.6 | - | - | - | - | 1.7 | - | - |
| Nyanza | 13.6 | 13.3 | - | 6.2 | 9.3 | 8.3 | 24.7 | 38.7 | 33.3 | 45.7 | 29.3 | - | 7.4 | 2.7 | 58.3 | 1.2 | 5.3 | - | 1.2 | 1.3 | - |
| Gisagara | 10.9 | 23.5 | - | 12.0 | 21.6 | - | 22.9 | 15.7 | 71.4 | 46.9 | 29.4 | - | 1.6 | 7.8 | 28.6 | 5.2 | 2.0 | - | 0.5 | - | - |
| Nyaruguru | 10.3 | 44.2 | - | 1.5 | 14.0 | 8.3 | 2.9 | 11.6 | - | 80.9 | 25.6 | - | 1.5 | 2.3 | 91.7 | 1.5 | 2.3 | - | 1.5 | - | - |
| Huye | 9.6 | 22.2 | - | 28.8 | 25.9 | 20.0 | 30.1 | 14.8 | 40.0 | 21.9 | 16.7 | - | 4.1 | 5.6 | 40.0 | 5.5 | 14.8 | - | - | - | - |
| Nyamagabe | 4.8 | 23.9 | 8.3 | 11.3 | 10.9 | 16.7 | 21.0 | 15.2 | 41.7 | 45.2 | 26.1 | - | 17.7 | 17.4 | 33.3 | - | 6.5 | - | - | - | - |
| Ruhango | 11.8 | 34.5 | - | 14.7 | 19.0 | 14.3 | 70.6 | 36.2 | 14.3 | - | 3.5 | - | 2.9 | - | 71.4 | - | 6.9 | - | - | - | - |
| Muhanga | 43.1 | 55.6 | - | 12.1 | 5.6 | - | 27.6 | 22.2 | - | - | 5.6 | - | 10.3 | 11.1 | - | 5.2 | - | - | 1.7 | - | - |
| Kamonyi | 17.6 | 38.9 | - | 14.9 | - | 11.8 | 54.1 | 38.9 | 58.8 | 8.1 | - | - | 5.4 | 16.7 | 29.4 | - | 5.6 | - | - | - | - |
| Karongi | 7.6 | 7.9 | - | 3.3 | 15.8 | 20.0 | 22.8 | 34.2 | 80.0 | 64.1 | 26.3 | - | 1.1 | 15.8 | - | - | - | - | 1.1 | - | - |
| Rutsiro | 1.0 | 24.5 | - | 4.0 | 24.5 | - | 38.6 | 28.3 | 12.5 | 41.6 | 13.2 | - | 13.9 | 7.6 | 87.5 | - | 1.9 | - | 1.0 | - | - |
| Rubavu | 6.0 | 12.6 | - | 8.3 | 10.5 | 42.9 | 63.1 | 43.2 | 28.6 | 0.6 | - | 14.3 | 22.0 | 33.7 | 14.3 | - | - | - | - | - | - |
| Nyabihu | 3.4 | 4.5 | - | 4.3 | 4.5 | 12.5 | 80.3 | 80.9 | 50.0 | 2.6 | - | - | 8.6 | 10.1 | 37.5 | 0.9 | - | - | - | - | - |
| Ngororero | 6.7 | 10.9 | - | 5.7 | 6.5 | - | 58.1 | 50.0 | - | 26.7 | 30.4 | - | 1.9 | - | - | 1.0 | 2.2 | - | - | - | - |
| Rusizi | 9.3 | 24.3 | - | 7.6 | 8.1 | - | 4.2 | 21.6 | 50.0 | 76.3 | 27.0 | - | 1.7 | 10.8 | 50.0 | 0.9 | 8.1 | - | 385.0 | - | - |
| Nyamasheke | 21.2 | 64 | - | 26.9 | 4.0 | - | 40.4 | 4.0 | 50.0 | 7.7 | 4.0 | - | 3.9 | 8.0 | 50.0 | - | 16.0 | - | - | - | - |
| Rulindo | 19.6 | 20 | - | 2.7 | 13.3 | - | 65.2 | 42.2 | 82.4 | 0.5 | 11.1 | - | 4.4 | 11.1 | 11.8 | 6.0 | 2.2 | 5.9 | 1.6 | - | - |
| Gakenke | 0.6 | 40 | - | 12.3 | 3.3 | - | 58.5 | 40.0 | 50.0 | 8.2 | - | - | 7.6 | 10.0 | 50.0 | 12.9 | 6.7 | - | - | - | - |
| Musanze | 9.8 | 12.5 | 6.3 | 8.4 | - | 31.3 | 72.7 | 67.5 | 43.8 | - | - | - | 9.1 | 20.0 | 12.5 | - | - | 6.3 | - | - | - |
| Burera | 6.4 | - | - | 4.8 | 9.5 | - | 81.6 | 61.9 | 50.0 | - | - | - | 7.2 | 28.6 | - | - | - | - | - | - | 50.0 |
| Gicumbi | 8.9 | 18.2 | - | 5.0 | 21.2 | 66.7 | 75.3 | 27.3 | 33.3 | - | - | - | 10.9 | 27.3 | - | - | 6.1 | - | - | - | - |
| Rwamagana | 15.8 | 28.4 | - | 9.8 | 12.8 | - | 38.0 | 26.5 | 70.0 | 10.9 | 11.8 | - | 15.8 | 18.6 | 30.0 | 8.7 | 1.0 | - | 1.1 | 1.0 | - |
| Nyagatare | 14.0 | 18.2 | 16.7 | 5.1 | 9.4 | - | 45.9 | 37.1 | 33.3 | 11.5 | 22.9 | - | 14.7 | 7.7 | 16.7 | 8.3 | 4.7 | - | 0.6 | - | 33.3 |
| Gatsibo | 10.4 | 10.9 | - | 13.6 | 17.2 | 4.6 | 24.0 | 34.4 | 31.8 | 49.8 | 32.0 | - | 1.4 | 1.6 | 54.6 | 0.9 | 3.9 | - | - | - | 9.1 |
| Kayonza | 11.4 | 17.9 | - | 24.7 | 22.4 | - | 10.8 | 27.6 | 20.0 | 5.7 | 20.9 | - | 37.3 | 9.0 | 80.0 | 10.1 | 1.5 | - | - | 0.8 | - |
| Kirehe | 17.0 | 50 | - | 15.0 | 21.9 | - | 28.0 | 9.4 | - | 2.0 | 3.1 | - | 12.0 | 6.3 | 100.0 | 26.0 | 9.4 | - | - | - | - |
| Ngoma | 29.6 | 11.8 | - | 11.2 | 17.7 | - | 30.9 | 17.7 | - | 11.8 | 49.0 | - | 13.8 | 2.0 | - | 2.0 | 2.0 | - | 0.7 | - | - |
| Bugesera | 26.7 | 16.3 | - | 24.2 | 30.6 | - | 23.3 | 38.1 | - | 8.1 | 3.1 | - | 13.6 | 6.3 | 100.0 | 4.2 | 3.8 | - | - | 1.9 | - |
| National | 13.2 | 21.3 | 1.4 | 11.6 | 14.7 | 11.5 | 40.4 | 34.6 | 42.6 | 19.0 | 15.0 | 0.5 | 11.3 | 10.3 | 40.7 | 4.0 | 3.7 | 1.0 | 0.5 | 0.4 | 2.4 |

NISR, SAS, 2019

Table 33: Source of improved seeds by season per crop type in 2019 (in percentage)

| Crop | Government | | | Recognized seed multipliers | | | Agro-dealers | | | NGOs | | | Market | | | Agriculture cooperatives | | | 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 | 22.6 | 16.2 | - | 46.1 | 61.8 | | 7.8 | 11.8 | | 6.1 | - | - | 15.7 | 8.8 | | 1.7 | 1.5 | | - | - | |
| Vegetables | 2.0 | 2.5 | 1.1 | 6.7 | 6.6 | 4.9 | 35.9 | 45.9 | 45.1 | 4.1 | 10.7 | - | 48.7 | 31.8 | 45.7 | 0.8 | 1.3 | 0.5 | 1.8 | 1.3 | 2.7 |
| Other crops | 34.8 | 87.9 | - | 30.4 | 5.0 | - | 4.4 | - | - | 13.0 | 0.5 | - | 6.5 | 0.5 | - | 6.5 | 6.0 | - | 4.4 | - | - |
| Fodder crops | 52.2 | 50.0 | - | 13.0 | - | - | 13.0 | - | - | 13.0 | - | - | 2.2 | - | - | 4.4 | - | - | 2.2 | 50.0 | - |
| Other cereals | - | - | - | - | - | - | - | - | - | - | - | - | 100.0 | - | - | - | - | - | - | 100.0 | - |
| Maize | 11.3 | 12.1 | - | 6.8 | 7.2 | - | 48.3 | 46.5 | - | 24.3 | 24.4 | - | 5.3 | 7.9 | - | 3.9 | 2.0 | - | 0.2 | - | - |
| Paddy rice | 4.1 | 1.2 | - | 60.8 | 69.9 | - | - | 4.8 | - | 1.0 | 1.2 | - | - | - | - | 34.0 | 22.9 | - | - | - | - |
| Sorghum | - | 100.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Wheat | 10.5 | 12.0 | - | 10.5 | 16.0 | - | 79.0 | 64.0 | - | - | - | - | - | - | - | - | - | 8.0 | - | - | - |
| Bush bean | 17.5 | 20.0 | - | 7.0 | 16.0 | 100.0 | 21.1 | 26.0 | - | 49.1 | 32.0 | - | 3.5 | 4.0 | - | - | 2.0 | - | 1.8 | - | - |
| Climbing bean | 16.7 | 22.2 | - | - | 11.1 | - | 33.3 | 22.2 | - | 33.3 | 22.2 | - | 16.7 | 11.1 | - | - | 11.1 | - | - | - | - |
| Irish potato | 16.7 | 34.4 | 4.8 | 66.7 | 59.4 | 57.1 | 2.8 | 6.3 | 28.6 | 2.8 | - | 4.8 | 2.8 | - | - | 5.6 | - | 4.8 | 2.8 | - | - |
| Sweet potato | 66.7 | 40.0 | - | 11.1 | 60.0 | 100.0 | - | - | - | 11.1 | - | - | 11.1 | - | - | - | - | - | - | - | - |
| Soybean | 59.0 | 25.0 | - | 12.8 | - | - | 18.0 | 50.0 | - | 5.1 | 5.0 | - | 5.1 | 7.5 | 100.0 | - | 12.5 | - | - | - | - |
| Groundnut | - | - | - | 50.0 | 100.0 | - | 50.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cassava | 65.4 | 58.8 | - | 19.2 | 35.3 | - | - | - | - | 7.7 | - | - | 3.9 | 5.9 | - | 3.9 | - | - | - | - | - |
| Cooking banana | 65.9 | - | - | 22.0 | 88.9 | - | 2.4 | - | - | 7.3 | 11.1 | - | 2.4 | - | - | - | - | - | - | - | - |
| Dessert banana | 35.7 | 43.2 | - | 57.1 | 37.8 | - | - | 2.7 | - | - | - | - | 3.6 | 8.1 | - | - | 5.4 | - | 385.0 | 2.7 | - |
| Banana for beer | 40.0 | - | - | 60.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| National | 13.2 | 21.3 | 1.4 | 11.6 | 14.7 | 11.5 | 40.4 | 34.6 | 42.6 | 19.0 | 15.0 | 0.5 | 11.3 | 10.3 | 40.7 | 4.0 | 3.7 | 1.0 | 0.5 | 0.4 | 2.4 |

Source: NISR, SAS 2019

Table 34: Season A 2019 Use of organic fertilizer by farmer type per district (in percentage)

| District | Percentage of plots | | | | | | Percentage of farmers | | | | | | Percentage of land size | | | | | |
|-----------------|---------------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-------------|-------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 30.4 | 69.6 | 30.4 | 69.6 | - | - | 30 | 70 | 30 | 70 | - | - | 32.3 | 67.7 | 32.3 | 67.7 | - | - |
| Gasabo | 46.6 | 53.4 | 47.6 | 52.4 | 42.6 | 57.4 | 47.5 | 52.5 | 46.9 | 53.1 | 66.7 | 33.3 | 56.2 | 43.8 | 56.0 | 44.0 | 68.6 | 31.4 |
| Kicukiro | 45.6 | 54.4 | 43.9 | 56.1 | 72.2 | 27.8 | 42.6 | 57.4 | 42 | 58 | 75 | 25 | 57.8 | 42.2 | 57.7 | 42.3 | 84.0 | 16.0 |
| Nyanza | 47.4 | 52.6 | 46.7 | 53.3 | 64.7 | 35.3 | 47.8 | 52.2 | 47.3 | 52.7 | 71.4 | 28.6 | 42.1 | 57.9 | 41.5 | 58.5 | 65.6 | 34.4 |
| Gisagara | 51.9 | 48.1 | 50.7 | 49.3 | 76 | 24 | 51 | 49 | 50.4 | 49.6 | 66.7 | 33.3 | 58.2 | 41.8 | 59.1 | 40.9 | 50.3 | 49.7 |
| Nyaruguru | 76.8 | 23.2 | 76.6 | 23.4 | 100 | 0 | 75.3 | 24.7 | 75.1 | 24.9 | 100 | 0 | 85.5 | 14.5 | 85.5 | 14.5 | 100.0 | - |
| Huye | 58.3 | 41.7 | 58.1 | 41.9 | 61.3 | 38.7 | 58.2 | 41.8 | 57.4 | 42.6 | 73.7 | 26.3 | 59.6 | 40.4 | 59.5 | 40.5 | 61.2 | 38.8 |
| Nyamagabe | 76.3 | 23.7 | 76 | 24 | 100 | 0 | 77.4 | 22.6 | 77.3 | 22.7 | 100 | 0 | 78.3 | 21.7 | 78.3 | 21.7 | 100.0 | - |
| Ruhango | 45 | 55 | 45.4 | 54.6 | 35.3 | 64.7 | 45.6 | 54.4 | 45.7 | 54.3 | 44.4 | 55.6 | 47.4 | 52.6 | 48.3 | 51.7 | 17.5 | 82.5 |
| Muhanga | 68.6 | 31.4 | 67.4 | 32.6 | 100 | 0 | 67.3 | 32.7 | 66.9 | 33.1 | 100 | 0 | 72.0 | 28.0 | 71.7 | 28.3 | 100.0 | - |
| Kamonyi | 58.4 | 41.6 | 59.1 | 40.9 | 45.8 | 54.2 | 59.6 | 40.4 | 59.6 | 40.4 | 57.1 | 42.9 | 60.5 | 39.5 | 60.5 | 39.5 | 57.6 | 42.4 |
| Karongi | 57.8 | 42.2 | 57.5 | 42.5 | 100 | 0 | 59.6 | 40.4 | 59.5 | 40.5 | 100 | 0 | 59.1 | 40.9 | 59.1 | 40.9 | 100.0 | - |
| Rutsiro | 63.9 | 36.1 | 63.9 | 36.1 | - | - | 63.5 | 36.5 | 63.5 | 36.5 | - | - | 72.2 | 27.8 | 72.2 | 27.8 | | |
| Rubavu | 28.2 | 71.8 | 26.6 | 73.4 | 90 | 10 | 25.5 | 74.5 | 25.1 | 74.9 | 100 | 0 | 27.5 | 72.5 | 27.5 | 72.5 | 67.1 | 32.9 |
| Nyabihu | 62.6 | 37.4 | 62.6 | 37.4 | - | - | 60.2 | 39.8 | 60.2 | 39.8 | - | - | 65.1 | 34.9 | 65.1 | 34.9 | - | - |
| Ngororero | 74.7 | 25.3 | 74.7 | 25.3 | - | - | 75.1 | 24.9 | 75.1 | 24.9 | - | - | 75.0 | 25.0 | 75.0 | 25.0 | - | - |
| Rusizi | 56.8 | 43.2 | 57.8 | 42.2 | 10 | 90 | 56.9 | 43.1 | 57.5 | 42.5 | 16.7 | 83.3 | 59.0 | 41.0 | 61.0 | 39.0 | 24.1 | 75.9 |
| Nyamasheke | 63.6 | 36.4 | 63.1 | 36.9 | 100 | 0 | 62.8 | 37.2 | 62.3 | 37.7 | 100 | 0 | 67.2 | 32.8 | 66.7 | 33.3 | 100.0 | - |
| Rulindo | 79.3 | 20.7 | 81.4 | 18.6 | 33.3 | 66.7 | 81.3 | 18.7 | 82 | 18 | 33.3 | 66.7 | 82.5 | 17.5 | 82.8 | 17.2 | 8.2 | 91.8 |
| Gakenke | 85 | 15 | 85 | 15 | - | - | 15.4 | 84.6 | 15.4 | - | - | 89.0 | 11.0 | 89.0 | 11.0 | | | |
| Musanze | 57 | 43 | 57 | 43 | 60 | 40 | 57 | 43 | 57.1 | 42.9 | 0 | 100 | 58.7 | 41.3 | 58.6 | 41.4 | 89.8 | 10.2 |
| Burera | 71.5 | 28.5 | 71.5 | 28.5 | - | - | 72.1 | 27.9 | 72.1 | 27.9 | - | - | 69.4 | 30.6 | 69.4 | 30.6 | - | - |
| Gicumbi | 76.7 | 23.3 | 76.6 | 23.4 | 100 | 0 | 78.6 | 21.4 | 78.5 | 21.5 | 100 | 0 | 81.1 | 18.9 | 81.1 | 18.9 | 100.0 | - |
| Rwamagana | 46.7 | 53.3 | 50.9 | 49.1 | 33.8 | 66.2 | 48.4 | 51.6 | 49.6 | 50.4 | 27.3 | 72.7 | 59.5 | 40.5 | 60.3 | 39.7 | 12.0 | 88.0 |
| Nyagatare | 28.8 | 71.2 | 28.7 | 71.3 | 29.5 | 70.5 | 28.2 | 71.8 | 28.3 | 71.7 | 23.8 | 76.2 | 32.5 | 67.5 | 33.7 | 66.3 | 4.5 | 95.5 |
| Gatsibo | 39.6 | 60.4 | 39.4 | 60.6 | 44.7 | 55.3 | 41.4 | 58.6 | 41.1 | 58.9 | 60 | 40 | 44.1 | 55.9 | 45.1 | 54.9 | 17.8 | 82.2 |
| Kayonza | 25.9 | 74.1 | 27.3 | 72.7 | 17.8 | 82.2 | 26.5 | 73.5 | 26.8 | 73.2 | 13.3 | 86.7 | 31.6 | 68.4 | 32.5 | 67.5 | 2.4 | 97.6 |
| Kirehe | 42.9 | 57.1 | 43.1 | 56.9 | 30.8 | 69.2 | 44.1 | 55.9 | 44.4 | 55.6 | 22.2 | 77.8 | 55.2 | 44.8 | 54.8 | 45.2 | 63.3 | 36.7 |
| Ngoma | 51.6 | 48.4 | 53.2 | 46.8 | 35.1 | 64.9 | 51.5 | 48.5 | 52.8 | 47.2 | 16.7 | 83.3 | 53.0 | 47.0 | 54.0 | 46.0 | 2.2 | 97.8 |
| Bugesera | 26.8 | 73.2 | 23.7 | 76.3 | 33.5 | 66.5 | 22.4 | 77.6 | 23.4 | 76.6 | 11.8 | 88.2 | 26.2 | 73.8 | 27.2 | 72.8 | 7.9 | 92.1 |
| National | 52.8 | 47.2 | 53.6 | 46.4 | 39.6 | 60.4 | 53.3 | 46.7 | 53.5 | 46.5 | 42.7 | 57.3 | 57.2 | 42.8 | 57.8 | 42.2 | 31.8 | 68.2 |

Source: NISR, SAS 2019

Table 35: Season B 2019 Use of organic fertilizer by farmer type per district (in percentage)

| District | Percentage of plots | | | | | | Percentage of farmers | | | | | | Percentage of land size | | | | | |
|-----------------|---------------------|-------------|-------------|-------------|-----------|-----------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-------------|-------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 28.4 | 71.6 | 28.4 | 71.6 | | | 30.7 | 69.3 | 30.7 | 69.3 | - | - | 28.8 | 71.2 | 28.8 | 71.2 | | |
| Gasabo | 38.8 | 61.2 | 38.3 | 61.7 | 43.6 | 56.4 | 41.4 | 58.6 | 40.5 | 59.5 | 70.0 | 30.0 | 46.1 | 53.9 | 46.4 | 53.6 | 33.4 | 66.6 |
| Kicukiro | 29.3 | 70.8 | 29.1 | 70.9 | 50 | 50 | 31.7 | 68.3 | 31.4 | 68.6 | 100.0 | - | 33 | 67 | 32.9 | 67.1 | 59.5 | 40.5 |
| Nyanza | 42 | 58 | 41.5 | 58.5 | 56.3 | 43.8 | 46.2 | 53.8 | 45.7 | 54.3 | 71.4 | 28.6 | 40.2 | 59.8 | 39.6 | 60.4 | 71.4 | 28.6 |
| Gisagara | 29.7 | 70.3 | 29.2 | 70.8 | 44.4 | 55.6 | 30.8 | 69.2 | 30.5 | 69.5 | 40.0 | 60.0 | 32.3 | 67.7 | 32.7 | 67.3 | 27.3 | 72.7 |
| Nyaruguru | 60.3 | 39.7 | 60.2 | 39.8 | 100 | - | 63.6 | 36.4 | 63.5 | 36.5 | 100.0 | - | 67.3 | 32.7 | 67.2 | 32.8 | 100 | - |
| Huye | 40.2 | 59.8 | 40.2 | 59.8 | 40.7 | 59.3 | 43.1 | 56.9 | 43.0 | 57.0 | 44.4 | 55.6 | 42 | 58 | 42 | 58 | 41.7 | 58.3 |
| Nyamagabe | 68.3 | 31.7 | 68.3 | 31.7 | 75 | 25 | 73.1 | 26.9 | 73.0 | 27.0 | 100.0 | - | 72.8 | 27.2 | 72.7 | 27.3 | 97.2 | 2.8 |
| Ruhango | 33.5 | 66.5 | 32.5 | 67.5 | 56.5 | 43.5 | 36.9 | 63.1 | 36.6 | 63.4 | 50.0 | 50.0 | 33.8 | 66.2 | 32.8 | 67.2 | 75.8 | 24.2 |
| Muhanga | 65.7 | 34.3 | 65.6 | 34.4 | 100 | - | 67.5 | 32.5 | 67.3 | 32.7 | 100.0 | - | 69.3 | 30.7 | 69.2 | 30.8 | 100 | - |
| Kamonyi | 59.7 | 40.3 | 59.5 | 40.5 | 75 | 25 | 63.0 | 37.0 | 62.9 | 37.1 | 75.0 | 25.0 | 63.7 | 36.3 | 63.7 | 36.3 | 62.1 | 37.9 |
| Karongi | 53.8 | 46.2 | 53.7 | 46.3 | 100 | - | 57.6 | 42.4 | 57.5 | 42.5 | 100.0 | - | 58.9 | 41.1 | 58.8 | 41.2 | 100 | - |
| Rutsiro | 59.5 | 40.5 | 59.5 | 40.5 | - | - | 64.7 | 35.3 | 64.7 | 35.3 | - | - | 64.8 | 35.2 | 64.8 | 35.2 | - | - |
| Rubavu | 24.9 | 75.1 | 24.7 | 75.3 | 50 | 50 | 25.9 | 74.2 | 25.6 | 74.4 | 100.0 | - | 29.1 | 70.9 | 29.1 | 70.9 | 91.3 | 8.7 |
| Nyabihu | 59.4 | 40.6 | 59.4 | 40.6 | - | - | 60.8 | 39.2 | 60.8 | 39.2 | - | - | 61.4 | 38.6 | 61.4 | 38.6 | - | - |
| Ngororero | 68.5 | 31.5 | 68.5 | 31.5 | - | - | 72.5 | 27.5 | 72.5 | 27.5 | - | - | 70.6 | 29.4 | 70.6 | 29.4 | - | - |
| Rusizi | 45.6 | 54.4 | 45.6 | 54.4 | 45.5 | 54.6 | 47.4 | 52.7 | 47.9 | 52.2 | 16.7 | 83.3 | 43.1 | 56.9 | 45.5 | 54.5 | 1.2 | 98.8 |
| Nyamasheke | 57.9 | 42.1 | 58.2 | 41.9 | 40 | 60 | 63.3 | 36.7 | 63.6 | 36.4 | 40.0 | 60.0 | 57.5 | 42.5 | 58.1 | 41.9 | 20.4 | 79.6 |
| Rulindo | 72.8 | 27.2 | 73.5 | 26.5 | 33.3 | 66.7 | 76.2 | 23.8 | 76.2 | 23.8 | 75.0 | 25.0 | 76.7 | 23.3 | 76.8 | 23.2 | 17.1 | 82.9 |
| Gakenke | 83.1 | 16.9 | 83.1 | 16.9 | - | - | 84.0 | 16.1 | 84.0 | 16.1 | - | - | 84.1 | 15.9 | 84.1 | 15.9 | - | - |
| Musanze | 58 | 42 | 58.5 | 41.5 | - | 100 | 59.4 | 40.6 | 59.5 | 40.5 | - | 100.0 | 60.8 | 39.2 | 60.8 | 39.2 | - | 100 |
| Burera | 60.9 | 39.1 | 60.9 | 39.1 | - | - | 64.0 | 36.0 | 64.0 | 36.0 | - | - | 59.4 | 40.6 | 59.4 | 40.6 | - | - |
| Gicumbi | 63.9 | 36.1 | 64 | 36 | 50 | 50 | 68.2 | 31.8 | 68.1 | 31.9 | 100.0 | - | 68.5 | 31.5 | 68.5 | 31.5 | 86 | 14 |
| Rwamagana | 34.5 | 65.5 | 33.2 | 66.8 | 41.1 | 59 | 39.6 | 60.5 | 37.5 | 62.5 | 76.2 | 23.8 | 40.1 | 59.9 | 40.3 | 59.7 | 23.6 | 76.4 |
| Nyagatare | 24.9 | 75.1 | 24.3 | 75.7 | 34.4 | 65.6 | 25.8 | 74.2 | 25.8 | 74.2 | 26.1 | 73.9 | 24.8 | 75.2 | 25.6 | 74.4 | 1.8 | 98.2 |
| Gatsibo | 30.7 | 69.3 | 31.3 | 68.7 | 19.5 | 80.5 | 35.8 | 64.2 | 36.0 | 64.0 | 28.6 | 71.4 | 34.3 | 65.7 | 35.2 | 64.8 | 5.1 | 94.9 |
| Kayonza | 21.8 | 78.2 | 22 | 78 | 20.5 | 79.5 | 24.2 | 75.8 | 24.3 | 75.8 | 20.0 | 80.0 | 25.4 | 74.6 | 26 | 74 | 3.2 | 96.8 |
| Kirehe | 23.1 | 76.9 | 22.9 | 77.2 | 37.5 | 62.5 | 25.5 | 74.5 | 25.5 | 74.5 | 30.0 | 70.0 | 25.6 | 74.4 | 24.5 | 75.5 | 56.9 | 43.1 |
| Ngoma | 21.1 | 78.9 | 18.5 | 81.5 | 51.6 | 48.4 | 19.5 | 80.6 | 19.8 | 80.3 | 10.0 | 90.0 | 23 | 77 | 23.4 | 76.6 | 0.8 | 99.2 |
| Bugesera | 26 | 74 | 26.9 | 73.1 | 22.9 | 77.1 | 30.2 | 69.8 | 29.8 | 70.2 | 34.3 | 65.7 | 27.7 | 72.3 | 28.5 | 71.5 | 7.3 | 92.7 |
| National | 43.8 | 56.2 | 44.2 | 55.8 | 50 | 50 | 46.9 | 53.1 | 47.0 | 53.0 | 43.1 | 56.9 | 46.5 | 53.5 | 46.9 | 53.1 | 23.5 | 76.5 |

Source: NISR, SAS 2019

Table 36: Season C 2019_Use of organic fertilizer per district

| District | Percentage of plots | | Percentage of farmers | | Percentage of land si | |
|-----------------|---------------------|-------------|-----------------------|-------------|-----------------------|-------------|
| | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 70 | 30 | 70 | 30 | 70.1 | 29.9 |
| Gasabo | 73.9 | 26.1 | 73.9 | 26.1 | 86.2 | 13.8 |
| Nyanza | 68.1 | 31.9 | 69.7 | 30.3 | 80.0 | 20.0 |
| Gisagara | 36.2 | 63.8 | 39.2 | 60.8 | 39.0 | 61.0 |
| Nyaruguru | 94.5 | 5.5 | 94.4 | 5.6 | 94.4 | 5.6 |
| Huye | 69.4 | 30.6 | 68.8 | 31.3 | 62.4 | 37.6 |
| Nyamagabe | 81.6 | 18.4 | 80.6 | 19.4 | 86.0 | 14.0 |
| Ruhango | 66.7 | 33.3 | 71.1 | 28.9 | 67.0 | 33.0 |
| Muhanga | 80 | 20 | 79.4 | 20.6 | 85.4 | 14.6 |
| Kamonyi | 81.3 | 18.8 | 80.6 | 19.4 | 92.4 | 7.6 |
| Karongi | 38.5 | 61.5 | 38.5 | 61.5 | 34.3 | 65.7 |
| Rutsiro | 63 | 37 | 64.5 | 35.5 | 76.4 | 23.6 |
| Rubavu | 33.3 | 66.7 | 31 | 69 | 19.5 | 80.5 |
| Nyabihu | 70.1 | 29.9 | 69.6 | 30.4 | 75.6 | 24.4 |
| Ngororero | 80.9 | 19.1 | 80.9 | 19.1 | 88.7 | 11.3 |
| Rusizi | 80.8 | 19.2 | 80 | 20 | 85.8 | 14.2 |
| Nyamasheke | 100 | 0 | 100 | 0 | 100.0 | 0.0 |
| Rulindo | 100 | 0 | 100 | 0 | 100.0 | 0.0 |
| Gakenke | 97.2 | 2.8 | 97.1 | 2.9 | 98.0 | 2.0 |
| Musanze | 75.2 | 24.8 | 75 | 25 | 83.9 | 16.1 |
| Burera | 71.9 | 28.1 | 70 | 30 | 73.5 | 26.5 |
| Gicumbi | 100 | 0 | 100 | 0 | 100.0 | 0.0 |
| Rwamagana | 59.1 | 40.9 | 57.1 | 42.9 | 73.4 | 26.6 |
| Nyagatare | 0 | 100 | 0 | 100 | 0.0 | 100.0 |
| Gatsibo | 63.6 | 36.4 | 64.1 | 35.9 | 57.8 | 42.2 |
| Kayonza | 85.7 | 14.3 | 85.7 | 14.3 | 91.7 | 8.3 |
| Kirehe | 53.3 | 46.7 | 50 | 50 | 83.2 | 16.8 |
| Bugesera | 4.7 | 95.3 | 3.7 | 96.3 | 4.4 | 95.6 |
| National | 66.7 | 33.3 | 66.9 | 33.1 | 70.6 | 29.4 |

Source: NISR, SAS 2019

Table 37: Season A2019 Use of inorganic fertilizer by farmer type per district

| District | Percentage of plots | | | | | | Percentage of farmers | | | | | | Percentage of land size | | | | | |
|-----------------|---------------------|-----------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-------------|-------------|-------------|------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 6.8 | 93.2 | 6.8 | 93.2 | | | 6.3 | 93.7 | 6.3 | 93.7 | - | - | 7.0 | 93.0 | 7.0 | 93.0 | - | - |
| Gasabo | 10.9 | 89.1 | 10.9 | 89.1 | 10.9 | 89.1 | 11.8 | 88.2 | 11.1 | 88.9 | 33.3 | 66.7 | 14.2 | 85.8 | 13.4 | 86.6 | 61.0 | 39.0 |
| Kicukiro | 19.3 | 80.7 | 16.4 | 83.6 | 66.7 | 33.3 | 19 | 81 | 18.5 | 81.5 | 50 | 50 | 25.1 | 74.9 | 25.0 | 75.0 | 47.5 | 52.5 |
| Nyanza | 18.1 | 81.9 | 16.6 | 83.4 | 58.8 | 41.2 | 18.2 | 81.8 | 16.8 | 83.2 | 85.7 | 14.3 | 17.2 | 82.8 | 15.2 | 84.8 | 98.1 | 1.9 |
| Gisagara | 36.2 | 63.8 | 34.1 | 65.9 | 80 | 20 | 35.8 | 64.2 | 33.6 | 66.4 | 94.4 | 5.6 | 35.3 | 64.7 | 28.0 | 72.0 | 99.9 | 0.1 |
| Nyaruguru | 46.1 | 53.9 | 45.8 | 54.2 | 100 | 0 | 42.7 | 57.3 | 42.2 | 57.8 | 100 | 0 | 53.8 | 46.2 | 53.7 | 46.3 | 100.0 | - |
| Huye | 21.9 | 78.1 | 17.9 | 82.1 | 74.2 | 25.8 | 22.2 | 77.8 | 18.4 | 81.6 | 94.7 | 5.3 | 20.4 | 79.6 | 16.4 | 83.6 | 98.8 | 1.2 |
| Nyamagabe | 35.6 | 64.4 | 34.7 | 65.3 | 100 | 0 | 36.3 | 63.7 | 36.1 | 63.9 | 100 | 0 | 45.1 | 54.9 | 45.0 | 55.0 | 100.0 | - |
| Ruhango | 7.1 | 92.9 | 5.4 | 94.6 | 47.1 | 52.9 | 8.2 | 91.8 | 6.2 | 93.8 | 88.9 | 11.1 | 5.0 | 95.0 | 2.2 | 97.8 | 95.9 | 4.1 |
| Muhanga | 11 | 89 | 7.4 | 92.6 | 100 | 0 | 8 | 92 | 6.9 | 93.1 | 100 | 0 | 7.9 | 92.1 | 6.9 | 93.1 | 100.0 | - |
| Kamonyi | 9.1 | 90.9 | 6.4 | 93.6 | 54.2 | 45.8 | 7.9 | 92.1 | 6.7 | 93.3 | 71.4 | 28.6 | 7.1 | 92.9 | 6.3 | 93.7 | 89.2 | 10.8 |
| Karongi | 32.6 | 67.4 | 32.1 | 67.9 | 100 | 0 | 34 | 66 | 33.8 | 66.2 | 100 | 0 | 31.2 | 68.8 | 31.1 | 68.9 | 100.0 | - |
| Rutsiro | 34.2 | 65.8 | 34.2 | 65.8 | | - | 35.1 | 64.9 | 35.1 | 64.9 | - | - | 32.7 | 67.3 | 32.7 | 67.3 | - | - |
| Rubavu | 44.7 | 55.3 | 44.5 | 55.5 | 50 | 50 | 42 | 58 | 42 | 58 | 50 | 50 | 55.1 | 44.9 | 55.1 | 44.9 | 48.6 | 51.4 |
| Nyabihu | 46 | 54 | 46 | 54 | - | - | 45.4 | 54.6 | 45.4 | 54.6 | - | - | 45.2 | 54.8 | 45.2 | 54.8 | - | - |
| Ngororero | 30.4 | 69.6 | 30.4 | 69.6 | - | - | 30.6 | 69.4 | 30.6 | 69.4 | - | - | 26.8 | 73.2 | 26.8 | 73.2 | - | - |
| Rusizi | 54.1 | 45.9 | 53.5 | 46.5 | 80 | 20 | 53.9 | 46.1 | 53.5 | 46.5 | 83.3 | 16.7 | 51.8 | 48.2 | 49.9 | 50.1 | 87.7 | 12.3 |
| Nyamasheke | 46.4 | 53.6 | 45.7 | 54.3 | 100 | 0 | 47 | 53 | 46.3 | 53.7 | 100 | 0 | 45.4 | 54.6 | 44.6 | 55.4 | 100.0 | - |
| Rulindo | 31.7 | 68.3 | 29.9 | 70.1 | 70.8 | 29.2 | 32.4 | 67.6 | 32.2 | 67.8 | 50 | 50 | 24.3 | 75.7 | 24.1 | 75.9 | 89.7 | 10.3 |
| Gakenke | 46.1 | 53.9 | 46.1 | 53.9 | - | - | 46.9 | 53.1 | 46.9 | 53.1 | - | - | 45.8 | 54.2 | 45.8 | 54.2 | - | - |
| Musanze | 34.9 | 65.1 | 35 | 65 | 20 | 80 | 35.2 | 64.8 | 35.3 | 64.7 | 0 | 100 | 45.3 | 54.7 | 45.4 | 54.6 | 9.2 | 90.8 |
| Burera | 29.5 | 70.5 | 29.5 | 70.5 | - | - | 29.7 | 70.3 | 29.7 | 70.3 | - | - | 23.2 | 76.8 | 23.2 | 76.8 | - | - |
| Gicumbi | 23.8 | 76.2 | 23.7 | 76.3 | 50 | 50 | 23.6 | 76.4 | 23.6 | 76.4 | 0 | 100 | 22.4 | 77.6 | 22.4 | 77.6 | 71.6 | 28.4 |
| Rwamagana | 28.9 | 71.1 | 31.1 | 68.9 | 22.1 | 77.9 | 32.9 | 67.1 | 32.5 | 67.5 | 40.9 | 59.1 | 32.4 | 67.6 | 31.8 | 68.2 | 69.0 | 31.0 |
| Nyagatare | 15.7 | 84.3 | 12.6 | 87.4 | 63.9 | 36.1 | 13.8 | 86.2 | 12.1 | 87.9 | 81 | 19 | 18.8 | 81.2 | 15.5 | 84.5 | 98.8 | 1.2 |
| Gatsibo | 19.3 | 80.7 | 17.9 | 82.1 | 44.7 | 55.3 | 19.5 | 80.5 | 18.3 | 81.7 | 73.3 | 26.7 | 23.4 | 76.6 | 20.6 | 79.4 | 98.5 | 1.5 |
| Kayonza | 10.2 | 89.8 | 7.8 | 92.2 | 24 | 76 | 9.4 | 90.6 | 8.1 | 91.9 | 66.7 | 33.3 | 9.2 | 90.8 | 7.3 | 92.7 | 71.8 | 28.2 |
| Kirehe | 14.7 | 85.3 | 13.3 | 86.7 | 100 | 0 | 14.8 | 85.2 | 13.8 | 86.2 | 100 | 0 | 19.5 | 80.5 | 16.0 | 84.0 | 100.0 | - |
| Ngoma | 31.6 | 68.4 | 31.5 | 68.5 | 32.4 | 67.6 | 34.1 | 65.9 | 32.3 | 67.7 | 83.3 | 16.7 | 36.5 | 63.5 | 35.3 | 64.7 | 95.4 | 4.6 |
| Bugesera | 18.8 | 81.2 | 13.4 | 86.6 | 30.4 | 69.6 | 17.7 | 82.3 | 14.4 | 85.6 | 52.9 | 47.1 | 13.7 | 86.3 | 11.1 | 88.9 | 63.3 | 36.7 |
| National | 26 | 74 | 25.1 | 74.9 | 39.4 | 60.6 | 26.1 | 73.9 | 25.3 | 74.7 | 71.4 | 28.6 | 26.3 | 73.7 | 24.8 | 75.2 | 90.6 | 9.4 |

Source: NISR, SAS 2019

Table 38: Season B2019 Use of inorganic fertilizer by farmer type per district (in percentage)

| District | Percentage of plots | | | | | | Percentage of farmers | | | | | | Percentage of land size | | | | | |
|-----------------|---------------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-------------|-------------|-------------|------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 6.9 | 93.1 | 6.9 | 93.1 | | | 7.4 | 92.6 | 7.4 | 92.6 | | | 6.3 | 93.7 | 6.3 | 93.7 | | |
| Gasabo | 11 | 89.1 | 9.2 | 90.8 | 28.2 | 71.8 | 12.2 | 87.8 | 10.4 | 89.6 | 70.0 | 30.0 | 10.9 | 89.1 | 9.6 | 90.4 | 71.1 | 28.9 |
| Kicukiro | 13.6 | 86.4 | 13.7 | 86.3 | - | 100 | 14.8 | 85.2 | 14.9 | 85.1 | - | 100.0 | 13.5 | 86.5 | 13.6 | 86.4 | - | 100 |
| Nyanza | 14.8 | 85.2 | 13.6 | 86.5 | 50 | 50 | 17.8 | 82.2 | 16.3 | 83.8 | 100.0 | - | 13.9 | 86.1 | 12.3 | 87.7 | 98.1 | 1.9 |
| Gisagara | 19.1 | 80.9 | 16 | 84 | 100 | - | 19.5 | 80.5 | 16.7 | 83.3 | 100.0 | - | 19.2 | 80.8 | 12.1 | 87.9 | 100 | - |
| Nyaruguru | 38.9 | 61.1 | 38.8 | 61.3 | 100 | - | 41.0 | 59.0 | 40.8 | 59.2 | 100.0 | - | 49 | 51 | 48.9 | 51.1 | 100 | - |
| Huye | 17.9 | 82.1 | 15 | 85 | 66.7 | 33.3 | 20.3 | 79.7 | 16.7 | 83.3 | 100.0 | - | 18.7 | 81.3 | 15.2 | 84.8 | 98.6 | 1.4 |
| Nyamagabe | 35.1 | 64.9 | 34.7 | 65.3 | 75 | 25 | 38.5 | 61.5 | 38.3 | 61.7 | 100.0 | - | 39.2 | 60.8 | 39.2 | 60.8 | 97.2 | 2.8 |
| Ruhango | 10.2 | 89.8 | 8.9 | 91.1 | 39.1 | 60.9 | 11.5 | 88.5 | 9.7 | 90.3 | 90.0 | 10.0 | 6.7 | 93.3 | 4.4 | 95.6 | 98.7 | 1.3 |
| Muhanga | 6.6 | 93.4 | 6.2 | 93.8 | 100 | - | 7.4 | 92.6 | 6.9 | 93.1 | 100.0 | - | 6.7 | 93.3 | 6.3 | 93.7 | 100 | - |
| Kamonyi | 7.3 | 92.7 | 6.4 | 93.6 | 100 | - | 8.0 | 92.0 | 7.1 | 93.0 | 100.0 | - | 6.4 | 93.6 | 5.9 | 94.1 | 100 | - |
| Karongi | 23.2 | 76.8 | 23 | 77 | 100 | - | 26.8 | 73.3 | 26.5 | 73.5 | 100.0 | - | 26.2 | 73.8 | 26.1 | 73.9 | 100 | - |
| Rutsiro | 32.5 | 67.5 | 32.5 | 67.5 | | | 34.7 | 65.3 | 34.7 | 65.3 | | | 33.2 | 66.8 | 33.2 | 66.8 | | |
| Rubavu | 54.9 | 45.1 | 55.4 | 44.6 | - | 100 | 56.0 | 44.0 | 56.1 | 43.9 | - | 100.0 | 55.6 | 44.4 | 55.6 | 44.4 | - | 100 |
| Nyabihu | 52.6 | 47.4 | 52.6 | 47.4 | | | 53.7 | 46.3 | 53.7 | 46.3 | | | 57 | 43 | 57 | 43 | | |
| Ngororero | 30.2 | 69.8 | 30.2 | 69.8 | | | 33.2 | 66.8 | 33.2 | 66.8 | | | 36.5 | 63.5 | 36.5 | 63.5 | | |
| Rusizi | 32.2 | 67.9 | 31.8 | 68.2 | 45.5 | 54.6 | 33.6 | 66.4 | 32.8 | 67.2 | 83.3 | 16.7 | 31.2 | 68.8 | 27.3 | 72.7 | 98.7 | 1.3 |
| Nyamasheke | 41.6 | 58.4 | 40.9 | 59.1 | 100 | - | 46.8 | 53.2 | 46.0 | 54.0 | 100.0 | - | 38 | 62 | 37 | 63 | 100 | - |
| Rulindo | 22.8 | 77.2 | 21.7 | 78.3 | 88.9 | 11.1 | 24.7 | 75.3 | 24.0 | 76.0 | 100.0 | - | 17.6 | 82.4 | 17.4 | 82.6 | 91.4 | 8.6 |
| Gakenke | 37.5 | 62.6 | 37.5 | 62.6 | | | 40.5 | 59.5 | 40.5 | 59.5 | | | 36.5 | 63.5 | 36.5 | 63.5 | | |
| Musanze | 34.5 | 65.5 | 33.9 | 66.1 | 100 | - | 34.4 | 65.6 | 34.2 | 65.8 | 100.0 | - | 40.5 | 59.5 | 40.5 | 59.5 | 100 | - |
| Burera | 25.1 | 74.9 | 25.1 | 74.9 | | | 26.7 | 73.3 | 26.7 | 73.3 | | | 25.3 | 74.7 | 25.3 | 74.7 | | |
| Gicumbi | 17 | 83 | 16.8 | 83.2 | 50 | 50 | 18.8 | 81.2 | 18.6 | 81.4 | 100.0 | - | 17.8 | 82.2 | 17.8 | 82.2 | 86 | 14 |
| Rwamagana | 23.2 | 76.9 | 22.9 | 77.1 | 24.2 | 75.8 | 25.9 | 74.1 | 23.9 | 76.1 | 61.9 | 38.1 | 27.9 | 72.1 | 27.1 | 72.9 | 75 | 25 |
| Nyagatare | 18.3 | 81.8 | 16 | 84 | 53.1 | 46.9 | 18.9 | 81.1 | 17.5 | 82.5 | 73.9 | 26.1 | 20.9 | 79.1 | 18.6 | 81.4 | 92.6 | 7.4 |
| Gatsibo | 13.3 | 86.7 | 12 | 88 | 41.5 | 58.5 | 15.6 | 84.4 | 14.3 | 85.7 | 78.6 | 21.4 | 21 | 79 | 18.6 | 81.4 | 97.3 | 2.7 |
| Kayonza | 9.3 | 90.7 | 8.2 | 91.8 | 16.4 | 83.6 | 10.6 | 89.5 | 9.1 | 90.9 | 80.0 | 20.0 | 11.7 | 88.3 | 9.7 | 90.3 | 86.4 | 13.6 |
| Kirehe | 11.3 | 88.7 | 10.1 | 89.9 | 75 | 25 | 12.3 | 87.7 | 11.3 | 88.8 | 90.0 | 10.0 | 8.4 | 91.6 | 5.2 | 94.8 | 98.9 | 1.1 |
| Ngoma | 10.9 | 89.1 | 5.5 | 94.5 | 74.2 | 25.8 | 8.8 | 91.2 | 6.3 | 93.7 | 90.0 | 10.0 | 8.3 | 91.7 | 6.5 | 93.5 | 96.3 | 3.7 |
| Bugesera | 12.8 | 87.2 | 8.3 | 91.7 | 28.8 | 71.2 | 14.2 | 85.8 | 9.1 | 90.9 | 65.7 | 34.3 | 10 | 90 | 7.3 | 92.7 | 79.5 | 20.5 |
| National | 21.3 | 78.7 | 20.5 | 79.5 | 39.6 | 60.4 | 23.1 | 76.9 | 22.1 | 77.9 | 81.0 | 19.0 | 21.3 | 78.7 | 19.9 | 80.1 | 93.5 | 6.5 |

Source: NISR, SAS 2019

Table 39: Season C 2019_Use of inorganic fertilizer per district (in percentage)

| District | Percentage of plots | | Percentage of farmers | | Percentage of land size | |
|-----------------|---------------------|-------------|-----------------------|-------------|-------------------------|-------------|
| | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 10 | 90 | 10 | 90 | 23.6 | 76.4 |
| Gasabo | 65.2 | 34.8 | 65.2 | 34.8 | 64.3 | 35.7 |
| Nyanza | 27.5 | 72.5 | 28.8 | 71.2 | 36.5 | 63.5 |
| Gisagara | 20 | 80 | 21.6 | 78.4 | 23.3 | 76.7 |
| Nyaruguru | 15.1 | 84.9 | 15.5 | 84.5 | 10.1 | 89.9 |
| Huye | 32.7 | 67.3 | 33.3 | 66.7 | 24.8 | 75.2 |
| Nyamagabe | 27.6 | 72.4 | 27.8 | 72.2 | 43.4 | 56.6 |
| Ruhango | 33.3 | 66.7 | 34.2 | 65.8 | 41.5 | 58.5 |
| Muhanga | 10 | 90 | 10.3 | 89.7 | 13.1 | 86.9 |
| Kamonyi | 25 | 75 | 22.6 | 77.4 | 37.5 | 62.5 |
| Karongi | 15.4 | 84.6 | 15.4 | 84.6 | 8.4 | 91.6 |
| Rutsiro | 76.7 | 23.3 | 74.2 | 25.8 | 91.5 | 8.5 |
| Rubavu | 76.7 | 23.3 | 75.9 | 24.1 | 65.2 | 34.8 |
| Nyabihu | 79.2 | 20.8 | 79.7 | 20.3 | 81.0 | 19.0 |
| Ngororero | 2.1 | 97.9 | 2.1 | 97.9 | 0.8 | 99.2 |
| Rusizi | 50 | 50 | 52 | 48 | 58.6 | 41.4 |
| Nyamasheke | 100 | 0 | 100 | 0 | 100.0 | - |
| Rulindo | 70 | 30 | 70 | 30 | 89.1 | 10.9 |
| Gakenke | 44.4 | 55.6 | 45.7 | 54.3 | 53.0 | 47.0 |
| Musanze | 66.9 | 33.1 | 66.4 | 33.6 | 83.1 | 16.9 |
| Burera | 54.2 | 45.8 | 51.1 | 48.9 | 45.4 | 54.6 |
| Gicumbi | 90 | 10 | 89.5 | 10.5 | 97.0 | 3.0 |
| Rwamagana | 72.7 | 27.3 | 71.4 | 28.6 | 75.5 | 24.5 |
| Nyagatare | 30.8 | 69.2 | 33.3 | 66.7 | 48.9 | 51.1 |
| Gatsibo | 45.5 | 54.5 | 43.6 | 56.4 | 36.4 | 63.6 |
| Kayonza | 42.9 | 57.1 | 42.9 | 57.1 | 48.6 | 51.4 |
| Kirehe | 13.3 | 86.7 | 14.3 | 85.7 | 4.7 | 95.3 |
| Bugesera | 27.1 | 72.9 | 27.2 | 72.8 | 30.4 | 69.6 |
| National | 42.9 | 57.1 | 42.4 | 57.6 | 56.2 | 43.8 |

Source: NISR, SAS 2019

Table 40: Percentage of plots by type of inorganic fertilizer, per season and district (in percentage)

| District | NPK 17-17-17 | | | NPK 20-10-10 | | | NPK 25-5-5 | | | Urea | | | Liquid urea | | | DAP | | | KCL/MOP | | | 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 | |
| Nyarugenge | 7.4 | 3.3 | - | - | - | - | - | - | - | 66.7 | 66.7 | - | 3.7 | 3.3 | 100.0 | 18.5 | 13.3 | - | - | - | - | - | 3.7 | 13.3 | - |
| Gasabo | 25.9 | 21.1 | 32.1 | - | - | - | - | - | - | 49.4 | 42.1 | 39.3 | 4.9 | - | 3.6 | 17.3 | 31.6 | 25.0 | - | - | - | - | 2.5 | 5.3 | - |
| Kicukiro | 17.6 | 20.7 | - | - | - | - | - | - | - | 35.3 | 37.9 | - | - | - | - | 42.4 | 39.7 | - | - | - | - | 4.7 | 1.7 | - | |
| Nyanza | 15.7 | 23.5 | 6.7 | - | 1.0 | - | 0.7 | - | - | 41.8 | 40.2 | 40.0 | - | - | 13.3 | 41.0 | 31.4 | 36.7 | - | - | - | - | 0.7 | 3.9 | 3.3 |
| Gisagara | 11.7 | 35.6 | 32.1 | - | 1.3 | - | - | - | - | 42.1 | 36.9 | 25.0 | - | - | - | 42.4 | 18.8 | 42.9 | - | - | - | - | 3.8 | 7.4 | - |
| Nyaruguru | 8.4 | 18.4 | 11.8 | 2.0 | 1.1 | - | - | 0.6 | - | 32.7 | 21.8 | 35.3 | - | - | - | 56.9 | 57.5 | 52.9 | - | - | - | - | - | 0.6 | - |
| Huye | 27.8 | 28.0 | 28.6 | - | 0.8 | 9.5 | - | 3.2 | - | 41.7 | 36.8 | 38.1 | - | - | - | 26.4 | 20.8 | 23.8 | - | - | - | - | 4.2 | 10.4 | - |
| Nyamagabe | 17.4 | 19.8 | 34.5 | - | 0.4 | - | - | - | - | 32.2 | 30.8 | 37.9 | - | - | - | 50.4 | 48.5 | 27.6 | - | - | - | - | - | 0.4 | - |
| Ruhango | 29.8 | 34.1 | 8.7 | - | 1.2 | - | 2.1 | - | 4.3 | 31.9 | 48.8 | 56.5 | 2.1 | - | 17.4 | 27.7 | 9.8 | 13.0 | - | - | - | - | 6.4 | 6.1 | - |
| Muhanga | 7.4 | 15.9 | - | - | 11.4 | - | 1.1 | - | - | 35.1 | 38.6 | 14.3 | - | - | - | 24.5 | 27.3 | 85.7 | 1.1 | - | - | - | 30.9 | 6.8 | - |
| Kamonyi | 7.5 | 15.6 | - | - | - | - | - | 11.1 | - | 55.2 | 48.9 | 66.7 | - | - | - | 35.8 | 20.0 | 33.3 | - | - | - | - | 1.5 | 4.4 | - |
| Karongi | 4.6 | 12.3 | 25.0 | 0.5 | 2.8 | - | - | 0.9 | - | 42.2 | 20.8 | 25.0 | 1.4 | - | - | 51.4 | 63.2 | 50.0 | - | - | - | - | - | - | - |
| Rutsiro | 11.2 | 22.6 | 73.5 | 0.8 | 3.0 | - | 0.8 | - | - | 32.8 | 28.6 | 10.3 | - | - | - | 53.1 | 40.2 | 8.8 | - | - | - | - | 1.2 | 5.5 | 7.4 |
| Rubavu | 59.1 | 57.7 | 63.6 | - | - | - | - | - | - | 13.0 | 13.2 | 18.2 | 2.0 | 2.5 | 3.0 | 15.8 | 15.0 | 12.1 | - | - | - | - | 10.1 | 11.6 | 3.0 |
| Nyabihu | 53.1 | 50.2 | 76.4 | - | - | - | - | 0.8 | - | 25.0 | 21.4 | 9.7 | 1.5 | 1.6 | 1.4 | 385.0 | 25.1 | 11.1 | - | - | - | - | 0.8 | 0.8 | 1.4 |
| Ngororero | 15.3 | 26.2 | - | - | 1.4 | - | - | 0.7 | - | 34.2 | 22.8 | - | - | 0.7 | - | 50.5 | 48.3 | 100.0 | - | - | - | - | - | - | - |
| Rusizi | 8.9 | 33.2 | 60.0 | 0.2 | 6.4 | - | - | - | - | 38.0 | 22.5 | 13.3 | - | - | - | 50.9 | 38.0 | 26.7 | - | - | - | - | 1.9 | - | - |
| Nyamasheke | 11.4 | 15.0 | 60.0 | 0.9 | 8.2 | - | - | 1.0 | - | 32.8 | 15.5 | 40.0 | - | - | - | 54.2 | 59.9 | - | - | - | - | - | 0.6 | 0.5 | - |
| Rulindo | 9.4 | 38.5 | 28.6 | 0.3 | - | - | 0.7 | 2.1 | - | 47.7 | 24.5 | 33.3 | 0.3 | - | - | 39.4 | 31.5 | 33.3 | 1.0 | 0.7 | - | - | 1.0 | 2.8 | 4.8 |
| Gakenke | 5.1 | 14.1 | 30.0 | 0.3 | 2.4 | - | - | - | - | 43.3 | 24.1 | 15.0 | - | - | - | 51.4 | 59.4 | 55.0 | - | - | - | - | - | - | - |
| Musanze | 34.6 | 51.3 | 58.3 | - | - | - | - | - | - | 31.9 | 24.1 | 10.0 | 0.4 | - | - | 31.1 | 23.6 | 24.2 | - | - | - | - | 1.9 | 1.0 | 7.5 |
| Burera | 36.3 | 61.5 | 83.1 | - | - | - | - | - | - | 21.5 | 16.7 | 6.8 | - | - | - | 35.0 | 19.9 | 1.7 | - | - | - | - | 7.2 | 1.9 | 8.5 |
| Gicumbi | 29.3 | 44.3 | 74.6 | - | 0.9 | - | - | - | - | 38.3 | 31.1 | 11.1 | - | - | - | 32.3 | 22.6 | 14.3 | - | - | - | - | 0.9 | - | - |
| Rwamagana | 25.4 | 25.1 | 20.6 | 0.7 | 8.0 | - | - | - | - | 37.1 | 26.7 | 35.3 | 0.7 | 1.1 | - | 33.9 | 34.2 | 38.2 | - | - | - | - | 2.1 | 4.8 | 5.9 |
| Nyagatare | 11.8 | 10.0 | 16.7 | - | - | - | - | - | - | 41.1 | 44.7 | 66.7 | - | 0.6 | - | 39.6 | 42.6 | 16.7 | 0.7 | 0.3 | - | - | 6.8 | 1.8 | - |
| Gatsibo | 9.4 | 13.6 | 30.8 | 2.2 | 9.5 | - | - | 0.6 | - | 43.3 | 38.5 | 34.6 | 0.4 | - | 3.8 | 42.6 | 33.1 | 26.9 | 0.4 | - | - | - | 1.8 | 4.7 | 3.8 |
| Kayonza | 19.7 | 28.7 | 33.3 | - | 0.8 | - | 0.8 | - | - | 27.0 | 32.6 | 66.7 | 2.5 | - | - | 33.6 | 30.2 | - | - | 3.1 | - | 16.4 | 4.7 | - | |
| Kirehe | 4.5 | 14.5 | - | 1.9 | 14.5 | - | - | - | - | 26.0 | 29.9 | - | - | 0.9 | 33.3 | 64.9 | 38.5 | 66.7 | 0.6 | 0.9 | - | - | 1.9 | 0.9 | - |
| Ngoma | 4.5 | 16.9 | - | - | 1.7 | - | - | - | - | 42.1 | 44.1 | - | - | 3.4 | - | 52.5 | 18.6 | - | - | - | - | 0.9 | 15.3 | - | |
| Bugesera | 22.9 | 17.0 | 30.8 | - | - | - | - | - | - | 39.1 | 31.0 | 38.5 | 0.5 | - | - | 31.8 | 40.0 | 30.8 | - | - | - | - | 5.7 | 12.0 | - |
| National | 18.2 | 28.5 | 49.2 | 0.4 | 2.5 | 0.3 | 0.1 | 0.4 | 0.1 | 36.2 | 28.7 | 22.3 | 0.4 | 0.5 | 1.8 | 41.4 | 35.6 | 23.1 | 0.1 | 0.2 | - | 3.1 | 3.6 | 3.3 | |

Source: NISR, SAS 2019

Table 41: Use of fertilizer per districts and farmer types (percentages)

| District | SSF | | | | | | | | | | | | LSF | | | | | | | | | | | | Overall | | | | | | | | | | | |
|-----------------|--------------|-------------|-------------|----------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|-------------|----------------|-------------|-------------|------------|------------|-------------|-------------|-------------|------------|--------------|------------|-------------|----------------|-------------|-------------|-------------|-------------|----------|------|--|--|
| | Organic only | | | Inorganic only | | | Both | | | None | | | Organic only | | | Inorganic only | | | Both | | | None | | | Organic only | | | Inorganic only | | | Both | | | None | | |
| | 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 | Season A | Season B | Season C | | | |
| Nyarugenge | 26.5 | 25.4 | 60.0 | 1.2 | 2.9 | - | 5.8 | 3.4 | 10.0 | 66.5 | 68.3 | 29.9 | - | - | - | - | - | - | 26.5 | 25.4 | 60.0 | 1.2 | 2.9 | - | 5.8 | 3.4 | 10.0 | 66.5 | 68.3 | 29.9 | | | | | | |
| Gasabo | 44.3 | 38.1 | 13.0 | 1.8 | 1.3 | 4.3 | 11.7 | 8.3 | 60.9 | 42.2 | 52.3 | 11.1 | 12.8 | 20.3 | 5.2 | 58.1 | 55.8 | 13.0 | 26.2 | 8.5 | 43.8 | 37.7 | 13.0 | 1.8 | 2.5 | 4.3 | 12.4 | 8.4 | 60.9 | 42.0 | 51.4 | 11.1 | | | | |
| Kicukiro | 39.1 | 25.2 | - | 6.3 | 5.8 | - | 18.6 | 7.7 | - | 36.0 | 61.3 | - | 37.0 | 59.5 | 0.4 | - | 47.1 | - | 15.5 | 40.5 | 39.0 | 25.3 | - | 6.3 | 5.8 | - | 18.8 | 7.7 | - | 35.9 | 61.2 | - | | | | |
| Nyanza | 27.4 | 32.9 | 42.4 | 1.1 | 5.6 | 1.5 | 14.1 | 6.7 | 27.3 | 57.4 | 54.8 | 19.9 | 0.9 | 0.4 | 33.4 | 27.2 | 64.7 | 70.9 | 1.1 | 1.5 | 26.8 | 32.3 | 42.4 | 1.9 | 6.0 | 1.5 | 15.3 | 7.9 | 27.3 | 56.0 | 53.8 | 19.9 | | | | |
| Gisagara | 34.0 | 26.2 | 20.6 | 2.9 | 5.6 | 3.1 | 25.1 | 6.5 | 18.6 | 38.0 | 61.6 | 58.7 | 0.1 | - | 49.7 | 72.7 | 50.2 | 27.3 | - | - | 30.5 | 24.1 | 20.6 | 7.7 | 11.0 | 3.1 | 27.7 | 8.2 | 18.6 | 34.1 | 56.7 | 58.7 | | | | |
| Nyaruguru | 31.8 | 21.7 | 78.9 | 0.1 | 3.4 | - | 53.6 | 45.5 | 15.5 | 14.5 | 29.4 | 5.6 | - | - | - | - | 100 | 100 | - | - | 31.8 | 21.7 | 78.9 | 0.1 | 3.4 | - | 53.7 | 45.6 | 15.5 | 14.5 | 29.3 | 5.6 | | | | |
| Huye | 45.3 | 31.7 | 35.4 | 2.3 | 4.9 | - | 14.1 | 10.3 | 33.3 | 38.3 | 53.2 | 37.6 | 0.8 | 1.0 | 38.4 | 57.9 | 60.4 | 40.7 | 0.4 | 0.4 | 43.2 | 30.4 | 35.4 | 4.0 | 7.1 | - | 16.4 | 11.6 | 33.3 | 36.4 | 50.9 | 37.6 | | | | |
| Nyamagabe | 33.5 | 37.6 | 56.9 | 0.3 | 4.0 | 2.8 | 44.7 | 35.2 | 23.6 | 21.4 | 23.3 | 12.2 | - | - | - | 100 | 97.2 | - | 2.8 | 33.5 | 37.5 | 56.9 | 0.3 | 4.0 | 2.8 | 44.8 | 35.3 | 23.6 | 21.4 | 23.2 | 12.2 | | | | | |
| Ruhango | 46.5 | 30.6 | 36.8 | 0.4 | 2.2 | - | 1.8 | 2.2 | 34.2 | 51.3 | 65.0 | 31.4 | 0.1 | 0.5 | 78.4 | 23.4 | 17.5 | 75.3 | 4.1 | 0.9 | 45.1 | 29.9 | 36.8 | 2.7 | 2.7 | - | 2.3 | 4.0 | 34.2 | 49.9 | 63.4 | 31.4 | | | | |
| Muhanga | 64.8 | 63.5 | 69.1 | - | 0.6 | - | 6.9 | 5.7 | 10.3 | 28.3 | 30.1 | 14.6 | - | - | - | - | 100 | 100 | - | - | 64.0 | 63.3 | 69.1 | - | 0.6 | - | 7.9 | 6.0 | 10.3 | 28.0 | 30.0 | 14.6 | | | | |
| Kamonyi | 55.1 | 59.0 | 58.1 | 0.8 | 1.2 | - | 5.5 | 4.7 | 22.6 | 38.7 | 35.1 | 7.6 | 4.6 | - | 36.2 | 37.9 | 53.0 | 62.1 | 6.3 | - | 54.5 | 58.7 | 58.1 | 1.2 | 1.4 | - | 6.0 | 5.0 | 22.6 | 38.3 | 34.9 | 7.6 | | | | |
| Karongi | 31.3 | 36.0 | 34.6 | 3.3 | 3.3 | 11.5 | 27.8 | 22.8 | 3.8 | 37.6 | 37.9 | 61.6 | - | - | - | - | 100.0 | 100.0 | - | - | 31.3 | 35.9 | 34.6 | 3.3 | 3.2 | 11.5 | 27.8 | 23.0 | 3.8 | 37.6 | 37.9 | 61.6 | | | | |
| Rutsiro | 41.0 | 34.7 | 6.5 | 1.5 | 3.1 | 16.1 | 31.2 | 30.1 | 58.1 | 26.2 | 32.1 | 5.8 | - | - | - | - | - | - | - | - | 41.0 | 34.7 | 6.5 | 1.5 | 3.1 | 16.1 | 31.2 | 30.1 | 58.1 | 26.2 | 32.1 | 5.8 | | | | |
| Rubavu | 9.8 | 5.9 | 3.4 | 37.5 | 32.4 | 48.3 | 17.6 | 23.2 | 27.6 | 35.1 | 38.5 | 32.0 | 18.5 | 91.3 | - | - | 48.6 | - | 32.9 | 8.7 | 9.8 | 6.0 | 3.4 | 37.4 | 32.4 | 48.3 | 17.7 | 23.1 | 27.6 | 35.1 | 38.5 | 32.0 | | | | |
| Nyabihu | 29.0 | 17.1 | 13.0 | 9.2 | 12.7 | 21.7 | 36.1 | 44.3 | 56.5 | 25.7 | 25.9 | 5.7 | - | - | - | - | - | - | - | - | 29.0 | 17.1 | 13.0 | 9.2 | 12.7 | 21.7 | 36.1 | 44.3 | 56.5 | 25.7 | 25.9 | 5.7 | | | | |
| Ngororero | 48.7 | 35.5 | 80.9 | 0.5 | 1.4 | 2.1 | 26.2 | 35.1 | - | 24.5 | 28.0 | 10.5 | - | - | - | - | - | - | - | - | 48.7 | 35.5 | 80.9 | 0.5 | 1.4 | 2.1 | 26.2 | 35.1 | - | 24.5 | 28.0 | 10.5 | | | | |
| Rusizi | 21.2 | 26.6 | 40.0 | 10.1 | 8.4 | 12.0 | 39.8 | 18.9 | 40.0 | 29.0 | 46.1 | 4.5 | - | 1.2 | 63.6 | 98.7 | 24.1 | - | 12.3 | 0.0 | 20.1 | 25.2 | 40.0 | 12.9 | 13.4 | 12.0 | 39.0 | 17.9 | 40.0 | 28.1 | 43.6 | 4.5 | | | | |
| Nyamasheke | 23.2 | 25.5 | - | 1.2 | 4.3 | - | 43.4 | 32.7 | 100.0 | 32.2 | 37.5 | - | - | - | 79.6 | 100 | 20.4 | - | - | 22.9 | 25.1 | - | 1.2 | 5.5 | - | 44.3 | 32.5 | 100 | 31.7 | 36.9 | - | | | | | |
| Rulindo | 59.1 | 60.0 | 30.0 | 0.5 | 0.5 | - | 23.7 | 16.9 | 70.0 | 16.8 | 22.7 | - | 0.5 | - | 82.0 | 74.3 | 7.7 | 17.1 | 9.8 | 8.6 | 58.9 | 59.8 | 30.0 | 0.7 | 0.7 | - | 23.6 | 16.9 | 70.0 | 16.7 | 22.6 | - | | | | |
| Gakenke | 43.6 | 48.9 | 54.3 | 0.4 | 1.2 | - | 45.3 | 35.2 | 42.9 | 10.6 | 14.6 | 2.0 | - | - | - | - | - | - | - | 43.6 | 48.9 | 54.3 | 0.4 | 1.2 | - | 45.3 | 35.2 | 42.9 | 10.6 | 14.6 | 2.0 | | | | | |
| Musanze | 22.4 | 24.9 | 11.2 | 9.1 | 4.5 | 1.7 | 36.2 | 35.9 | 63.8 | 32.3 | 34.6 | 13.8 | 80.6 | - | - | 100.0 | 9.2 | - | 10.2 | - | 22.4 | 24.9 | 11.2 | 9.1 | 4.5 | 1.7 | 36.2 | 35.9 | 63.8 | 32.2 | 34.6 | 13.8 | | | | |
| Burera | 48.9 | 41.3 | 24.4 | 2.7 | 7.3 | 5.6 | 20.5 | 18.1 | 45.6 | 27.9 | 33.3 | 21.1 | - | - | - | - | - | - | - | 48.9 | 41.3 | 24.4 | 2.7 | 7.3 | 5.6 | 20.5 | 18.1 | 45.6 | 27.9 | 33.3 | 21.1 | | | | | |
| Gicumbi | 59.8 | 53.7 | 10.5 | 1.1 | 3.0 | - | 21.3 | 14.8 | 89.5 | 17.8 | 28.5 | - | 28.4 | - | - | - | 71.6 | 86.0 | - | 14.0 | 59.8 | 53.7 | 10.5 | 1.1 | 3.0 | - | 21.3 | 14.8 | 89.5 | 17.7 | 28.5 | - | | | | |
| Rwamagana | 34.8 | 24.1 | 4.8 | 6.3 | 10.9 | 19.0 | 25.5 | 16.2 | 52.4 | 33.4 | 48.8 | 18.8 | 8.4 | 13.6 | 65.4 | 65.0 | 3.6 | 10.0 | 22.6 | 11.4 | 34.4 | 23.9 | 4.8 | 7.3 | 11.7 | 19.0 | 25.1 | 16.1 | 52.4 | 33.2 | 48.2 | 18.8 | | | | |
| Nyagatare | 24.9 | 19.4 | - | 6.7 | 12.4 | 33.3 | 8.8 | 6.2 | - | 59.6 | 62.0 | 51.1 | 0.7 | 0.3 | 94.9 | 91.1 | 3.9 | 1.5 | 0.6 | 7.1 | 23.9 | 18.8 | - | 10.2 | 14.9 | 33.3 | 8.6 | 6.0 | - | 57.3 | 60.3 | 51.1 | | | | |
| Gatsibo | 28.4 | 24.2 | 28.2 | 4.0 | 7.7 | 7.7 | 16.6 | 10.9 | 35.9 | 51.0 | 57.1 | 36.4 | 0.6 | - | 81.4 | 92.2 | 17.2 | 5.1 | 0.9 | 2.7 | 27.4 | 23.5 | 28.2 | 6.7 | 10.3 | 7.7 | 16.6 | 10.7 | 35.9 | 49.2 | 55.5 | 36.4 | | | | |
| Kayonza | 28.4 | 20.9 | 42.9 | 3.2 | 4.5 | - | 4.1 | 5.2 | 42.9 | 64.3 | 69.5 | 8.3 | 1.4 | 1.4 | 70.9 | 84.6 | 1.0 | 1.8 | 26.8 | 12.1 | 27.6 | 20.3 | 42.9 | 5.2 | 6.6 | - | 4.0 | 5.1 | 42.9 | 63.3 | 67.9 | 8.3 | | | | |
| Kirehe | 42.4 | 22.5 | 35.7 | 3.6 | 3.3 | - | 12.4 | 2.0 | 14.3 | 41.6 | 72.2 | 16.8 | - | 0.1 | 36.7 | 42.2 | 63.3 | 56.7 | - | 1.0 | 40.7 | 21.8 | 35.7 | 5.0 | 4.6 | - | 14.5 | 3.8 | 14.3 | 39.9 | 69.8 | 16.8 | | | | |
| Ngoma | 27.2 | 19.9 | - | 8.5 | 3.0 | - | 26.7 | 3.6 | - | 37.5 | 73.6 | - | 1.0 | 0.0 | 94.2 | 95.5 | 1.2 | 0.8 | 3.6 | 3.6 | 26.7 | 19.5 | - | 10.2 | 4.8 | - | 26.2 | 3.5 | - | 36.8 | 72.2 | - | | | | |
| Bugesera | 24.4 | 26.3 | - | 8.4 | 5.2 | 23.5 | 2.7 | 2.1 | 3.7 | 64.5 | 66.4 | 69.6 | 3.4 | 4.3 | 58.8 | 76.5 | 4.5 | 3.0 | 33.3 | 16.2 | 23.4 | 25.5 | - | 10.8 | 7.8 | 23.5 | 2.8 | 2.2 | 3.7 | 62.9 | 64.5 | 69.6 | | | | |
| National | 37.2 | 32.4 | 31.9 | 4.2 | 5.4 | 7.0 | 20.6 | 14.5 | 35.0 | 38.1 | 47.7 | 20.2 | 1.4 | 1.7 | 60.2 | 71.7 | 30.4 | 21.8 | 8.0 | 4.8 | 36.4 | 31.8 | 31.9 | 5.4 | 6.7 | 7.0 | 20.8 | 14.7 | 35.0 | 37.4 | 46.9 | 20.2 | | | | |

Source : NISR, SAS 2019

Table 42: Percentage of plots by farmer type and type of fertilizer, per season and district

| District | SSF | | | | | | | | | | | | LSF | | | | | | | | | | | | Overall | | | | | | | | | | | |
|------------|--------------|----------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|----------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|----------|----------|----------------|----------|----------|----------|----------|----------|------|--|--|
| | Organic only | | | Inorganic only | | | Both | | | None | | | Organic only | | | Inorganic only | | | Both | | | None | | | Organic only | | | Inorganic only | | | Both | | | None | | |
| | 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 | Season A | Season B | Season C | | | |
| Nyarugenge | 25.4 | 23.5 | 60.0 | 1.7 | 2.0 | - | 5.1 | 4.9 | 10.0 | 67.9 | 69.6 | 30.0 | - | - | - | - | - | - | - | - | - | 25.4 | 23.5 | 60.0 | 1.7 | 2.0 | - | 5.1 | 4.9 | 10.0 | 67.9 | 69.6 | 30.0 | | | |
| Gasabo | 38.5 | 31.2 | 13.0 | 1.9 | 2.1 | 4.3 | 9.0 | 7.1 | 60.9 | 50.6 | 59.6 | 21.7 | 32.7 | 28.2 | 1.0 | 12.8 | 9.9 | 15.4 | 56.4 | 43.6 | 37.4 | 31.0 | 13.0 | 1.7 | 3.1 | 4.3 | 9.2 | 7.9 | 60.9 | 51.7 | 58.1 | 21.7 | | | | |
| Kicukiro | 33.8 | 20.5 | - | 6.3 | 5.1 | - | 10.1 | 8.6 | - | 49.8 | 65.8 | - | 11.1 | 50.0 | 5.6 | - | 61.1 | - | 22.2 | 50.0 | 32.5 | 20.7 | - | 6.2 | 5.1 | - | 13.1 | 8.5 | - | 48.2 | 65.6 | - | | | | |
| Nyanza | 32.7 | 32.7 | 42.0 | 2.5 | 4.7 | 1.4 | 14.1 | 8.8 | 26.1 | 50.8 | 53.8 | 30.4 | 29.4 | 31.3 | 23.5 | 25.0 | 35.3 | 25.0 | 11.8 | 18.8 | 32.5 | 32.6 | 42.0 | 3.3 | 5.4 | 1.4 | 14.8 | 9.4 | 26.1 | 49.3 | 52.6 | 30.4 | | | | |
| Gisagara | 25.2 | 22.1 | 19.0 | 8.6 | 9.0 | 2.9 | 25.6 | 7.1 | 17.1 | 40.7 | 61.9 | 61.0 | 20.0 | - | 24.0 | 55.6 | 56.0 | 44.4 | - | - | 25.0 | 21.3 | 19.0 | 9.3 | 10.6 | 2.9 | 26.9 | 8.4 | 17.1 | 38.9 | 59.6 | 61.0 | | | | |
| Nyaruguru | 31.2 | 24.9 | 79.5 | 0.3 | 3.5 | - | 45.4 | 35.2 | 15.1 | 23.1 | 36.3 | 5.5 | - | - | - | 100.0 | 100.0 | - | - | 31.0 | 24.9 | 79.5 | 0.3 | 3.5 | - | 45.8 | 35.4 | 15.1 | 22.9 | 36.2 | 5.5 | | | | | |
| Huye | 42.9 | 29.5 | 36.7 | 2.7 | 4.2 | - | 15.1 | 10.7 | 32.7 | 39.2 | 55.6 | 30.6 | 6.5 | 14.8 | 19.4 | 40.7 | 54.8 | 25.9 | 19.4 | 18.5 | 40.3 | 28.6 | 36.7 | 3.9 | 6.3 | - | 18.0 | 11.6 | 32.7 | 37.8 | 53.5 | 30.6 | | | | |
| Nyamagabe | 41.7 | 35.6 | 56.6 | 0.5 | 2.1 | 2.6 | 34.3 | 32.6 | 25.0 | 23.5 | 29.7 | 15.8 | - | - | - | 100.0 | 75.0 | - | 25.0 | 41.1 | 35.3 | 56.6 | 0.5 | 2.0 | 2.6 | 35.2 | 33.0 | 25.0 | 23.2 | 29.6 | 15.8 | | | | | |
| Ruhango | 41.0 | 28.7 | 35.7 | 1.0 | 5.1 | 2.4 | 4.4 | 3.7 | 31.0 | 53.6 | 62.4 | 31.0 | 11.8 | 39.1 | 23.5 | 21.7 | 23.5 | 17.4 | 41.2 | 21.7 | 39.8 | 29.2 | 35.7 | 1.9 | 5.8 | 2.4 | 5.2 | 4.3 | 31.0 | 53.1 | 60.6 | 31.0 | | | | |
| Muhanga | 60.0 | 60.4 | 70.0 | - | 1.0 | - | 7.4 | 5.2 | 10.0 | 32.6 | 33.4 | 20.0 | - | - | - | 100.0 | 100.0 | - | - | 57.6 | 60.1 | 70.0 | - | 1.0 | - | 11.0 | 5.6 | 10.0 | 31.4 | 33.3 | 20.0 | | | | | |
| Kamonyi | 53.4 | 54.5 | 56.3 | 0.7 | 1.4 | - | 5.7 | 5.1 | 25.0 | 40.1 | 39.1 | 18.8 | 16.7 | - | 25.0 | 25.0 | 29.2 | 75.0 | 29.2 | - | 51.4 | 54.0 | 56.3 | 2.1 | 1.6 | - | 7.0 | 5.7 | 25.0 | 39.5 | 38.7 | 18.8 | | | | |
| Karongi | 29.9 | 33.1 | 34.6 | 4.5 | 2.4 | 11.5 | 27.6 | 20.6 | 3.8 | 38.1 | 43.9 | 50.0 | - | - | - | 100.0 | 100.0 | - | - | 29.6 | 33.0 | 34.6 | 4.4 | 2.4 | 11.5 | 28.1 | 20.8 | 3.8 | 37.8 | 43.8 | 50.0 | | | | | |
| Rutsiro | 37.0 | 31.5 | 5.5 | 7.3 | 4.5 | 19.2 | 26.9 | 28.0 | 57.5 | 28.8 | 36.0 | 17.8 | - | - | - | - | - | - | - | - | 37.0 | 31.5 | 5.5 | 7.3 | 4.5 | 19.2 | 26.9 | 28.0 | 57.5 | 28.8 | 36.0 | 17.8 | | | | |
| Rubavu | 12.4 | 8.6 | 3.3 | 30.3 | 39.3 | 46.7 | 14.2 | 16.1 | 30.0 | 43.0 | 36.0 | 20.0 | 40.0 | 50.0 | - | - | 50.0 | - | 10.0 | 50.0 | 13.1 | 9.0 | 3.3 | 29.6 | 38.9 | 46.7 | 15.0 | 16.0 | 30.0 | 42.2 | 36.2 | 20.0 | | | | |
| Nyabihu | 29.1 | 21.5 | 13.0 | 12.6 | 14.7 | 22.1 | 33.5 | 38.0 | 57.1 | 24.9 | 25.9 | 7.8 | - | - | - | - | - | - | - | - | 29.1 | 21.5 | 13.0 | 12.6 | 14.7 | 22.1 | 33.5 | 38.0 | 57.1 | 24.9 | 25.9 | 7.8 | | | | |
| Ngororero | 45.6 | 39.4 | 80.9 | 1.3 | 1.1 | 2.1 | 29.1 | 29.1 | - | 23.9 | 30.5 | 17.0 | - | - | - | - | - | - | - | - | 45.6 | 39.4 | 80.9 | 1.3 | 1.1 | 2.1 | 29.1 | 29.1 | - | 23.9 | 30.5 | 17.0 | | | | |
| Rusizi | 18.1 | 24.5 | 42.3 | 13.9 | 10.7 | 11.5 | 39.7 | 21.1 | 38.5 | 28.4 | 43.7 | 7.7 | - | 45.5 | 70.0 | 45.5 | 10.0 | - | 20.0 | 9.1 | 17.7 | 25.1 | 42.3 | 15.0 | 11.6 | 11.5 | 39.0 | 20.6 | 38.5 | 28.2 | 42.8 | 7.7 | | | | |
| Nyamasheke | 22.2 | 22.9 | - | 4.8 | 5.6 | - | 40.9 | 35.3 | 100 | 32.1 | 36.3 | - | - | - | - | 60.0 | 100.0 | 40.0 | - | - | 21.9 | 22.6 | - | 4.8 | 6.3 | - | 41.6 | 35.3 | 100.0 | 31.7 | 35.8 | - | | | | |
| Rulindo | 52.1 | 52.6 | 30.0 | 0.6 | 0.8 | - | 29.4 | 20.9 | 70.0 | 18.0 | 25.7 | - | 8.3 | - | 45.8 | 55.6 | 25.0 | 33.3 | 20.8 | 11.1 | 50.2 | 51.7 | 30.0 | 2.5 | 1.7 | - | 29.2 | 21.1 | 70.0 | 18.1 | 25.5 | - | | | | |
| Gakenke | 39.3 | 46.7 | 52.8 | 0.4 | 1.0 | - | 45.7 | 36.5 | 44.4 | 14.7 | 15.9 | 2.8 | - | - | - | - | - | - | - | - | 39.3 | 46.7 | 52.8 | 0.4 | 1.0 | - | 45.7 | 36.5 | 44.4 | 14.7 | 15.9 | 2.8 | | | | |
| Musanze | 27.2 | 29.5 | 10.7 | 5.3 | 4.9 | 2.5 | 29.8 | 29.0 | 64.5 | 37.7 | 36.6 | 22.3 | 40.0 | - | - | 100 | 20.0 | - | 40.0 | - | 27.4 | 29.2 | 10.7 | 5.2 | 5.8 | 2.5 | 29.7 | 28.8 | 64.5 | 37.8 | 36.3 | 22.3 | | | | |
| Burera | 44.5 | 40.6 | 22.9 | 2.5 | 4.8 | 5.2 | 27.0 | 20.3 | 49.0 | 26.0 | 34.3 | 22.9 | - | - | - | - | - | - | - | - | 44.5 | 40.6 | 22.9 | 2.5 | 4.8 | 5.2 | 27.0 | 20.3 | 49.0 | 26.0 | 34.3 | 22.9 | | | | |
| Gicumbi | 54.8 | 49.1 | 10.0 | 1.9 | 2.0 | - | 21.8 | 14.9 | 90.0 | 21.5 | 34.1 | - | 50.0 | - | - | - | 50.0 | 50.0 | - | 50.0 | 54.8 | 48.9 | 10.0 | 1.9 | 2.0 | - | 22.0 | 15.0 | 90.0 | 21.4 | 34.1 | - | | | | |
| Rwamagana | 31.7 | 20.5 | 4.5 | 11.9 | 10.3 | 18.2 | 19.2 | 12.7 | 54.5 | 37.2 | 56.6 | 22.7 | 21.4 | 25.3 | 9.7 | 8.4 | 12.4 | 15.8 | 56.6 | 50.5 | 29.2 | 21.3 | 4.5 | 11.4 | 9.9 | 18.2 | 17.5 | 13.2 | 54.5 | 41.9 | 55.5 | 22.7 | | | | |
| Nyagatare | 23.2 | 19.8 | - | 7.0 | 11.5 | 30.8 | 5.5 | 4.5 | - | 64.2 | 64.2 | 69.2 | 19.7 | 14.1 | 54.1 | 32.8 | 9.8 | 20.3 | 16.4 | 32.8 | 22.9 | 19.5 | - | 9.9 | 12.8 | 30.8 | 5.8 | 5.4 | - | 61.3 | 62.3 | 69.2 | | | | |
| Gatsibo | 24.8 | 23.9 | 27.3 | 3.4 | 4.6 | 9.1 | 14.6 | 7.4 | 36.4 | 57.3 | 64.2 | 27.3 | 21.3 | - | 21.3 | 22.0 | 23.4 | 19.5 | 34.0 | 58.5 | 24.6 | 22.8 | 27.3 | 4.3 | 5.4 | 9.1 | 15.0 | 8.0 | 36.4 | 56.1 | 63.9 | 27.3 | | | | |
| Kayonza | 24.0 | 17.5 | 42.9 | 4.4 | 3.7 | - | 3.3 | 4.5 | 42.9 | 68.2 | 74.2 | 14.3 | 12.4 | 19.7 | 18.6 | 15.6 | 5.4 | 0.8 | 63.6 | 63.9 | 22.2 | 17.8 | 42.9 | 6.6 | 5.3 | - | 3.6 | 4.0 | 42.9 | 67.5 | 72.9 | 14.3 | | | | |
| Kirehe | 33.0 | 19.4 | 40.0 | 3.2 | 6.6 | - | 10.0 | 3.5 | 13.3 | 53.7 | 70.5 | 46.7 | - | 6.3 | 69.2 | 43.8 | 30.8 | 31.3 | - | 18.8 | 32.5 | 19.1 | 40.0 | 4.3 | 7.3 | - | 10.4 | 4.0 | 13.3 | 52.9 | 69.6 | 46.7 | | | | |
| Ngoma | 28.8 | 15.7 | - | 7.1 | 2.8 | - | 24.3 | 2.8 | - | 39.7 | 78.8 | - | 32.4 | 3.2 | 29.7 | 25.8 | 2.7 | 48.4 | 35.1 | 22.6 | 29.2 | 14.7 | - | 9.2 | 4.6 | - | 22.4 | 6.3 | - | 39.3 | 74.4 | - | | | | |
| Bugesera | 21.0 | 24.3 | - | 10.7 | 5.7 | 22.4 | 2.7 | 2.6 | 4.7 | 65.6 | 67.4 | 72.9 | 23.0 | 14.4 | 19.9 | 20.3 | 10.5 | 8.5 | 46.6 | 56.8 | 21.6 | 22.1 | - | 13.6 | 8.9 | 22.4 | 5.2 | 3.9 | 4.7 | 59.6 | 65.1 | 72.9 | | | | |
| National | 33.7 | 29.7 | 31.1 | 5.2 | 5.9 | 7.3 | 19.9 | 14.5 | 35.6 | 41.2 | 49.9 | 26.0 | 19.8 | 17.1 | 19.6 | 22.6 | 19.8 | 17.0 | 40.8 | 43.2 | 32.9 | 29.1 | 31.1 | 6.0 | 6.6 | 7.3 | 19.9 | 14.6 | 35.6 | 41.1 | 49.6 | 26.0 | | | | |

Source : NISR, SAS 2019

Table 43: Percentage of Farmers by farmer type and type of fertilizer, per season and district

| District | SSF | | | | | | | | | | | | LSF | | | | | | | | | | | | Overall | | | | | | | | | | | |
|-----------------|--------------|-------------|-------------|----------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|--------------|------------|-------------|----------------|-------------|-------------|-------------|-------------|----------|------|--|--|
| | Organic only | | | Inorganic only | | | Both | | | None | | | Organic only | | | Inorganic only | | | Both | | | None | | | Organic only | | | Inorganic only | | | Both | | | None | | |
| | 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 | Season A | Season B | Season C | | | |
| Nyarugenge | 25.2 | 25.9 | 46.5 | 1.6 | 1.9 | - | 4.7 | 4.9 | 23.6 | 68.5 | 67.3 | 29.9 | - | - | - | - | - | - | - | - | - | 25.2 | 25.9 | 46.5 | 1.6 | 1.9 | - | 4.7 | 4.9 | 23.6 | 68.5 | 67.3 | 29.9 | | | |
| Gasabo | 37.1 | 33.4 | 24.6 | 1.4 | 1.8 | 2.7 | 9.8 | 7.1 | 61.6 | 51.8 | 57.7 | 11.1 | 41.7 | 50.0 | 8.3 | 20.0 | 25.0 | 20.0 | 25.0 | 10.0 | 37.3 | 33.9 | 24.6 | 1.6 | 2.4 | 2.7 | 10.2 | 7.4 | 61.6 | 50.9 | 56.3 | 11.1 | | | | |
| Kicukiro | 31.1 | 22.3 | - | 7.6 | 5.0 | - | 10.9 | 9.1 | - | 50.4 | 63.6 | - | 25.0 | 100.0 | - | - | 50.0 | - | 25.0 | - | 31.0 | 22.6 | - | 7.4 | 4.9 | - | 11.6 | 9.1 | - | 50.0 | 63.4 | - | | | | |
| Nyanza | 33.3 | 35.5 | 43.6 | 2.8 | 5.2 | 0.1 | 14.0 | 10.2 | 36.4 | 49.9 | 49.0 | 19.9 | - | 14.3 | 14.3 | 28.6 | 71.4 | 57.1 | 14.3 | - | 32.7 | 35.1 | 43.6 | 3.1 | 5.7 | 0.1 | 15.1 | 11.1 | 36.4 | 49.2 | 48.1 | 19.9 | | | | |
| Gisagara | 25.4 | 23.2 | 18.0 | 8.6 | 8.3 | 2.4 | 25.0 | 7.3 | 21.0 | 41.0 | 61.2 | 58.7 | 5.6 | - | 33.3 | 60.0 | 61.1 | 40.0 | - | - | 24.7 | 22.4 | 18.0 | 9.5 | 10.0 | 2.4 | 26.3 | 8.4 | 21.0 | 39.5 | 59.2 | 58.7 | | | | |
| Nyaruguru | 32.9 | 26.6 | 84.3 | - | 2.0 | - | 42.2 | 36.8 | 10.1 | 24.9 | 34.5 | 5.6 | - | - | - | - | 100.0 | 100.0 | - | - | 32.6 | 26.6 | 84.3 | - | 2.0 | - | 42.7 | 37.0 | 10.1 | 24.7 | 34.4 | 5.6 | | | | |
| Huye | 41.8 | 31.6 | 37.5 | 2.8 | 4.8 | - | 15.6 | 11.4 | 24.8 | 39.8 | 52.2 | 37.6 | 5.3 | 5.6 | 26.3 | 55.6 | 68.4 | 38.9 | - | - | 39.9 | 30.5 | 37.5 | 4.0 | 7.0 | - | 18.3 | 12.6 | 24.8 | 37.8 | 49.9 | 37.6 | | | | |
| Nyamagabe | 41.5 | 37.7 | 44.4 | 0.3 | 2.5 | 1.7 | 35.9 | 35.3 | 41.6 | 22.4 | 24.5 | 12.2 | - | - | - | - | 100.0 | 100.0 | - | - | 41.3 | 37.6 | 44.4 | 0.3 | 2.5 | 1.7 | 36.0 | 35.4 | 41.6 | 22.3 | 24.5 | 12.2 | | | | |
| Ruhango | 40.6 | 32.4 | 27.1 | 1.1 | 5.3 | 1.6 | 5.0 | 4.2 | 39.9 | 53.2 | 58.1 | 31.4 | - | 10.0 | 44.4 | 50.0 | 44.4 | 40.0 | 11.1 | - | 39.6 | 31.9 | 27.1 | 2.2 | 6.3 | 1.6 | 6.0 | 5.0 | 39.9 | 52.2 | 56.8 | 31.4 | | | | |
| Muhanga | 60.0 | 62.8 | 72.3 | - | 1.0 | - | 6.9 | 4.5 | 13.1 | 33.1 | 31.7 | 14.6 | - | - | - | - | 100.0 | 100.0 | - | - | 59.3 | 62.5 | 72.3 | - | 1.0 | - | 8.0 | 5.0 | 13.1 | 32.7 | 31.6 | 14.6 | | | | |
| Kamonyi | 53.2 | 57.2 | 54.9 | 0.3 | 0.8 | - | 6.4 | 5.7 | 37.5 | 40.1 | 36.3 | 7.6 | 14.3 | - | 28.6 | 25.0 | 42.9 | 75.0 | 14.3 | - | 52.5 | 56.6 | 54.9 | 0.8 | 1.1 | - | 7.1 | 6.4 | 37.5 | 39.6 | 35.9 | 7.6 | | | | |
| Karongi | 30.2 | 34.5 | 30.0 | 4.6 | 2.9 | 4.1 | 29.3 | 23.0 | 4.3 | 36.0 | 39.6 | 61.6 | - | - | - | - | 100.0 | 100.0 | - | - | 30.1 | 34.4 | 30.0 | 4.6 | 2.9 | 4.1 | 29.5 | 23.2 | 4.3 | 35.9 | 39.5 | 61.6 | | | | |
| Rutsiro | 36.5 | 35.3 | 2.7 | 8.1 | 4.8 | 17.8 | 26.9 | 29.4 | 73.7 | 28.4 | 30.5 | 5.8 | - | - | - | - | - | - | - | - | 36.5 | 35.3 | 2.7 | 8.1 | 4.8 | 17.8 | 26.9 | 29.4 | 73.7 | 28.4 | 30.5 | 5.8 | | | | |
| Rubavu | 13.3 | 9.1 | 2.8 | 30.1 | 37.9 | 48.5 | 11.9 | 16.5 | 16.7 | 44.8 | 36.5 | 32.0 | 50.0 | 100.0 | - | - | 50.0 | - | - | - | 13.5 | 9.4 | 2.8 | 29.9 | 37.8 | 48.5 | 12.1 | 16.5 | 16.7 | 44.5 | 36.4 | 32.0 | | | | |
| Nyabihu | 28.3 | 22.0 | 13.2 | 13.5 | 13.9 | 18.6 | 31.9 | 38.9 | 62.4 | 26.3 | 25.2 | 5.7 | - | - | - | - | - | - | - | - | 28.3 | 22.0 | 13.2 | 13.5 | 13.9 | 18.6 | 31.9 | 38.9 | 62.4 | 26.3 | 25.2 | 5.7 | | | | |
| Ngororero | 45.5 | 42.7 | 88.7 | 1.0 | 0.9 | 0.8 | 29.6 | 29.7 | - | 23.8 | 26.6 | 10.5 | - | - | - | - | - | - | - | - | 45.5 | 42.7 | 88.7 | 1.0 | 0.9 | 0.8 | 29.6 | 29.7 | - | 23.8 | 26.6 | 10.5 | | | | |
| Rusizi | 17.8 | 26.1 | 36.9 | 13.8 | 9.9 | 9.8 | 39.7 | 21.8 | 48.8 | 28.6 | 42.2 | 4.5 | - | 16.7 | 66.7 | 83.3 | 16.7 | - | 16.7 | - | 17.6 | 25.9 | 36.9 | 14.6 | 11.1 | 9.8 | 39.4 | 21.4 | 48.8 | 28.5 | 41.5 | 4.5 | | | | |
| Nyamasheke | 21.1 | 24.6 | - | 5.1 | 5.6 | - | 41.2 | 39.0 | 100.0 | 32.6 | 30.8 | - | - | - | - | 60.0 | 100.0 | 40.0 | - | - | 20.8 | 24.3 | - | 5.0 | 6.4 | - | 42.0 | 39.0 | 100.0 | 32.2 | 30.3 | - | | | | |
| Rulindo | 50.4 | 53.7 | 10.9 | 0.7 | 0.9 | - | 31.5 | 22.5 | 89.1 | 17.4 | 22.9 | - | 16.7 | - | 33.3 | 25.0 | 16.7 | 75.0 | 33.3 | - | 50.0 | 53.3 | 10.9 | 1.1 | 1.1 | - | 31.3 | 22.9 | 89.1 | 17.6 | 22.7 | - | | | | |
| Gakenke | 38.1 | 46.3 | 45.0 | 0.5 | 1.2 | - | 46.5 | 37.7 | 53.0 | 15.0 | 14.9 | 2.0 | - | - | - | - | - | - | - | - | 38.1 | 46.3 | 45.0 | 0.5 | 1.2 | - | 46.5 | 37.7 | 53.0 | 15.0 | 14.9 | 2.0 | | | | |
| Musanze | 27.3 | 30.4 | 3.1 | 5.5 | 4.6 | 2.3 | 29.8 | 29.2 | 80.8 | 37.4 | 35.9 | 13.8 | - | - | - | - | 100.0 | - | - | 100.0 | - | 27.2 | 30.3 | 3.1 | 5.5 | 4.8 | 2.3 | 29.7 | 29.1 | 80.8 | 37.6 | 35.8 | 13.8 | | | |
| Burera | 45.1 | 42.2 | 33.5 | 2.7 | 5.0 | 5.4 | 27.0 | 21.7 | 40.0 | 25.2 | 31.1 | 21.1 | - | - | - | - | - | - | - | - | 45.1 | 42.2 | 33.5 | 2.7 | 5.0 | 5.4 | 27.0 | 21.7 | 40.0 | 25.2 | 31.1 | 21.1 | | | | |
| Gicumbi | 56.6 | 51.9 | 3.0 | 1.7 | 1.6 | - | 21.9 | 16.3 | 97.0 | 19.7 | 30.2 | - | 100.0 | - | - | - | - | 100.0 | - | - | 56.7 | 51.7 | 3.0 | 1.7 | 1.6 | - | 21.9 | 16.5 | 97.0 | 19.7 | 30.2 | - | | | | |
| Rwamagana | 30.3 | 23.9 | 5.7 | 13.2 | 6.9 | 7.8 | 19.3 | 13.6 | 67.7 | 37.2 | 55.6 | 18.8 | 18.2 | 47.6 | 31.8 | 23.8 | 9.1 | 28.6 | 40.9 | - | 29.7 | 25.2 | 5.7 | 14.2 | 7.8 | 7.8 | 18.7 | 14.4 | 67.7 | 37.4 | 52.6 | 18.8 | | | | |
| Nyagatare | 23.1 | 20.8 | - | 6.9 | 11.0 | 48.9 | 5.2 | 5.0 | - | 64.8 | 63.2 | 51.1 | 9.5 | 4.3 | 66.7 | 47.8 | 14.3 | 21.7 | 9.5 | 26.1 | 22.8 | 20.4 | - | 8.4 | 11.9 | 48.9 | 5.5 | 5.5 | - | 63.4 | 62.2 | 51.1 | | | | |
| Gatsibo | 25.9 | 27.3 | 27.2 | 3.1 | 4.8 | 5.8 | 15.2 | 8.7 | 30.6 | 55.8 | 59.2 | 36.4 | 13.3 | - | 26.7 | 42.9 | 46.7 | 28.6 | 13.3 | 28.6 | 25.6 | 26.8 | 27.2 | 3.6 | 5.5 | 5.8 | 15.9 | 9.1 | 30.6 | 54.9 | 58.6 | 36.4 | | | | |
| Kayonza | 23.6 | 19.2 | 43.1 | 4.9 | 3.5 | - | 3.2 | 5.0 | 48.6 | 68.3 | 72.2 | 8.3 | - | 13.3 | 53.3 | 60.0 | 13.3 | 6.7 | 33.3 | 20.0 | 23.1 | 19.1 | 43.1 | 6.0 | 4.7 | - | 3.4 | 5.1 | 48.6 | 67.5 | 71.2 | 8.3 | | | | |
| Kirehe | 33.9 | 21.5 | 78.5 | 3.3 | 6.5 | - | 10.5 | 3.9 | 4.7 | 52.3 | 68.0 | 16.8 | - | 10.0 | 77.8 | 70.0 | 22.2 | 20.0 | - | - | 33.5 | 21.4 | 78.5 | 4.2 | 7.4 | - | 10.6 | 4.1 | 4.7 | 51.7 | 67.1 | 16.8 | | | | |
| Ngoma | 27.2 | 16.6 | - | 6.6 | 2.8 | - | 25.6 | 3.1 | - | 40.5 | 77.4 | - | 8.3 | - | 75.0 | 70.0 | 8.3 | 10.0 | 8.3 | 20.0 | 26.5 | 16.1 | - | 9.1 | 4.9 | - | 25.0 | 3.3 | - | 39.3 | 75.7 | - | | | | |
| Bugesera | 20.8 | 26.7 | - | 11.8 | 4.8 | 26.0 | 2.5 | 3.1 | 4.4 | 64.8 | 65.3 | 69.6 | 2.9 | 20.0 | 44.1 | 40.0 | 8.8 | 14.3 | 44.1 | 25.7 | 19.3 | 26.1 | - | 14.7 | 8.0 | 26.0 | 3.1 | 4.1 | 4.4 | 63.0 | 61.8 | 69.6 | | | | |
| National | 33.6 | 31.6 | 23.6 | 5.4 | 5.7 | 9.3 | 19.9 | 15.4 | 46.9 | 41.2 | 47.3 | 20.2 | 9.4 | 14.8 | 38.0 | 45.4 | 33.3 | 28.2 | 19.2 | 11.6 | 33.1 | 31.3 | 23.6 | 5.9 | 6.4 | 9.3 | 20.1 | 15.6 | 46.9 | 40.8 | 46.7 | 20.2 | | | | |

Table 44: Season A 2019 Use of pesticides by farmer type per district

| District | Percentage of plots | | | | | | Percentage of farmers | | | | | | Percentage of land size | | | | | |
|-----------------|---------------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-------------|-------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 11.5 | 88.5 | 11.5 | 88.5 | - | - | 11.4 | 88.6 | 11.4 | 88.6 | - | - | 11.0 | 89.0 | 11.0 | 89.0 | - | - |
| Gasabo | 10.5 | 89.5 | 8.1 | 91.9 | 20.8 | 79.2 | 9.4 | 90.6 | 8.7 | 91.3 | 33.3 | 66.7 | 10.2 | 89.8 | 9.5 | 90.5 | 50.9 | 49.1 |
| Kicukiro | 13.1 | 86.9 | 10.8 | 89.2 | 50 | 50 | 11.2 | 88.8 | 10.9 | 89.1 | 25 | 75 | 20.9 | 79.1 | 20.9 | 79.1 | 32.4 | 67.6 |
| Nyanza | 16.2 | 83.8 | 15 | 85 | 47.1 | 52.9 | 16.5 | 83.5 | 15.1 | 84.9 | 85.7 | 14.3 | 16.1 | 83.9 | 14.1 | 85.9 | 95.5 | 4.5 |
| Gisagara | 28.9 | 71.1 | 26.7 | 73.3 | 76 | 24 | 28.3 | 71.7 | 26.1 | 73.9 | 88.9 | 11.1 | 29.6 | 70.4 | 21.9 | 78.1 | 97.8 | 2.2 |
| Nyaruguru | 18.5 | 81.5 | 18 | 82 | 100 | 0 | 18.4 | 81.6 | 17.7 | 82.3 | 100 | 0 | 24.2 | 75.8 | 24.1 | 75.9 | 100.0 | - |
| Huye | 13.6 | 86.4 | 8.9 | 91.1 | 74.2 | 25.8 | 13.8 | 86.2 | 9.5 | 90.5 | 94.7 | 5.3 | 13.6 | 86.4 | 9.3 | 90.7 | 98.8 | 1.2 |
| Nyamagabe | 18.4 | 81.6 | 17.5 | 82.5 | 83.3 | 16.7 | 19 | 81 | 18.8 | 81.2 | 100 | 0 | 23.1 | 76.9 | 23.0 | 77.0 | 86.1 | 13.9 |
| Ruhango | 8.5 | 91.5 | 7.2 | 92.8 | 41.2 | 58.8 | 9.3 | 90.7 | 7.8 | 92.2 | 66.7 | 33.3 | 8.4 | 91.6 | 6.0 | 94.0 | 85.7 | 14.3 |
| Muhanga | 10.7 | 89.3 | 7 | 93 | 100 | 0 | 7.1 | 92.9 | 6 | 94 | 100 | 0 | 6.6 | 93.4 | 5.5 | 94.5 | 100.0 | - |
| Kamonyi | 10.5 | 89.5 | 7.1 | 92.9 | 66.7 | 33.3 | 9 | 91 | 7.5 | 92.5 | 85.7 | 14.3 | 8.5 | 91.5 | 7.6 | 92.4 | 92.3 | 7.7 |
| Karongi | 13.6 | 86.4 | 13.7 | 86.3 | 0 | 100 | 14 | 86 | 14 | 86 | 0 | 100 | 11.1 | 88.9 | 11.1 | 88.9 | - | 100.0 |
| Rutsiro | 23.7 | 76.3 | 23.7 | 76.3 | - | - | 23.7 | 76.3 | 23.7 | 76.3 | - | - | 25.2 | 74.8 | 25.2 | 74.8 | - | - |
| Rubavu | 51 | 49 | 51 | 49 | 50 | 50 | 48.1 | 51.9 | 48.1 | 51.9 | 50 | 50 | 60.8 | 39.2 | 60.8 | 39.2 | 48.6 | 51.4 |
| Nyabihu | 45.4 | 54.6 | 45.4 | 54.6 | - | - | 44.9 | 55.1 | 44.9 | 55.1 | - | - | 44.6 | 55.4 | 44.6 | 55.4 | - | - |
| Ngororero | 15.2 | 84.8 | 15.2 | 84.8 | - | - | 14.9 | 85.1 | 14.9 | 85.1 | - | - | 11.8 | 88.2 | 11.8 | 88.2 | - | - |
| Rusizi | 12.5 | 87.5 | 11.5 | 88.5 | 60 | 40 | 11.8 | 88.2 | 11 | 89 | 66.7 | 33.3 | 10.2 | 89.8 | 7.8 | 92.2 | 53.8 | 46.2 |
| Nyamasheke | 7.6 | 92.4 | 6.6 | 93.4 | 83.3 | 16.7 | 7.4 | 92.6 | 6.4 | 93.6 | 80 | 20 | 7.4 | 92.6 | 6.2 | 93.8 | 88.7 | 11.3 |
| Rulindo | 29.9 | 70.1 | 28.6 | 71.4 | 58.3 | 41.7 | 29.8 | 70.2 | 29.6 | 70.4 | 50 | 50 | 24.1 | 75.9 | 23.9 | 76.1 | 86.3 | 13.7 |
| Gakenke | 25 | 75 | 25 | 75 | - | - | 25.2 | 74.8 | 25.2 | 74.8 | - | - | 23.9 | 76.1 | 23.9 | 76.1 | - | - |
| Musanze | 32.2 | 67.8 | 32.3 | 67.7 | 20 | 80 | 32.1 | 67.9 | 32.1 | 67.9 | 0 | 100 | 38.4 | 61.6 | 38.5 | 61.5 | 9.2 | 90.8 |
| Burera | 32.6 | 67.4 | 32.6 | 67.4 | | | 33.4 | 66.6 | 33.4 | 66.6 | - | - | 31.9 | 68.1 | 31.9 | 68.1 | - | - |
| Gicumbi | 20.5 | 79.5 | 20.3 | 79.7 | 50 | 50 | 21.2 | 78.8 | 21.3 | 78.7 | 0 | 100 | 21.1 | 78.9 | 21.1 | 78.9 | 71.6 | 28.4 |
| Rwamagana | 24 | 76 | 21.8 | 78.2 | 31 | 69 | 23.2 | 76.8 | 21.6 | 78.4 | 50 | 50 | 21.1 | 78.9 | 20.2 | 79.8 | 74.7 | 25.3 |
| Nyagatare | 10.9 | 89.1 | 6.9 | 93.1 | 72.1 | 27.9 | 8.2 | 91.8 | 6.2 | 93.8 | 90.5 | 9.5 | 10.4 | 89.6 | 6.8 | 93.2 | 97.0 | 3.0 |
| Gatsibo | 11.1 | 88.9 | 9.5 | 90.5 | 40.4 | 59.6 | 10.8 | 89.2 | 9.5 | 90.5 | 73.3 | 26.7 | 10.1 | 89.9 | 7.0 | 93.0 | 95.6 | 4.4 |
| Kayonza | 6.1 | 93.9 | 2.9 | 97.1 | 24 | 76 | 4.3 | 95.7 | 3.2 | 96.8 | 53.3 | 46.7 | 4.5 | 95.5 | 2.5 | 97.5 | 70.5 | 29.5 |
| Kirehe | 7.2 | 92.8 | 5.7 | 94.3 | 100 | 0 | 7 | 93 | 5.8 | 94.2 | 100 | 0 | 11.0 | 89.0 | 7.1 | 92.9 | 100.0 | - |
| Ngoma | 13 | 87 | 10.8 | 89.2 | 35.1 | 64.9 | 12.8 | 87.2 | 10.1 | 89.9 | 83.3 | 16.7 | 14.3 | 85.7 | 12.7 | 87.3 | 94.5 | 5.5 |
| Bugesera | 18.8 | 81.2 | 11.7 | 88.3 | 34 | 66 | 16.2 | 83.8 | 12.7 | 87.3 | 52.9 | 47.1 | 12.4 | 87.6 | 9.7 | 90.3 | 64.1 | 35.9 |
| National | 18.1 | 81.9 | 16.6 | 83.4 | 41.5 | 58.5 | 17.6 | 82.4 | 16.6 | 83.4 | 69.7 | 30.3 | 17.1 | 82.9 | 15.4 | 84.6 | 86.6 | 13.4 |

Source: NISR, SAS 2019

Table 45: Season B 2019_ Use of pesticides by farmer type per district

| District | Percentage of plots | | | | | | Percentage of farmers | | | | | | Percentage of land size | | | | | |
|-----------------|---------------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-------------|-------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 9.7 | 90.3 | 9.7 | 90.3 | | | 9.4 | 90.6 | 9.4 | 90.6 | | | 8.3 | 91.7 | 8.3 | 91.7 | | |
| Gasabo | 8.8 | 91.2 | 6.3 | 93.7 | 33.3 | 66.7 | 7.1 | 92.9 | 5.8 | 94.2 | 50 | 50 | 9.6 | 90.4 | 8.3 | 91.7 | 71.2 | 28.8 |
| Kicukiro | 8.2 | 91.8 | 8.2 | 91.8 | - | 100 | 8.2 | 91.8 | 8.3 | 91.7 | - | 100 | 13.2 | 86.8 | 13.3 | 86.7 | - | 100 |
| Nyanza | 11.2 | 88.8 | 9 | 91 | 75 | 25 | 11.4 | 88.7 | 9.9 | 90.1 | 85.7 | 14.3 | 9.1 | 90.9 | 7.4 | 92.6 | 98.5 | 1.5 |
| Gisagara | 11.9 | 88.2 | 9.2 | 90.8 | 83.3 | 16.7 | 12 | 88 | 9.4 | 90.6 | 86.7 | 13.3 | 12.9 | 87.1 | 5.5 | 94.5 | 97.2 | 2.8 |
| Nyaruguru | 13.8 | 86.2 | 13.6 | 86.5 | 100 | - | 14.4 | 85.6 | 14.1 | 85.9 | 100 | - | 16.9 | 83.1 | 16.7 | 83.3 | 100 | - |
| Huye | 7.8 | 92.2 | 4.9 | 95.1 | 55.6 | 44.4 | 8.5 | 91.5 | 5.3 | 94.7 | 77.8 | 22.2 | 7 | 93 | 3.8 | 96.2 | 80.3 | 19.7 |
| Nyamagabe | 18.3 | 81.7 | 17.8 | 82.2 | 75 | 25 | 19 | 81 | 18.7 | 81.3 | 100 | - | 23 | 77 | 22.9 | 77.1 | 97.2 | 2.8 |
| Ruhango | 5.5 | 94.5 | 3.2 | 96.9 | 56.5 | 43.5 | 5.4 | 94.6 | 3.5 | 96.5 | 90 | 10 | 4.8 | 95.2 | 2.5 | 97.5 | 95.7 | 4.3 |
| Muhanga | 6.6 | 93.4 | 6.2 | 93.8 | 100 | - | 6.2 | 93.8 | 5.7 | 94.3 | 100 | - | 5.9 | 94.1 | 5.6 | 94.4 | 100 | - |
| Kamonyi | 6.6 | 93.4 | 5.8 | 94.3 | 100 | - | 7 | 93 | 6 | 94 | 100 | - | 6.5 | 93.5 | 6 | 94 | 100 | - |
| Karongi | 7.7 | 92.4 | 7.7 | 92.3 | - | 100 | 8 | 92 | 8 | 92 | - | 100 | 8.8 | 91.2 | 8.8 | 91.2 | - | 100 |
| Rutsiro | 21.7 | 78.4 | 21.7 | 78.4 | | | 21.3 | 78.7 | 21.3 | 78.7 | | | 25.6 | 74.4 | 25.6 | 74.4 | | |
| Rubavu | 59.6 | 40.4 | 60.2 | 39.8 | - | 100 | 58.8 | 41.2 | 59 | 41 | - | 100 | 62.5 | 37.5 | 62.5 | 37.5 | - | 100 |
| Nyabihu | 49 | 51.1 | 49 | 51.1 | | | 49.6 | 50.5 | 49.6 | 50.5 | | | 52.1 | 47.9 | 52.1 | 47.9 | | |
| Ngororero | 17.5 | 82.5 | 17.5 | 82.5 | | | 17.1 | 82.9 | 17.1 | 82.9 | | | 24.2 | 75.8 | 24.2 | 75.8 | | |
| Rusizi | 13.5 | 86.5 | 13.1 | 86.9 | 27.3 | 72.7 | 14.3 | 85.7 | 13.7 | 86.3 | 50 | 50 | 11.3 | 88.7 | 9.2 | 90.8 | 48.1 | 51.9 |
| Nyamasheke | 8.9 | 91.1 | 8 | 92 | 80 | 20 | 8.4 | 91.6 | 7.3 | 92.7 | 80 | 20 | 7.4 | 92.6 | 6.1 | 93.9 | 88.6 | 11.4 |
| Rulindo | 17.4 | 82.6 | 16.5 | 83.5 | 66.7 | 33.3 | 16.8 | 83.2 | 16.5 | 83.5 | 50 | 50 | 14.6 | 85.4 | 14.4 | 85.6 | 70.7 | 29.3 |
| Gakenke | 17.3 | 82.8 | 17.3 | 82.8 | | | 16.7 | 83.3 | 16.7 | 83.3 | | | 17.4 | 82.6 | 17.4 | 82.6 | | |
| Musanze | 50.4 | 49.6 | 50 | 50 | 100 | - | 49 | 51 | 48.9 | 51.1 | 100 | - | 54.9 | 45.1 | 54.9 | 45.1 | 100 | - |
| Burera | 30.4 | 69.7 | 30.4 | 69.7 | | | 30.2 | 69.8 | 30.2 | 69.8 | | | 33.3 | 66.7 | 33.3 | 66.7 | | |
| Gicumbi | 18 | 82.1 | 17.8 | 82.2 | 50 | 50 | 18.1 | 81.9 | 17.9 | 82.1 | 100 | - | 19.4 | 80.6 | 19.4 | 80.6 | 86 | 14 |
| Rwamagana | 16.8 | 83.2 | 14 | 86 | 30.5 | 69.5 | 13.9 | 86.2 | 12 | 88 | 47.6 | 52.4 | 15.7 | 84.3 | 14.7 | 85.3 | 76.1 | 23.9 |
| Nyagatare | 10.5 | 89.5 | 7.4 | 92.6 | 57.8 | 42.2 | 9 | 91 | 7.4 | 92.6 | 69.6 | 30.4 | 10.2 | 89.8 | 7.5 | 92.5 | 92.9 | 7.1 |
| Gatsibo | 5.9 | 94.1 | 5.2 | 94.8 | 22 | 78.1 | 5.8 | 94.2 | 5.2 | 94.8 | 35.7 | 64.3 | 9.6 | 90.4 | 7.2 | 92.8 | 84.8 | 15.2 |
| Kayonza | 6.1 | 93.9 | 4.4 | 95.7 | 18 | 82 | 5.5 | 94.5 | 4.1 | 95.9 | 73.3 | 26.7 | 7.7 | 92.3 | 5.6 | 94.4 | 83.5 | 16.5 |
| Kirehe | 2.9 | 97.2 | 1.5 | 98.5 | 75 | 25 | 2.5 | 97.5 | 1.5 | 98.5 | 80 | 20 | 3.6 | 96.4 | 0.2 | 99.8 | 99 | 1 |
| Ngoma | 7.6 | 92.4 | 1.9 | 98.1 | 74.2 | 25.8 | 4.6 | 95.4 | 2.2 | 97.8 | 80 | 20 | 4.5 | 95.5 | 2.7 | 97.3 | 95.6 | 4.4 |
| Bugesera | 9.1 | 90.9 | 3.6 | 96.4 | 28.8 | 71.2 | 7.2 | 92.8 | 3.1 | 96.9 | 48.6 | 51.4 | 5.4 | 94.6 | 2.8 | 97.2 | 74.5 | 25.5 |
| National | 14.7 | 85.4 | 13.5 | 86.5 | 39.8 | 60.2 | 14.5 | 85.5 | 13.6 | 86.4 | 65.3 | 34.7 | 14.2 | 85.8 | 12.8 | 87.2 | 85.9 | 14.1 |

Source: NISR, SAS 2019

Table 46: Season C 2019 Use of pesticides per district

| District | Percentage of plots | | Percentage of farmers | | Percentage of land size | |
|-----------------|---------------------|-------------|-----------------------|-------------|-------------------------|-------------|
| | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 60 | 40 | 60 | 40 | 63.7 | 36.3 |
| Gasabo | 60.9 | 39.1 | 60.9 | 39.1 | 61.6 | 38.4 |
| Nyanza | 39.1 | 60.9 | 39.1 | 60.9 | 46.1 | 53.9 |
| Gisagara | 45.7 | 54.3 | 45.7 | 54.3 | 56.4 | 43.6 |
| Nyaruguru | 8.2 | 91.8 | 8.2 | 91.8 | 5.3 | 94.7 |
| Huye | 26.5 | 73.5 | 26.5 | 73.5 | 23.7 | 76.3 |
| Nyamagabe | 10.5 | 89.5 | 10.5 | 89.5 | 18.5 | 81.5 |
| Ruhango | 31 | 69 | 31 | 69 | 26.9 | 73.1 |
| Muhanga | 2.9 | 97.1 | 2.9 | 97.1 | 2.6 | 97.4 |
| Kamonyi | 56.3 | 43.8 | 56.3 | 43.8 | 74.7 | 25.3 |
| Karongi | 19.2 | 80.8 | 19.2 | 80.8 | 15.5 | 84.5 |
| Rutsiro | 69.9 | 30.1 | 69.9 | 30.1 | 87.6 | 12.4 |
| Rubavu | 80 | 20 | 80 | 20 | 68.0 | 32.0 |
| Nyabihu | 76.6 | 23.4 | 76.6 | 23.4 | 80.6 | 19.4 |
| Ngororero | 0 | 100 | 0 | 100 | - | 100.0 |
| Rusizi | 15.4 | 84.6 | 15.4 | 84.6 | 15.4 | 84.6 |
| Nyamasheke | 66.7 | 33.3 | 66.7 | 33.3 | 81.9 | 18.1 |
| Rulindo | 45 | 55 | 45 | 55 | 70.3 | 29.7 |
| Gakenke | 38.9 | 61.1 | 38.9 | 61.1 | 50.1 | 49.9 |
| Musanze | 81 | 19 | 81 | 19 | 88.4 | 11.6 |
| Burera | 53.1 | 46.9 | 53.1 | 46.9 | 52.4 | 47.6 |
| Gicumbi | 46.7 | 53.3 | 46.7 | 53.3 | 60.5 | 39.5 |
| Rwamagana | 86.4 | 13.6 | 86.4 | 13.6 | 81.7 | 18.3 |
| Nyagatare | 38.5 | 61.5 | 38.5 | 61.5 | 54.7 | 45.3 |
| Gatsibo | 40.9 | 59.1 | 40.9 | 59.1 | 29.6 | 70.4 |
| Kayonza | 71.4 | 28.6 | 71.4 | 28.6 | 65.3 | 34.7 |
| Kirehe | 20 | 80 | 20 | 80 | 16.8 | 83.2 |
| Bugesera | 24.7 | 75.3 | 24.7 | 75.3 | 28.4 | 71.6 |
| National | 42.3 | 57.7 | 42.3 | 57.7 | 58.9 | 41.1 |

Source: NISR, SAS 2019

Table 47: Percentage of plots by type of pesticides, per season and district in 2019

| District | Dithane | | | Ridomil | | | Dimethoate | | | Cypermethrin | | | Dursibran | | | Rocket | | | Beam | | | 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 |
| Nyarugenge | 43.5 | 38 | 45.5 | 1.2 | - | 0 | 0 | 1.4 | 0 | 3.5 | | 9.1 | 0 | - | 0 | 24.7 | 35.2 | 18.2 | 0 | - | 0 | 27.1 | 21.1 | 27.3 |
| Gasabo | 33 | 23.1 | 33.3 | 4.4 | - | 3.7 | 0 | - | 0 | 12.1 | 15.4 | 11.1 | 0 | - | 0 | 38.5 | 44.2 | 37 | 1.1 | 5.8 | 0 | 11 | 11.5 | 14.8 |
| Kicukiro | 12.5 | 27.5 | | 1.6 | - | - | 0 | - | | 18.8 | 5 | | 0 | - | | 45.3 | 42.5 | - | 0 | - | - | 21.9 | 25 | - |
| Nyanza | 8.2 | 11.1 | 35.4 | 0 | 1.4 | 6.3 | 0 | - | 0 | 17.6 | 11.1 | 0 | 0 | - | 0 | 67.1 | 56.9 | 56.3 | 4.7 | 5.6 | 0 | 2.4 | 13.9 | 2.1 |
| Gisagara | 7.2 | 8.6 | 16.4 | 0 | - | 0 | 0 | - | 1.6 | 14.9 | 30.9 | 42.6 | 0 | - | 1.6 | 65.6 | 37 | 26.2 | 6.2 | 13.6 | 0 | 6.2 | 9.9 | 11.5 |
| Nyaruguru | 10.3 | 44.2 | 0 | 3.4 | 3.8 | 0 | 0 | - | 0 | 19 | 13.5 | 50 | 0 | - | 0 | 55.2 | 30.8 | 50 | 0 | - | 0 | 12.1 | 7.7 | 0 |
| Huye | 11.4 | 15 | 42.1 | 1.1 | 1.7 | 0 | 0 | - | 0 | 27.3 | 25 | 5.3 | 0 | - | 0 | 36.4 | 28.3 | 42.1 | 12.5 | 20 | 0 | 11.4 | 10 | 10.5 |
| Nyamagabe | 39.6 | 41.4 | 37.5 | 1 | 2 | 0 | 0 | - | 0 | 27.1 | 34.3 | 12.5 | 4.2 | - | 0 | 28.1 | 18.2 | 50 | 0 | - | 0 | 0 | 4 | 0 |
| Ruhango | 16.3 | 8.3 | 28.6 | 2 | - | 4.8 | 2 | 5.6 | 0 | 22.4 | 22.2 | 9.5 | 0 | - | 0 | 49 | 41.7 | 52.4 | 8.2 | 13.9 | 0 | 0 | 8.3 | 4.8 |
| Muhanga | 17.9 | 26.7 | 0 | 4.5 | 6.7 | 0 | 0 | - | 0 | 16.4 | 26.7 | 100 | 0 | - | 0 | 53.7 | 26.7 | 0 | 3 | 4.4 | 0 | 4.5 | 8.9 | 0 |
| Kamonyi | 13.3 | 30.6 | 37.8 | 5 | 4.1 | 2.7 | 0 | 2 | 0 | 6.7 | 14.3 | 13.5 | 0 | - | 0 | 68.3 | 38.8 | 32.4 | 3.3 | 4.1 | 0 | 3.3 | 6.1 | 13.5 |
| Karongi | 15 | 35.5 | 0 | 1.7 | - | 0 | 5 | - | 0 | 43.3 | 48.4 | 50 | 0 | - | 0 | 35 | 12.9 | 12.5 | 0 | - | 0 | 0 | 3.2 | 37.5 |
| Rutsiro | 26.5 | 50.8 | 54.7 | 10.2 | 9.8 | 12.8 | 0 | 1.5 | 0 | 21.8 | 19.7 | 24.4 | 0.7 | - | 0 | 34.7 | 8.3 | 2.3 | 0 | - | 0 | 6.1 | 9.8 | 5.8 |
| Rubavu | 38.4 | 36.7 | 40.7 | 23.1 | 27.7 | 10.2 | 2.7 | 0.8 | 11.9 | 28.8 | 32.5 | 27.1 | 0 | - | 0 | 6.7 | 1.4 | 0 | 0 | - | 0 | 0.2 | 0.8 | 10.2 |
| Nyabihu | 38.3 | 35.5 | 56.3 | 19.7 | 25.3 | 14.6 | 8 | 4.1 | 9.7 | 18.1 | 27.3 | 13.6 | 0 | - | 0 | 385 | 6.6 | 1.9 | 0 | - | 0 | 1.9 | 1.1 | 3.9 |
| Ngororero | 21.1 | 42 | - | 10.5 | 17.3 | - | 0 | - | - | 11.8 | 6.2 | - | 0 | - | | 55.3 | 29.6 | - | 0 | 1.2 | | 1.3 | 3.7 | - |
| Rusizi | 8 | 15.5 | 33.3 | 1.1 | 1 | 11.1 | 5.7 | 7.8 | 0 | 13.8 | 18.4 | 0 | 0 | - | 0 | 47.1 | 37.9 | 22.2 | 1.1 | - | 0 | 23 | 19.4 | 33.3 |
| Nyamasheke | 10.5 | 12.8 | 0 | 8.8 | 2.1 | 0 | 7 | 2.1 | 0 | 17.5 | 51.1 | 0 | 0 | - | 0 | 28.1 | 23.4 | 100 | 1.8 | 4.3 | 0 | 26.3 | 4.3 | 0 |
| Rulindo | 15.6 | 37.8 | 38.5 | 0.6 | 14.8 | 7.7 | 2.2 | - | 0 | 7.8 | 11.1 | 15.4 | 0 | 0.7 | 0 | 71.7 | 32.6 | 38.5 | 0 | - | 0 | 2.2 | 3 | 0 |
| Gakenke | 10.6 | 21.4 | 20 | 2.1 | 9.2 | 6.7 | 0 | - | 0 | 19.9 | 38.8 | 20 | 0 | - | 0 | 66 | 30.6 | 53.3 | 0 | - | 0 | 1.4 | - | 0 |
| Musanze | 41.5 | 35.9 | 48.8 | 6.9 | 18.7 | 6.2 | 4.9 | 9.9 | 1.2 | 20.3 | 12 | 28.4 | 0.4 | - | 0 | 22 | 20.1 | 12.3 | 0 | - | 0.6 | 4.1 | 3.5 | 2.5 |
| Burera | 34.4 | 43.6 | 46.2 | 7.2 | 22.3 | 5.7 | 14.3 | 2.6 | 3.8 | 21.9 | 25.9 | 26.4 | 0 | 0.7 | 0.9 | 21.1 | 4.6 | 3.8 | 0.4 | - | 4.7 | 0.7 | 0.3 | 8.5 |
| Gicumbi | 33.1 | 71.3 | 78.1 | 0.8 | 1 | 9.4 | 0 | 1 | 0 | 23.6 | 8.9 | 6.3 | 0 | - | 0 | 41.7 | 14.9 | 6.3 | 0 | - | 0 | 0.8 | 2 | 0 |
| Rwamagana | 18.6 | 25.6 | 32.5 | 1.4 | 4.5 | 0 | 0.9 | 2.8 | 5 | 21.9 | 15.9 | 20 | 1.4 | 0.6 | 0 | 29.8 | 23.3 | 15 | 8.8 | 2.3 | 0 | 17.2 | 25 | 27.5 |
| Nyagatare | 7.7 | 23.2 | 41.7 | 1.5 | 2.8 | 0 | 1.5 | 1.9 | 0 | 13.8 | 14.7 | 8.3 | 0 | - | 0 | 31.1 | 20.9 | 33.3 | 3.6 | 3.3 | 0 | 40.8 | 33.2 | 16.7 |
| Gatsibo | 17.6 | 16.2 | 34.5 | 3.7 | 1.4 | 0 | 0.7 | 4.1 | 0 | 9.6 | 17.6 | 20.7 | 0 | - | 0 | 59.6 | 43.2 | 27.6 | 3.7 | 5.4 | 0 | 5.1 | 12.2 | 17.2 |
| Kayonza | 21.1 | 16.2 | 50 | 4.4 | 9.5 | 0 | 0 | - | 0 | 21.1 | 14.3 | 0 | 0 | - | 0 | 28.9 | 25.7 | 50 | 8.9 | 3.8 | 0 | 15.6 | 30.5 | 0 |
| Kirehe | 6.8 | 8.6 | 40 | 2.7 | 2.9 | 0 | 1.4 | 2.9 | 20 | 20.5 | 31.4 | 40 | 0 | - | 0 | 61.6 | 34.3 | 0 | 5.5 | 11.4 | 0 | 1.4 | 8.6 | 0 |
| Ngoma | 4.6 | 7.7 | - | 0 | - | - | 0 | - | - | 20 | 41 | - | 0 | - | | 58.5 | 25.6 | - | 10.8 | 15.4 | | 6.2 | 10.3 | - |
| Bugesera | 9.4 | 6.8 | 8.3 | 5.8 | 1.4 | 0 | 0.6 | - | 2.8 | 19.3 | 20.5 | 19.4 | 0 | - | 0 | 40.9 | 28.8 | 47.2 | 4.7 | 15.1 | 0 | 19.3 | 27.4 | 22.2 |
| National | 23.9 | 32 | 41.7 | 7.3 | 13.2 | 6.2 | 2.9 | 2.4 | 2.9 | 19.4 | 22.3 | 21.1 | 0.2 | 0.1 | 0.2 | 36 | 19.1 | 18.7 | 2.3 | 2.2 | 0.6 | 8 | 8.6 | 8.6 |

Source: NISR, SAS 2019

Table 48: Season A 2019_ Irrigation practice by farmer type and district

| District | Percentage of Plots | | | | | | Percentage of farmers | | | | | | Percentage of land size | | | | | |
|-----------------|---------------------|-------------|------------|-------------|-------------|-------------|-----------------------|-------------|------------|-------------|-------------|-------------|-------------------------|-------------|------------|-------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 2.3 | 97.8 | 2.3 | 97.7 | - | - | 1.9 | 98.1 | 1.9 | 98.1 | - | - | 2.8 | 97.2 | 2.8 | 97.2 | - | - |
| Gasabo | 4.0 | 96.1 | 2.3 | 97.7 | 10.9 | 89.1 | 3.1 | 96.9 | 2.4 | 97.6 | 25.0 | 75.0 | 2.9 | 97.1 | 2.1 | 97.9 | 52.0 | 48.0 |
| Kicukiro | 5.3 | 94.8 | 5.2 | 94.8 | 5.6 | 94.4 | 5.8 | 94.2 | 5.9 | 94.1 | - | 100.0 | 9.7 | 90.3 | 9.7 | 90.3 | 0.3 | 99.7 |
| Nyanza | 8.7 | 91.3 | 7.3 | 92.7 | 47.1 | 52.9 | 8.7 | 91.3 | 8.0 | 92.0 | 42.9 | 57.1 | 4.6 | 95.4 | 3.5 | 96.5 | 50.2 | 49.8 |
| Gisagara | 11.1 | 89.0 | 9.5 | 90.5 | 44.0 | 56.0 | 11.3 | 88.7 | 9.7 | 90.3 | 55.6 | 44.4 | 6.8 | 93.2 | 2.4 | 97.6 | 45.6 | 54.4 |
| Nyaruguru | 0.7 | 99.3 | 0.7 | 99.3 | - | 100.0 | 0.4 | 99.6 | 0.4 | 99.6 | - | 100.0 | 0.3 | 99.7 | 0.4 | 99.6 | - | 100.0 |
| Huye | 10.8 | 89.2 | 6.9 | 93.1 | 61.3 | 38.7 | 11.4 | 88.6 | 7.5 | 92.5 | 84.2 | 15.8 | 6.8 | 93.2 | 2.5 | 97.5 | 90.8 | 9.2 |
| Nyamagabe | 1.6 | 98.4 | 1.6 | 98.4 | - | 100.0 | 1.7 | 98.3 | 1.7 | 98.3 | - | 100.0 | 0.4 | 99.6 | 0.4 | 99.6 | - | 100.0 |
| Ruhango | 3.3 | 96.7 | 2.0 | 98.0 | 35.3 | 64.7 | 3.8 | 96.2 | 2.2 | 97.8 | 66.7 | 33.3 | 5.4 | 94.6 | 2.6 | 97.4 | 93.6 | 6.4 |
| Muhanga | 2.0 | 98.0 | 1.2 | 98.8 | 20.0 | 80.0 | 2.1 | 97.9 | 1.2 | 98.8 | 80.0 | 20.0 | 2.4 | 97.6 | 1.5 | 98.5 | 80.6 | 19.4 |
| Kamonyi | 2.1 | 97.9 | 1.5 | 98.5 | 12.5 | 87.5 | 2.5 | 97.5 | 1.7 | 98.3 | 42.9 | 57.1 | 2.1 | 97.9 | 1.5 | 98.5 | 62.2 | 37.8 |
| Karongi | 2.7 | 97.3 | 2.7 | 97.3 | - | 100.0 | 2.7 | 97.3 | 2.7 | 97.3 | - | 100.0 | 0.6 | 99.4 | 0.6 | 99.4 | - | 100.0 |
| Rutsiro | - | 100.0 | - | 100.0 | - | - | - | 100.0 | - | 100.0 | - | - | - | 100.0 | - | 100.0 | - | - |
| Rubavu | - | 100.0 | - | 100.0 | - | 100.0 | - | 100.0 | - | 100.0 | - | 100.0 | - | 100.0 | - | 100.0 | - | 100.0 |
| Nyabihu | - | 100.0 | - | 100.0 | - | - | - | 100.0 | - | 100.0 | - | - | - | 100.0 | - | 100.0 | - | - |
| Ngororero | 0.5 | 99.6 | 0.4 | 99.6 | - | - | 0.3 | 99.7 | 0.3 | 99.7 | - | - | 1.2 | 98.8 | 1.2 | 98.8 | - | - |
| Rusizi | 3.3 | 96.7 | 2.6 | 97.4 | 40.0 | 60.0 | 3.2 | 96.8 | 2.3 | 97.7 | 66.7 | 33.3 | 5.2 | 94.8 | 0.7 | 99.3 | 86.6 | 13.4 |
| Nyamasheke | 4.8 | 95.2 | 4.0 | 96.0 | 66.7 | 33.3 | 5.0 | 95.0 | 4.0 | 96.0 | 80.0 | 20.0 | 2.9 | 97.1 | 1.5 | 98.5 | 94.5 | 5.5 |
| Rulindo | 3.1 | 96.9 | 3.0 | 97.0 | 4.2 | 95.8 | 3.0 | 97.0 | 2.8 | 97.2 | 16.7 | 83.3 | 1.3 | 98.7 | 1.2 | 98.8 | 50.0 | 50.0 |
| Gakenke | 1.5 | 98.5 | 1.5 | 98.5 | - | - | 1.8 | 98.2 | 1.8 | 98.2 | - | - | 0.3 | 99.7 | 0.3 | 99.7 | - | - |
| Musanze | 0.4 | 99.6 | 0.4 | 99.6 | - | 100.0 | 0.4 | 99.6 | 0.4 | 99.6 | - | 100.0 | 0.0 | 100.0 | 0.0 | 100.0 | - | 100.0 |
| Burera | - | 100.0 | - | 100.0 | - | - | - | 100.0 | - | 100.0 | - | - | - | 100.0 | - | 100.0 | - | - |
| Gicumbi | 1.7 | 98.3 | 1.7 | 98.3 | - | 100.0 | 1.7 | 98.3 | 1.7 | 98.3 | - | 100.0 | 0.7 | 99.3 | 0.7 | 99.3 | - | 100.0 |
| Rwamagana | 9.5 | 90.5 | 7.9 | 92.1 | 14.5 | 85.5 | 9.7 | 90.3 | 8.2 | 91.8 | 36.4 | 63.6 | 5.6 | 94.4 | 4.7 | 95.3 | 58.6 | 41.4 |
| Nyagatare | 3.4 | 96.6 | 0.6 | 99.4 | 45.9 | 54.1 | 1.7 | 98.3 | 0.5 | 99.5 | 52.4 | 47.6 | 4.2 | 95.8 | 0.6 | 99.4 | 92.2 | 7.8 |
| Gatsibo | 1.8 | 98.2 | 1.2 | 98.8 | 12.8 | 87.2 | 1.8 | 98.2 | 1.3 | 98.7 | 26.7 | 73.3 | 3.3 | 96.7 | 0.7 | 99.3 | 71.0 | 29.0 |
| Kayonza | 3.4 | 96.6 | 1.2 | 98.8 | 15.5 | 84.5 | 2.2 | 97.8 | 1.4 | 98.6 | 40.0 | 60.0 | 3.3 | 96.7 | 1.2 | 98.8 | 73.8 | 26.2 |
| Kirehe | 2.8 | 97.2 | 1.4 | 98.6 | 92.3 | 7.7 | 2.7 | 97.3 | 1.6 | 98.4 | 88.9 | 11.1 | 4.4 | 95.6 | 0.4 | 99.6 | 99.2 | 0.8 |
| Ngoma | 2.4 | 97.6 | 0.8 | 99.2 | 18.9 | 81.1 | 3.0 | 97.0 | 0.9 | 99.1 | 58.3 | 41.7 | 2.0 | 98.0 | 0.5 | 99.5 | 77.1 | 22.9 |
| Bugesera | 8.0 | 92.0 | 2.2 | 97.8 | 20.4 | 79.6 | 5.1 | 94.9 | 2.3 | 97.7 | 35.3 | 64.7 | 3.9 | 96.1 | 1.4 | 98.6 | 53.0 | 47.0 |
| National | 3.4 | 96.6 | 2.3 | 97.7 | 21.7 | 78.3 | 3.1 | 96.9 | 2.3 | 97.7 | 47.0 | 53.0 | 2.8 | 97.2 | 1.2 | 98.8 | 72.4 | 27.6 |

Source: NISR, SAS 2019

Table 49: Season B 2019_ Irrigation practice by farmer type per district

| District | Percentage of plots | | | | | | Percentage of farmers | | | | | | Percentage of land | | | | | |
|-----------------|---------------------|-------------|------------|-------------|-------------|-------------|-----------------------|-------------|------------|-------------|-------------|-------------|--------------------|-------------|------------|-------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 3.4 | 96.6 | 3.4 | 96.6 | - | - | 3.6 | 96.4 | 3.6 | 96.4 | - | -- | 3.3 | 96.7 | 3.3 | 96.7 | - | - |
| Gasabo | 2.9 | 97.1 | 1.8 | 98.2 | 12.8 | 87.2 | 3.6 | 96.4 | 2.2 | 97.9 | 50.0 | 50.0 | 2.8 | 97.2 | 1.6 | 98.4 | 61.7 | 38.3 |
| Kicukiro | 4.8 | 95.2 | 4.8 | 95.2 | - | 100 | 5.4 | 94.7 | 5.4 | 94.6 | - | 100.0 | 4.7 | 95.3 | 4.7 | 95.3 | - | 100.0 |
| Nyanza | 10 | 90 | 8.6 | 91.4 | 50 | 50 | 11.6 | 88.4 | 10.2 | 89.8 | 85.7 | 14.3 | 5.7 | 94.3 | 4.1 | 95.9 | 94.3 | 5.7 |
| Gisagara | 10.2 | 89.8 | 8.3 | 91.7 | 61.1 | 38.9 | 10.9 | 89.1 | 8.7 | 91.3 | 73.3 | 26.7 | 9.8 | 90.2 | 3.0 | 97.0 | 87.7 | 12.3 |
| Nyaruguru | 1.1 | 98.9 | 0.8 | 99.2 | 100 | - | 1.3 | 98.7 | 1.0 | 99.0 | 100.0 | - | 0.9 | 99.1 | 0.7 | 99.3 | 100.0 | - |
| Huye | 8.6 | 91.4 | 5.1 | 94.9 | 66.7 | 33.3 | 9.7 | 90.3 | 5.8 | 94.2 | 94.4 | 5.6 | 7.7 | 92.3 | 3.9 | 96.1 | 94.5 | 5.5 |
| Nyamagabe | 3.9 | 96.2 | 3.9 | 96.1 | - | 100 | 4.7 | 95.3 | 4.7 | 95.3 | - | 100.0 | 0.9 | 99.1 | 1.0 | 99.0 | - | 100.0 |
| Ruhango | 7.9 | 92.1 | 6.9 | 93.1 | 30.4 | 69.6 | 8.6 | 91.4 | 7.2 | 92.8 | 70.0 | 30.0 | 4.2 | 95.8 | 1.9 | 98.1 | 92.8 | 7.2 |
| Muhanga | 0.8 | 99.2 | 0.4 | 99.6 | 100 | - | 1.0 | 99.1 | 0.5 | 99.5 | 100.0 | - | 0.4 | 99.6 | 0.1 | 99.9 | 100.0 | - |
| Kamonyi | 2.7 | 97.3 | 2.3 | 97.7 | 50 | 50 | 3.2 | 96.8 | 2.7 | 97.3 | 50.0 | 50.0 | 2.4 | 97.6 | 2.0 | 98.0 | 80.9 | 19.1 |
| Karongi | 0.8 | 99.2 | 0.8 | 99.2 | - | 100 | 1.0 | 99.0 | 1.0 | 99.0 | - | 100.0 | 0.7 | 99.3 | 0.7 | 99.3 | - | 100.0 |
| Rutsiro | 0.9 | 99.1 | 0.9 | 99.1 | - | - | 1.1 | 98.9 | 1.1 | 98.9 | - | - | 0.6 | 99.4 | 0.6 | 99.4 | - | - |
| Rubavu | - | 100 | - | 100 | - | 100 | - | 100.0 | - | 100.0 | - | 100.0 | - | 100.0 | - | 100.0 | - | 100.0 |
| Nyabihu | 0.3 | 99.7 | 0.3 | 99.7 | - | - | 0.3 | 99.7 | 0.3 | 99.7 | - | - | 0.2 | 99.8 | 0.2 | 99.8 | - | - |
| Ngororero | - | 100 | - | 100 | - | - | - | 100.0 | - | 100.0 | - | - | - | 100.0 | - | 100.0 | - | - |
| Rusizi | 4.7 | 95.3 | 3.6 | 96.4 | 45.5 | 54.6 | 5.3 | 94.7 | 4.0 | 96.0 | 83.3 | 16.7 | 6.6 | 93.4 | 1.2 | 98.8 | 98.7 | 1.3 |
| Nyamasheke | 2.6 | 97.4 | 1.7 | 98.3 | 80 | 20 | 3.2 | 96.8 | 2.1 | 98.0 | 80.0 | 20.0 | 2.5 | 97.5 | 1.0 | 99.0 | 91.0 | 9.0 |
| Rulindo | 4.3 | 95.7 | 3.8 | 96.2 | 33.3 | 66.7 | 4.8 | 95.2 | 4.4 | 95.6 | 50.0 | 50.0 | 1.4 | 98.6 | 1.2 | 98.8 | 62.2 | 37.8 |
| Gakenke | 1.6 | 98.4 | 1.6 | 98.4 | - | - | 1.9 | 98.1 | 1.9 | 98.1 | - | - | 0.1 | 99.9 | 0.1 | 99.9 | - | - |
| Musanze | 0.2 | 99.8 | 0.2 | 99.8 | - | 100 | 0.2 | 99.8 | 0.2 | 99.8 | - | 100.0 | 0.0 | 100.0 | 0.0 | 100.0 | - | 100.0 |
| Burera | 0.2 | 99.8 | 0.2 | 99.8 | - | - | 0.2 | 99.8 | 0.2 | 99.8 | - | - | 0.0 | 100.0 | 0.0 | 100.0 | - | - |
| Gicumbi | 0.4 | 99.6 | 0.4 | 99.6 | - | 100 | 0.5 | 99.5 | 0.5 | 99.5 | - | 100.0 | 0.2 | 99.8 | 0.2 | 99.8 | - | 100.0 |
| Rwamagana | 7.8 | 92.2 | 6.3 | 93.7 | 14.7 | 85.3 | 8.6 | 91.4 | 6.4 | 93.6 | 47.6 | 52.4 | 5.1 | 94.9 | 4.4 | 95.6 | 50.6 | 49.4 |
| Nyagatare | 2.7 | 97.3 | 0.6 | 99.4 | 34.4 | 65.6 | 2.0 | 98.0 | 0.7 | 99.3 | 52.2 | 47.8 | 3.7 | 96.3 | 0.9 | 99.1 | 90.4 | 9.6 |
| Gatsibo | 2 | 98 | 0.8 | 99.2 | 26.8 | 73.2 | 2.0 | 98.0 | 1.0 | 99.0 | 50.0 | 50.0 | 3.0 | 97.0 | 0.3 | 99.7 | 90.0 | 10.0 |
| Kayonza | 2.9 | 97.2 | 0.6 | 99.4 | 18 | 82 | 2.0 | 98.0 | 0.5 | 99.5 | 73.3 | 26.7 | 3.0 | 97.0 | 0.7 | 99.3 | 87.1 | 12.9 |
| Kirehe | 2.4 | 97.6 | 1.2 | 98.8 | 68.8 | 31.3 | 2.5 | 97.5 | 1.4 | 98.6 | 90.0 | 10.0 | 3.5 | 96.5 | 0.2 | 99.8 | 98.9 | 1.1 |
| Ngoma | 3.6 | 96.5 | 1.7 | 98.4 | 25.8 | 74.2 | 4.3 | 95.7 | 1.9 | 98.1 | 80.0 | 20.0 | 2.6 | 97.4 | 0.8 | 99.2 | 94.9 | 5.1 |
| Bugesera | 6.7 | 93.3 | 1.7 | 98.3 | 24.6 | 75.4 | 5.2 | 94.8 | 1.4 | 98.6 | 42.9 | 57.1 | 3.2 | 96.8 | 0.7 | 99.3 | 68.5 | 31.5 |
| National | 3.4 | 96.6 | 2.3 | 97.7 | 27.8 | 72.2 | 3.5 | 96.5 | 2.5 | 97.5 | 62.0 | 38.0 | 2.8 | 97.2 | 1.1 | 98.9 | 87.0 | 13.0 |

Source: NISR, SAS 2019

Table 50: Season C 2019_ irrigation practice per district

| District | Percentage of plots | | Percentage of farmers | | Percentage of land size | |
|-----------------|---------------------|-------------|-----------------------|-------------|-------------------------|-------------|
| | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 60.0 | 40.0 | 60.0 | 40.0 | 44.5 | 55.5 |
| Gasabo | 56.5 | 43.5 | 56.5 | 43.5 | 75.5 | 24.5 |
| Nyanza | 52.2 | 47.8 | 51.5 | 48.5 | 55.2 | 44.8 |
| Gisagara | 30.5 | 69.5 | 32.0 | 68.0 | 30.4 | 69.6 |
| Nyaruguru | 11.0 | 89.0 | 11.3 | 88.7 | 8.8 | 91.2 |
| Huye | 44.9 | 55.1 | 45.8 | 54.2 | 45.1 | 54.9 |
| Nyamagabe | 15.8 | 84.2 | 15.3 | 84.7 | 16.3 | 83.7 |
| Ruhango | 35.7 | 64.3 | 39.5 | 60.5 | 39.8 | 60.2 |
| Muhanga | 5.7 | 94.3 | 5.9 | 94.1 | 6.1 | 93.9 |
| Kamonyi | 62.5 | 37.5 | 61.3 | 38.7 | 85.9 | 14.1 |
| Karongi | 26.9 | 73.1 | 26.9 | 73.1 | 27.6 | 72.4 |
| Rutsiro | 6.8 | 93.2 | 8.1 | 91.9 | 21.8 | 78.2 |
| Rubavu | 3.3 | 96.7 | 3.4 | 96.6 | 1.2 | 98.8 |
| Nyabihu | 1.3 | 98.7 | 1.4 | 98.6 | 0.7 | 99.3 |
| Ngororero | 0.0 | 100.0 | 0.0 | 100.0 | 0.0 | 100.0 |
| Rusizi | 26.9 | 73.1 | 28.0 | 72.0 | 20.4 | 79.6 |
| Nyamasheke | 100.0 | 0.0 | 100.0 | 0.0 | 100.0 | - |
| Rulindo | 75.0 | 25.0 | 75.0 | 25.0 | 90.5 | 9.5 |
| Gakenke | 50.0 | 50.0 | 48.6 | 51.4 | 59.5 | 40.5 |
| Musanze | 8.3 | 91.7 | 8.6 | 91.4 | 3.3 | 96.7 |
| Burera | 3.1 | 96.9 | 3.3 | 96.7 | 15.5 | 84.5 |
| Gicumbi | 73.3 | 26.7 | 73.7 | 26.3 | 77.4 | 22.6 |
| Rwamagana | 81.8 | 18.2 | 81.0 | 19.0 | 83.4 | 16.6 |
| Nyagatare | 23.1 | 76.9 | 25.0 | 75.0 | 25.1 | 74.9 |
| Gatsibo | 54.5 | 45.5 | 53.8 | 46.2 | 38.9 | 61.1 |
| Kayonza | 100.0 | 0.0 | 100.0 | 0.0 | 100.0 | - |
| Kirehe | 60.0 | 40.0 | 57.1 | 42.9 | 83.7 | 16.3 |
| Bugesera | 10.6 | 89.4 | 8.6 | 91.4 | 11.7 | 88.3 |
| National | 26.1 | 73.9 | 26.4 | 73.6 | 21.3 | 78.7 |

Source: NISR, SAS 2019

Table 51: Percentage of plots by irrigation type, per season and district in 2019

| District | Types of irrigation used | | | | | | | | | | | | |
|-----------------|--------------------------|-------------|----------|------------------|-------------|-----------------|------------|----------------------|------------|----------|------------------------|-------------|----------|
| | Surface irrigation | | | Flood irrigation | | Drip irrigation | | Sprinkler irrigation | | | Traditional techniques | | |
| | Season A | Season B | Season C | Season A | Season B | Season A | Season B | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | 12.5 | 38.9 | 0 | - | 0 | - | 5.6 | - | 0 | 0 | 87.5 | 55.6 | 100 |
| Gasabo | 4.8 | 0 | 19 | 14.3 | 26.7 | - | 6.7 | - | 0 | 0 | 81 | 66.7 | 81 |
| Kicukiro | 25 | 0 | | - | 0 | - | 0 | 6.3 | 0 | | 68.8 | 100 | |
| Nyanza | 7.5 | 3.9 | 0 | 20 | 35.5 | - | 0 | 2.5 | 0 | 0 | 70 | 60.5 | 100 |
| Gisagara | 4.8 | 3.6 | 17.1 | 46.8 | 85.5 | - | 0 | - | 0 | 0 | 48.4 | 10.9 | 82.9 |
| Nyaruguru | - | 50 | 0 | 50 | 0 | - | 0 | - | 0 | 0 | 50 | 50 | 100 |
| Huye | 6.4 | 4.3 | 0 | 61.7 | 69.6 | - | 0 | - | 0 | 0 | 31.9 | 26.1 | 100 |
| Nyamagabe | 28.6 | 28.6 | 0 | - | 0 | - | 0 | - | 0 | 0 | 71.4 | 71.4 | 100 |
| Ruhango | 21.4 | 14.3 | 0 | 42.9 | 54.8 | - | 0 | - | 0 | 0 | 35.7 | 31 | 100 |
| Muhanga | 10 | 0 | 0 | 20 | 75 | - | 0 | - | 0 | 0 | 70 | 25 | 100 |
| Kamonyi | - | 0 | 0 | 22.2 | 13.3 | - | 0 | - | 0 | 3 | 77.8 | 86.7 | 97 |
| Karongi | - | 0 | 30 | - | 0 | - | 0 | - | 0 | 0 | 100 | 100 | 70 |
| Rutsiro | - | 0 | 50 | - | 0 | - | 0 | - | 0 | 0 | - | 100 | 50 |
| Rubavu | - | | 0 | - | - | - | - | - | - | 0 | - | - | 100 |
| Nyabihu | - | 0 | 0 | - | 0 | - | 0 | - | - | 0 | - | 100 | 100 |
| Ngororero | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rusizi | - | 9.5 | 0 | 75 | 57.1 | - | 0 | - | - | 0 | - | 33.3 | 100 |
| Nyamasheke | 40.9 | 23.1 | 0 | 18.2 | 30.8 | - | 0 | - | 0 | 0 | - | 46.2 | 100 |
| Rulindo | - | 32.1 | 31.8 | - | 3.6 | - | 7.1 | 5.9 | 7.1 | 0 | - | 50 | 68.2 |
| Gakenke | - | 0 | 5.7 | - | 0 | - | 0 | - | 0 | 0 | 100 | 100 | 94.3 |
| Musanze | 100 | 0 | 0 | - | 0 | - | 0 | - | 0 | 0 | - | 100 | 100 |
| Burera | 0 | 0 | - | 0 | - | 0 | - | 0 | 0 | 0 | - | 100 | 100 |
| Gicumbi | - | 0 | 0 | - | 0 | - | 0 | - | 0 | 0 | 100 | 100 | 100 |
| Rwamagana | - | 1.9 | 0 | - | 7.4 | 3.5 | 3.7 | - | 0 | 0 | 64.9 | 87 | 100 |
| Nyagatare | 2.9 | 24.2 | 0 | - | 21.2 | 26.5 | 9.1 | - | 30.3 | 0 | 14.7 | 15.2 | 100 |
| Gatsibo | 18.8 | 0 | 3.3 | 25 | 15.8 | - | 15.8 | - | 36.8 | 0 | 56.3 | 31.6 | 96.7 |
| Kayonza | 27.6 | 10.7 | 0 | 17.2 | 17.9 | - | 0 | 24.1 | 50 | 0 | 31 | 21.4 | 100 |
| Kirehe | 13 | 18.2 | 0 | 21.7 | 18.2 | - | 0 | 26.1 | 18.2 | 0 | 39.1 | 45.5 | 100 |
| Ngoma | 20 | 35.7 | - | 50 | 57.1 | - | 7.1 | - | 0 | - | 30 | 0 | - |
| Bugesera | 2.1 | 2.7 | - | 18.8 | 32.4 | 27.1 | 21.6 | 29.2 | 24.3 | - | 22.9 | 18.9 | - |
| National | 9.3 | 10.6 | - | 27.4 | 32.2 | 4.4 | 3.4 | 7.96 | 7.5 | - | 50.9 | 46.3 | - |

Source: NISR, SAS 2019

Table 52: Percentage of irrigated plots by crop type, irrigation type per season in 2019

| Crop name | Surface irrigation | | | Flood irrigation | | Drip irrigation | | Sprinkler irrigation | | | Tradition techniques | | |
|-----------------|--------------------|-------------|------------|------------------|-------------|-----------------|------------|----------------------|------------|------------|----------------------|-------------|-------------|
| | Season A | Season B | Season C | Season A | Season B | Season A | Season B | Season A | Season B | Season C | Season A | Season B | Season C |
| Fruits | - | 5.9 | | - | - | 20.0 | 41.2 | 13.3 | 47.1 | | 66.7 | 5.9 | - |
| Vegetables | 7.9 | 9.3 | 6.3 | 0.4 | - | 6.8 | 2.1 | 8.9 | 4.6 | 0.3 | 76.1 | 84.0 | 93.5 |
| Other crops | - | - | | 20.0 | - | 10.0 | 27.3 | 25.0 | 27.3 | | 45.0 | 45.5 | - |
| Other cereals | | - | | | - | | - | | 100.0 | | | - | - |
| Maize | 12.9 | 15.0 | | - | - | - | 10.0 | 10.0 | 35.0 | | 77.1 | 40.0 | - |
| Paddy rice | 9.6 | 8.5 | | 86.9 | 88.8 | - | - | - | - | | 3.5 | 2.7 | - |
| Sorghum | | - | | | - | | - | | 100.0 | | | - | - |
| Bush bean | 7.7 | 37.5 | 3.8 | - | - | - | - | 23.1 | 37.5 | - | 69.2 | 25.0 | 96.2 |
| Climbing bean | - | - | - | - | - | - | 50.0 | - | - | - | 100.0 | 50.0 | 100.0 |
| Pea | | - | - | | - | | - | | - | | | 100.0 | 100.0 |
| Irish potato | - | 19.2 | 1.2 | - | - | - | 7.7 | - | 11.5 | - | 100.0 | 61.5 | 98.8 |
| Sweet potato | 15.4 | 40.0 | 8.7 | - | - | - | - | - | - | - | 84.6 | 60.0 | 91.3 |
| Soybean | - | 45.5 | - | - | - | - | - | 75.0 | 54.5 | - | 25.0 | - | 100.0 |
| Groundnut | - | - | - | - | | - | - | - | - | - | 100.0 | - | - |
| Cassava | - | -- | | - | - | - | - | - | - | - | 100.0 | - | - |
| Taro | 25.0 | 50.0 | - | - | - | - | - | - | - | - | 75.0 | 50.0 | - |
| Cooking banana | 33.3 | - | - | - | - | - | - | 66.7 | 100.0 | - | - | - | - |
| Dessert banana | - | - | - | - | - | - | - | - | - | - | 100.0 | - | - |
| National | 8.5 | 10.6 | 5.3 | 27.4 | 32.2 | 3.7 | 3.4 | 7.3 | 7.5 | 0.2 | 53.0 | 46.3 | 94.5 |

Source: NISR, SAS 2019

Table 53: Percentage of plots by source of water used for irrigation, per season and district in 2019

| District | Rainwater | | | Water treatment | | | Underground | | | Lake / streams | | | Water catchment | | | Other sources | |
|-----------------|------------|------------|------------|-----------------|------------|------------|-------------|-------------|-------------|----------------|-------------|-------------|-----------------|------------|------------|---------------|------------|
| | 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 |
| Nyarugenge | 12.5 | - | - | - | 16.7 | - | 62.5 | 33.3 | - | 25.0 | 38.9 | 100.0 | - | - | 11.1 | - | - |
| Gasabo | - | 20.0 | - | 9.5 | - | - | 47.6 | 46.7 | 9.5 | 23.8 | 26.7 | 76.2 | 19.1 | - | 14.3 | - | 6.7 |
| Kicukiro | - | - | - | 6.3 | - | - | 12.5 | 5.3 | - | 81.3 | 94.7 | - | - | - | - | - | - |
| Nyanza | - | - | - | - | - | - | 20.0 | 22.4 | 49.3 | 72.5 | 69.7 | 47.8 | 7.5 | 7.9 | 3.0 | - | - |
| Gisagara | - | - | - | 1.6 | - | - | 17.7 | 30.9 | 51.4 | 61.3 | 56.4 | 48.6 | 17.7 | 12.7 | - | 1.6 | - |
| Nyaruguru | - | - | - | - | - | - | 50.0 | 33.3 | 33.3 | 50.0 | 66.7 | 66.7 | - | - | - | - | - |
| Huye | - | - | - | 2.1 | - | - | 59.6 | 56.5 | 85.2 | 25.5 | 30.4 | 14.8 | 12.8 | 13.0 | - | - | - |
| Nyamagabe | 14.3 | 4.8 | - | - | - | - | 71.4 | 66.7 | 90.5 | 14.3 | 28.6 | 9.5 | - | - | - | - | - |
| Ruhango | - | - | - | 7.1 | - | - | 14.3 | 76.2 | 24.0 | 71.4 | 21.4 | 76.0 | 7.1 | 2.4 | - | - | - |
| Muhanga | - | - | - | - | - | - | 50.0 | 50.0 | 80.0 | 30.0 | - | 20.0 | 20.0 | 50.0 | - | - | - |
| Kamonyi | - | - | - | - | - | - | 44.4 | 20.0 | 21.2 | 44.4 | 80.0 | 78.8 | 11.1 | - | - | - | - |
| Karongi | - | - | - | - | - | - | 54.6 | - | 40.0 | 45.5 | 100.0 | 60.0 | - | - | - | - | - |
| Rutsiro | - | - | - | - | - | - | 60.0 | - | - | 40.0 | 100.0 | - | - | - | - | - | - |
| Rubavu | - | - | - | - | - | 100.0 | - | - | - | - | - | - | - | - | - | - | - |
| Nyabihu | - | - | - | - | - | - | 100.0 | 100.0 | - | - | - | - | - | - | - | - | - |
| Ngororero | - | - | - | - | - | - | 100.0 | - | - | - | - | - | - | - | - | - | - |
| Rusizi | - | 4.8 | - | - | - | - | 18.8 | 9.5 | - | 75.0 | 85.7 | 100.0 | 6.3 | - | - | - | - |
| Nyamasheke | - | - | - | 4.6 | - | - | 13.6 | - | - | 81.8 | 100.0 | 100.0 | - | - | - | 385.0 | - |
| Rulindo | - | - | - | - | - | - | 82.4 | 17.9 | - | 11.8 | 50.0 | 90.9 | 5.9 | 32.1 | 9.1 | - | - |
| Gakenke | - | - | - | - | - | - | 50.0 | 14.3 | 5.7 | 50.0 | 85.7 | 94.3 | - | - | - | - | - |
| Musanze | - | - | - | - | - | - | - | - | - | 100.0 | 100.0 | 100.0 | - | - | - | - | - |
| Burera | - | - | - | - | - | - | 100.0 | 80.0 | - | - | 20.0 | - | - | - | - | - | - |
| Gicumbi | - | - | - | - | 66.7 | - | 33.3 | - | - | 66.7 | 33.3 | 100.0 | - | - | - | - | - |
| Rwamagana | 3.5 | 7.4 | - | 10.5 | 14.8 | - | 21.1 | 27.8 | 38.1 | 54.4 | 40.7 | 61.9 | 10.5 | 7.4 | - | - | 1.9 |
| Nyagatare | - | - | - | 2.9 | 6.1 | - | 8.8 | 6.1 | - | 38.2 | 48.5 | 66.7 | 50.0 | 39.4 | 33.3 | - | - |
| Gatsibo | - | - | - | 12.5 | - | - | 12.5 | 42.1 | 16.7 | 31.3 | 42.1 | 83.3 | 43.8 | 15.8 | - | - | - |
| Kayonza | 3.5 | - | 14.3 | - | - | - | 6.9 | 10.7 | - | 62.1 | 85.7 | 85.7 | 27.6 | 3.6 | - | - | - |
| Kirehe | - | - | - | - | - | - | 30.4 | 13.6 | 90.9 | 60.9 | 86.4 | 9.1 | 8.7 | - | - | - | |
| Ngoma | - | - | - | 10.0 | - | - | 20.0 | - | - | 50.0 | 100.0 | - | 20.0 | - | - | - | - |
| Bugesera | - | - | - | - | - | - | 10.4 | - | - | 83.3 | - | 100.0 | 6.3 | - | - | - | - |
| National | 0.9 | 1.5 | 0.2 | 3.2 | 2.6 | 0.2 | 27.6 | 28.5 | 30.4 | 54.3 | 57.6 | 67.5 | 13.9 | 9.6 | 1.6 | 0.2 | 0.3 |

Source: NISR, SAS 2019

Table 54: Season A 2019 Practice of erosion control measures by farmer type per district (in percentage)

| District | Percentage of plots | | | | | | | | Percentage of farmers | | | | | | | | Percentage of land size | | | | | | | |
|-----------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 47.0 | 53.0 | 47.0 | 53.0 | - | - | 47.3 | 52.7 | 47.3 | 52.7 | - | - | 59.5 | 40.5 | 59.5 | 40.5 | - | - | 59.5 | 40.5 | 59.5 | 40.5 | - | - |
| Gasabo | 72.8 | 27.2 | 73.5 | 26.5 | 69.3 | 69.3 | 72.4 | 27.6 | 72.6 | 27.4 | 66.7 | 33.3 | 81.0 | 19.0 | 80.9 | 19.1 | 82.9 | 17.1 | 81.0 | 19.0 | 80.9 | 19.1 | 82.9 | 17.1 |
| Kicukiro | 67.9 | 32.1 | 67.6 | 32.4 | 72.2 | 72.2 | 66.9 | 33.1 | 66.8 | 33.2 | 75.0 | 25.0 | 80.6 | 19.4 | 80.6 | 19.4 | 75.9 | 24.1 | 80.6 | 19.4 | 80.6 | 19.4 | 75.9 | 24.1 |
| Nyanza | 83.6 | 16.4 | 83.2 | 16.8 | 94.1 | 94.1 | 84.4 | 15.6 | 84.3 | 15.7 | 85.7 | 14.3 | 81.1 | 18.9 | 81.6 | 18.4 | 61.4 | 38.6 | 81.1 | 18.9 | 81.6 | 18.4 | 61.4 | 38.6 |
| Gisagara | 74.5 | 25.5 | 73.3 | 26.7 | 100.0 | 100.0 | 74.9 | 25.1 | 73.9 | 26.1 | 100.0 | 0.0 | 82.6 | 17.4 | 80.6 | 19.4 | 100.0 | - | 82.6 | 17.4 | 80.6 | 19.4 | 100.0 | - |
| Nyaruguru | 95.3 | 4.7 | 95.3 | 4.7 | 100.0 | 100.0 | 95.0 | 5.0 | 94.9 | 5.1 | 100.0 | 0.0 | 97.1 | 2.9 | 97.1 | 2.9 | 100.0 | - | 97.1 | 2.9 | 97.1 | 2.9 | 100.0 | - |
| Huye | 86.2 | 13.8 | 85.4 | 14.6 | 96.8 | 96.8 | 84.9 | 15.1 | 84.1 | 15.9 | 100.0 | 0.0 | 89.0 | 11.0 | 88.4 | 11.6 | 99.9 | 0.1 | 89.0 | 11.0 | 88.4 | 11.6 | 99.9 | 0.1 |
| Nyamagabe | 90.3 | 9.7 | 90.2 | 9.8 | 100.0 | 100.0 | 91.1 | 8.9 | 91.0 | 9.0 | 100.0 | 0.0 | 91.8 | 8.2 | 91.8 | 8.2 | 100.0 | - | 91.8 | 8.2 | 91.8 | 8.2 | 100.0 | - |
| Ruhango | 82.7 | 17.3 | 82.0 | 18.0 | 100.0 | 100.0 | 82.0 | 18.0 | 81.5 | 18.5 | 100.0 | 0.0 | 84.4 | 15.6 | 83.9 | 16.1 | 100.0 | - | 84.4 | 15.6 | 83.9 | 16.1 | 100.0 | - |
| Muhanga | 87.8 | 12.2 | 87.9 | 12.1 | 85.0 | 85.0 | 88.2 | 11.8 | 88.3 | 11.7 | 80.0 | 20.0 | 88.3 | 11.7 | 88.2 | 11.8 | 91.0 | 9.0 | 88.3 | 11.7 | 88.2 | 11.8 | 91.0 | 9.0 |
| Kamonyi | 84.2 | 15.8 | 85.0 | 15.0 | 75.0 | 75.0 | 85.2 | 14.8 | 85.2 | 14.8 | 85.7 | 14.3 | 87.8 | 12.2 | 87.7 | 12.3 | 94.4 | 5.6 | 87.8 | 12.2 | 87.7 | 12.3 | 94.4 | 5.6 |
| Karongi | 81.7 | 18.3 | 81.6 | 18.4 | 100.0 | 100.0 | 80.5 | 19.5 | 80.5 | 19.5 | 100.0 | 0.0 | 86.3 | 13.7 | 86.3 | 13.7 | 100.0 | - | 86.3 | 13.7 | 86.3 | 13.7 | 100.0 | - |
| Rutsiro | 85.4 | 14.6 | 85.4 | 14.6 | - | - | 84.2 | 15.8 | 84.2 | 15.8 | - | - | 91.1 | 8.9 | 91.1 | 8.9 | 8.9 | - | 91.1 | 8.9 | 91.1 | 8.9 | 8.9 | - |
| Rubavu | 88.4 | 11.7 | 89.8 | 10.2 | 30.0 | - | 88.7 | 11.3 | 89.0 | 11.0 | 50.0 | 50.0 | 89.6 | 10.4 | 89.7 | 10.3 | 41.6 | 58.4 | 89.6 | 10.4 | 89.7 | 10.3 | 41.6 | 58.4 |
| Nyabihu | 86.4 | 13.6 | 86.4 | 13.6 | - | - | 86.5 | 13.5 | 86.5 | 13.5 | - | - | 92.9 | 7.1 | 92.9 | 7.1 | 7.1 | - | 92.9 | 7.1 | 92.9 | 7.1 | 7.1 | - |
| Ngororero | 85.9 | 14.1 | 85.9 | 14.1 | - | - | 85.9 | 14.1 | 85.9 | 14.1 | - | - | 89.8 | 10.2 | 89.8 | 10.2 | 10.2 | - | 89.8 | 10.2 | 89.8 | 10.2 | 10.2 | - |
| Rusizi | 55.5 | 44.5 | 55.7 | 44.3 | 50.0 | 50.0 | 54.6 | 45.4 | 54.2 | 45.8 | 83.3 | 16.7 | 62.0 | 38.0 | 60.0 | 40.0 | 98.9 | 1.1 | 62.0 | 38.0 | 60.0 | 40.0 | 98.9 | 1.1 |
| Nyamasheke | 65.7 | 34.3 | 65.3 | 34.7 | 100.0 | 100.0 | 65.2 | 34.8 | 64.7 | 35.3 | 100.0 | 0.0 | 63.9 | 36.1 | 63.4 | 36.6 | 100.0 | - | 63.9 | 36.1 | 63.4 | 36.6 | 100.0 | - |
| Rulindo | 92.6 | 7.4 | 92.4 | 7.6 | 95.8 | 95.8 | 92.9 | 7.1 | 92.8 | 7.2 | 100.0 | 0.0 | 95.7 | 4.3 | 95.7 | 4.3 | 99.2 | 0.8 | 95.7 | 4.3 | 95.7 | 4.3 | 99.2 | 0.8 |
| Gakenke | 98.7 | 1.3 | 98.7 | 1.3 | - | - | 98.9 | 1.1 | 98.9 | 1.1 | - | - | 99.4 | 0.6 | 99.4 | 0.6 | 0.6 | - | 99.4 | 0.6 | 99.4 | 0.6 | 0.6 | - |
| Musanze | 83.6 | 16.4 | 83.5 | 16.5 | 100.0 | - | 83.1 | 16.9 | 83.1 | 16.9 | 100.0 | 0.0 | 84.5 | 15.5 | 84.5 | 15.5 | 100.0 | - | 84.5 | 15.5 | 84.5 | 15.5 | 100.0 | - |
| Burera | 90.8 | 9.2 | 90.8 | 9.2 | - | - | 90.3 | 9.7 | 90.3 | 9.7 | - | - | 92.6 | 7.4 | 92.6 | 7.4 | 7.4 | - | 92.6 | 7.4 | 92.6 | 7.4 | 7.4 | - |
| Gicumbi | 95.7 | 4.3 | 95.7 | 4.3 | 100.0 | - | 95.2 | 4.8 | 95.2 | 4.8 | 100.0 | 0.0 | 95.9 | 4.1 | 95.9 | 4.1 | 100.0 | - | 95.9 | 4.1 | 95.9 | 4.1 | 100.0 | - |
| Rwamagana | 71.3 | 28.7 | 75.3 | 24.7 | 58.6 | 58.6 | 76.1 | 23.9 | 75.7 | 24.3 | 81.8 | 18.2 | 76.5 | 23.5 | 76.4 | 23.6 | 78.7 | 21.3 | 81.8 | 18.2 | 76.5 | 23.5 | 76.4 | 23.6 |
| Nyagatare | 44.2 | 55.8 | 42.9 | 57.1 | 63.9 | 63.9 | 42.5 | 57.5 | 41.7 | 58.3 | 76.2 | 23.8 | 45.6 | 54.4 | 44.2 | 55.8 | 79.6 | 20.4 | 76.2 | 23.8 | 45.6 | 54.4 | 44.2 | 55.8 |
| Gatsibo | 61.2 | 38.8 | 60.6 | 39.4 | 72.3 | 72.3 | 61.8 | 38.2 | 61.2 | 38.8 | 86.7 | 13.3 | 72.0 | 28.0 | 71.0 | 29.0 | 99.1 | 0.9 | 86.7 | 13.3 | 72.0 | 28.0 | 71.0 | 29.0 |
| Kayonza | 40.9 | 59.1 | 41.3 | 58.7 | 38.8 | 38.8 | 41.5 | 58.5 | 40.8 | 59.2 | 73.3 | 26.7 | 48.3 | 51.7 | 47.6 | 52.4 | 71.3 | 28.7 | 73.3 | 26.7 | 48.3 | 51.7 | 47.6 | 52.4 |
| Kirehe | 51.3 | 48.7 | 51.2 | 48.8 | 53.8 | 53.8 | 49.7 | 50.3 | 49.4 | 50.6 | 77.8 | 22.2 | 63.5 | 36.5 | 64.0 | 36.0 | 51.2 | 48.8 | 77.8 | 22.2 | 63.5 | 36.5 | 64.0 | 36.0 |
| Ngoma | 71.1 | 28.9 | 69.0 | 31.0 | 91.9 | 91.9 | 69.8 | 30.2 | 69.3 | 30.7 | 83.3 | 16.7 | 75.5 | 24.5 | 75.4 | 24.6 | 77.9 | 22.1 | 83.3 | 16.7 | 75.5 | 24.5 | 75.4 | 24.6 |
| Bugesera | 34.4 | 65.6 | 28.8 | 71.2 | 46.6 | 46.6 | 29.0 | 71.0 | 26.8 | 73.2 | 52.9 | 47.1 | 34.0 | 66.0 | 32.7 | 67.3 | 57.4 | 42.6 | 34.0 | 66.0 | 32.7 | 67.3 | 57.4 | 42.6 |
| National | 72.4 | 27.6 | 73.0 | 27.0 | 63.5 | 63.5 | 72.5 | 27.5 | 72.4 | 27.6 | 80.8 | 19.2 | 76.3 | 23.7 | 76.2 | 23.8 | 82.1 | 17.9 | 82.1 | 17.9 | 82.1 | 17.9 | 82.1 | 17.9 |

Source: NISR, SAS 2019

Table 55: Season B 2019 Practice of erosion control measures by farmer type per district (in percentage)

| District | Percentage of plots | | | | | | Percentage of farmers | | | | | | Percentage of land size | | | | | |
|-----------------|---------------------|-------------|-------------|-------------|-------------|-------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-----------|-------------|-------------|-------------|-------------|
| | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | | Overall | | SSF | | LSF | |
| | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 65.3 | 34.7 | 65.3 | 34.7 | - | -- | 67.3 | 32.7 | 67.3 | 32.7 | - | - | 69.6 | 30.4 | 69.6 | 30.4 | | |
| Gasabo | 57.1 | 42.9 | 58.3 | 41.7 | 46.2 | 53.9 | 62.2 | 37.8 | 61.0 | 39.0 | 100 | - | 64.4 | 35.6 | 64.2 | 35.8 | 74.8 | 25.2 |
| Kicukiro | 52.7 | 47.3 | 52.7 | 47.3 | 50 | 50 | 57.2 | 42.8 | 57.0 | 43.0 | 100 | - | 65.3 | 34.7 | 65.3 | 34.7 | 59.5 | 40.5 |
| Nyanza | 82.7 | 17.3 | 82.4 | 17.6 | 93.8 | 6.3 | 84.3 | 15.7 | 84.3 | 15.7 | 85.7 | 14.3 | 84.3 | 15.7 | 84.2 | 15.8 | 89.3 | 10.7 |
| Gisagara | 71.3 | 28.7 | 70.4 | 29.6 | 94.4 | 5.6 | 72.3 | 27.7 | 71.3 | 28.7 | 100 | - | 79.3 | 20.7 | 77.5 | 22.5 | 100 | 0 |
| Nyaruguru | 88.4 | 11.6 | 88.4 | 11.7 | 100 | - | 88.5 | 11.5 | 88.5 | 11.5 | 100 | - | 91.8 | 8.2 | 91.8 | 8.2 | 100 | - |
| Huye | 87.6 | 12.4 | 86.8 | 13.2 | 100 | - | 87.9 | 12.1 | 87.3 | 12.7 | 100 | - | 88.3 | 11.7 | 87.8 | 12.2 | 100 | - |
| Nyamagabe | 93.7 | 6.3 | 93.6 | 6.4 | 100 | - | 94.5 | 5.5 | 94.5 | 5.5 | 100 | - | 94.6 | 5.4 | 94.6 | 5.4 | 100 | - |
| Ruhango | 85.5 | 14.5 | 85 | 15 | 95.7 | 4.4 | 86.2 | 13.8 | 85.9 | 14.1 | 100 | - | 87.2 | 12.8 | 86.9 | 13.1 | 100 | 0 |
| Muhanga | 90.2 | 9.8 | 90.1 | 9.9 | 100 | - | 90.3 | 9.7 | 90.2 | 9.8 | 100 | - | 94.7 | 5.3 | 94.7 | 5.3 | 100 | - |
| Kamonyi | 78.4 | 21.6 | 78.6 | 21.4 | 50 | 50 | 79.9 | 20.1 | 80.2 | 19.8 | 50.0 | 50.0 | 85.2 | 14.8 | 85.2 | 14.8 | 80.9 | 19.1 |
| Karongi | 82.3 | 17.7 | 82.3 | 17.7 | 100 | - | 85.0 | 15.0 | 85.0 | 15.0 | 100 | - | 87.2 | 12.8 | 87.1 | 12.9 | 100 | - |
| Rutsiro | 76.2 | 23.8 | 76.2 | 23.8 | - | - | 77.3 | 22.7 | 77.3 | 22.7 | - | - | 85.2 | 14.8 | 85.2 | 14.8 | | - |
| Rubavu | 89.8 | 10.2 | 90.4 | 9.6 | 25 | 75 | 90.3 | 9.7 | 90.3 | 9.7 | 100 | - | 92.2 | 7.8 | 92.3 | 7.7 | 4 | 96 |
| Nyabihu | 90.8 | 9.2 | 90.8 | 9.2 | - | - | 90.5 | 9.5 | 90.5 | 9.5 | - | - | 95.2 | 4.8 | 95.2 | 4.8 | | - |
| Ngororero | 93.8 | 6.2 | 93.8 | 6.2 | - | - | 93.7 | 6.3 | 93.7 | 6.3 | - | - | 93.9 | 6.1 | 93.9 | 6.1 | | - |
| Rusizi | 78 | 22 | 77.4 | 22.6 | 100 | - | 76.5 | 23.5 | 76.1 | 23.9 | 100 | - | 82 | 18 | 80.9 | 19.1 | 100 | - |
| Nyamasheke | 70.4 | 29.6 | 70.1 | 29.9 | 100 | - | 73.4 | 26.6 | 73.0 | 27.0 | 100 | - | 73.1 | 26.9 | 72.6 | 27.4 | 100 | - |
| Rulindo | 94.7 | 5.3 | 94.8 | 5.2 | 88.9 | 11.1 | 95.0 | 5.0 | 94.9 | 5.1 | 100 | - | 97 | 3 | 97 | 3 | 91.4 | 8.6 |
| Gakenke | 96.7 | 3.3 | 96.7 | 3.3 | - | - | 96.7 | 3.3 | 96.7 | 3.3 | - | - | 95.7 | 4.3 | 95.7 | 4.3 | | - |
| Musanze | 89.4 | 10.6 | 89.3 | 10.7 | 100 | - | 88.9 | 11.1 | 88.9 | 11.1 | 100 | - | 91.7 | 8.3 | 91.7 | 8.3 | 100 | - |
| Burera | 91.4 | 8.6 | 91.4 | 8.6 | - | - | 91.7 | 8.3 | 91.7 | 8.3 | - | - | 91.8 | 8.2 | 91.8 | 8.2 | | - |
| Gicumbi | 95.1 | 4.9 | 95.1 | 5 | 100 | - | 95.6 | 4.4 | 95.6 | 4.4 | 100 | - | 97 | 3 | 97 | 3 | 100 | - |
| Rwamagana | 73.1 | 26.9 | 78.2 | 21.8 | 48.4 | 51.6 | 79.6 | 20.4 | 78.7 | 21.3 | 95.2 | 4.8 | 85.2 | 14.8 | 85.2 | 14.8 | 83.9 | 16.1 |
| Nyagatare | 40.2 | 59.8 | 38.9 | 61.1 | 60.9 | 39.1 | 40.7 | 59.4 | 39.3 | 60.7 | 91.3 | 8.7 | 41 | 59 | 39.1 | 60.9 | 98 | 2 |
| Gatsibo | 55.2 | 44.8 | 54.2 | 45.8 | 75.6 | 24.4 | 57.4 | 42.6 | 56.5 | 43.5 | 100 | - | 66.8 | 33.2 | 65.8 | 34.2 | 99.1 | 0.9 |
| Kayonza | 40.2 | 59.9 | 42.8 | 57.2 | 22.1 | 77.9 | 45.4 | 54.6 | 44.8 | 55.2 | 73.3 | 26.7 | 46.9 | 53.1 | 46.2 | 53.8 | 70.7 | 29.3 |
| Kirehe | 51.3 | 48.8 | 51.3 | 48.7 | 50 | 50 | 52.3 | 47.7 | 52.2 | 47.8 | 60.0 | 40.0 | 63.3 | 36.7 | 64.1 | 35.9 | 41.3 | 58.7 |
| Ngoma | 67.3 | 32.7 | 70.3 | 29.8 | 32.3 | 67.7 | 71.7 | 28.3 | 71.5 | 28.5 | 80.0 | 20.0 | 75.2 | 24.8 | 74.8 | 25.2 | 96.2 | 3.8 |
| Bugesera | 29.6 | 70.5 | 28.3 | 71.7 | 33.9 | 66.1 | 33.1 | 66.9 | 30.1 | 69.9 | 62.9 | 37.1 | 32.8 | 67.2 | 31.7 | 68.3 | 60.7 | 39.3 |
| National | 71.8 | 28.2 | 72.6 | 27.4 | 51.9 | 48.1 | 73.8 | 26.2 | 73.6 | 26.4 | 86.6 | 13.4 | 76 | 24 | 75.8 | 24.2 | 85.3 | 14.7 |

Source: NISR, SAS 2019

Table 56: Season C 2019 Practice of erosion control measures by district (in percentage)

| District | Percentage of plots | | Percentage of Farmers | | Percentage of land size | |
|-----------------|---------------------|-------------|-----------------------|-------------|-------------------------|-------------|
| | Yes | No | Yes | No | Yes | No |
| Nyarugenge | 100 | 0 | 100.0 | - | 100.0 | - |
| Gasabo | 100 | 0 | 100.0 | - | 100.0 | - |
| Nyanza | 98.6 | 1.4 | 98.5 | 1.5 | 98.7 | 1.3 |
| Gisagara | 90.5 | 9.5 | 89.7 | 10.3 | 93.0 | 7.0 |
| Nyaruguru | 56.2 | 43.8 | 57.7 | 42.3 | 50.9 | 49.1 |
| Huye | 85.7 | 14.3 | 85.4 | 14.6 | 80.7 | 19.3 |
| Nyamagabe | 98.7 | 1.3 | 100.0 | - | 96.4 | 3.6 |
| Ruhango | 100 | 0 | 100.0 | - | 100.0 | - |
| Muhanga | 95.7 | 4.3 | 95.6 | 4.4 | 96.5 | 3.5 |
| Kamonyi | 93.8 | 6.3 | 93.5 | 6.5 | 97.2 | 2.8 |
| Karongi | 80.8 | 19.2 | 80.8 | 19.2 | 91.4 | 8.6 |
| Rutsiro | 83.6 | 16.4 | 82.3 | 17.7 | 92.6 | 7.4 |
| Rubavu | 100 | 0 | 100.0 | - | 100.0 | - |
| Nyabihu | 83.1 | 16.9 | 88.4 | 11.6 | 86.0 | 14.0 |
| Ngororero | 93.6 | 6.4 | 93.6 | 6.4 | 92.1 | 7.9 |
| Rusizi | 84.6 | 15.4 | 84.0 | 16.0 | 81.0 | 19.0 |
| Nyamasheke | 0 | 100 | - | 100.0 | - | 100.0 |
| Rulindo | 100 | 0 | 100.0 | - | 100.0 | - |
| Gakenke | 100 | 0 | 100.0 | - | 100.0 | - |
| Musanze | 98.3 | 1.7 | 98.3 | 1.7 | 96.9 | 3.1 |
| Burera | 92.7 | 7.3 | 94.4 | 5.6 | 93.1 | 6.9 |
| Gicumbi | 98.3 | 1.7 | 98.2 | 1.8 | 99.5 | 0.5 |
| Rwamagana | 59.1 | 40.9 | 57.1 | 42.9 | 70.7 | 29.3 |
| Nyagatare | 84.6 | 15.4 | 83.3 | 16.7 | 56.0 | 44.0 |
| Gatsibo | 95.5 | 4.5 | 94.9 | 5.1 | 96.8 | 3.2 |
| Kayonza | 71.4 | 28.6 | 71.4 | 28.6 | 71.0 | 29.0 |
| Kirehe | 66.7 | 33.3 | 64.3 | 35.7 | 88.6 | 11.4 |
| Bugesera | 24.7 | 75.3 | 24.7 | 75.3 | 18.4 | 81.6 |
| National | 85.9 | 14.1 | 86.2 | 13.8 | 86.6 | 13.4 |

Source: NISR, SAS 2019

Table 57: Percentage of plots by type of anti-erosion activities, per season and district in 2019

| District | Ditches | | | Trees/Windbreak/ shelterbelt | | | Bench 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 | 26.2 | 20.9 | 0.0 | 5.8 | 12.5 | 0.0 | - | 11.6 | 0.0 | 3.6 | 0.9 | 0.0 | 38.2 | 40.7 | 7.7 | 2.2 | 0.6 | 0.0 | 19.1 | 11.3 | 23.1 | 4.9 | 1.5 | 23.1 | 0.0 | 0.0 | 46.2 | - | - | |
| Gasabo | 7.7 | 3.6 | 0.0 | 0.5 | 1.5 | 0.0 | 2.2 | 31.3 | 0.0 | 21.7 | 5.4 | 0.0 | 47.0 | 51.5 | 5.3 | 14.2 | 1.8 | 2.6 | 3.4 | 1.5 | 31.6 | 3.2 | 3.3 | 0.0 | 0.0 | 0.0 | 60.5 | - | - | |
| Kicukiro | 2.5 | 0.9 | - | 7.4 | 5.3 | - | - | 31.0 | - | 35.8 | 0.9 | -- | 47.8 | 51.8 | - | 2.5 | 0.9 | - | 3.7 | 9.3 | - | 0.3 | - | - | 0.0 | 0.0 | - | - | - | - |
| Nyanza | 15.1 | 0.9 | 0.0 | 2.6 | 0.7 | 0.0 | 1.5 | 16.2 | 0.0 | - | 1.1 | 0.0 | 50.9 | 51.2 | 5.4 | 10.4 | 12.5 | 0.0 | 1.1 | 2.0 | 8.9 | 18.5 | 15.3 | 30.4 | 0.0 | 0.0 | 55.4 | - | - | |
| Gisagara | 11.7 | 12.4 | 0.0 | 0.5 | 0.8 | 0.0 | 4.8 | 14.1 | 0.0 | 10.2 | 5.1 | 0.0 | 32.7 | 36.3 | 0.0 | 26.4 | 20.7 | 8.9 | 1.2 | 0.8 | 1.8 | 12.6 | 9.7 | 61.6 | 0.0 | 0.0 | 27.7 | - | - | |
| Nyaruguru | 19.4 | 12.4 | 0.0 | 3.2 | 2.7 | 2.1 | 1.7 | 21.8 | 0.0 | 19.4 | 1.9 | 0.0 | 48.7 | 47.4 | 18.8 | 4.2 | 13.0 | 8.3 | 1.5 | 0.2 | 2.1 | 1.9 | 0.6 | 4.2 | 0.0 | 0.0 | 64.6 | - | - | |
| Huye | 8.7 | 4.7 | 0.0 | 5.0 | 3.8 | 0.0 | 0.6 | 24.2 | 0.0 | 23.8 | 0.9 | 0.0 | 45.3 | 49.1 | 2.0 | 12.6 | 10.9 | 10.0 | 1.3 | 2.2 | 4.0 | 2.8 | 4.1 | 10.0 | 0.0 | 0.0 | 74.0 | - | - | |
| Nyamagabe | 5.9 | 5.3 | 0.0 | 0.5 | 1.0 | 0.9 | 9.0 | 16.6 | 0.0 | 9.9 | 7.3 | 0.0 | 56.1 | 54.0 | 16.0 | 3.4 | 12.1 | 0.0 | 1.4 | 1.6 | 1.9 | 13.8 | 2.2 | 13.2 | 0.0 | 0.0 | 67.9 | - | - | |
| Ruhango | 9.2 | 5.6 | 4.6 | 2.0 | 0.2 | 1.5 | 0.3 | 0.2 | 0.0 | 1.5 | - | 0.0 | 67.1 | 69.7 | 20.0 | 8.0 | 18.7 | 0.0 | 1.3 | 1.6 | 9.2 | 10.7 | 4.0 | 24.6 | 0.0 | 0.0 | 40.0 | - | - | |
| Muhanga | 1.9 | 6.1 | 0.0 | 1.7 | 0.4 | 0.0 | 6.9 | 2.8 | 0.0 | 5.9 | 5.3 | 0.0 | 64.0 | 70.1 | 17.5 | 10.8 | 7.4 | 0.0 | 1.0 | 4.6 | 0.0 | 6.2 | 3.3 | 2.5 | 0.0 | 0.0 | 80.0 | 1.6 | 0.2 | |
| Kamonyi | 29.0 | 12.1 | 0.0 | 0.8 | 0.2 | 0.0 | 0.2 | 19.3 | 0.0 | 1.0 | 0.2 | 0.0 | 57.2 | 58.1 | 16.3 | 7.1 | 3.7 | 0.0 | 1.7 | 1.8 | 12.2 | 3.1 | 4.7 | 18.4 | 0.0 | 0.0 | 53.1 | - | - | |
| Karongi | 12.3 | 6.7 | 0.0 | 4.7 | 7.6 | 0.0 | 4.5 | 1.9 | 3.6 | 4.7 | 5.3 | 3.6 | 60.1 | 67.3 | 32.1 | 11.2 | 11.2 | 3.6 | 1.9 | - | 3.6 | 0.4 | - | 14.3 | 0.0 | 0.0 | 39.3 | - | - | |
| Rutsiro | 8.2 | 2.1 | 0.0 | 11.5 | 11.0 | 1.0 | 15.4 | 2.8 | 0.0 | 3.5 | 16.6 | 0.0 | 46.2 | 59.9 | 11.0 | 9.0 | 3.2 | 4.0 | 3.0 | 4.5 | 1.0 | 3.3 | - | 28.0 | 0.0 | 0.0 | 55.0 | - | - | |
| Rubavu | 0.2 | 0.9 | 0.0 | 10.1 | 11.8 | 6.1 | 2.4 | 14.4 | 6.1 | 16.3 | 2.4 | 6.1 | 15.4 | 15.0 | 6.1 | - | 0.2 | 0.0 | 0.2 | - | 0.0 | 55.5 | 55.3 | 75.8 | 0.0 | 0.0 | 0.0 | - | - | |
| Nyabihu | 1.7 | 0.2 | 0.0 | 1.5 | 2.4 | 2.2 | 9.6 | 3.5 | 26.1 | 1.3 | 10.9 | 7.6 | 52.3 | 50.8 | 41.3 | 4.4 | 4.7 | 0.0 | 0.6 | 1.1 | 2.2 | 28.8 | 26.4 | 14.1 | 0.0 | 0.0 | 6.5 | - | - | |
| Ngororero | 7.0 | 3.7 | 0.0 | 1.3 | 1.2 | 0.0 | 10.5 | 1.2 | 0.0 | 0.4 | 10.3 | 0.0 | 66.1 | 73.6 | 14.3 | 9.1 | 3.2 | 8.2 | 2.5 | 3.2 | 0.0 | 3.2 | 3.7 | 67.3 | 0.0 | 0.0 | 10.2 | - | - | |
| Rusizi | 2.8 | 10.7 | 0.0 | 11.2 | 9.2 | 4.0 | 0.3 | 5.8 | 0.0 | 26.9 | - | 0.0 | 48.0 | 61.9 | 0.0 | 6.9 | 6.1 | 0.0 | 2.5 | 5.3 | 12.0 | 1.5 | 1.0 | 8.0 | 0.0 | 0.0 | 76.0 | - | - | |
| Nyamasheke | 3.0 | 2.7 | - | 5.8 | 5.9 | - | 12.6 | 5.3 | - | 3.3 | 9.4 | - | 57.8 | 61.0 | - | 10.7 | 5.9 | - | 5.5 | 8.0 | - | 1.4 | 1.9 | - | 0.0 | 0.0 | - | - | - | |
| Rulindo | 11.3 | 2.3 | 0.0 | 1.5 | 2.6 | 6.5 | 7.5 | 13.0 | 3.2 | 13.0 | 5.4 | 0.0 | 51.8 | 57.8 | 19.4 | 8.7 | 16.1 | 16.1 | 1.3 | 2.8 | 0.0 | 5.0 | - | 6.5 | 0.0 | 0.0 | 48.4 | - | - | |
| Gakenke | 2.0 | 3.6 | 0.0 | 4.3 | 5.9 | 0.0 | 3.3 | 10.5 | 0.0 | 5.1 | 4.0 | 0.0 | 73.1 | 58.2 | 44.8 | 6.8 | 8.9 | 6.9 | 4.6 | 7.3 | 5.2 | 0.7 | 1.6 | 1.7 | 0.0 | 0.0 | 41.4 | - | - | |
| Musanze | 0.6 | 1.6 | 0.0 | 2.2 | 1.2 | 0.7 | 7.9 | 0.6 | 0.0 | 0.6 | 7.1 | 0.0 | 26.9 | 30.3 | 9.7 | 4.2 | 3.1 | 9.0 | 0.2 | - | 3.5 | 57.5 | 55.9 | 69.4 | 0.0 | 0.0 | 7.6 | - | 0.2 | |
| Burera | 0.1 | 6.0 | 0.9 | 4.4 | 1.4 | 1.7 | 6.5 | 12.1 | 0.9 | 14.0 | 6.2 | 5.2 | 42.9 | 49.6 | 26.1 | 2.5 | 2.3 | 0.0 | 0.1 | - | 0.9 | 29.5 | 21.7 | 53.9 | 0.0 | 0.0 | 10.4 | - | 0.7 | |
| Gicumbi | 0.3 | 0.2 | 0.0 | 0.8 | 0.6 | 0.0 | 8.9 | 32.1 | 0.0 | 19.3 | 8.0 | 1.4 | 59.4 | 54.9 | 18.3 | 9.3 | 2.4 | 0.0 | 1.6 | 1.7 | 0.0 | 0.4 | - | 0.0 | 0.0 | 0.0 | 80.3 | - | - | |
| Rwamagana | 26.0 | 4.0 | 0.0 | 3.3 | 5.4 | 0.0 | 4.7 | 2.7 | 0.0 | 6.2 | 7.1 | 0.0 | 43.9 | 61.1 | 0.0 | 10.0 | 5.6 | 12.5 | 3.8 | 10.8 | 18.8 | 2.0 | 3.1 | 0.0 | 0.0 | 0.0 | 68.8 | 0.2 | 0.2 | |
| Nyagatare | 11.7 | 7.7 | 0.0 | 0.5 | 0.9 | 0.0 | 1.5 | 25.5 | 0.0 | 18.2 | 1.0 | 0.0 | 58.5 | 52.8 | 13.3 | 4.0 | 3.6 | 53.3 | 3.3 | 7.2 | 0.0 | 2.3 | 1.2 | 26.7 | 0.0 | 0.0 | 6.7 | - | - | |
| Gatsibo | 6.4 | 4.1 | 0.0 | 1.6 | 1.1 | 1.9 | 0.5 | 1.1 | 0.0 | 0.5 | - | 3.8 | 67.6 | 71.6 | 9.4 | 3.3 | 2.6 | 0.0 | 6.5 | 7.2 | 9.4 | 13.7 | 12.3 | 1.9 | 0.0 | 0.0 | 73.6 | - | - | |
| Kayonza | 27.9 | 18.4 | 0.0 | 0.5 | 0.4 | 0.0 | 7.9 | 7.7 | 0.0 | - | 8.6 | 0.0 | 46.4 | 48.7 | 0.0 | 4.4 | 7.7 | 60.0 | 7.4 | 5.9 | 0.0 | 5.4 | 2.4 | 0.0 | 0.0 | 0.0 | 40.0 | - | 0.2 | |
| Kirehe | 19.6 | 26.1 | 0.0 | 6.0 | 1.3 | 0.0 | - | - | 0.0 | 0.7 | 0.5 | 0.0 | 54.8 | 55.6 | 8.3 | 1.6 | 1.5 | 0.0 | 15.4 | 12.5 | 16.7 | 1.9 | 2.5 | 0.0 | 0.0 | 0.0 | 75.0 | - | - | |
| Ngoma | 26.1 | 7.1 | - | 1.1 | 1.6 | - | 0.5 | 2.3 | - | 5.6 | - | - | 55.1 | 68.2 | -- | 2.7 | 4.5 | - | 8.5 | 14.9 | - | 0.5 | 1.3 | - | 0.0 | 0.0 | - | - | - | |
| Bugesera | 27.7 | 15.0 | 0.0 | 0.9 | 1.2 | 0.0 | - | 13.9 | 0.0 | - | - | 0.0 | 47.7 | 52.0 | 0.0 | 7.7 | 8.1 | 0.0 | 4.6 | 5.2 | 23.8 | 11.4 | 4.6 | 66.7 | 0.0 | 0.0 | 9.5 | - | - | |
| National | 10.0 | 6.6 | 0.3 | 3.3 | 3.1 | 1.0 | 4.8 | 11.9 | 1.9 | 9.3 | 4.6 | 1.2 | 51.5 | 54.4 | 15.2 | 7.5 | 7.0 | 4.2 | 3.2 | 4.1 | 4.9 | 10.4 | 8.2 | 28.7 | 0.0 | 0.0 | 42.6 | 0.1 | 0.1 | |

Source: NISR, SAS 2019

Table 58: Percentage of plots by degree of erosion, per season and district in 2019

| District | Severe (Rill erosion, Gully erosion, Mass movement/Landslides) | | | Moderate (Diffuse overland flow erosion, overland flow erosion) | | | Low (splash erosion, wind erosion) | | |
|-----------------|--|------------|------------|---|-------------|-------------|------------------------------------|-----------|-------------|
| | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | 1.97 | 0.3 | 0 | 14.65 | 25.5 | 0 | 83.38 | 74.2 | 100 |
| Gasabo | 0.38 | 3.8 | 4.3 | 1.13 | 5.2 | 21.7 | 98.5 | 91 | 73.9 |
| Kicukiro | 0.33 | 0 | - | 0 | 0 | - | 99.67 | 100 | - |
| Nyanza | 0.22 | 0.4 | 0 | 2.4 | 1.5 | 0 | 97.38 | 98.1 | 100 |
| Gisagara | 0.71 | 2 | 1 | 22.28 | 12 | 7.6 | 77.01 | 85.9 | 91.4 |
| Nyaruguru | 0 | 2.7 | 0 | 38.72 | 45.9 | 12.3 | 61.28 | 51.4 | 87.7 |
| Huye | 0.46 | 0.2 | 0 | 22.81 | 22.7 | 0 | 76.73 | 77.1 | 100 |
| Nyamagabe | 1.15 | 0.5 | 5.3 | 22.07 | 30.1 | 46.1 | 76.78 | 69.5 | 48.7 |
| Ruhango | 0.24 | 0.8 | 0 | 3.32 | 4.9 | 9.5 | 96.45 | 94.4 | 90.5 |
| Muhanga | 1.18 | 0.4 | 2.9 | 17.36 | 3.8 | 20 | 81.46 | 95.8 | 77.1 |
| Kamonyi | 2.56 | 0 | 0 | 1.4 | 8 | 3.1 | 96.05 | 92 | 96.9 |
| Karongi | 1.23 | 0.8 | 0 | 13.09 | 4.2 | 19.2 | 85.68 | 95 | 80.8 |
| Rutsiro | 0.43 | 0 | 0 | 10.32 | 6.8 | 35.6 | 89.25 | 93.2 | 64.4 |
| Rubavu | 0.24 | 0 | 0 | 6.31 | 7.2 | 16.7 | 93.45 | 92.8 | 83.3 |
| Nyabihu | 0.21 | 2.9 | 0 | 11.09 | 16 | 29.9 | 88.7 | 81.2 | 70.1 |
| Ngororero | 5.37 | 1.3 | 0 | 22.6 | 20.8 | 2.1 | 72.04 | 77.9 | 97.9 |
| Rusizi | 0.21 | 0.5 | 0 | 7.31 | 10.4 | 0 | 92.48 | 89.1 | 100 |
| Nyamasheke | 0 | 0 | 0 | 1.08 | 2.9 | 0 | 98.92 | 97.1 | 100 |
| Rulindo | 0.54 | 0.6 | 0 | 5.8 | 4.5 | 0 | 93.66 | 94.9 | 100 |
| Gakenke | 0 | 0.8 | 0 | 5.08 | 2.9 | 0 | 94.92 | 96.3 | 100 |
| Musanze | 0.39 | 0.2 | 0.8 | 20.04 | 8 | 4.1 | 79.58 | 91.8 | 95 |
| Burera | 2.13 | 0.7 | 4.2 | 8.35 | 2.8 | 0 | 89.53 | 96.5 | 95.8 |
| Gicumbi | 3.19 | 1.4 | 0 | 24.95 | 24.3 | 8.3 | 71.86 | 74.4 | 91.7 |
| Rwamagana | 1.17 | 0 | 36.4 | 7.18 | 1.1 | 4.5 | 91.65 | 98.9 | 59.1 |
| Nyagatare | 2.91 | 2.4 | 0 | 4.71 | 8.9 | 0 | 92.38 | 88.7 | 100 |
| Gatsibo | 12.95 | 14.7 | 0 | 4.06 | 2.6 | 0 | 82.99 | 82.7 | 100 |
| Kayonza | 0.24 | 0 | 0 | 10.82 | 9.5 | 0 | 88.94 | 90.5 | 100 |
| Kirehe | 0 | 0.7 | 0 | 3.42 | 22.1 | 0 | 96.58 | 77.2 | 100 |
| Ngoma | 0.24 | 0 | - | 6.75 | 9.6 | - | 93.01 | 90.4 | - |
| Bugesera | 0.17 | 0 | 0 | 2.83 | 1.1 | 0 | 97 | 98.9 | 100 |
| National | 1.69 | 1.6 | 1.6 | 9.93 | 10.4 | 10.9 | 88.38 | 88 | 87.6 |

Source: NISR, SAS 2019

Table 59: Percentage of plots by land ownership category, per season and district in 2019

| District | Owned | | | Free lending | | | Rented by cash or in-kind payment | | |
|-----------------|-------------|-------------|-------------|--------------|------------|-------------|-----------------------------------|-------------|-------------|
| | Season A | Season B | Season C | Season A | Season B | Season C | Season A | Season B | Season C |
| Nyarugenge | 78.3 | 76.8 | 70.0 | 12.1 | 13.5 | 20.0 | 9.6 | 9.7 | 10.0 |
| Gasabo | 75.4 | 74.5 | 26.1 | 17.1 | 19.0 | 52.2 | 7.5 | 6.4 | 21.7 |
| Kicukiro | 75.7 | 71.1 | | 17.1 | 20.1 | | 7.2 | 8.8 | |
| Nyanza | 62.2 | 63.2 | 39.1 | 15.9 | 17.3 | 37.7 | 21.8 | 19.5 | 23.2 |
| Gisagara | 60.1 | 63.1 | 54.3 | 12.7 | 11.8 | 20.0 | 27.3 | 25.1 | 25.7 |
| Nyaruguru | 71.0 | 70.3 | 57.5 | 21.2 | 20.3 | 17.8 | 7.7 | 9.5 | 24.7 |
| Huye | 63.1 | 60.4 | 57.1 | 9.2 | 10.7 | 8.2 | 27.7 | 28.8 | 34.7 |
| Nyamagabe | 76.6 | 77.6 | 80.3 | 6.2 | 9.0 | 5.3 | 17.2 | 13.3 | 14.5 |
| Ruhango | 76.3 | 70.1 | 64.3 | 8.3 | 12.1 | 23.8 | 15.4 | 17.9 | 11.9 |
| Muhanga | 79.9 | 83.4 | 47.1 | 8.3 | 7.6 | 21.4 | 11.8 | 9.0 | 31.4 |
| Kamonyi | 77.9 | 78.8 | 59.4 | 10.0 | 9.1 | 21.9 | 12.1 | 12.1 | 18.8 |
| Karongi | 77.0 | 79.9 | 46.2 | 10.9 | 6.6 | 11.5 | 12.1 | 13.5 | 42.3 |
| Rutsiro | 72.0 | 78.8 | - | 5.2 | 5.4 | 1.4 | 22.8 | 15.8 | 98.6 |
| Rubavu | 77.4 | 76.1 | 63.3 | 4.9 | 5.0 | 3.3 | 17.7 | 19.0 | 33.3 |
| Nyabihu | 83.5 | 79.8 | 75.3 | 4.8 | 6.5 | 9.1 | 11.7 | 13.6 | 15.6 |
| Ngororero | 86.4 | 88.1 | 42.6 | 5.6 | 4.6 | 6.4 | 8.1 | 7.3 | 51.1 |
| Rusizi | 80.2 | 80.9 | 69.2 | 7.5 | 6.6 | 7.7 | 12.3 | 12.5 | 23.1 |
| Nyamasheke | 73.3 | 74.8 | 66.7 | 6.1 | 5.3 | - | 20.6 | 20.0 | 33.3 |
| Rulindo | 73.9 | 76.2 | 65.0 | 10.9 | 9.2 | 15.0 | 15.2 | 14.5 | 20.0 |
| Gakenke | 91.2 | 91.6 | 88.9 | 4.9 | 6.1 | 5.6 | 4.0 | 2.4 | 5.6 |
| Musanze | 75.3 | 77.2 | 70.2 | 7.7 | 8.8 | 14.0 | 17.0 | 13.9 | 15.7 |
| Burera | 74.5 | 80.4 | 32.3 | 3.9 | 3.4 | 1.0 | 21.6 | 16.2 | 66.7 |
| Gicumbi | 83.7 | 86.4 | 33.3 | 6.4 | 7.5 | 13.3 | 9.9 | 6.1 | 53.3 |
| Rwamagana | 79.8 | 79.2 | 50.0 | 9.4 | 10.5 | 22.7 | 10.9 | 10.3 | 27.3 |
| Nyagatare | 78.1 | 77.2 | 30.8 | 5.7 | 5.7 | 46.2 | 16.2 | 17.1 | 23.1 |
| Gatsibo | 71.2 | 75.0 | 36.4 | 12.6 | 11.3 | 40.9 | 16.1 | 13.7 | 22.7 |
| Kayonza | 76.0 | 76.6 | 42.9 | 9.2 | 9.0 | 14.3 | 14.8 | 14.4 | 42.9 |
| Kirehe | 78.8 | 78.5 | 46.7 | 7.6 | 7.5 | 33.3 | 13.7 | 14.0 | 20.0 |
| Ngoma | 75.7 | 77.7 | | 9.4 | 6.9 | | 14.9 | 15.5 | |
| Bugesera | 67.4 | 72.5 | 14.1 | 22.1 | 16.0 | 84.7 | 10.5 | 11.5 | 1.2 |
| National | 75.8 | 76.6 | 49.6 | 9.5 | 9.5 | 19.9 | 14.7 | 14.0 | 30.4 |

Source: NISR, SAS 2019

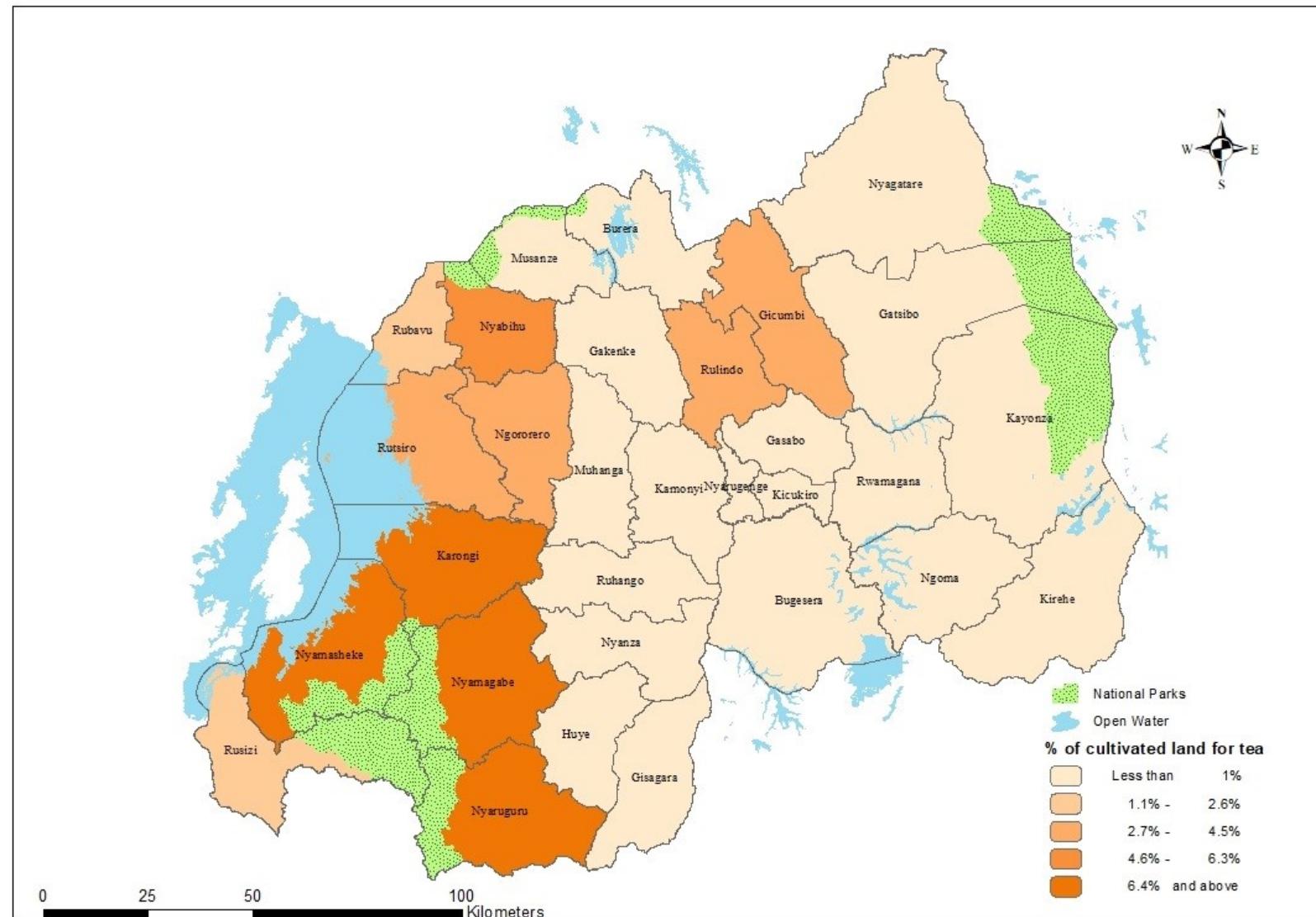
Table 60: Percentage of owned plots by land source and district

| District | Heritage | | | Gift | | | Exchange | | | Bought | | |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|
| | 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 | 48.2 | 49.6 | 85.7 | 11.5 | 8.2 | 14.3 | 0.4 | 0.4 | - | 39.9 | 41.8 | - |
| Gasabo | 47.6 | 52.7 | 33.3 | - | 0.3 | 33.3 | 0.3 | 0.3 | - | 52.1 | 46.6 | 33.3 |
| Kicukiro | 53.7 | 54.5 | | 3.9 | 4.3 | | 0.4 | 0.5 | | 42.0 | 40.7 | - |
| Nyanza | 70.5 | 60.2 | 55.6 | 2.5 | 6.3 | 14.8 | 0.4 | - | - | 26.7 | 33.6 | 29.6 |
| Gisagara | 59.6 | 52.5 | 31.6 | 4.5 | 6.1 | 24.6 | 0.9 | 1.9 | - | 35.0 | 39.5 | 43.9 |
| Nyaruguru | 70.1 | 70.0 | 78.6 | 1.4 | 1.9 | 4.8 | - | 1.2 | - | 28.4 | 26.9 | 16.7 |
| Huye | 62.8 | 61.3 | 75.0 | 5.5 | 7.3 | - | 0.7 | - | - | 31.0 | 31.4 | 25.0 |
| Nyamagabe | 44.4 | 58.0 | 62.3 | 16.5 | 2.9 | 3.3 | - | 0.3 | - | 39.0 | 38.8 | 34.4 |
| Ruhango | 67.1 | 52.7 | 48.1 | 3.4 | 14.2 | 18.5 | - | 0.3 | - | 29.5 | 32.8 | 33.3 |
| Muhanga | 69.9 | 73.6 | 57.6 | 0.5 | 0.7 | 27.3 | - | - | - | 29.6 | 25.7 | 15.2 |
| Kamonyi | 69.0 | 68.5 | 47.4 | 8.1 | 5.2 | 5.3 | 0.6 | 0.3 | - | 22.4 | 26.0 | 47.4 |
| Karongi | 51.9 | 57.8 | 41.7 | 18.9 | 12.2 | 8.3 | 0.6 | 1.0 | - | 28.5 | 29.0 | 50.0 |
| Rutsiro | 39.1 | 48.1 | - | 26.6 | 17.6 | | 0.9 | 0.6 | | 33.4 | 33.7 | - |
| Rubavu | 25.7 | 31.5 | 36.8 | 24.5 | 21.0 | 10.5 | 0.3 | 0.7 | - | 49.5 | 46.9 | 52.6 |
| Nyabihu | 31.8 | 28.5 | 37.9 | 21.3 | 23.6 | 10.3 | 0.3 | - | - | 46.6 | 47.9 | 51.7 |
| Ngororero | 42.0 | 66.7 | 50.0 | 20.5 | 2.1 | 5.0 | - | 0.3 | - | 37.6 | 30.9 | 45.0 |
| Rusizi | 27.9 | 44.7 | 61.1 | 30.5 | 21.9 | 27.8 | 0.8 | - | - | 40.9 | 33.3 | 11.1 |
| Nyamasheke | 55.3 | 41.8 | 100.0 | 8.3 | 25.1 | - | - | - | - | 36.4 | 33.1 | - |
| Rulindo | 54.4 | 58.9 | 23.1 | 12.8 | 7.7 | 23.1 | 0.3 | - | 7.7 | 32.6 | 33.4 | 46.2 |
| Gakenke | 57.3 | 57.6 | 28.1 | 0.6 | - | 3.1 | 0.6 | 0.4 | - | 41.4 | 42.0 | 68.8 |
| Musanze | 43.0 | 20.9 | 22.4 | 15.9 | 33.8 | 30.6 | 1.3 | 1.4 | - | 39.9 | 43.8 | 47.1 |
| Burera | 25.7 | 24.8 | 41.9 | 20.7 | 25.5 | 19.4 | 2.0 | 1.2 | - | 51.7 | 48.6 | 38.7 |
| Gicumbi | 69.5 | 63.5 | 45.0 | 2.0 | 1.4 | 20.0 | 0.5 | 0.7 | 5.0 | 28.0 | 34.5 | 30.0 |
| Rwamagana | 36.6 | 38.2 | - | 5.2 | 9.4 | 36.4 | 0.2 | - | 9.1 | 58.0 | 52.4 | 54.5 |
| Nyagatare | 14.8 | 18.0 | - | 22.7 | 24.4 | 25.0 | 0.4 | - | - | 62.1 | 57.6 | 75.0 |
| Gatsibo | 31.4 | 26.9 | 37.5 | 17.9 | 22.4 | 31.3 | 0.9 | 0.9 | - | 49.8 | 49.8 | 31.3 |
| Kayonza | 29.4 | 30.3 | 33.3 | 18.9 | 14.4 | - | 0.3 | 0.4 | - | 51.4 | 54.9 | 66.7 |
| Kirehe | 34.0 | 31.1 | 42.9 | 27.6 | 27.4 | - | 0.2 | 0.6 | - | 38.3 | 40.9 | 57.1 |
| Ngoma | 59.2 | 53.3 | - | 9.2 | 16.0 | - | 2.2 | 1.3 | - | 29.3 | 29.4 | - |
| Bugesera | 27.2 | 17.7 | 50.0 | 25.2 | 33.6 | 8.3 | 0.5 | 0.5 | - | 47.2 | 48.2 | 41.7 |
| National | 44.2 | 44.1 | 44.8 | 14.0 | 14.4 | 15.8 | 0.5 | 0.5 | 0.4 | 41.2 | 40.9 | 39.0 |

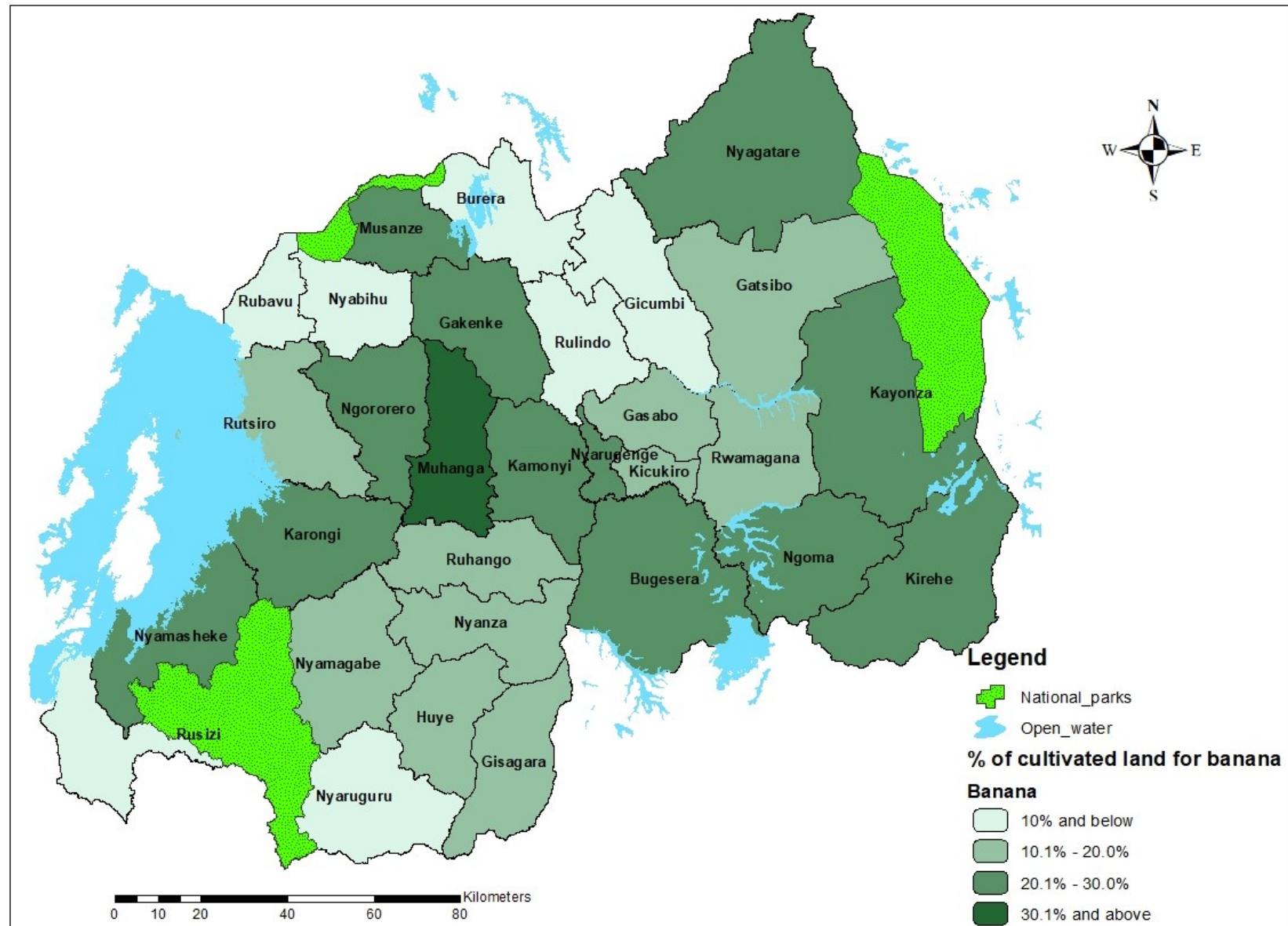
Source: NISR, SAS 2019

APPENDIX

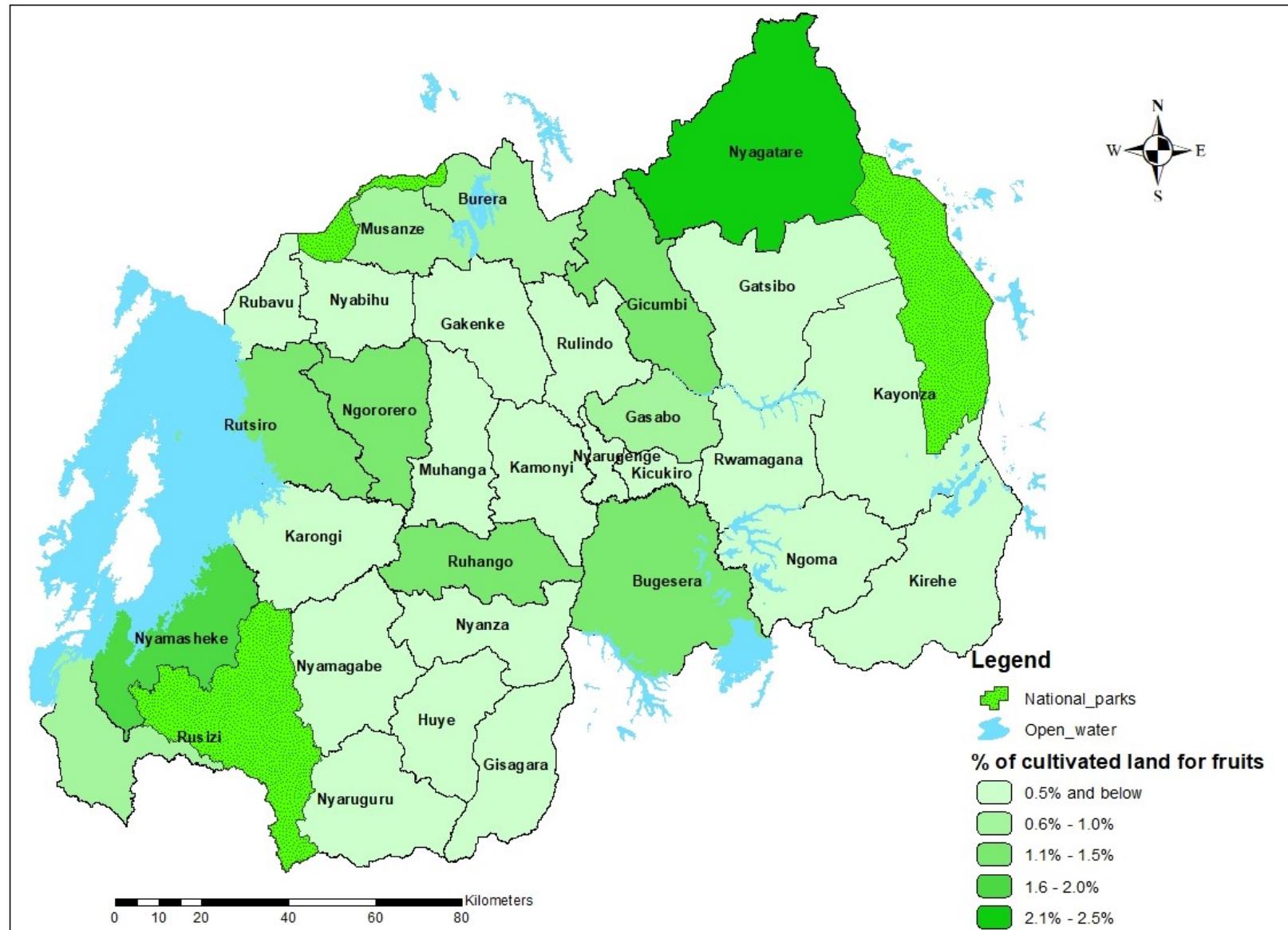
Appendix 1 : Percentage of area under permanent crop (tea) in 2019 Agricultural year



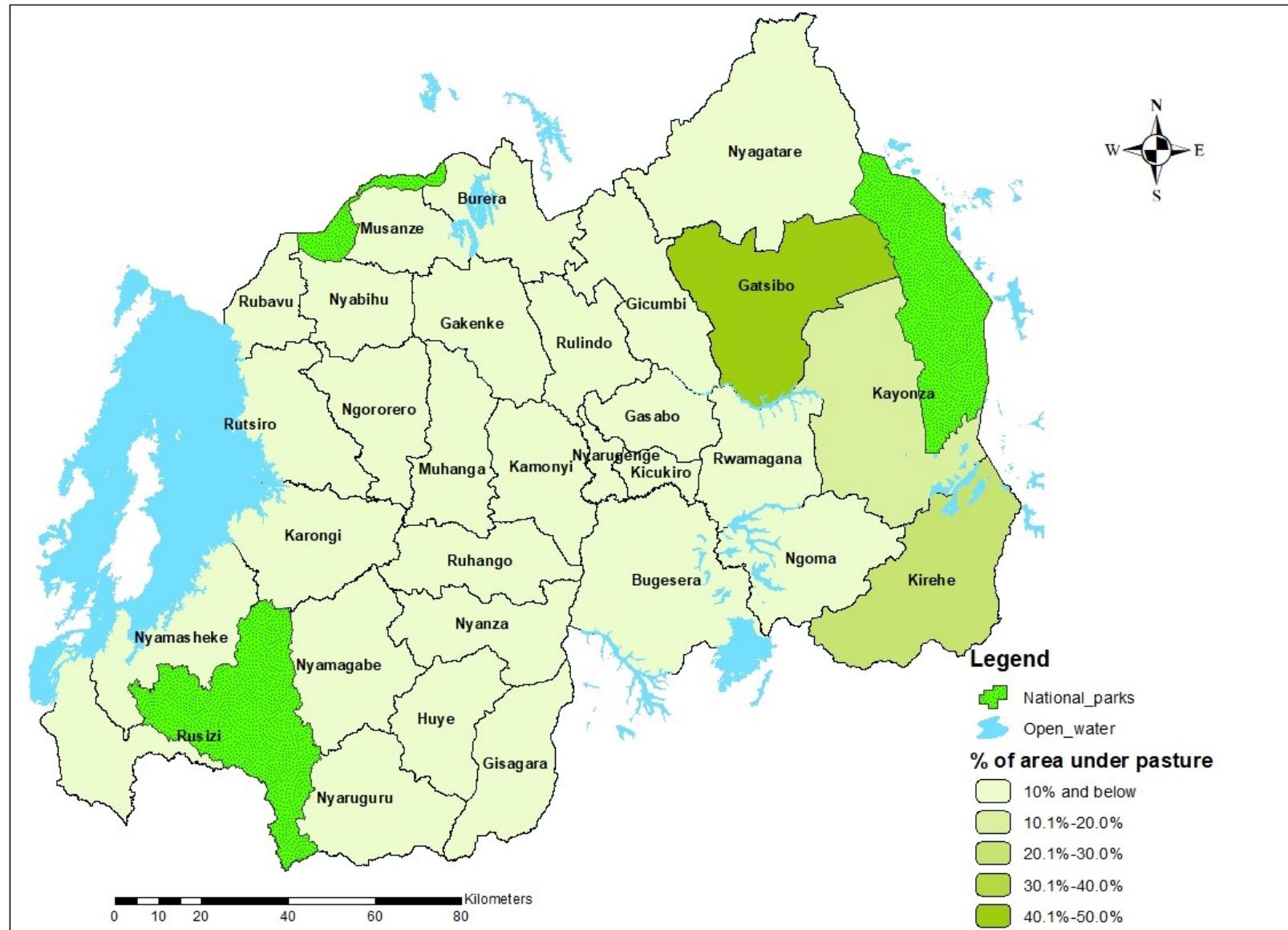
Appendix 2: Percentage of area under permanent crop (Banana) in 2019 Agricultural year



Appendix 3: Percentage of area under cultivation of permanent crop (Fruits) in 2019 Agricultural year



Appendix 4: Percentage of area under pasture in 2019 agricultural year



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