The Republic of Rwanda

NATIONAL INSTITUTE OF STATISTICS OF RWANDA

AGRICULTURAL SURVEY

SEASON A, 2018

NATIONAL INSTITUTE OF STATISTICS OF RWANDA

SEASONAL AGRICULTURAL SURVEY

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June 2018

REPUBLIC OF RWANDA

NATIONAL INSTITUTE OF STATISTICS OF RWANDA
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March 2018

Seasonal Agricultural Survey (SAS)–2018 Season A

I. Introduction

National Institute of Statistics of Rwanda (NISR) uses Multiple-Frame Sampling (MFS) as the methodology to conduct Seasonal Agricultural Survey. Data collection covers all three agricultural Seasons in Rwanda as follows:

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

This preliminary report explains the methodology used in producing agriculture statistics and highlights some key findings on area, yield, production, agricultural inputs and practices from SAS 2018 A. An annual comprehensive SAS report will be published after covering all the three agricultural seasons.

II. Methodology of the survey

For collecting agricultural data, a Multiple- Frame Sampling (MFS) is used, meaning that the NISR combines an area frame complemented by a List frame of Large Scale Farmers consisting of all farmers holding the agricultural land of at least 10 hectares. The design of the Multiple Frame Survey combined a probability sample of segments which were selected from the A*rea Sampling Frame*, with a list of *Large Scale Farmers (LSF)* to be totally enumerated during the data collection period.

a. Land stratification

The stratification is based on "Eye interpretation" of aerial images. Those images are orthophotos imagery from the National Land Center (2008) and Satellite images (World View) from Digital Globe (2010-2016). To identify the potential land for agriculture, it starts with land stratification where, using aerial imagery, the total country land is delineated into 10 land use strata based on land cover or land use characteristics, and cropping or livestock activity intensity as shown in the below table and figure:

Code	Stratum	Area (Ha)	Percentage
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

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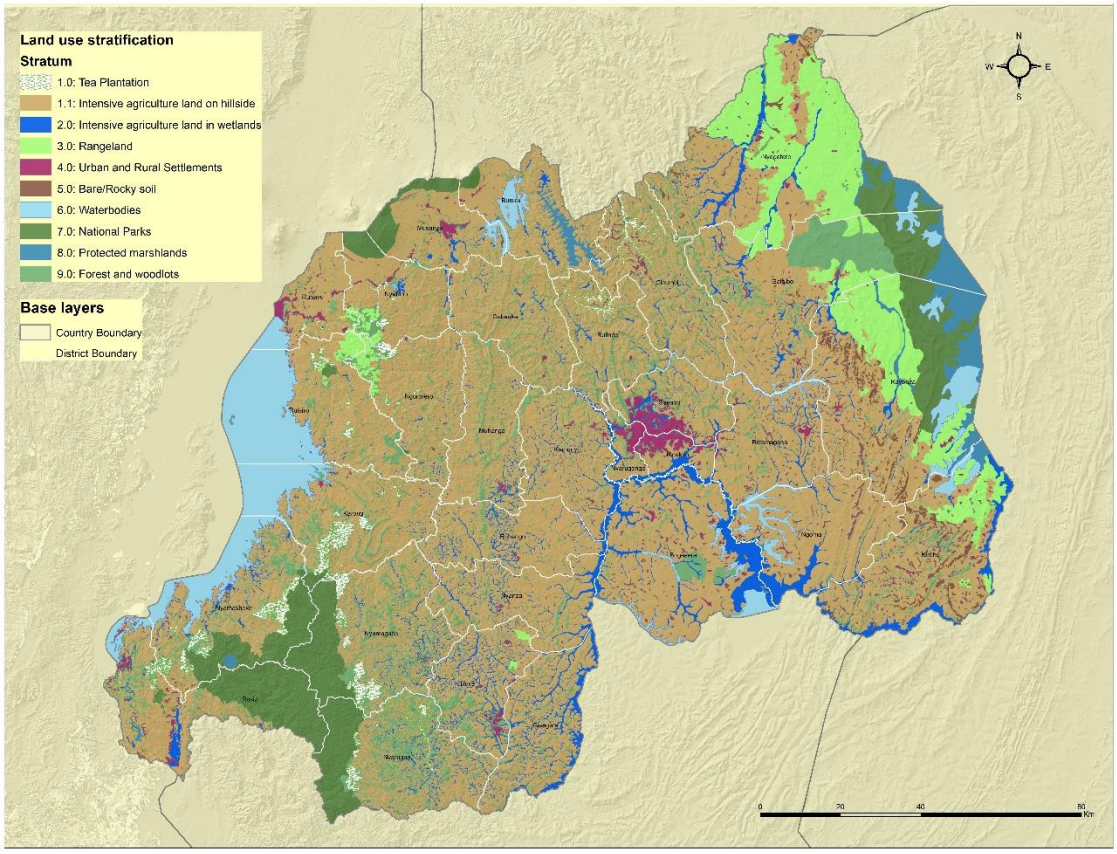

Figure 1 shows how strata are spread in the country.

From the 10 strata, NISR considers only 3 strata potential for agriculture for the purpose of the SAS which are: stratum 1.1 Intensive agriculture land on Hillsides, stratum 2.0 Intensive agriculture land in marshlands and stratum 3.0 Rangelands area. The considered strata contribute about 70% of the total country land. The table 1 shows their distribution into districts while table 2 displays the percentage share of each district per stratum.

Table 1. Distribution of potential land for agriculture per district (ha)

District	Intensive cropland on hillsides	Intensive cropland in marshlands	Rangelands	Total
Nyarugenge	5,894.6	1,698.0	-	7,592.6
Gasabo	25,561.9	3,190.7	-	28,752.6
Kicukiro	7,597.3	2,686.2	-	10,283.5
Nyanza	53,698.6	6,302.5		60,001.1
Gisagara	48,939.5	11,095.9	-	60,035.4
Nyaruguru	43,598.2	3,674.0	-	47,272.2
Huye	39,249.1	6,358.0	1,051.5	46,658.6
Nyamagabe	50,410.8	3,402.8	-	53,813.6
Ruhango	52,253.8	4,985.6	-	57,239.4
Muhanga	49,946.6	1,955.5	-	51,902.1
Kamonyi	52,483.8	5,816.4	-	58,300.2
Karongi	55,904.7	799.4	-	56,704.1
Rutsiro	50,755.4	505.1	3,613.3	54,873.8
Rubavu	26,886.6	-	822.2	27,708.8
Nyabihu	37,199.4	801.9	2,691.3	40,692.6
Ngororero	51,198.6	914.3	3,910.9	56,023.8
Rusizi	38,535.1	3,069.1	-	41,604.2
Nyamasheke	44,064.1	2,371.1	-	46,435.2
Rulindo	41,718.2	1,861.0	-	43,579.2
Gakenke	56,044.5	1,489.5	-	57,534.0
Musanze	33,596.6	1,096.9	-	34,693.5
Burera	44,013.0	1,459.7	-	45,472.7
Gicumbi	61,872.1	1,674.2	-	63,546.3
Rwamagana	55,324.6	3,235.5	-	58,560.1
Nyagatare	62,330.9	8,108.5	91,762.0	162,201.4
Gatsibo	71,583.4	4,786.9	12,813.8	89,184.1
Kayonza	64,327.7	3,156.7	46,806.1	114,290.5
Kirehe	66,696.0	10,604.4	15,350.6	92,651.0
Ngoma	68,594.0	8,088.6	-	76,682.6
Bugesera	87,766.1	21,253.1	-	109,019.2
Total Agricultural land	**1,448,045.5**	**126,441.3**	**178,821.6**	**1,753,308.4**

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Table 2. Share (in percentage) of area occupied by agricultural strata by districts in descending order

District	Intensive cropland on hillsides	District	Intensive cropland in marshlands	District	Rangelands
Bugesera	6.1	Bugesera	16.8	Nyagatare	51.3
Gatsibo	4.9	Gisagara	8.8	Kayonza	26.2
Ngoma	4.7	Kirehe	8.4	Kirehe	8.6
Kirehe	4.6	Nyagatare	6.4	Gatsibo	7.2
Kayonza	4.4	Ngoma	6.4	Ngororero	2.2
Nyagatare	4.3	Huye	5.0	Rutsiro	2.0
Gicumbi	4.3	Nyanza	5.0	Nyabihu	1.5
Gakenke	3.9	Kamonyi	4.6	Huye	0.6
Karongi	3.9	Ruhango	3.9	Rubavu	0.5
Rwamagana	3.8	Gatsibo	3.8	Nyarugenge	-
Nyanza	3.7	Nyaruguru	2.9	Gasabo	-
Kamonyi	3.6	Nyamagabe	2.7	Kicukiro	-
Ruhango	3.6	Rwamagana	2.6	Nyanza	-
Ngororero	3.5	Gasabo	2.5	Gisagara	-
Rutsiro	3.5	Kayonza	2.5	Nyaruguru	-
Nyamagabe	3.5	Rusizi	2.4	Nyamagabe	-
Muhanga	3.4	Kicukiro	2.1	Ruhango	-
Gisagara	3.4	Nyamasheke	1.9	Muhanga	-
Nyamasheke	3.0	Muhanga	1.5	Kamonyi	-
Burera	3.0	Rulindo	1.5	Karongi	-
Nyaruguru	3.0	Nyarugenge	1.3	Rusizi	-
Rulindo	2.9	Gicumbi	1.3	Nyamasheke	-
Huye	2.7	Gakenke	1.2	Rulindo	-
Rusizi	2.7	Burera	1.2	Gakenke	-
Nyabihu	2.6	Musanze	0.9	Musanze	-
Musanze	2.3	Ngororero	0.7	Burera	-
Rubavu	1.9	Nyabihu	0.6	Gicumbi	-
Gasabo	1.8	Karongi	0.6	Rwamagana	-
Kicukiro	0.5	Rutsiro	0.4	Ngoma	-
Nyarugenge	0.4	Rubavu	-	Bugesera	-
Overall	**100**	**Overall**	**100**	**Overall**	**100**

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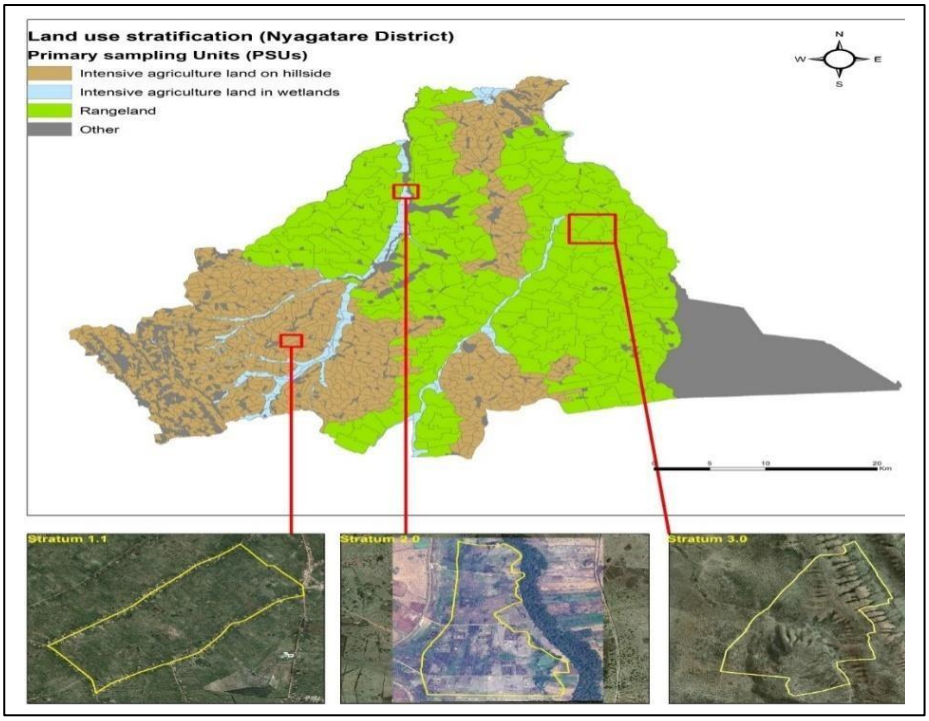
b. Sampling approach:

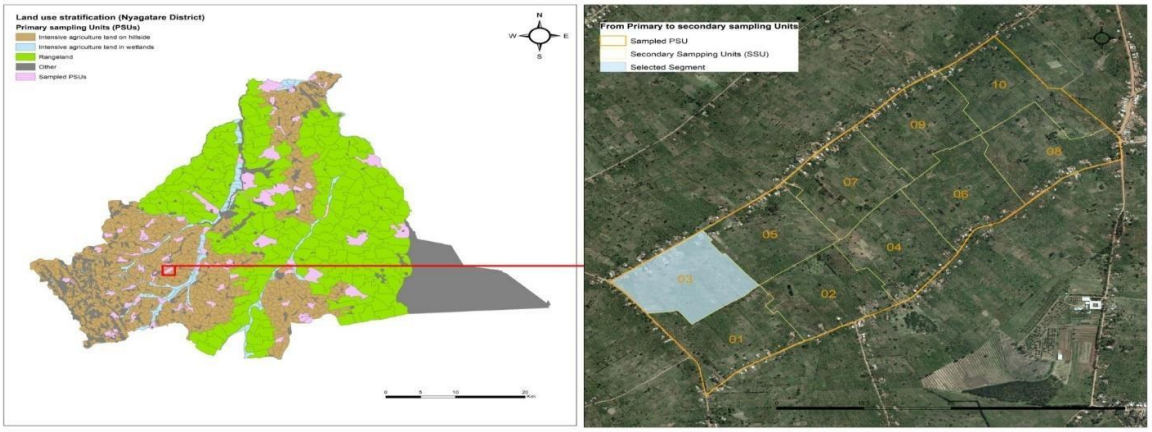
A multi-stage sampling procedure is used whereby the first stage involves the sub-division of the agriculture strata (1.1, 2.0 & 3.0) into Primary Sampling Units (PSUs) at district level (as shown in Figure 2). Strata 1.1 and 2.0 are divided into PSUs of around 100 ha while stratum 3.0 is divided into PSUs of around 500 ha. Then a number of PSUs to be selected is assigned to each stratum given its weight (by probability proportional to size) in every district. The systematic sampling method is applied to determine the PSUs to be considered in the second sampling stage.

Figure 1. Construction of PSUs (Example of Nyagatare District)



At second sampling stage, every selected PSU is divided into Secondary Sampling Units (SSUs) of around 10 ha for strata 1.1 and 2.0 and around 50 ha for stratum 3.0. One SSU is randomly selected and called a Segment (as shown in Figure 3).

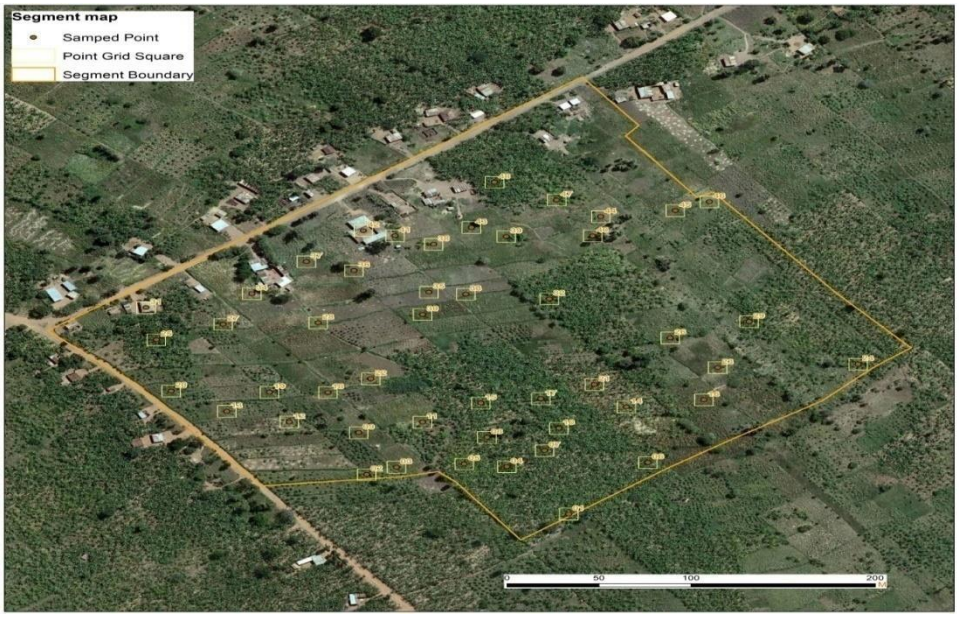
Figure 2. Construction of SSUs (Example of Nyagatare District)



In the last sampling stage, A segment of average size of 10 ha (100,000 Square meters) is divided into around 1,000 grids squares of 100 Sq. meters each in Strata 1.1 and 2.0 and around 5,000 grids squares of 100 Sq. meters each in Stratum 3.0. A point is placed at the center of every grid square to make a grid point (A grid point is a geographical located landmark in the segment having a distance of 10 Meters with the following grid).

A random sample of 5% of the total grid points is selected in each segment of strata 1.1 and 2.0 whereas random sample of 2% of total grid points is selected in each segment of stratum 3 for screening (as shown in Figure 4).

Figure 3. Segment map with sampled grid points



c. Sample size determination

For the 2018 SAS the sample size was downsized due to financial resources constraint from 960 PSUs up to 780 PSUs for the entire country which then made it possible to randomly select a corresponding 780 SSUs (Segments) for allocation across the three main agricultural strata and selection was made using simple random sampling for segment data collection in Season A and B. Table 3 shows the distribution of the selected segments in each district.

Table 3. Selected segments per district for season A

District	Number of segments	Total area in ha	Share (%)
Nyarugenge	20	201.3	1.8
Gasabo	20	198.4	1.8
Kicukiro	16	160.4	1.5
Nyanza	25	248.3	2.2
Gisagara	27	270.1	2.4
Nyaruguru	20	199.0	1.8
Huye	24	321.3	2.9
Nyamagabe	20	201.1	1.8
Ruhango	20	200.9	1.8
Muhanga	20	199.9	1.8
Kamonyi	20	203.4	1.8
Karongi	20	200.4	1.8
Rutsiro	24	395.9	3.6
Rubavu	18	263.6	2.4
Nyabihu	20	201.7	1.8
Ngororero	24	405.6	3.7
Rusizi	22	220.8	2.0
Nyamasheke	20	201.4	1.8
Rulindo	20	201.0	1.8
Gakenke	20	198.6	1.8
Musanze	20	198.6	1.8
Burera	20	198.8	1.8
Gicumbi	20	200.8	1.8
Rwamagana	24	240.2	2.2
Nyagatare	60	1,087.7	9.9
Gatsibo	45	1,098.7	10.0
Kayonza	53	1,498.2	13.6
Kirehe	53	1,173.2	10.6
Ngoma	16	160.9	1.5
Bugesera	49	488.3	4.4
Total	**780**	**11,038.4**	**100**

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d. Data Collection activity

Data collection is subdivided into two phases.

The first Phase, which is a screening of plots, covers all sampled segments. It consists of delineating all plots in which the sampled grids points are fallen and recording related information using screening questionnaire. Basically, this phase is conducted in the mid of season (December 2018) because it is where all crops are at growth stage and allow to determine plot size, land use, cropping system (pure or mixed), type of crop (seasonal, perennial), crop share in the plot and expected harvesting period.

The second phase consists of interviewing each farmer associated with cultivation of the sampled plots from screened plots and each farm of the LSF. This phase is conducted in the period of harvesting where farmers are requested to provide information about sowing period and harvesting period, inputs used, agricultural practices done on the plots, the crop production and its use.

III. Findings

This report shows the findings of SAS 2018 Season A which has been conducted from December 10th, 2017 to January 30th, 2018. A total number of 44,225 sampled grids gave a total number of 26,344 plots countrywide in phase 1 of plots screening, then a subsample of 10,355 plots for phase 2 purpose was selected from all cultivated plots in season A in the sampled segments. Furthermore, enumerated Large Scale Farmers in phase 1 were 219 in 2018 Season A and only 214 had cultivated land and have been interviewed during phase 2.

This report highlights the key results related to area, crop yield and production, agricultural inputs, and agricultural practices.

1. Area

The crop area is obtained as a product of plot area and its share in the plot, then aggregated at segment level which is finally weighted at stratum level to obtain total crop area for the district.

In the previous year's reports only cultivated area was presented but this year improvement has been made to introduce new concept of harvested area. It should be noted that for perennial crops harvested area is less or equal to cultivated area due to the fact that all cultivated area for perennial crops is not frequently harvested in the same season while for the seasonal crops, the cultivated area is totally harvested in the same season. In this report, also fodder crops which were classified into other crops were reported separately.

The results of the 2018 Season A indicate that the four main cultivated crops in terms of area cultivated are Maize at 218,179 ha is the largest planted crop which is a 4% increase in cultivated area compared with the 2017 Season A crop estimate, the second largest planted crop is Bush bean at 202,996 ha which is a 8% increase in cultivated area from 2017 Season A, Cassava at 194,717 ha is the third largest planted crop but this is a 11% decrease in cultivated area from 2017 Season A while Banana for beer are the fourth largest cultivated crop at 111,213 ha which is a 5% increase from 2017 Season A estimates. The district with the largest overall 2017 Season A crop cultivated area was Nyagatare at 82,054 ha, the second largest was Kirehe at 74,394 ha, and the third largest was Gatsibo at 73,028 ha (See table 5).

Other area related details such as land use area, cultivated area, harvested area and plot size are found in appendix (tables 4,6 and 7).

2. Crop yield

Crop yield, as one of the agriculture indicators, is defined as total amount of harvested crop over the area of that crop in the district.

In the previous reports yield was calculated by production of crop in the plot over cultivated area, but in this season A 2018 report there was a change in yield calculation whereby yield is calculated by using harvested area of that plot and this was the reason behind an increase in yield of perennial crops.

The results of the 2018 Season A indicate that the overall yields of the four main crops grown in terms of cultivated area in Season A were: 1,525 kg/ha for Maize, 808 kg/ha for Bush bean , 13,540 kg/ha for cassava and 12,271 kg/ha for banana for beer (See table 8).

3. Crop Production

Crop production is the product of crop yield and harvested crop area.

The results of the 2018 Season A indicate that the production of the four main crops grown in terms of cultivated area in Season A increased. Maize was 332,670 MT, a 6% increase from the 2017 season A production estimates, Bush bean was 164,011 MT, a 13% increase from the 2017 Season A production estimates and cassava was 486,440 MT, a 8% increase from 2017 season A production estimates while Banana for beer undergoes a decrease of 4% compared to 2017 season A production, it has 434,356 MT in 2018 season A (See table 9). Details about the use of crop production are found in appendix (tables 10 and 11).

4. Agricultural inputs

The information about agricultural inputs is presented in terms of percentage of plots in which inputs were applied.

- ***Use of seeds***

In 2018 Season A, for small scale farmers, in 89% of all cultivated plots traditional seeds were sown, while in 11% of them improved seeds were sown. For Large Scale Farmers, in 46.2% of all cultivated plots traditional seeds were sown, whereas in 53.8% of them improved seeds were used (See table 17).

- ***Use of fertilizers***

In 2018 Season A, For small scale farmers, in 48.2% of all cultivated plots organic fertilizers were applied while inorganic fertilizers were applied in 24.8% of all plots. For Large Scale Farmers, organic fertilizers and inorganic fertilizers were applied in 50.8% and 42.8% of all cultivated plots respectively (See table 23 and 24). Among inorganic fertilizer types, Urea was most used for both small and large scale famers at 37.2% and 37.7% respectively (See table 25).

- ***Use of pesticides***

In 2018 Season A, for small scale farmers pesticides were applied in 19.5% of all cultivated plots while for Large Scale Farmers pesticides were applied in 42.1% of all cultivated plots. (See table 26). Among pesticides types, Rocket was most used for both small and large scale famers at 34.6% and 38.5% respectively (See table 27).

5. Agricultural practices

The information about agricultural practices is presented in terms of percentage of plots in which agricultural practices were done.

- ***Irrigation practices***

In 2018 season A, for small scale farmers, irrigation was practised in 5% of all cultivated plots and in 18.5% of all cultivated plots for Large Scale Farmers (See table 28).

Details on irrigation types and source of water used for irrigation are found in appendix (Tables 29, 30, 31, 32).

- ***Anti-erosion activities***

In 2018 season A, for small scale farmers 68.3 % of all plots anti-erosion activities have been done while for Large Scale Farmers, 63.5 % of all plots anti-erosion activities have been done (See table 33).

Details on types of anti-erosion activities types and degree of erosion are found in appendix (Tables 34, 35).

APPENDIX
MAIN TABLES

1. Area

Table 4: Agricultural land use for potential arable land per district (Ha)

District	Agricultural Land	Pasture	Fallow	Non-agricultural land	Total
Nyarugenge	4,205	33	1,316	1,991	7,546
Gasabo	18,476	273	3,557	5,690	27,997
Kicukiro	4,166		1,523	1,721	7,409
Nyanza	29,816	2,029	11,260	14,128	57,233
Gisagara	25,567	185	7,078	19,965	52,795
Nyaruguru	13,651		8,764	24,714	47,130
Huye	18,253	822	7,316	17,511	43,902
Nyamagabe	18,793		11,856	22,815	53,464
Ruhango	31,266		10,769	13,862	55,897
Muhanga	32,616		6,651	11,817	51,083
Kamonyi	36,669	555	6,570	13,252	57,046
Karongi	24,569	49	7,565	24,462	56,646
Rutsiro	26,181	5,466	4,935	18,292	54,874
Rubavu	15,463	1,130	2,541	8,508	27,641
Nyabihu	25,432	885	2,744	8,941	38,001
Ngororero	25,277	3,037	5,299	22,166	55,780
Rusizi	25,386		4,136	9,813	39,335
Nyamasheke	22,960		4,279	18,130	45,369
Rulindo	26,563		2,362	14,584	43,509
Gakenke	38,160		2,212	16,905	57,276
Musanze	24,876	2,036	722	7,040	34,674
Burera	29,002	107	2,938	13,424	45,471
Gicumbi	44,431	778	10,038	8,201	63,448
Rwamagana	37,255	2,692	5,451	11,472	56,870
Nyagatare	68,425	73,688	2,161	12,334	156,608
Gatsibo	56,026	17,801	1,558	11,193	86,579
Kayonza	49,441	32,249	6,605	23,212	111,508
Kirehe	56,410	4,376	3,544	24,271	88,601
Ngoma	41,680	3,886	7,735	14,305	67,606
Bugesera	42,669	29	24,753	30,254	97,705
SSF Total	**913,685**	**152,104**	**178,237**	**444,974**	**1,689,000**
LSF Total	**21,332**	**7,149**	**1,953**	**1,049**	**31,483**
Total	**935,017**	**159,252**	**180,191**	**446,023**	**1,720,483**

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Table 5: Season A Cultivated area by crop type by District (ha)

Crop/ crop category	Kigali City				Southern Province								
	Nyarugenge	Gasabo	Kicukiro	Total	Nyanza	Gisagara	Nyaruguru	Huye	Nyamagabe	Ruhango	Muhanga	Kamonyi	Total
Cereals	**398**	**3,779**	**957**	**5,134**	**5,626**	**8,262**	**2,482**	**3,725**	**2,346**	**1,568**	**2,674**	**4,820**	**31,502**
Maize	397	3,750	956	**5,102**	4,270	6,079	2,304	2,129	2,284	1,386	1,650	4,814	**24,916**
Sorghum	-	-	-	**-**	1,064	140	33	19	-	-	-	-	**1,257**
Paddy rice	-	1	-	**1**	33	1,325	0	1,233	-	67	8	6	**2,672**
Wheat	-	-	-	**-**	-	-	55	-	-	-	-	-	**55**
Other cereals	1	27	2	**30**	259	718	88	344	62	115	1,016	-	**2,603**
Tubers and Roots	**1,284**	**4,315**	**1,137**	**6,736**	**13,649**	**6,988**	**10,984**	**6,090**	**13,063**	**24,725**	**14,188**	**16,383**	**106,070**
Cassava	911	2,615	434	**3,960**	10,587	4,061	4,198	3,830	5,255	21,812	8,208	11,436	**69,386**
Sweet potato	267	1,300	624	**2,191**	2,348	2,427	4,987	1,786	5,613	2,066	4,276	3,678	**27,181**
Irish potato	18	358	45	**421**	578	302	1,239	411	1,775	401	162	284	**5,152**
Taro &Yams	87	43	35	**165**	136	198	560	64	420	446	1,543	985	**4,351**
Bananas	**1,449**	**2,262**	**1,226**	**4,937**	**4,891**	**7,130**		**3,958**	**4,465**	**7,609**	**15,986**	**9,868**	**53,907**
Cooking banana	262	950	424	**1,636**	534	1,087	736	576	468	629	1,385	1,073	**6,488**
Dessert banana	128	598	208	**934**	1,903	933	424	1,343	468	1,341	2,626	1,892	**10,930**
Banana for beer	1,059	714	595	**2,368**	2,453	5,111	1,634	2,039	3,529	5,638	11,975	6,903	**39,282**
Legumes and Pulses	**1,223**	**8,619**	**1,588**	**11,429**	**16,913**	**13,921**	**5,975**	**10,889**	**10,485**	**16,716**	**13,779**	**16,775**	**105,453**
Beans	**1,125**	**7,509**	**1,432**	**10,066**	**14,145**	**11,754**	**4,385**	**8,922**	**7,390**	**12,116**	**10,152**	**13,365**	**82,229**
Bush bean	1,112	7,418	1,407	**9,936**	12,290	10,833	1,191	7,107	2,790	9,923	7,262	12,681	**64,077**
Climbing bean	13	92	25	**130**	1,855	922	3,194	1,815	4,600	2,193	2,889	684	**18,152**
Pea	1	177	10	**188**	560	89	610	431	1,800	304	155	612	**4,559**
Groundnut	41	504	64	**608**	1,205	480	-	159	-	1,390	123	1,225	**4,581**
Soybean	56	428	82	**567**	1,003	1,599	981	1,378	1,295	2,907	3,349	1,573	**14,084**
Vegetables and Fruits	**272**	**503**	**188**	**963**	**298**	**816**	**169**	**659**	**373**	**509**	**547**	**1,170**	**4,540**
Vegetables	248	503	156	**907**	166	669	169	587	320	164	528	990	**3,592**
Fruits	23	-	32	**55**	132	147	-	72	53	345	19	180	**948**
Fodder crops	**408**	**1,268**	**98**	**1,774**	**194**	**272**	**430**	**49**	**268**	**288**	**206**	**339**	**2,046**
Other crops	**719**	**434**	**49**	**1,202**	**2,477**	**1,196**	**1,239**	**1,013**	**603**	**1,527**	**827**	**1,547**	**10,430**
Developed land	**5,752**	**21,180**	**5,243**	**32,175**	**44,048**	**38,585**	**24,073**	**26,384**	**31,603**	**52,942**	**48,206**	**50,902**	**316,743**
Agricultural physical land	**4,205**	**18,476**	**4,166**	**26,847**	**29,816**	**25,567**	**13,651**	**18,253**	**18,793**	**31,266**	**32,616**	**36,669**	**206,631**
Fallow land	**1,316**	**3,557**	**1,523**	**6,396**	**11,260**	**7,078**	**8,764**	**7,316**	**11,856**	**10,769**	**6,651**	**6,570**	**70,263**

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Table 5: Season A Cultivated area by crop type by District (ha) (cont'd)

	Western Province								Northern Province					
Crop/ crop category	**Karongi**	**Rutsiro**	**Rubavu**	**Nyabihu**	**Ngororero**	**Rusizi**	**Nyamasheke**	**Total**	**Rulindo**	**Gakenke**	**Musanze**	**Burera**	**Gicumbi**	**Total**
Cereals	**4,928**	**8,018**	**3,430**	**3,218**	**5,014**	**6,268**	**3,406**	**34,282**	**5,355**	**9,937**	**9,380**	**7,986**	**6,352**	**39,009**
Maize	4,920	7,567	3,396	2,235	4,393	5,642	3,127	**31,279**	5,212	9,716	5,993	6,782	5,682	**33,385**
Sorghum	8	240	34	263	221	9	66	**840**	-	-	1,654	1,109	471	**3,234**
Paddy rice	-	-	-	-	-	617	213	**831**	-	-	-	-	-	**-**
Wheat	-	198	-	720	395	-	-	**1,313**	137	-	1,733	95	130	**2,095**
Other cereals	-	13	-	-	6	-	-	**19**	5	221	-	-	69	**295**
Tubers and Roots	**16,143**	**10,075**	**6,121**	**11,506**	**14,630**	**19,809**	**26,910**	**105,195**	**9,788**	**13,683**	**7,058**	**7,808**	**13,928**	**52,264**
Cassava	9,069	3,163	32	999	5,283	17,389	21,183	**57,118**	5,525	5,199	70	266	2,787	**13,847**
Sweet potato	5,339	2,796	767	3,046	6,102	1,438	5,117	**24,605**	3,410	5,460	1,297	2,488	6,152	**18,807**
Irish potato	1,035	3,686	5,288	7,370	2,257	116	19	**19,771**	682	2,119	5,571	4,966	4,851	**18,188**
Taro &Yams	700	430	34	92	987	866	592	**3,701**	171	905	121	88	137	**1,421**
Bananas	**7,686**	**5,394**	**790**	**1,371**	**8,954**	**4,055**	**5,133**	**33,382**	**7,306**	**12,186**	**871**	**1,822**	**9,004**	**31,188**
Cooking banana	659	777	629	441	568	1,891	1,692	**6,657**	1,273	2,117	81	657	3,807	**7,935**
Dessert banana	648	1,692	54	328	531	123	388	**3,764**	1,405	2,383	220	210	2,446	**6,664**
Banana for beer	6,379	2,925	107	602	7,854	2,041	3,053	**22,961**	4,628	7,686	570	955	2,750	**16,589**
Legumes and Pulses	**7,364**	**6,914**	**3,721**	**7,400**	**8,733**	**7,913**	**6,945**	**48,989**	**13,480**	**11,818**	**2,901**	**11,727**	**20,700**	**60,626**
Beans	**6,550**	**5,603**	**3,592**	**5,641**	**7,181**	**7,558**	**4,805**	**40,930**	**12,436**	**10,315**	**2,738**	**9,710**	**17,874**	**53,072**
Bush bean	3,228	848	7	290	1,375	5,558	2,108	**13,414**	9,565	1,770	144	1,270	6,663	**19,411**
Climbing bean	3,322	4,755	3,585	5,351	5,806	2,000	2,696	**27,515**	2,872	8,545	2,593	8,440	11,211	**33,661**
Pea	325	384	129	1,731	683	104	19	**3,375**	259	562	154	1,968	2,117	**5,061**
Groundnut	70	-	-	-	-	30	474	**574**	139	63	-	-	590	**792**
Soybean	419	927	-	28	869	221	1,647	**4,110**	646	877	10	50	119	**1,702**
Vegetables and Fruits	**806**	**814**	**605**	**843**	**786**	**1,278**	**515**	**5,648**	**517**	**830**	**898**	**472**	**1,026**	**3,742**
Vegetables	580	387	579	696	514	536	367	**3,659**	499	385	728	377	903	**2,892**
Fruits	227	427	27	147	271	742	148	**1,989**	18	444	170	95	122	**850**
Fodder crops	**229**	**555**	**25**	**37**	**405**	**126**	**409**	**1,786**	**255**	**591**	**151**	**438**	**154**	**1,589**
Other crops	**706**	**3,118**	**991**	**2,212**	**480**	**2,228**	**3,943**	**13,678**	**1,160**	**1,605**	**1,530**	**470**	**840**	**5,604**
Developed land	**37,862**	**34,889**	**15,683**	**26,587**	**39,000**	**41,678**	**47,261**	**242,960**	**37,860**	**50,649**	**22,789**	**30,722**	**52,002**	**194,022**
Agricultural physical land	**24,569**	**26,181**	**15,463**	**25,432**	**25,277**	**25,386**	**22,960**	**165,269**	**26,563**	**38,160**	**24,876**	**29,002**	**44,431**	**163,032**
Fallow land	**7,565**	**4,935**	**2,541**	**2,744**	**5,299**	**4,136**	**4,279**	**31,499**	**2,362**	**2,212**	**722**	**2,938**	**10,038**	**18,272**

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Table 5: Season A Cultivated area by crop type by District (ha) (cont'd)

	Eastern Province								National				
Crop/ crop category	**Rwamagana**	**Nyagatare**	**Gatsibo**	**Kayonza**	**Kirehe**	**Ngoma**	**Bugesera**	**Total**	**SSF Total**	**LSF Total**	**Total 2018A**	**Total 2017A**	**Change**
Cereals	**10,462**	**43,228**	**23,730**	**17,471**	**18,639**	**18,180**	**13,389**	**145,099**	**255,027**	**17,325**	**272,352**	**268,128**	2%
Maize	10,200	30,045	20,623	14,003	17,122	17,942	8,673	**118,609**	213,292	4,887	218,179	210,743	4%
Sorghum	-	11,998	1,937	2,422	1,001	-	4,438	**21,796**	27,127	25	27,151	29,908	-9%
Paddy rice	75	497	15	343	112	2	60	**1,103**	4,606	12,332	16,938	16,920	0%
Wheat	-	58	889	-	-	-	-	**947**	4,411	79	4,490	3,242	39%
Other cereals	187	631	267	702	404	236	217	**2,645**	5,591	2	5,594	7,316	-24%
Tubers and Roots	**8,722**	**8,955**	**7,849**	**13,032**	**13,506**	**10,704**	**11,184**	**73,952**	**344,216**	**199**	**344,416**	**380,299**	-9%
Cassava	5,571	5,783	4,516	9,628	10,508	7,920	6,452	**50,377**	194,688	29	194,717	218,391	-11%
Sweet potato	1,529	1,511	2,160	1,537	1,943	2,063	3,854	**14,598**	87,381	75	87,456	87,209	0%
Irish potato	1,343	1,479	1,018	1,639	963	595	172	**7,209**	50,741	95	50,836	39,342	29%
Taro &Yams	278	182	154	227	92	126	707	**1,767**	11,406	0	11,406	35,356	-68%
Bananas	**10,518**	**9,498**	**19,739**	**15,914**	**17,666**	**14,224**	**12,976**	**100,536**	**226,743**	**104**	**226,847**	**237,940**	-5%
Cooking banana	7,217	6,693	8,800	12,082	11,812	11,392	4,737	**62,732**	85,448	76	85,524	96,640	-12%
Dessert banana	990	349	2,487	1,536	203	553	1,680	**7,797**	30,090	20	30,110	35,437	-15%
Banana for beer	2,311	2,456	8,452	2,297	5,652	2,279	6,559	**30,006**	111,206	7	111,213	105,862	5%
Legumes and Pulses	**12,338**	**18,982**	**18,004**	**20,312**	**22,484**	**11,803**	**15,273**	**119,195**	**345,694**	**1,130**	**346,824**	**324,924**	7%
Beans	**11,014**	**13,756**	**16,075**	**18,348**	**20,058**	**9,874**	**11,066**	**100,191**	**286,488**	**730**	**287,218**	**268,877**	7%
Bush bean	10,720	12,679	14,436	18,140	18,872	9,723	10,876	**95,446**	202,285	712	202,996	187,323	8%
Climbing bean	294	1,076	1,638	208	1,187	151	191	**4,744**	84,203	18	84,222	80,904	4%
Pea	148	601	141	345	382	314	4	**1,935**	15,119	3	15,121	9,392	61%
Groundnut	841	3,965	1,329	1,336	1,514	1,321	3,607	**13,913**	20,468	5	20,474	25,004	-18%
Soybean	335	660	458	283	530	294	596	**3,156**	23,619	392	24,011	22,301	8%
Vegetables and Fruits	**1,507**	**340**	**284**	**547**	**144**	**963**	**901**	**4,686**	**19,578**	**190**	**19,769**	**26,392**	-25%
Vegetables	730	313	248	512	97	282	460	**2,643**	13,693	101	13,794	20,059	-31%
Fruits	776	27	35	36	46	681	440	**2,043**	5,885	89	5,975	6,333	-6%
Fodder crops	**796**	**95**	**154**	**122**	**62**	**138**	**95**	**1,462**	**8,656**	**447**	**9,104**	**NA**	NA
Other crops	**2,258**	**955**	**3,270**	**895**	**1,894**	**1,765**	**95**	**11,132**	**42,046**	**279**	**42,325**	**26,060**	62%
Developed land	**46,600**	**82,054**	**73,028**	**68,293**	**74,394**	**57,778**	**53,913**	**456,061**	**1,241,961**	**19,675**	**1,261,636**	**1,263,743**	0%
Agricultural physical land	**37,255**	**68,425**	**56,026**	**49,441**	**56,410**	**41,680**	**42,669**	**351,906**	**913,685**	**21,332**	**935,017**	**889,784**	5%
Fallow land	**5,451**	**2,161**	**1,558**	**6,605**	**3,544**	**7,735**	**24,753**	**51,807**	**178,237**	**1,953**	**180,191**	**215,853**	-17%

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Table 6. Season A Harvested area by crop type per district(ha)

	Kigali City				Southern Province								
Crop/ Crop category	**Nyarugenge**	**Gasabo**	**Kicukiro**	**Total**	**Nyanza**	**Gisagara**	**Nyaruguru**	**Huye**	**Nyamagabe**	**Ruhango**	**Muhanga**	**Kamonyi**	**Total**
Cereals	**398**	**3,779**	**957**	**5,134**	**5,626**	**8,262**	**2,481**	**3,725**	**2,346**	**1,568**	**2,674**	**4,820**	**31,502**
Maize	397	3,750	956	**5,102**	4,270	6,079	2,304	2,129	2,284	1,386	1,650	4,814	**24,916**
Sorghum	-	-	-	**-**	1,064	140	33	19	-	-	-	-	**1,257**
Paddy rice	-	1	-	**1**	33	1,325	-	1,233	-	67	8	6	**2,671**
Wheat	-	-	-	**-**	-	-	55	-	-	-	-	-	**55**
Other cereals	1	27	2	**30**	259	718	88	344	62	115	1,016	-	**2,603**
Tubers and Roots	**485**	**2,015**	**728**	**3,228**	**3,631**	**3,018**	**6,943**	**2,718**	**8,293**	**10,364**	**6,615**	**7,637**	**49,219**
Cassava	113	314	25	**452**	569	91	157	458	485	7,450	634	2,690	**12,534**
Sweet potato	267	1,300	624	**2,191**	2,348	2,427	4,987	1,786	5,613	2,066	4,276	3,678	**27,181**
Irish potato	18	358	45	**421**	578	302	1,239	411	1,775	401	162	284	**5,152**
Taro & Yams	87	43	35	**165**	136	198	560	64	420	446	1,543	985	**4,351**
Bananas	**454**	**492**	**422**	**1,368**	**1,255**	**1,025**		**775**	**1,401**	**1,726**	**5,937**	**2,441**	**14,558**
Cooking banana	66	196	154	**417**	151	132	72	135	137	159	529	253	**1,569**
Dessert banana	17	139	47	**202**	333	47	27	99	46	103	326	322	**1,304**
Banana for beer	371	156	221	**748**	771	846	156	540	1,218	1,464	5,081	1,865	**11,941**
Legumes and Pulses	**1,223**	**8,619**	**1,588**	**11,429**	**16,913**	**13,921**	**5,975**	**10,889**	**10,485**	**16,716**	**13,779**	**16,775**	**105,453**
Beans	**1,125**	**7,509**	**1,432**	**10,066**	**14,145**	**11,754**	**4,385**	**8,922**	**7,390**	**12,116**	**10,152**	**13,365**	**82,229**
Bush bean	1,112	7,418	1,407	**9,936**	12,290	10,833	1,191	7,107	2,790	9,923	7,262	12,681	**64,077**
Climbing bean	13	92	25	**130**	1,855	922	3,194	1,815	4,600	2,193	2,889	684	**18,152**
Pea	1	177	10	**188**	560	89	610	431	1,800	304	155	612	**4,559**
Groundnut	41	504	64	**608**	1,205	480	-	159	-	1,390	123	1,225	**4,581**
Soybean	56	428	82	**567**	1,003	1,599	981	1,378	1,295	2,907	3,349	1,573	**14,084**
Vegetables and Fruits	**270**	**503**	**178**	**952**	**166**	**754**	**169**	**635**	**320**	**438**	**547**	**1,151**	**4,179**
Vegetables	248	430	156	**834**	166	669	169	587	320	164	528	990	**3,592**
Fruits	22	73	23	**118**	-	86	-	48	-	274	19	160	**587**
Fodder crops	306	1,160	97	**1,562**	161	272	311	43	239	252	82	320	**1,681**
Other crops	110	140	19	**269**	555	-	142	-	120	75	174	-	**1,066**
Developped land	**3,246**	**16,707**	**3,989**	**23,942**	**28,307**	**27,252**	**16,021**	**18,786**	**23,203**	**31,138**	**29,808**	**33,143**	**207,658**
Total Physical Land	**4,205**	**18,476**	**4,166**	**26,847**	**29,816**	**25,567**	**13,651**	**18,253**	**18,793**	**31,266**	**32,616**	**36,669**	**206,631**
Fallow	**1,316**	**3,557**	**1,523**	**6,396**	**11,260**	**7,078**	**8,764**	**7,316**	**11,856**	**10,769**	**6,651**	**6,570**	**70,263**

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Table 6. Season A Harvested area by crop type per district(ha) (cont'd)

Crop/ Crop category	western Prvince								Northern Province					
	Karongi	Rutsiro	Rubavu	Nyabihu	Ngororero	Rusizi	Nyamasheke	Total	Rulindo	Gakenke	Musanze	Burera	Gicumbi	Total
Cereals	**4,928**	**8,018**	**3,430**	**3,218**	**5,014**	**6,268**	**3,406**	**34,282**	**5,355**	**9,937**	**9,380**	**7,986**	**6,352**	**39,009**
Maize	4,920	7,567	3,396	2,235	4,393	5,642	3,127	**31,279**	5,212	9,716	5,993	6,782	5,682	**33,385**
Sorghum	8	240	34	263	221	9	66	**840**	-	-	1,654	1,109	471	**3,234**
Paddy rice	-	-	-	-	-	617	213	**831**	-	-	-	-	-	**-**
Wheat	-	198	-	720	395	-	-	**1,313**	137	-	1,733	95	130	**2,095**
Other cereals	-	13	-	-	6	-	-	**19**	5	221	-	-	69	**295**
Tubers and Roots	**8,750**	**7,050**	**6,107**	**10,604**	**10,110**	**5,006**	**12,317**	**59,944**	**4,643**	**8,755**	**6,989**	**7,567**	**11,436**	**39,392**
Cassava	1,676	138	18	97	763	2,586	6,589	**11,867**	381	272	1	25	296	**975**
Sweet potato	5,339	2,796	767	3,046	6,102	1,438	5,117	**24,605**	3,410	5,460	1,297	2,488	6,152	**18,807**
Irish potato	1,035	3,686	5,288	7,370	2,257	116	19	**19,771**	682	2,119	5,571	4,966	4,851	**18,188**
Taro & Yams	700	430	34	92	987	866	592	**3,701**	171	905	121	88	137	**1,421**
Bananas	**2,467**	**1,994**	**86**	**407**	**3,026**	**979**	**1,328**	**10,287**	**2,208**	**4,657**	**291**	**662**	**3,204**	**11,023**
Cooking banana	205	311	63	142	211	455	368	**1,756**	336	849	20	211	1,376	**2,792**
Dessert banana	151	266	11	30	85	13	36	**592**	252	500	80	59	741	**1,631**
Banana for beer	2,111	1,416	12	235	2,730	511	924	**7,939**	1,621	3,309	191	392	1,087	**6,600**
Legumes and Pulses	**7,364**	**6,914**	**3,721**	**7,400**	**8,733**	**7,913**	**6,945**	**48,989**	**13,480**	**11,818**	**2,901**	**11,727**	**20,700**	**60,626**
Beans	**6,550**	**5,603**	**3,592**	**5,641**	**7,181**	**7,558**	**4,805**	**40,930**	**12,436**	**10,315**	**2,738**	**9,710**	**17,874**	**53,072**
Bush bean	3,228	848	7	290	1,375	5,558	2,108	**13,414**	9,565	1,770	144	1,270	6,663	**19,411**
Climbing bean	3,322	4,755	3,585	5,351	5,806	2,000	2,696	**27,515**	2,872	8,545	2,593	8,440	11,211	**33,661**
Pea	325	384	129	1,731	683	104	19	**3,375**	259	562	154	1,968	2,117	**5,061**
Groundnut	70	-	-	-	-	30	474	**574**	139	63	-	-	590	**792**
Soybean	419	927	-	28	869	221	1,647	**4,110**	646	877	10	50	119	**1,702**
Vegetables and Fruits	**667**	**690**	**605**	**843**	**692**	**678**	**469**	**4,646**	**509**	**816**	**898**	**377**	**995**	**3,594**
Vegetables	580	387	579	696	514	536	367	**3,659**	499	385	728	377	903	**2,892**
Fruits	88	303	27	147	178	142	102	**987**	10	430	170	-	92	**702**
Fodder crops	159	261	25	37	383	103	400	**1,367**	204	591	151	354	116	**1,415**
Other crops	461	781	765	1,994	67	841	986	**5,895**	325	317	1,517	464	263	**2,885**
Developped land	**24,796**	**25,709**	**14,739**	**24,504**	**28,024**	**21,787**	**25,850**	**165,409**	**26,724**	**36,891**	**22,127**	**29,138**	**43,066**	**157,945**
Total Physical Land	**24,569**	**26,181**	**15,463**	**25,432**	**25,277**	**25,386**	**22,960**	**165,269**	**26,563**	**38,160**	**24,876**	**29,002**	**44,431**	**163,032**
Fallow	**7,565**	**4,935**	**2,541**	**2,744**	**5,299**	**4,136**	**4,279**	**31,499**	**2,362**	**2,212**	**722**	**2,938**	**10,038**	**18,272**

Table 6. Season A Harvested area by crop type per district(ha) (cont'd)

Crop/ Crop category	Eastern Province								National		
	Rwamagana	Nyagatare	Gatsibo	Kayonza	Kirehe	Ngoma	Bugesera	Total	SSF Total	LSF Total	Total 2018A
Cereals	**10,462**	**43,228**	**23,730**	**17,471**	**18,639**	**18,180**	**13,389**	**145,099**	**255,026**	**17,325**	**272,352**
Maize	10,200	30,045	20,623	14,003	17,122	17,942	8,673	**118,609**	213,292	4,887	218,179
Sorghum	-	11,998	1,937	2,422	1,001	-	4,438	**21,796**	27,127	25	27,151
Paddy rice	75	497	15	343	112	2	60	**1,103**	4,606	12,332	16,938
Wheat	-	58	889	-	-	-	-	**947**	4,411	79	4,490
Other cereals	187	631	267	702	404	236	217	**2,645**	5,591	2	5,594
Tubers and Roots	**4,570**	**4,176**	**3,932**	**5,959**	**4,169**	**4,378**	**6,460**	**33,643**	**185,425**	**199**	**185,625**
Cassava	1,419	1,004	599	2,556	1,170	1,593	1,727	**10,069**	35,896	29	35,926
Sweet potato	1,529	1,511	2,160	1,537	1,943	2,063	3,854	**14,598**	87,382	75	87,456
Irish potato	1,343	1,479	1,018	1,639	963	595	172	**7,209**	50,741	95	50,836
Taro & Yams	278	182	154	227	92	126	707	**1,767**	11,406	0	11,406
Bananas	**2,529**	**2,128**	**4,687**	**3,463**	**3,752**	**3,281**	**4,598**	**24,438**	**61,929**	**22**	**61,951**
Cooking banana	1,793	1,498	2,037	2,622	2,547	2,693	1,651	**14,842**	21,375	14	21,389
Dessert banana	179	20	552	342	21	116	202	**1,432**	5,162	3	5,165
Banana for beer	557	610	2,098	499	1,184	472	2,745	**8,165**	35,393	4	35,397
Legumes and Pulses	**12,338**	**18,982**	**18,004**	**20,312**	**22,484**	**11,803**	**15,273**	**119,195**	**345,694**	**1,130**	**346,824**
Beans	**11,014**	**13,756**	**16,075**	**18,348**	**20,058**	**9,874**	**11,066**	**100,191**	**286,488**	**730**	**287,218**
Bush bean	10,720	12,679	14,436	18,140	18,872	9,723	10,876	**95,446**	202,285	712	202,996
Climbing bean	294	1,076	1,638	208	1,187	151	191	**4,744**	84,203	18	84,222
Pea	148	601	141	345	382	314	4	**1,935**	15,119	3	15,121
Groundnut	841	3,965	1,329	1,336	1,514	1,321	3,607	**13,913**	20,468	5	20,474
Soybean	335	660	458	283	530	294	596	**3,156**	23,619	392	24,011
Vegetables and Fruits	**1,458**	**340**	**269**	**512**	**144**	**963**	**664**	**4,350**	**17,721**	**190**	**17,912**
Vegetables	730	313	248	512	97	282	393	**2,575**	13,552	96	13,649
Fruits	728	27	21	-	46	681	271	**1,775**	4,169	94	4,263
Fodder crops	796	95	87	102	31	138	27	**1,275**	7,300	447	7,748
Other crops	504	235	15	148	47	-	-	**949**	11,064	279	11,343
Developped land	**32,656**	**69,185**	**50,723**	**47,967**	**49,266**	**38,744**	**40,410**	**328,950**	**884,160**	**19,594**	**903,753**
Total Physical Land	**37,255**	**68,425**	**56,026**	**49,441**	**56,410**	**41,680**	**42,669**	**351,906**	**913,685**	**21,332**	**935,017**
Fallow	**5,451**	**2,161**	**1,558**	**6,605**	**3,544**	**7,735**	**24,753**	**51,807**	**178,237**	**1,953**	**180,191**

Table 7. Average plot size by cropping system per district (sqm)

District	Pure plots	Mixed plots	Overall average
Nyarugenge	2,508.5	859.4	1,467.8
Gasabo	1,040.9	938.4	971.8
Kicukiro	1,036.6	1,110.4	1,087.2
Nyanza	905.3	729.6	791.9
Gisagara	588.2	689.5	645.4
Nyaruguru	339.6	374.5	357.3
Huye	880.1	687.2	773.7
Nyamagabe	362.2	352.4	357.0
Ruhango	624.1	564.7	587.7
Muhanga	521.5	435.7	469.3
Kamonyi	535.2	693.0	633.2
Karongi	531.9	466.4	497.6
Rutsiro	658.5	582.5	623.8
Rubavu	1,094.3	842.1	988.3
Nyabihu	750.0	575.5	668.7
Ngororero	537.5	451.8	491.1
Rusizi	1,008.4	743.9	866.4
Nyamasheke	597.0	472.3	531.4
Rulindo	506.4	702.1	626.0
Gakenke	387.6	580.0	496.9
Musanze	1,026.4	676.1	888.4
Burera	694.7	719.9	705.3
Gicumbi	662.3	566.7	614.6
Rwamagana	1,961.7	1,262.1	1,429.5
Nyagatare	2,469.1	1,767.2	2,043.8
Gatsibo	1,896.6	1,475.7	1,627.3
Kayonza	2,124.2	1,883.2	1,956.6
Kirehe	1,783.8	1,741.5	1,753.8
Ngoma	1,088.7	1,045.9	1,056.3
Bugesera	1,360.8	1,067.1	1,202.7
Overall	**1,065.8**	**990.1**	**1,021.6**

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2. Crop Yield

Table 8: Yield of main crops by District (Kg/Ha)

Crop	Nyarugenge	Gasabo	Kicukiro	Nyanza	Gisagara	Nyaruguru	Huye	Nyamagabe	Ruhango	Muhanga	Kamonyi	Karongi	Rutsiro
Maize	942	1,282	1,587	1,720	1,889	2,002	1,775	1,267	1,370	911	1,227	1,165	1,302
Sorghum	-	-	-	1,560	1,722	2,870	882	-	-	-	-	738	1,025
Paddy rice	-	3,981	-	3,770	2,595	-	2,844	-	2,923	670	3,854	-	-
Wheat	-	-	-	-	-	1,074	-	-	-	-	-	-	970
Other Cereals	488	1,981	107	774	451	1,714	430	-	941	893	-	-	616
Cassava	13,180	14,315	15,120	11,649	15,418	12,926	11,581	14,218	16,199	12,659	13,299	11,091	14,977
Sweet potatoes	6,330	8,486	5,686	9,938	5,948	10,134	9,098	8,419	7,315	7,354	9,011	6,909	8,181
Irish potatoes	3,672	5,259	1,687	3,862	3,736	4,934	4,056	7,370	3,818	2,556	4,096	5,143	8,527
Yams & Taro	2,423	2,285	4,035	21,128	1,655	7,998	23,136	4,079	6,330	4,684	6,501	14,831	5,841
Cooking Banana	30,631	17,359	18,219	15,749	15,370	16,396	18,151	20,625	13,202	17,287	29,855	16,575	24,522
Dessert banana	20,020	22,586	24,346	11,755	36,341	14,080	20,297	27,415	13,557	35,788	22,752	9,884	32,995
Banana for beer	11,229	11,001	11,298	9,527	9,692	13,188	17,211	12,291	12,426	10,199	13,644	11,685	15,239
Beans	767	1,053	502	782	1,176	1,273	1,024	975	663	751	854	887	936
Bush bean	766	1,055	503	798	1,155	780	977	816	665	657	859	730	748
Climbing bean	802	908	452	680	1,429	1,457	1,211	1,072	650	986	760	1,040	969
Peas	1,471	646	394	637	1,025	244	711	646	799	800	576	624	167
Ground nuts	362	765	474	523	564	-	384	-	781	840	529	569	-
Soya beans	496	760	1,739	364	474	686	462	279	394	538	466	734	744
Vegetables	12,308	11,188	12,124	3,901	15,597	12,807	12,584	19,954	9,599	8,302	12,478	12,152	13,611
Fruits	15,948	2,131	13,520	-	589	-	66,300	-	1,854	257	5,593	1,696	2,900

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Table 8: Yield of main crops by District (Kg/Ha)*(cont'd)*

Crop	Rubavu	Nyabihu	Ngororero	Rusizi	Nyamasheke	Rulindo	Gakenke	Musanze	Burera	Gicumbi	Rwamagana	Nyagatare	Gatsibo
Maize	1,588	1,831	1,391	1,407	1,160	1,794	1,637	1,565	1,396	1,930	1,536	1,656	1,872
Sorghum	939	1,073	1,091	3,372	2,174	-	-	2,486	1,797	2,094	-	1,363	1,191
Paddy rice	-	-	-	4,519	3,679	-	-	-	-	-	3,262	2,042	2,880
Wheat	-	798	889	-	-	787	-	1,907	437	461	-	963	1,277
Other Cereals	-	-	616	-	-	616	813	-	-	652	314	1,323	703
Cassava	13,410	13,410	7,124	9,355	13,641	14,429	13,035	15,000	10,167	15,377	13,769	15,690	14,597
Sweet potatoes	3,827	6,183	5,731	7,203	7,797	5,963	6,918	6,601	8,168	10,208	6,991	5,381	7,732
Irish potatoes	12,468	14,190	4,971	1,744	5,202	5,839	5,652	7,891	9,771	9,315	6,854	3,135	8,214
Yams & Taro	8,132	9,101	6,847	4,528	4,312	4,592	4,621	8,254	3,011	6,528	6,330	4,786	4,867
Cooking Banana	24,426	15,148	14,109	14,559	10,931	16,587	24,362	17,325	17,313	18,551	21,107	21,688	18,458
Dessert banana	7,700	11,043	8,941	15,400	10,686	22,580	29,600	8,794	11,458	19,717	15,611	10,514	10,594
Banana for beer	9,020	9,236	10,447	15,214	10,625	11,479	14,065	14,945	10,325	15,906	12,247	15,245	15,002
Beans	1,025	1,164	765	819	954	796	818	989	1,176	1,160	1,118	732	1,037
Bush bean	3,471	590	558	834	800	701	494	1,181	1,031	1,100	1,111	739	1,051
Climbing bean	1,020	1,195	814	777	1,074	1,112	885	978	1,197	1,195	1,345	657	914
Peas	597	416	508	513	941	345	751	579	653	802	609	719	521
Ground nuts	-	-	-	562	362	604	524	-	-	578	497	644	486
Soya beans	-	1,110	454	727	648	438	360	875	217	-	293	611	281
Vegetables	10,391	13,655	8,138	12,311	13,100	14,295	9,481	8,883	28,366	9,495	9,748	13,071	12,658
Fruits	6,123	4,754	4,010	37,795	2,395	2,843	10,966	2,646	-	1,196	7,512	4,479	2,894

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Table 8: Yield of main crops by District (Kg/Ha) *(cont'd)*

Crop	Kayonza	Kirehe	Ngoma	Bugesera	LSF Yield	Overall Yield 2018
Maize	1,370	1,193	1,280	1,169	2,458	1,525
Sorghum	995	881	-	1,017	1,216	1,122
Paddy rice	5,197	4,518	3,505	2,201	3,514	3,420
Wheat	-	-	-	-	849	1,325
Other Cereals	410	398	370	1,056	319	712
Cassava	11,821	9,584	15,925	15,397	11,713	13,540
Sweet potatoes	6,287	5,767	5,290	7,707	3,245	7,565
Irish potatoes	3,495	4,185	6,063	2,348	18,634	8,646
Yams & Taro	2,658	1,919	2,702	5,692	1,804	5,623
Cooking Banana	19,894	16,938	18,078	19,155	30,398	18,991
Dessert banana	39,012	27,681	12,597	25,492	28,580	20,671
Banana for beer	13,581	9,460	12,101	12,135	18,977	12,271
Beans	517	673	707	661	999	875
Bush bean	510	672	709	666	1,002	808
Climbing bean	1,176	683	554	378	861	1,035
Peas	483	416	340	759	317	595
Ground nuts	693	502	555	719	407	391
Soya beans	287	596	800	273	1,259	506
Vegetables	11,477	9,802	1,324	13,055	12,942	11,938
Fruits	-	1,306	731	7,085	7,224	6,524

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3. Crop Production

Table 9: Production of main crops by District (MT)

Crop/ Crop category	Kigali City				Southern Province								
	Nyarugenge	Gasabo	Kicukiro	Total	Nyanza	Gisagara	Nyaruguru	Huye	Nyamagabe	Ruhango	Muhanga	Kamonyi	Total
Cereals	**374**	**4,868**	**1,517**	**6,759**	**9,330**	**15,486**	**4,919**	**7,451**	**2,894**	**2,203**	**2,416**	**5,928**	**50,626**
Maize	374	4,809	1,516	**6,699**	7,345	11,482	4,613	3,780	2,894	1,898	1,502	5,905	**39,419**
Sorghum	-	-	-	**-**	1,660	242	95	17	-	-	-	-	**2,014**
Paddy rice	-	5	-	**5**	125	3,438	-	3,506	-	197	5	23	**7,294**
Wheat	-	-	-	**-**	-	-	60	-	-	-	-	-	**60**
Other Cereals	1	54	0	**55**	201	324	151	148	-	108	908	-	**1,840**
Tubers and Roots	**3,456**	**17,509**	**4,140**	**25,104**	**35,063**	**17,290**	**63,165**	**24,687**	**68,948**	**140,157**	**47,115**	**76,483**	**472,908**
Cassava	1,487	4,498	378	**6,363**	6,628	1,399	2,036	5,299	6,895	120,688	8,030	35,770	**186,745**
Sweet potatoes	1,691	11,030	3,546	**16,267**	23,335	14,435	50,540	16,246	47,255	15,115	31,445	33,145	**231,516**
Irish potatoes	66	1,884	76	**2,025**	2,234	1,128	6,112	1,669	13,086	1,529	413	1,163	**27,333**
Yams & Taro	212	97	140	**449**	2,866	328	4,477	1,473	1,712	2,825	7,227	6,406	**27,313**
Bananas	**6,529**	**8,265**	**6,447**	**21,241**	**13,632**	**11,938**		**13,771**	**19,060**	**21,683**	**72,645**	**40,349**	**193,078**
Cooking Banana	2,027	3,410	2,811	**8,247**	2,373	2,028	1,182	2,456	2,824	2,098	9,153	7,568	**29,682**
Dessert banana	335	3,136	1,142	**4,612**	3,916	1,714	384	2,016	1,272	1,390	11,668	7,333	**29,694**
Banana for beer	4,167	1,719	2,495	**8,381**	7,342	8,196	2,053	9,299	14,965	18,195	51,824	25,448	**137,322**
Legumes and Pulses	**907**	**8,735**	**896**	**10,537**	**12,418**	**14,946**	**6,403**	**10,143**	**8,733**	**10,499**	**9,648**	**13,146**	**85,936**
Beans	**863**	**7,909**	**719**	**9,491**	**11,065**	**13,827**	**5,582**	**9,139**	**7,209**	**8,028**	**7,619**	**11,413**	**73,882**
Bush bean	852	7,826	708	**9,386**	9,804	12,510	928	6,941	2,277	6,602	4,770	10,894	**54,725**
Climbing bean	11	83	11	**105**	1,262	1,317	4,653	2,198	4,932	1,426	2,850	520	**19,157**
Peas	1	114	4	**120**	357	91	149	306	1,162	242	124	352	**2,784**
Ground nuts	15	385	30	**430**	630	270	-	61	-	1,085	104	647	**2,798**
Soya beans	28	325	143	**496**	366	758	673	636	362	1,144	1,801	733	**6,472**
Vegetables and Fruits	**3,407**	**4,967**	**2,193**	**10,568**	**646**	**10,478**	**2,160**	**10,584**	**6,382**	**2,082**	**4,392**	**13,252**	**49,976**
Vegetables	3,056	4,811	1,886	**9,754**	646	10,428	2,160	7,383	6,382	1,573	4,388	12,354	**45,314**
Fruits	351	156	689	**1,196**	-	50	-	3,201	-	508	5	897	**4,662**
Other crops	**9,334**	**630**	**111**	**10,075**	**1,752**	**-**	**1,056**	**-**	**-**	**287**	**957**	**-**	**4,052**

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Table 9: Production of main crops by District (MT) (*cont'd)*

Crop/ Crop category	Western Province								Northern Province					
	Karongi	Rutsiro	Rubavu	Nyabihu	Ngororero	Rusizi	Nyamasheke	Total	Rulindo	Gakenke	Musanze	Burera	Gicumbi	Total
Cereals	**5,738**	**10,298**	**5,425**	**4,948**	**6,707**	**10,759**	**4,554**	**48,430**	**9,460**	**16,082**	**16,795**	**11,501**	**12,056**	**65,895**
Maize	5,732	9,852	5,394	4,092	6,111	7,939	3,627	**42,746**	9,349	15,903	9,378	9,467	10,965	**55,061**
Sorghum	6	246	32	282	241	32	142	**981**	-	-	4,112	1,993	986	**7,091**
Paddy rice	-	-	-	-	-	2,789	785	**3,574**	-	-	-	-	-	**-**
Wheat	-	192	-	575	351	-	-	**1,118**	108	-	3,305	42	60	**3,515**
Other Cereals	-	8	-	-	4	-	-	**12**	3	179	-	-	45	**227**
Tubers and Roots	**71,182**	**58,880**	**69,379**	**125,550**	**58,390**	**38,671**	**132,428**	**554,480**	**30,592**	**57,468**	**53,525**	**69,368**	**113,437**	**324,390**
Cassava	18,589	2,062	241	1,297	5,438	24,189	89,883	**141,699**	5,494	3,541	9	258	4,557	**13,859**
Sweet potatoes	36,891	22,874	2,936	18,833	34,974	10,357	39,893	**166,759**	20,333	37,771	8,559	20,320	62,802	**149,785**
Irish potatoes	5,323	31,429	65,927	104,582	11,221	202	99	**218,784**	3,979	11,974	43,960	48,525	45,186	**153,624**
Yams & Taro	10,379	2,515	275	838	6,757	3,923	2,552	**27,239**	785	4,182	997	265	893	**7,122**
Bananas	**29,562**	**37,995**	**1,722**	**4,658**	**32,259**	**14,593**	**14,228**	**135,016**	**29,854**	**82,010**	**3,908**	**8,385**	**57,425**	**181,582**
Cooking Banana	3,405	7,623	1,527	2,158	2,978	6,623	4,027	**28,341**	5,566	20,681	349	3,661	25,528	**55,786**
Dessert banana	1,487	8,790	87	332	763	193	383	**12,035**	5,679	14,790	706	676	14,601	**36,453**
Banana for beer	24,670	21,582	108	2,168	28,517	7,777	9,818	**94,640**	18,609	46,538	2,853	4,047	17,296	**89,343**
Legumes and Pulses	**6,362**	**5,998**	**3,758**	**7,317**	**6,234**	**6,419**	**5,840**	**41,927**	**10,356**	**9,207**	**2,805**	**12,710**	**22,768**	**57,846**
Beans	**5,812**	**5,244**	**3,681**	**6,566**	**5,492**	**6,189**	**4,582**	**37,566**	**9,900**	**8,435**	**2,708**	**11,414**	**20,728**	**53,185**
Bush bean	2,356	634	23	171	767	4,635	1,686	**10,273**	6,708	874	170	1,309	7,329	**16,389**
Climbing bean	3,456	4,610	3,657	6,395	4,725	1,554	2,896	**27,293**	3,193	7,562	2,537	10,105	13,399	**36,796**
Peas	203	64	77	719	347	53	18	**1,482**	89	422	89	1,285	1,699	**3,584**
Ground nuts	40	-	-	-	-	17	172	**228**	84	33	-	-	341	**458**
Soya beans	307	689	-	31	394	160	1,068	**2,651**	283	316	9	11	-	**619**
Vegetables and Fruits	**7,193**	**6,150**	**6,176**	**10,205**	**4,898**	**11,964**	**5,053**	**51,639**	**7,160**	**8,372**	**6,916**	**10,694**	**8,685**	**41,827**
Vegetables	7,045	5,271	6,013	9,506	4,183	6,598	4,807	**43,424**	7,130	3,652	6,468	10,694	8,575	**36,519**
Fruits	1,637	879	163	699	715	5,366	245	**9,704**	29	4,720	449	-	110	**5,308**
Other crops	**711**	**4,142**	**4,139**	**801**	**224**	**1,493**	**3,008**	**14,517**	**485**	**4,134**	**1,314**	**14,289**	**1,648**	**21,871**

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Table 9: Production of main crops by District (MT) (*cont'd)*

Crop/ Crop category	Eastern Province								National				
	Rwamagana	Nyagatare	Gatsibo	Kayonza	Kirehe	Ngoma	Bugesera	Total	SSF Total	LSF Total	Total 2018 A	Total 2017A	Change
Cereals	**15,965**	**68,004**	**42,274**	**23,666**	**21,970**	**23,067**	**15,011**	**209,958**	**381,668**	**55,449**	**437,116**	**429,071**	**2%**
Maize	15,663	49,748	38,602	19,185	20,424	22,972	10,136	**176,730**	320,655	12,015	332,670	324,368	3%
Sorghum	-	16,351	2,307	2,411	882	-	4,514	**26,465**	36,551	30	36,581	41,662	-12%
Paddy rice	243	1,014	43	1,783	504	7	132	**3,726**	14,599	43,335	57,934	55,217	5%
Wheat	-	56	1,135	-	-	-	-	**1,190**	5,883	67	5,950	3,651	63%
Other Cereals	59	835	188	288	161	88	229	**1,847**	3,980	1	3,981	4,173	-5%
Tubers and Roots	**41,197**	**29,397**	**34,558**	**46,205**	**26,631**	**40,240**	**60,722**	**278,950**	**1,655,832**	**2,356**	**1,658,188**	**1,534,398**	**8%**
Cassava	19,537	15,758	8,742	30,208	11,218	25,374	26,593	**137,431**	486,097	343	486,440	451,362	8%
Sweet potatoes	10,693	8,133	16,702	9,663	11,206	10,914	29,702	**97,013**	661,340	243	661,583	574,500	15%
Irish potatoes	9,205	4,635	8,362	5,729	4,031	3,610	403	**35,976**	437,742	1,769	439,512	378,906	16%
Yams & Taro	1,761	871	752	605	176	341	4,024	**8,530**	70,652	0	70,653	129,630	-45%
Bananas	**47,469**	**42,000**	**74,918**	**72,285**	**54,924**	**55,857**	**70,083**	**417,535**	**952,071**	**613**	**952,684**	**985,485**	**-3%**
Cooking Banana	37,848	32,494	37,607	52,157	43,141	48,679	31,628	**283,555**	405,611	433	406,044	415,868	-2%
Dessert banana	2,801	209	5,843	13,347	578	1,465	5,148	**29,392**	112,186	98	112,283	113,032	-1%
Banana for beer	6,820	9,296	31,467	6,781	11,204	5,713	33,306	**104,587**	434,274	82	434,356	456,585	-5%
Legumes and Pulses	**12,916**	**13,463**	**17,522**	**10,662**	**14,726**	**8,057**	**10,074**	**87,420**	**283,666**	**1,226**	**284,891**	**253,560**	**12%**
Beans	**12,310**	**10,075**	**16,674**	**9,488**	**13,492**	**6,981**	**7,315**	**76,335**	**250,460**	**729**	**251,189**	**224,233**	**12%**
Bush bean	11,914	9,368	15,177	9,244	12,682	6,898	7,243	**72,525**	163,298	714	164,011	145,446	13%
Climbing bean	396	707	1,497	244	810	84	72	**3,810**	87,162	16	87,178	78,787	11%
Peas	90	432	74	167	159	107	3	**1,031**	9,000	1	9,001	6,768	33%
Ground nuts	417	2,553	646	926	760	733	2,593	**8,629**	12,544	2	12,546	11,873	6%
Soya beans	98	403	129	81	315	235	163	**1,425**	11,662	493	12,156	10,686	14%
Vegetables and Fruits	**12,586**	**4,215**	**3,204**	**5,872**	**1,014**	**871**	**7,048**	**34,810**	**188,820**	**1,927**	**190,747**	**188,057**	**1%**
Vegetables	7,118	4,092	3,142	5,872	954	374	5,124	**26,677**	161,689	1,249	162,938	133,118	22%
Fruits	5,467	123	61	-	61	498	8,126	**14,336**	35,205	678	35,883	54,940	-35%
Other crops	**3,635**	**2,388**	**410**	**226**	**38**	**-**	**-**	**6,698**	**57,212**	**87**	**57,299**	NA	NA

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Table 10: Use of crop production by small scale farmers

	Sold	Auto consumption	Wages for hired labour	Farm rent	Offered as gift	Exchanged with other things	Seeds	Fodder purposes	Stored	Damaged/ Post harvesting losses	Other usage	Total Produce
Cereals												
Maize	79.9	12.7	0.9	0.8	2.0	0.0	1.1	0.2	1.8	0.0	0.4	100
Paddy rice	93.8	4.0	0.8	0.1	0.2	0.0	0.1	-	0.1	0.8	0.1	100
Sorghum	59.8	24.4	2.1	5.5	2.6	0.4	2.0	0.0	1.9	0.1	1.2	100
Wheat	67.8	22.1	-	-	4.2	-	5.7	-	0.3	-	-	100
Millet	36.6	42.7	-	1.3	5.0	-	4.5	-	10.0	-	-	100
Sun flower	18.1	64.4	1.0	0.6	7.4	-	4.8	0.1	3.1	0.3	0.1	100
Tubers and Roots												
Cassava	50.0	43.8	0.8	1.0	2.7	0.0	-	0.1	0.5	0.1	0.9	100
Irish potato	70.1	9.4	1.1	0.1	2.2	0.0	15.2	0.0	0.9	0.7	0.2	100
Sweet potato	37.9	50.6	2.3	0.9	4.7	0.0	-	1.6	1.7	0.2	0.1	100
Taro	31.6	57.1	1.5	2.4	3.7	0.0	3.3	-	-	0.1	0.3	100
Yam	81.0	11.9	-	-	1.2	-	-	-	-	-	5.9	100
Banana												
Banana for beer	72.3	21.8	0.1	-	4.7	0.0	-	-	-	0.1	1.0	100
Cooking banana	48.9	44.9	1.2	0.0	4.1	0.0	-	0.0	-	0.2	0.7	100
Dessert banana	78.6	16.4	0.0	-	1.8	-	-	0.0	-	0.2	2.9	100
Legumes and Pulses												
Bush bean	39.6	33.1	2.6	1.1	3.9	0.1	9.6	0.0	9.6	0.0	0.2	100
Climbing bean	25.3	49.5	2.8	0.3	6.9	0.2	11.6	-	3.1	0.0	0.2	100
Groundnut	36.4	39.0	0.6	2.6	2.9	0.1	15.5	-	3.0	-	0.0	100
Pea	42.2	37.4	0.2	0.0	6.1	-	10.8	-	3.3	0.0	-	100
Small red bean	24.9	64.5	-	-	2.4	-	8.1	-	-	-	-	100
Soybean	24.6	50.4	0.7	1.4	5.2	0.5	14.1	0.9	1.9	-	0.3	100
Vegetables												
Amaranth	71.4	27.2	-	-	1.4	-	-	-	-	-	-	100
Black eggplant	-	100.0	-	-	-	-	-	-	-	-	-	100
Cabbage	88.0	8.7	0.4	-	2.5	-	-	-	-	0.5	-	100
Carrot	94.9	2.7	1.6	-	0.8	-	-	-	-	-	-	100
Cucumber	56.8	31.8	-	-	11.4	-	-	-	-	-	-	100
Celery	100.0	-	-	-	-	-	-	-	-	-	-	100
Eggplant	56.6	41.3	-	-	1.9	-	0.2	-	-	-	0.1	100
French bean	14.9	80.0	-	-	3.8	-	1.1	-	-	-	0.2	100
Garlic	50.0	-	-	-	0.6	-	49.4	-	-	-	-	100
Leek	93.3	3.3	-	-	1.3	-	-	-	-	2.0	-	100
Other seasonal crop	100.0	-	-	-	-	-	-	-	-	-	-	100
Pepper	63.2	36.8	-	-	-	-	-	-	-	-	-	100
Pumpkin	49.8	30.7	-	-	11.8	-	0.3	-	1.7	4.4	1.4	100
Sugar beet	-	80.0	-	-	20.0	-	-	-	-	-	-	100
Sweet pepper	88.3	8.8	-	-	2.6	-	-	-	-	0.3	-	100
Tomato	56.8	37.9	0.2	-	2.8	0.0	0.0	-	-	2.1	0.1	100
Onion	92.1	4.6	-	-	2.2	-	0.2	-	-	0.9	-	100

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Table 10: Use of crop production by small scale farmers (*cont'd*)

	Sold	Auto consumption	Wages for hired labour	Farm rent	Offered as gift	Exchanged with other things	Seeds	Fodder purposes	Stored	Damaged/ Post harvesting losses	Other usage	Total Produce
Fruits												
Avocado	68.0	21.4	-	-	8.2	-	-	-	-	-	2.4	100
Macadamia	100.0	-	-	-	-	-	-	-	-	-	-	100
Mango	33.6	24.8	-	-	13.2	-	-	-	-	6.6	21.8	100
Papaya	54.5	36.4	-	-	9.1	-	-	-	-	-	-	100
Passion fruit	97.9	1.6	-	-	0.4	-	-	-	-	0.0	-	100
Pineapple	97.1	1.8	-	-	1.0	-	-	-	-	0.1	0.0	100
Sugar cane	100.0	0.0	0.0	-	0.0	-	-	-	-	0.0	-	100
Tree tomato	91.2	7.0	-	-	1.2	-	-	-	-	0.6	-	100
Water melon	94.1	3.7	-	-	2.2	-	-	-	-	-	-	100
Fodder crops												
Maize for fodder	-	-	-	-	-	0.5	-	83.2	16.3	-	-	100
Napia grass for fodder	0.8	-	-	-	0.1	-	-	99.1	-	0.0	0.0	100
Other fodder crop	-	-	-	-	0.7	-	-	99.3	-	-	-	100
Setaria	-	-	-	-	-	-	-	100.0	-	-	-	100
Tripsacum	-	-	-	-	3.2	-	-	96.8	-	-	-	100
Other crops												
Coffee	100.0	-	-	-	-	-	-	-	-	-	-	100
Mulberry	1.9	-	-	-	-	-	-	96.0	-	2.1	-	100
Napia grass	16.7	56.4	0.0	-	0.2	3.6	-	18.2	-	-	4.9	100
Pyrethrum	100.0	-	-	-	-	-	-	-	-	-	-	100

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Table 11: Use of crop production by Large scale farmers scale farmers

	Sold	Auto consumption	Wages for hired labour	Farm rent	Offered as gift	Exchanged with other things	Seeds	Fodder purposes	Stored	Damaged/Post harvesting losses	Other usage	Total Produce
Cereals												
Maize	80.1	18.3	0.0	0.0	0.1	-	0.9	0.2	0.3	0.1	0.0	100
Paddy rice	86.5	12.0	-	-	0.4	-	0.4	0.0	-	0.6	0.0	100
Sorghum	96.2	3.3	-	-	-	-	0.5	-	-	-	-	100
Wheat	93.8	4.7	-	-	0.6	-	0.9	-	-	-	-	100
Millet	-	94.2	-	-	-	-	5.8	-	-	-	-	100
Other cereal	100.0	-	-	-	-	-	-	-	-	-	-	100
Tubers and Roots												
Cassava	99.1	0.5	-	-	0.3	-	-	-	-	-	-	100
Irish potato	63.8	8.9	0.1	-	0.3	-	26.4	-	-	0.4	-	100
Sweet potato	29.6	66.4	1.0	-	1.5	-	-	1.5	-	-	-	100
Taro	-	100.0	-	-	-	-	-	-	-	-	-	100
Banana												
Banana for beer	97.8	1.2	-	-	-	-	-	1.0	-	-	-	100
Cooking banana	93.2	6.5	-	-	0.3	-	-	-	-	0.0	-	100
Dessert banana	85.6	12.8	-	-	1.6	-	-	-	-	-	-	100
Legumes and Pulses												
Bush bean	53.8	44.7	0.3	-	0.3	-	0.9	0.0	0.0	0.0	-	100
Climbing bean	80.1	13.6	-	-	-	-	6.3	-	-	-	-	100
Groundnut	75.6	19.3	-	-	0.9	-	4.2	-	-	-	-	100
Pea	49.6	49.6	-	-	0.9	-	-	-	-	-	-	100
Soybean	67.4	24.8	-	-	0.0	-	4.7	3.2	-	-	-	100
Vegetables												
Amaranth	4.0	96.0	-	-	-	-	-	-	-	-	-	100
Brocolli	100.0	-	-	-	-	-	-	-	-	-	-	100
Cabbage	57.6	42.4	-	-	-	-	-	-	-	-	-	100
Carrot	73.7	26.3	-	-	-	-	-	-	-	-	-	100
Celery	66.7	33.3	-	-	-	-	-	-	-	-	-	100
Cauliflower	83.3	16.7	-	-	-	-	-	-	-	-	-	100
Cucumber	100.0	-	-	-	-	-	-	-	-	-	-	100
Eggplant	17.1	82.9	-	-	-	-	0.0	-	-	-	-	100
French bean	100.0	0.0	-	-	-	-	0.0	-	-	-	-	100
Garlic	-	100.0	-	-	-	-	-	-	-	-	-	100
Letus	-	100.0	-	-	-	-	-	-	-	-	-	100
Onion	89.7	10.2	-	-	0.1	-	-	-	-	-	-	100
Pepper	91.7	8.0	-	-	-	-	-	-	-	0.3	-	100
Pumpkin	87.5	10.9	-	-	-	-	-	-	-	-	1.6	100
Tomato	76.8	23.1	-	-	0.0	-	-	-	-	0.1	-	100
Sweet pepper	81.5	18.5	-	-	-	-	-	-	-	-	-	100
Sugar beet	21.0	68.6	-	-	-	-	-	-	-	-	10.4	100

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Table 11: Use of crop production by Large scale farmers scale farmers (*cont'd*)

	Sold	Auto consumption	Wages for hired labour	Farm rent	Offered as gift	Exchanged with other things	Seeds	Fodder purposes	Stored	Damaged/Post harvesting losses	Other usage	Total Produce
Fruits												
Avocado	82.8	16.0	-	-	0.7	-	-	-	-	0.4	-	100
Lemon	97.0	3.0	-	-	-	-	-	-	-	-	-	100
Macadamia	100.0	-	-	-	-	-	-	-	-	-	-	100
Mango	38.5	61.1	-	-	0.3	-	-	-	-	-	0.1	100
Orange	97.3	2.7	-	-	-	-	-	-	-	-	-	100
Passion fruit	98.5	1.1	-	-	0.4	-	-	-	-	-	-	100
Papaya	98.4	1.6	-	-	-	-	-	-	-	-	-	100
Palm	-	-	-	-	-	-	100.0	-	-	-	-	100
Pineapple	71.9	28.1	-	-	-	-	-	-	-	-	-	100
Tree tomato	99.6	0.4	-	-	-	-	-	-	-	-	-	100
Water melon	84.6	15.4	-	-	-	-	-	-	-	-	-	100
Fodder crops												
Maize for fodder	-	-	-	-	-	-	-	91.8	8.2	-	-	100
Napia grass for fodder	0.0	-	-	-	-	-	-	95.5	4.4	-	-	100
Mucuna	-	-	-	-	-	-	0.3	99.7	-	-	-	100
Soya for fodder	-	-	-	-	-	-	-	100.0	-	-	-	100
Other fodder crop.	-	-	-	-	10.3	-	-	84.0	5.7	-	-	100
Other crops												
Napia grass	100.0	-	-	-	-	-	-	-	-	-	-	100
Pyrethrum	100.0	-	-	-	-	-	-	-	-	-	-	100

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Sowing dates

Table 12: Sowing dates per crop (Percentage) in Segments

Crops	Before 01/09/2017	Between 01-15/09/2017	Between 16-30/09/2017	Between 01-15/10/2017	Between 16-30/10/2017	After 31/10/2017	Total
Fruits	81.9	7.5	3.2	3.2	-	4.3	100
Vegetables	17.2	17.2	5.5	16.8	10.9	32.4	100
Other crops	95.2	0.6	0.6	0.4	1.0	2.1	100
Other cereals	2.8	22.1	23.8	39.8	9.4	2.2	100
Taro&Yams	30.7	30.9	12.2	10.4	4.3	11.5	100
Fodder crops	79.3	4.1	2.5	2.5	2.5	9.1	100
Maize	6.2	30.1	27.1	26.3	7.4	3.0	100
Paddy rice	73.7	13.4	5.4	6.1	0.7	0.7	100
Sorghum	19.4	49.7	23.8	6.2	0.5	0.3	100
Wheat	8.9	28.9	26.7	22.2	6.7	6.7	100
Bush bean	0.8	21.7	27.5	36.6	10.6	3.0	100
Climbing bean	9.0	38.2	29.5	16.6	4.9	1.9	100
Pea	6.3	30.3	23.9	26.3	6.8	6.3	100
Irish potato	18.1	30.2	18.8	13.4	6.2	13.3	100
Sweet potato	16.0	13.5	9.9	16.1	13.2	31.4	100
Soybean	0.9	20.4	21.5	34.2	18.6	4.5	100
Groundnut	2.9	35.6	26.6	24.7	8.7	1.5	100
Small red bean	-	26.7	26.7	26.7	6.7	13.3	100
Cassava	38.4	23.2	15.2	13.4	4.6	5.2	100
Cooking banana	97.1	1.4	0.4	0.4	-	0.6	100
Dessert banana	97.7	0.4	0.4	0.6	-	1.0	100
Banana for beer	98.3	1.0	0.2	0.3	0.1	0.1	100
SSF Overall	**30.1**	**21.7**	**18.0**	**18.6**	**6.2**	**5.5**	**100**

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Table 13: Sowing dates per crop (Percentage) for Large Scale farmers

Crops	Before 01/09/2017	Between 01-15/09/2017	Between 16-30/09/2017	Between 01-15/10/2017	Between 16-30/10/2017	After 31/10/2017	Total
Fruits	92.1	0.6	0.6	1.8	1.8	3.1	100
Vegetables	9.2	19.5	19.0	20.1	13.8	18.4	100
Other crops	97.0	1.5	-	-	-	1.5	100
Other cereals	20.0	20.0	20.0	20.0	20.0	-	100
Taro&Yams	50.0	50.0	-	-	-	-	100
Fodder crops	75.4	9.7	9.0	1.5	-	4.5	100
Maize	4.6	20.2	38.4	28.3	6.9	1.5	100
Paddy rice	94.0	3.6	1.2	1.2	-	-	100
Sorghum	-	37.5	56.3	6.3	-	-	100
Wheat	10.0	-	60.0	30.0	-	-	100
Bush bean	0.5	16.0	35.1	35.1	11.7	1.6	100
Climbing bean	22.2	44.4	11.1	-	22.2	-	100
Pea	-	16.7	33.3	16.7	-	33.3	100
Irish potato	13.5	32.4	18.9	21.6	10.8	2.7	100
Sweet potato	33.3	15.6	13.3	8.9	2.2	26.7	100
Soybean	-	5.7	28.6	48.6	2.9	14.3	100
Groundnut	-	25.0	43.8	12.5	-	18.8	100
Cassava	62.3	8.2	6.6	13.1	-	9.8	100
Cooking banana	88.4	2.3	6.2	0.8	-	2.3	100
Dessert banana	90.3	-	-	-	-	9.7	100
Banana for beer	100.0	-	-	-	-	-	100
Overall	41.3	12.6	19.5	15.9	5.2	5.5	100

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Table 14: Sowing dates per District (Percentage)

District	Before 01/09/2017	Between 01-15/09/2017	Between 16-30/09/2017	Between 01-15/10/2017	Between 16-30/10/2017	After 31/10/2017	Total
Nyarugenge	32.2	7.2	14.2	33.0	9.6	3.8	100
Gasabo	27.1	26.1	26.1	13.1	2.6	5.1	100
Kicukiro	29.1	2.4	15.8	23.7	18.0	11.1	100
Nyanza	22.5	14.5	9.8	33.5	12.8	6.9	100
Gisagara	23.3	14.4	11.8	36.0	8.7	6.0	100
Nyaruguru	32.0	10.7	16.4	11.5	14.6	14.8	100
Huye	30.0	8.1	11.1	31.4	10.1	9.4	100
Nyamagabe	34.0	18.6	14.3	13.0	7.7	12.4	100
Ruhango	34.8	9.1	7.3	24.2	15.4	9.1	100
Muhanga	39.5	10.9	10.1	23.8	6.5	9.3	100
Kamonyi	27.6	6.1	11.5	32.8	16.4	5.6	100
Karongi	31.4	20.9	19.1	11.8	9.1	7.7	100
Rutsiro	35.9	27.6	18.4	8.9	4.0	5.2	100
Rubavu	63.0	20.2	3.2	4.1	2.6	6.9	100
Nyabihu	33.5	33.5	16.6	7.5	4.1	4.9	100
Ngororero	32.6	18.9	16.4	11.2	7.4	13.7	100
Rusizi	24.5	27.0	23.7	18.8	4.0	2.1	100
Nyamasheke	36.3	17.0	17.0	11.9	7.9	9.9	100
Rulindo	36.8	28.4	23.1	6.9	1.6	3.3	100
Gakenke	38.2	26.0	16.5	9.0	2.8	7.6	100
Musanze	40.9	29.9	12.7	5.8	2.2	8.5	100
Burera	23.8	41.5	16.6	6.5	4.6	7.1	100
Gicumbi	27.5	30.9	24.9	9.3	2.6	4.9	100
Rwamagana	32.2	21.9	17.0	21.7	4.3	2.9	100
Nyagatare	22.4	52.0	19.5	4.5	0.7	1.0	100
Gatsibo	27.0	25.4	29.6	14.3	2.4	1.4	100
Kayonza	18.7	19.1	26.1	28.1	4.8	3.2	100
Kirehe	32.3	10.0	15.7	31.9	7.4	2.7	100
Ngoma	28.3	20.3	27.8	17.1	4.6	1.9	100
Bugesera	33.0	15.1	15.4	25.6	5.9	5.1	100
SSF Overall	**30.1**	**21.7**	**18.0**	**18.6**	**6.2**	**5.5**	**100**
LSF Overall	**41.31**	**12.56**	**19**	**15.9**	**5.2**	**5.52**	**100**

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Cropping System

Table 15: Percentage of plots with number of crops per plot by District

District	1 Crop	2 Crops	3 Crops	4 Crops	5 Crops	Total	Average number of crops per plot
Nyarugenge	17.3	26.7	31.1	19.2	5.7	100	2.7
Gasabo	15.3	30.5	36.1	13.3	4.8	100	2.6
Kicukiro	14.5	32.0	31.5	16.6	5.5	100	2.7
Nyanza	17.5	35.4	30.8	12.7	3.6	100	2.5
Gisagara	21.3	25.7	23.9	18.0	11.1	100	2.7
Nyaruguru	27.6	33.2	24.5	12.7	2.0	100	2.3
Huye	21.3	20.7	25.0	18.6	14.5	100	2.8
Nyamagabe	25.5	33.4	26.2	10.6	4.3	100	2.3
Ruhango	19.5	34.5	28.3	14.2	3.6	100	2.5
Muhanga	19.6	32.9	28.9	15.5	3.0	100	2.5
Kamonyi	17.9	25.0	31.9	21.6	3.6	100	2.7
Karongi	26.1	33.9	22.8	15.6	1.6	100	2.3
Rutsiro	31.8	32.6	20.9	11.6	3.1	100	2.2
Rubavu	37.8	40.7	20.2	1.3	-	100	1.8
Nyabihu	33.2	42.8	19.0	4.4	0.6	100	2.0
Ngororero	25.3	36.5	24.1	13.6	0.5	100	2.3
Rusizi	23.7	22.4	35.7	15.5	2.7	100	2.5
Nyamasheke	24.7	25.9	28.6	15.3	5.5	100	2.5
Rulindo	19.4	33.6	28.0	11.7	7.3	100	2.5
Gakenke	23.1	35.1	29.2	9.4	3.2	100	2.3
Musanze	41.5	45.4	12.1	1.0	-	100	1.7
Burera	38.4	47.3	10.4	3.4	0.5	100	1.8
Gicumbi	27.1	26.5	28.7	13.7	4.0	100	2.4
Rwamagana	9.0	17.0	29.5	25.7	18.8	100	3.3
Nyagatare	20.6	37.8	30.8	8.4	2.3	100	2.3
Gatsibo	17.4	30.7	33.1	14.2	4.7	100	2.6
Kayonza	13.6	28.2	33.5	18.7	5.9	100	2.8
Kirehe	12.5	24.6	35.5	19.6	7.7	100	2.9
Ngoma	9.9	24.6	34.5	22.0	8.9	100	3.0
Bugesera	25.6	34.7	32.3	6.6	0.8	100	2.2
SSF Overall	**21.1**	**30.9**	**28.8**	**14.1**	**5.1**	**100**	**2.5**
LSF Overall	**50.8**	**28.8**	**13.5**	**4.7**	**2.2**	**100**	**1.8**

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Table 16: Share of pure and mixed crop in agricultural land per district (in percentage)

District	Pure	Mixed	Total
Nyarugenge	52.7	47.3	100
Gasabo	30.4	69.6	100
Kicukiro	29.9	70.1	100
Nyanza	34.8	65.2	100
Gisagara	28.3	71.7	100
Nyaruguru	37.8	62.2	100
Huye	33.0	67.0	100
Nyamagabe	45.6	54.4	100
Ruhango	38.8	61.2	100
Muhanga	40.6	59.4	100
Kamonyi	30.4	69.6	100
Karongi	50.5	49.5	100
Rutsiro	47.8	52.2	100
Rubavu	64.6	35.4	100
Nyabihu	57.0	43.0	100
Ngororero	44.4	55.6	100
Rusizi	34.5	65.5	100
Nyamasheke	46.0	54.0	100
Rulindo	23.1	76.9	100
Gakenke	31.2	68.8	100
Musanze	62.9	37.1	100
Burera	52.2	47.8	100
Gicumbi	45.1	54.9	100
Rwamagana	23.5	76.5	100
Nyagatare	40.2	59.8	100
Gatsibo	25.8	74.2	100
Kayonza	22.7	77.3	100
Kirehe	24.9	75.1	100
Ngoma	23.5	76.5	100
Bugesera	35.4	64.6	100
SSF Overall	**36.4**	**63.6**	**100**
LSF Overall	**95.3**	**4.7**	**100**

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4. Agricultural inputs

Use of Seeds

Table 17: Type of seeds used by district (Percentage)

District	Traditional seeds	Improved seeds	Total
Nyarugenge	91.4	8.6	100
Gasabo	88.84	11.16	100
Kicukiro	91.67	8.33	100
Nyanza	90.29	9.71	100
Gisagara	76.52	23.48	100
Nyaruguru	87.47	12.53	100
Huye	88.74	11.26	100
Nyamagabe	97.01	2.99	100
Ruhango	95.52	4.48	100
Muhanga	95.69	4.31	100
Kamonyi	91.42	8.58	100
Karongi	91.45	8.55	100
Rutsiro	88.93	11.07	100
Rubavu	82.95	17.05	100
Nyabihu	88.87	11.13	100
Ngororero	90.81	9.19	100
Rusizi	91.54	8.46	100
Nyamasheke	92.69	7.31	100
Rulindo	90.19	9.81	100
Gakenke	80.94	19.06	100
Musanze	81.43	18.57	100
Burera	86.64	13.36	100
Gicumbi	91.01	8.99	100
Rwamagana	84.93	15.07	100
Nyagatare	88.48	11.52	100
Gatsibo	89.59	10.41	100
Kayonza	92.85	7.15	100
Kirehe	90.15	9.85	100
Ngoma	85.91	14.09	100
Bugesera	83.81	16.19	100
SSF Overall	**89.01**	**10.99**	**100**
LSF Overall	**46.17**	**53.83**	**100**

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Table 18:Type of seeds used by crop (Percentage) in segments

Crop	Traditional seeds	Improved seeds	Total
Maize	67.2	32.8	100
Paddy rice	27.8	72.2	100
Sorghum	100.0	0.0	100
Wheat	62.2	37.8	100
Bush bean	98.8	1.2	100
Climbing bean	98.6	1.4	100
Small red bean	100.0	0.0	100
Pea	99.3	0.7	100
Irish potato	95.9	4.1	100
Sweet potato	99.3	0.7	100
Soybean	99.3	0.7	100
Groundnut	99.6	0.4	100
Taro	99.8	0.2	100
Yam	100.0	0.0	100
Cassava	99.0	1.0	100
Cooking banana	99.8	0.2	100
Dessert banana	94.5	5.5	100
Banana for beer	99.1	0.9	100
Fruits	85.4	14.6	100
Vegetables	64.3	35.7	100
Other crops	73.5	26.5	100
Other cereals	100.0	0.0	100
Overall	**89.0**	**11.0**	**100**

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Table 19:Type of seeds used by crop (Percentage) for Large Scale Farmers

Crop	Traditional seeds	Improved seeds	Total
Maize	17.4	82.6	100
Paddy rice	21.3	78.7	100
Sorghum	100.0	-	100
Wheat	20.0	80.0	100
Bush bean	87.2	12.8	100
Climbing bean	77.8	22.2	100
Pea	83.3	16.7	100
Irish potato	69.4	30.6	100
Sweet potato	95.6	4.4	100
Soybean	48.6	51.43	100
Groundnut	100.0	-	100
Taro	100.0	-	100
Cassava	75.4	24.6	100
Cooking banana	68.3	31.7	100
Dessert banana	48.4	51.6	100
Banana for beer	57.9	42.1	100
Fruits	26.9	73.1	100
vegetables	22.3	77.7	100
Other crops	53.3	46.7	100
Other cereals	40.0	60.0	100
Overall	**46.2**	**53.8**	**100**

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Table 20: Source of improved seeds by district (Percentage)

District	Government (MINAGRI/RAB/ District)	Recognized seed multipliers	Agro dealers	NGOs	Market	Agriculture cooperatives	Other Source	Total
Nyarugenge	37.2	14.0	37.2	-	11.6	-	-	100
Gasabo	14.3	2.9	57.1	-	25.7	-	-	100
Kicukiro	38.5	10.3	43.6	2.6	5.1	-	-	100
Nyanza	16.1	-	7.1	66.1	1.8	8.9	-	100
Gisagara	26.0	2.8	11.1	32.0	2.8	24.9	0.6	100
Nyaruguru	31.3	2.1	41.7	18.8	4.2	-	2.1	100
Huye	16.2	19.1	8.8	32.4	5.9	17.7	-	100
Nyamagabe	7.1	7.1	50.0	28.6	7.1	-	-	100
Ruhango	37.0	7.4	25.9	7.4	18.5	3.7	-	100
Muhanga	23.1	30.8	30.8	7.7	7.7	-	-	100
Kamonyi	27.6	8.6	36.2	24.1	3.5	-	-	100
Karongi	11.9	2.4	16.7	61.9	7.1	-	-	100
Rutsiro	37.0	9.3	13.0	31.5	9.3	-	-	100
Rubavu	17.0	3.4	37.3	-	39.0	-	3.4	100
Nyabihu	7.7	13.5	59.6	3.9	9.6	-	5.8	100
Ngororero	51.0	13.7	21.6	5.9	2.0	5.9	-	100
Rusizi	11.1	19.1	52.4	12.7	4.8	-	-	100
Nyamasheke	31.1	-	2.2	46.7	-	20.0	-	100
Rulindo	4.8	7.9	81.0	-	6.4	-	-	100
Gakenke	25.4	4.9	63.1	2.5	3.3	0.8	-	100
Musanze	34.9	3.6	39.8	-	21.7	-	-	100
Burera	20.0	5.7	60.0	2.9	7.1	1.4	2.9	100
Gicumbi	10.9	5.5	63.6	-	16.4	1.8	1.8	100
Rwamagana	20.2	-	52.7	8.5	2.3	10.1	6.2	100
Nyagatare	30.0	4.3	23.5	8.6	3.7	29.4	0.5	100
Gatsibo	9.0	4.5	44.4	30.8	4.5	5.3	1.5	100
Kayonza	8.6	5.4	23.7	18.3	4.3	35.5	4.3	100
Kirehe	19.3	9.3	24.7	0.7	6.0	38.7	1.3	100
Ngoma	14.5	3.6	56.6	18.1	4.8	2.4	-	100
Bugesera	12.3	12.3	26.3	3.5	3.5	42.1	-	100
SSF Overall	**21.2**	**6.7**	**36.1**	**14.8**	**7.2**	**12.9**	**1.2**	**100**
LSF Overall	**37.6**	**21.4**	**21.9**	**2.4**	**10.4**	**0.7**	**5.6**	**100**

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Table 21: Source of improved seeds by crop (Percentage) in segments

Crop	Government (MINAGRI/ RAB/District)	Recognized seed multipliers	Agro-dealers	NGOs	Market	Agriculture cooperatives	Other source	Total
Maize	20.1	2.2	49.6	18.1	5.5	3.5	1.0	100
Paddy rice	1.0	11.7	0.7	5.5	0.0	81.1	0.0	100
Wheat	52.9	0.0	47.1	0.0	0.0	0.0	0.0	100
Bush bean	28.2	2.6	23.1	33.3	7.7	0.0	5.1	100
Climbing bean	21.4	14.3	7.1	14.3	35.7	0.0	7.1	100
Pea	33.3	33.3	0.0	0.0	33.3	0.0	0.0	100
Irish potato	8.1	51.4	10.8	2.7	27.0	0.0	0.0	100
Sweet potato	37.5	25.0	12.5	12.5	12.5	0.0	0.0	100
Soybean	33.3	0.0	33.3	33.3	0.0	0.0	0.0	100
Groundnut	0.0	0.0	0.0	100.0	0.0	0.0	0.0	100
Taro	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100
Cassava	46.7	26.7	0.0	10.0	13.3	0.0	3.3	100
Cooking banana	50.0	0.0	0.0	0.0	0.0	0.0	50.0	100
Dessert banana	21.4	60.7	3.6	7.1	3.6	0.0	3.6	100
Banana for beer	33.3	50.0	0.0	16.7	0.0	0.0	0.0	100
Fruits	7.1	35.7	0.0	14.3	35.7	0.0	7.1	100
vegetables	0.0	3.3	38.9	2.2	54.4	0.0	1.1	100
Other crops	72.3	13.2	1.3	8.2	0.0	2.5	2.5	100
SSF Overall	**21.2**	**6.7**	**36.1**	**14.8**	**7.2**	**12.9**	**1.2**	**100**

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Table 22: Source of improved seeds by crop (Percentage) for Large Scale Farmers

crop	Government (MINAGRI/RAB/ District)	Recognized seed multipliers	Agro dealers	NGOs	Market	Agriculture cooperatives	Other	Total
Maize	42.1	8.4	46.3	1.8	-	1.4	-	100
Paddy rice	10.2	79.7	6.8	-	-	3.4	-	100
Wheat	-	-	87.5	-	-	-	12.5	100
Other celeals	-	-	-	-	-	-	100.0	100
Bush bean	29.2	4.2	8.3	50.0	-	-	8.3	100
Climbing bean	50.0	50.0	-	-	-	-	-	100
Pea	-	-	-	-	100.0	-	-	100
Irish potato	27.3	18.2	-	9.1	-	-	45.5	100
Sweet potato	-	100.0	-	-	-	-	-	100
Soybean	72.2	-	5.6	-	-	-	22.2	100
Cassava	100.0	-	-	-	-	-	-	100
Cooking banana	10.5	89.5	-	-	-	-	-	100
Dessert banana	25.0	75.0	-	-	-	-	-	100
Banana for beer	75.0	25.0	-	-	-	-	-	100
Fruits	58.4	35.2	3.2	0.8	2.4	-	-	100
vegetables	-	0.8	20.2	0.8	58.1	-	20.2	100
Other crops	67.7	9.7	7.5	-	8.6	-	6.5	100
Overall	**37.6**	**21.4**	**21.9**	**2.4**	**10.4**	**0.7**	**5.6**	**100**

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Use of fertilizer

Table 23: Percentage of plots with organic fertilizer use per district

District	Used	Not used	Total
Nyarugenge	36.2	63.8	100
Gasabo	43.5	56.5	100
Kicukiro	35.1	65.0	100
Nyanza	44.3	55.7	100
Gisagara	42.4	57.6	100
Nyaruguru	69.1	30.9	100
Huye	47.0	53.0	100
Nyamagabe	58.6	41.4	100
Ruhango	39.1	60.9	100
Muhanga	65.0	35.0	100
Kamonyi	55.1	44.9	100
Karongi	56.0	44.0	100
Rutsiro	56.9	43.1	100
Rubavu	31.7	68.3	100
Nyabihu	59.7	40.3	100
Ngororero	71.2	28.8	100
Rusizi	43.2	56.8	100
Nyamasheke	54.3	45.7	100
Rulindo	62.6	37.4	100
Gakenke	79.4	20.6	100
Musanze	57.1	43.0	100
Burera	72.8	27.2	100
Gicumbi	72.8	27.2	100
Rwamagana	38.6	61.4	100
Nyagatare	29.0	71.0	100
Gatsibo	46.2	53.8	100
Kayonza	30.3	69.7	100
Kirehe	41.3	58.7	100
Ngoma	47.6	52.4	100
Bugesera	20.3	79.7	100
SSF Overall	**48.2**	**51.9**	**100**
LSF Overall	**50.3**	**49.7**	**100**

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Table 24:Percentage of plots with inorganic fertilizer use per district

District	Used	Not used	Total
Nyarugenge	5.2	94.8	100
Gasabo	11.0	89.0	100
Kicukiro	16.4	83.6	100
Nyanza	17.0	83.0	100
Gisagara	36.5	63.5	100
Nyaruguru	34.0	66.0	100
Huye	29.3	70.7	100
Nyamagabe	19.3	80.7	100
Ruhango	2.7	97.4	100
Muhanga	8.6	91.4	100
Kamonyi	8.0	92.0	100
Karongi	24.5	75.5	100
Rutsiro	30.6	69.4	100
Rubavu	45.4	54.6	100
Nyabihu	43.7	56.3	100
Ngororero	20.3	79.7	100
Rusizi	45.1	54.9	100
Nyamasheke	38.2	61.8	100
Rulindo	24.8	75.2	100
Gakenke	42.7	57.4	100
Musanze	39.3	60.7	100
Burera	29.0	71.1	100
Gicumbi	19.2	80.8	100
Rwamagana	33.9	66.1	100
Nyagatare	26.1	73.9	100
Gatsibo	22.3	77.7	100
Kayonza	16.4	83.7	100
Kirehe	17.8	82.2	100
Ngoma	30.7	69.3	100
Bugesera	15.5	84.5	100
SSF Overall	**24.8**	**75.2**	**100**
LSF Overall	**42.8**	**57.2**	**100**

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Table 25:Types of inorganic fertilizers use per district (in percentage)

Districts	NPK 17-17-17	NPK 20-10-10	NPK 25-5-5	Urea	Liquid urea	DAP	TSP	KCL/MOP	Other Fertilizers	Total
Nyarugenge	4.8	-	-	42.9	-	9.5	19.1	19.1	4.8	100
Gasabo	20.0	-	-	44.4	-	35.6	-	-	-	100
Kicukiro	29.8	-	-	36.2	-	34.0	-	-	-	100
Nyanza	10.1	2.5	1.3	41.8	-	43.0	-	-	1.3	100
Gisagara	26.3	0.5	0.9	42.4	-	30.0	-	-	-	100
Nyaruguru	16.1	3.2	1.1	35.5	-	44.1	-	-	-	100
Huye	41.4	2.1	0.7	42.1	-	11.4	-	-	2.1	100
Nyamagabe	17.1	1.4	-	38.6	-	42.9	-	-	-	100
Ruhango	44.4	-	-	11.1	-	44.4	-	-	-	100
Muhanga	18.2	9.1	-	45.5	-	27.3	-	-	-	100
Kamonyi	4.9	2.4	-	43.9	2.4	46.3	-	-	-	100
Karongi	5.0	3.0	-	40.6	-	51.5	-	-	-	100
Rutsiro	24.2	10.9	-	27.3	0.8	32.8	-	-	3.9	100
Rubavu	70.2	-	-	13.0	9.2	7.6	-	-	-	100
Nyabihu	56.5	-	-	24.5	2.0	17.0	-	-	-	100
Ngororero	23.9	1.1	-	35.2	-	39.8	-	-	-	100
Rusizi	23.4	3.2	0.7	39.2	-	32.4	-	-	1.1	100
Nyamasheke	24.3	4.5	-	31.6	-	39.0	-	-	0.6	100
Rulindo	5.6	5.6	-	47.2	0.8	40.8	-	-	-	100
Gakenke	1.2	0.8	-	46.2	-	51.8	-	-	-	100
Musanze	35.3	-	-	32.3	-	28.7	-	-	3.6	100
Burera	53.9	-	-	11.7	0.8	26.6	-	-	7.0	100
Gicumbi	42.7	1.3	-	33.3	-	22.7	-	-	-	100
Rwamagana	12.3	9.0	-	32.3	-	45.8	-	-	0.7	100
Nyagatare	16.2	0.3	-	50.6	-	32.9	-	-	-	100
Gatsibo	3.1	2.7	-	44.9	-	45.3	-	4.0	-	100
Kayonza	34.0	2.1	-	36.8	-	27.1	-	-	-	100
Kirehe	4.6	4.0	0.6	31.6	1.7	39.7	-	8.6	9.2	100
Ngoma	2.5	0.8	-	41.2	-	51.3	-	-	4.2	100
Bugesera	46.2	-	-	44.3	-	8.5	-	-	0.9	100
SSF Overall	**22.9**	**2.3**	**0.2**	**37.7**	**0.6**	**34.2**	**0.1**	**0.7**	**1.3**	**100**
LSF Overall	**25.0**	**0.4**	**0.1**	**37.2**	**-**	**28.8**	**-**	**1.0**	**7.5**	**100**

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Use of Pesticides

Table 26: Percentage of plots with pesticides use per district

District	Used	Not used	Total
Nyarugenge	7.0	93.0	100
Gasabo	11.3	88.7	100
Kicukiro	15.9	84.1	100
Nyanza	16.0	84.0	100
Gisagara	31.6	68.4	100
Nyaruguru	14.4	85.6	100
Huye	11.7	88.3	100
Nyamagabe	10.7	89.3	100
Ruhango	4.0	96.0	100
Muhanga	4.6	95.4	100
Kamonyi	9.9	90.1	100
Karongi	15.6	84.4	100
Rutsiro	26.3	73.7	100
Rubavu	50.7	49.3	100
Nyabihu	42.7	57.3	100
Ngororero	10.1	89.9	100
Rusizi	15.9	84.2	100
Nyamasheke	14.8	85.2	100
Rulindo	22.0	78.0	100
Gakenke	29.4	70.6	100
Musanze	45.6	54.4	100
Burera	36.0	64.0	100
Gicumbi	18.9	81.1	100
Rwamagana	22.8	77.2	100
Nyagatare	25.2	74.8	100
Gatsibo	14.6	85.4	100
Kayonza	9.4	90.6	100
Kirehe	15.1	84.9	100
Ngoma	19.1	81.0	100
Bugesera	17.3	82.7	100
SSF Overall	**19.5**	**80.5**	**100**
LSF Overall	**42.1**	**57.9**	**100**

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Table 27: Type of pesticides used by District (in percentage)

District	Dithane	Ridomil	Dimethoate	Cypermethrine	Dursiban	Tilt	Pilkare	Rocket	Other Pesticides	Total
Nyarugenge	39.3	-	10.7	-	-	-	-	39.3	10.7	100.0
Gasabo	20.9	-	-	9.3	-	-	-	58.1	11.6	100.0
Kicukiro	2.6	-	-	10.5	-	-	-	60.5	26.3	100.0
Nyanza	-	-	-	23.9	-	-	-	63.0	13.0	100.0
Gisagara	2.1	-	0.7	30.8	-	-	-	49.3	17.1	100.0
Nyaruguru	14.3	-	-	46.4	-	-	-	39.3	-	100.0
Huye	11.1	-	-	50.0	-	-	-	30.6	8.3	100.0
Nyamagabe	44.8	-	-	31.0	-	-	-	24.1	-	100.0
Ruhango	7.7	-	7.7	15.4	-	-	-	69.2	-	100.0
Muhanga	7.1	-	-	28.6	-	-	-	64.3	-	100.0
Kamonyi	20.5	2.6	10.3	7.7	-	-	-	56.4	2.6	100.0
Karongi	13.3	-	-	68.9	-	-	-	15.6	2.2	100.0
Rutsiro	34.3	13.9	-	26.9	-	-	-	20.4	4.6	100.0
Rubavu	36.4	27.6	4.8	26.9	-	0.7	-	1.7	2.0	100.0
Nyabihu	36.8	25.6	8.0	24.8	-	-	-	4.8	-	100.0
Ngororero	30.3	3.0	-	15.2	-	-	-	48.5	3.0	100.0
Rusizi	5.3	-	2.7	40.0	-	-	-	36.0	16.0	100.0
Nyamasheke	6.7	1.7	-	18.3	3.3	-	-	55.0	15.0	100.0
Rulindo	10.3	-	1.3	11.5	-	-	-	73.1	3.9	100.0
Gakenke	3.0	-	2.0	12.9	-	-	-	82.2	-	100.0
Musanze	38.1	6.9	5.5	27.7	-	-	-	18.3	3.5	100.0
Burera	39.1	9.2	2.2	32.6	-	-	-	15.8	1.1	100.0
Gicumbi	40.9	1.5	-	6.1	-	-	-	51.5	-	100.0
Rwamagana	6.9	-	-	24.1	1.2	-	-	46.0	21.8	100.0
Nyagatare	3.8	-	1.0	31.4	-	-	-	43.0	20.8	100.0
Gatsibo	2.0	-	2.0	11.2	-	-	-	77.6	7.1	100.0
Kayonza	2.5	-	3.7	35.8	-	-	-	25.9	32.1	100.0
Kirehe	3.4	0.9	5.1	22.9	-	-	-	40.7	27.1	100.0
Ngoma	2.1	-	-	12.8	-	-	-	74.5	10.6	100.0
Bugesera	0.9	-	-	35.5	-	-	-	26.4	37.3	100.0
SSF Overall	**19.0**	**7.0**	**2.8**	**26.1**	**0.1**	**0.1**	**-**	**34.6**	**10.4**	**100.0**
LSF Overall	**10.1**	**5.0**	**0.8**	**20.9**	**-**	**0.2**	**0.2**	**38.5**	**24.5**	**100.0**

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5. Agricultural Practices

Irrigation practices

Table 28:Use of Irrigation per district (Percentage)

District	Used	Not Used	Total
Nyarugenge	3.1	96.9	100
Gasabo	3.8	96.2	100
Kicukiro	4.2	95.8	100
Nyanza	6.0	94.0	100
Gisagara	18.9	81.1	100
Nyaruguru	2.1	97.9	100
Huye	17.3	82.7	100
Nyamagabe	2.1	98.0	100
Ruhango	2.3	97.7	100
Muhanga	0.7	99.3	100
Kamonyi	1.9	98.1	100
Karongi	0.8	99.2	100
Rutsiro	0.3	99.7	100
Rubavu	0.4	99.6	100
Nyabihu	-	100.0	100
Ngororero	0.7	99.4	100
Rusizi	13.7	86.3	100
Nyamasheke	10.7	89.3	100
Rulindo	1.6	98.4	100
Gakenke	1.2	98.8	100
Musanze	0.7	99.3	100
Burera	-	100.0	100
Gicumbi	1.6	98.5	100
Rwamagana	7.0	93.0	100
Nyagatare	6.2	93.8	100
Gatsibo	1.3	98.7	100
Kayonza	6.3	93.7	100
Kirehe	6.9	93.1	100
Ngoma	-	100.0	100
Bugesera	15.3	84.7	100
SSF Overall	**5.0**	**95.0**	**100**
LSF Overall	**18.5**	**81.5**	**100**

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Table 29:Types of irrigation used by district (in percentage)

District	Surface irrigation	Flood irrigation	Drip irrigation	Sprinkler irrigation	Traditional irrigation	Total
Nyarugenge	-	-	-	-	100.0	100
Gasabo	73.3	-	-	-	26.7	100
Kicukiro	40.0	-	-	-	60.0	100
Nyanza	5.6	33.3	-	-	61.1	100
Gisagara	4.3	78.6	-	-	17.1	100
Nyaruguru	25.0	-	-	-	75.0	100
Huye	46.0	36.0	-	2.0	16.0	100
Nyamagabe	33.3	-	-	-	66.7	100
Ruhango	57.1	28.6	-	-	14.3	100
Muhanga	33.3	-	-	-	66.7	100
Kamonyi	-	-	-	-	100.0	100
Karongi	50.0	-	-	-	50.0	100
Rutsiro	-	-	-	-	100.0	100
Rubavu	-	-	-	-	100.0	100
Ngororero	-	-	-	-	100.0	100
Rusizi	13.7	82.4	-	-	3.9	100
Nyamasheke	2.9	94.1	-	-	2.9	100
Rulindo	-	-	-	-	100.0	100
Gakenke	25.0	-	-	-	75.0	100
Musanze	66.7	-	-	-	33.3	100
Gicumbi	-	-	-	-	100.0	100
Rwamagana	22.7	31.8	-	-	45.5	100
Nyagatare	13.2	69.8	-	9.4	7.6	100
Gatsibo	8.3	66.7	-	-	25.0	100
Kayonza	11.1	72.2	-	5.6	11.1	100
Kirehe	10.9	78.3	-	-	10.9	100
Bugesera	11.3	88.7	-	-	-	100
SSF Overall	**16.8**	**59.9**	**-**	**1.5**	**21.8**	**100**
LSF Overall	**20.8**	**33.8**	**6.5**	**18.2**	**20.8**	**100**

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Table 30:Types of irrigation used by crop type (in percentage) in segments

Crops	Surface irrigation	Flood irrigation	Sprinkler irrigation	Traditional irrigation	Total
Fruits	57.1	-	-	42.9	100
Vegetables	33.8	-	2.6	63.6	100
Other crops	50.0	-	-	50.0	100
Maize	31.3	-	8.3	60.4	100
Paddy rice	11.0	87.1	0.3	1.6	100
Bush bean	-	-	-	100.0	100
Pea	-	-	-	100.0	100
Irish potato	-	-	-	100.0	100
Sweet potato	20.0	-	-	80.0	100
Groundnut	16.7	-	-	83.3	100
Taro	-	-	-	100.0	100
Cooking banana	-	-	-	100.0	100
Dessert banana	-	-	50.0	50.0	100
Banana for beer	-	-	-	100.0	100
SSF Overall	**16.8**	**59.9**	**1.5**	**21.8**	**100**

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Table 31:Types of irrigation used by crop type (in percentage) for Large Scale Farmers

Crops	Surface irrigation	Flood irrigation	Drip irrigation	Sprinkler irrigation	Traditional irrigation	Total
Fruits	40.0	-	33.3	6.7	20.0	100
Vegetables	33.3	-	5.1	28.2	33.3	100
Other crops	100.0	-	-	-	-	100
Other cereals	-	-	-	100.0	-	100
Maize	21.4	-	-	35.7	42.9	100
Paddy rice	-	97.5	-	-	2.5	100
Wheat	-	-	-	100.0	-	100
Bush bean	50.0	-	-	50.0	-	100
Pea	-	-	-	100.0	-	100
Irish potato	-	-	-	100.0	-	100
Sweet potato	-	-	-	-	100.0	100
Soybean	-	-	-	100.0	-	100
Cooking banana	57.1	-	-	-	42.9	100
Dessert banana	100.0	-	-	-	-	100
Banana for beer	-	-	100.0	-	-	100
LSF Overall	**20.8**	**33.8**	**6.5**	**18.2**	**20.8**	**100**

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Table 32: Source of used water for irrigation per district (in percentage)

District	Rainwater harvesting	Water treatment plant	Underground water	Lake / stream water	Water catchment (dam)	Other source	Total
Nyarugenge	-	22.2	-	77.8	-	-	100
Gasabo	-	-	-	100.0	-	-	100
Kicukiro	-	-	-	100.0	-	-	100
Nyanza	-	-	11.1	55.6	33.3	-	100
Gisagara	-	-	28.6	71.4	-	-	100
Nyaruguru	-	-	50.0	25.0	-	25.0	100
Huye	-	2.0	74.0	16.0	8.0	-	100
Nyamagabe	-	-	33.3	66.7	-	-	100
Ruhango	-	14.3	71.4	-	14.3	-	100
Muhanga	-	-	100.0	-	-	-	100
Kamonyi	-	-	87.5	12.5	-	-	100
Karongi	-	50.0	-	50.0	-	-	100
Rutsiro	-	-	100.0	-	-	-	100
Rubavu	100.0	-	-	-	-	-	100
Ngororero	-	-	-	100.0	-	-	100
Rusizi	-	21.6	3.9	62.8	11.8	-	100
Nyamasheke	-	-	-	100.0	-	-	100
Rulindo	-	-	16.7	83.3	-	-	100
Gakenke	-	-	-	100.0	-	-	100
Musanze	-	33.3	-	66.7	-	-	100
Gicumbi	-	-	-	100.0	-	-	100
Rwamagana	-	-	45.5	4.6	50.0	-	100
Nyagatare	-	17.0	1.9	69.8	11.3	-	100
Gatsibo	-	-	41.7	50.0	8.3	-	100
Kayonza	2.8	-	8.3	55.6	33.3	-	100
Kirehe	-	-	82.6	15.2	-	2.2	100
Bugesera	-	-	21.0	79.0	-	-	100
SSF Overall	**0.4**	**4.8**	**28.1**	**57.7**	**8.7**	**0.4**	**100**
LSF Overall	**6.5**	**1.7**	**13.9**	**59.3**	**16.9**	**1.7**	**100**

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Anti-erosive activities practices

Table 33: Percentage of plot with Anti-erosion activities use per District

District	Used	Not Used	Total
Nyarugenge	72.5	27.5	100
Gasabo	73.0	27.1	100
Kicukiro	25.7	74.3	100
Nyanza	67.4	32.6	100
Gisagara	69.2	30.8	100
Nyaruguru	79.4	20.6	100
Huye	73.1	26.9	100
Nyamagabe	89.3	10.7	100
Ruhango	77.5	22.5	100
Muhanga	76.2	23.8	100
Kamonyi	92.6	7.4	100
Karongi	88.3	11.7	100
Rutsiro	86.9	13.1	100
Rubavu	93.8	6.2	100
Nyabihu	76.8	23.2	100
Ngororero	64.4	35.6	100
Rusizi	42.6	57.4	100
Nyamasheke	70.4	29.7	100
Rulindo	85.2	14.8	100
Gakenke	94.7	5.3	100
Musanze	80.3	19.7	100
Burera	92.4	7.6	100
Gicumbi	88.5	11.5	100
Rwamagana	66.5	33.5	100
Nyagatare	51.4	48.6	100
Gatsibo	63.0	37.1	100
Kayonza	37.6	62.4	100
Kirehe	43.5	56.6	100
Ngoma	56.3	43.7	100
Bugesera	65.2	34.8	100
SSF Overall	**68.3**	**31.7**	**100**
LSF Overall	**63.5**	**36.5**	**100**

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Table 34:Types of anti-erosion activities by district (Percentages)

District	Ditches	Trees/Windbreak/shelterbelt	Bench terraces	Progressive terraces	Cover plants/ grasses	Water drainage	Mulching	Beds/rigdes	Other activities	Total
Nyarugenge	22.5	1.7	-	11.9	56.8	2.5	2.5	2.1	-	100
Gasabo	13.1	1.9	2.3	2.7	67.6	5.8	0.4	6.2	-	100
Kicukiro	7.1	2.9	-	28.6	52.9	4.3	4.3	-	-	100
Nyanza	16.3	0.9	0.5	1.8	57.0	8.6	1.4	13.6	-	100
Gisagara	10.3	1.3	6.6	4.0	28.8	35.4	0.3	13.3	-	100
Nyaruguru	6.5	0.4	3.0	25.2	50.9	8.3	1.3	4.4	-	100
Huye	19.1	8.8	-	0.4	43.4	17.7	3.7	7.0	-	100
Nyamagabe	9.2	2.1	7.1	2.8	60.3	7.1	1.8	9.6	-	100
Ruhango	6.1	0.4	-	3.4	64.0	8.7	0.4	17.1	-	100
Muhanga	17.2	-	7.9	-	64.4	0.7	2.0	7.9	-	100
Kamonyi	29.7	0.2	-	5.8	56.1	3.6	1.8	2.9	-	100
Karongi	7.8	2.3	2.9	27.4	45.8	8.9	1.7	3.2	-	100
Rutsiro	3.5	7.5	11.9	7.5	46.3	12.2	3.5	7.7	-	100
Rubavu	6.0	12.3	1.9	6.0	20.5	0.8	0.4	52.2	-	100
Nyabihu	0.3	1.4	7.2	14.3	45.7	-	0.7	30.4	-	100
Ngororero	19.1	1.3	10.4	0.9	55.8	2.6	2.6	7.4	-	100
Rusizi	12.1	1.7	-	1.2	48.3	25.9	5.2	5.8	-	100
Nyamasheke	4.5	2.8	5.9	15.3	50.2	15.3	5.2	0.7	-	100
Rulindo	15.0	1.1	2.6	2.8	60.6	13.0	3.4	1.4	-	100
Gakenke	13.0	1.0	4.6	1.5	73.9	3.1	2.3	0.5	-	100
Musanze	1.9	2.2	6.4	1.9	27.8	2.2	0.3	56.6	0.6	100
Burera	0.9	9.7	7.3	16.2	36.1	3.5	-	26.4	-	100
Gicumbi	8.9	0.5	8.9	13.2	60.7	5.0	1.0	1.9	-	100
Rwamagana	7.9	0.4	8.7	2.5	66.1	9.1	3.7	1.7	-	100
Nyagatare	23.7	1.7	0.4	6.8	51.4	11.7	1.5	2.8	0.2	100
Gatsibo	9.1	1.5	-	5.3	60.3	5.5	7.2	11.2	-	100
Kayonza	18.7	2.6	15.0	4.1	40.8	15.0	3.0	0.8	-	100
Kirehe	26.0	1.5	-	-	46.7	12.2	9.0	4.7	-	100
Ngoma	7.6	1.3	-	11.5	74.5	3.2	1.3	-	0.6	100
Bugesera	11.9	1.5	-	16.5	45.0	18.4	3.4	3.4	-	100
SSF Overall	**12.2**	**2.6**	**4.2**	**7.7**	**51.6**	**8.9**	**2.5**	**10.3**	**0.0**	**100**
LSF Overall	**29.4**	**5.7**	**3.1**	**0.4**	**32.5**	**18.5**	**4.7**	**5.4**	**0.3**	**100**

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Table 35: Degree of erosion per district (Percentage)

District	**Severe** (Rill erosion, Gully erosion,Mass movement/Landslides)	**Moderate** (Diffuse overland flow erosion, overland flow erosion, erosion by infiltration)	**Low** (splash erosion, wind erosion)	**Total**
Nyarugenge	0.4	8.7	90.8	100
Gasabo	-	10.3	89.7	100
Kicukiro	-	7.0	93.0	100
Nyanza	1.8	12.1	86.2	100
Gisagara	-	1.6	98.4	100
Nyaruguru	3.1	7.7	89.2	100
Huye	1.4	4.2	94.4	100
Nyamagabe	-	13.1	86.9	100
Ruhango	3.0	16.6	80.5	100
Muhanga	1.7	4.6	93.7	100
Kamonyi	0.3	6.1	93.6	100
Karongi	2.7	28.0	69.3	100
Rutsiro	1.0	36.7	62.3	100
Rubavu	0.4	9.3	90.3	100
Nyabihu	0.7	6.1	93.2	100
Ngororero	11.8	20.9	67.3	100
Rusizi	7.4	13.7	79.0	100
Nyamasheke	1.6	13.3	85.2	100
Rulindo	0.3	12.6	87.1	100
Gakenke	1.2	23.2	75.6	100
Musanze	0.3	3.6	96.1	100
Burera	1.5	10.8	87.7	100
Gicumbi	2.2	18.9	79.0	100
Rwamagana	-	2.5	97.5	100
Nyagatare	1.1	6.2	92.7	100
Gatsibo	0.2	2.5	97.4	100
Kayonza	1.0	9.0	89.9	100
Kirehe	1.1	4.9	94.1	100
Ngoma	-	3.0	97.0	100
Bugesera	1.0	4.8	94.2	100
SSF Overall	**1.5**	**10.0**	**88.5**	**100**
LSF Overall	**1.7**	**10.5**	**87.8**	**100**

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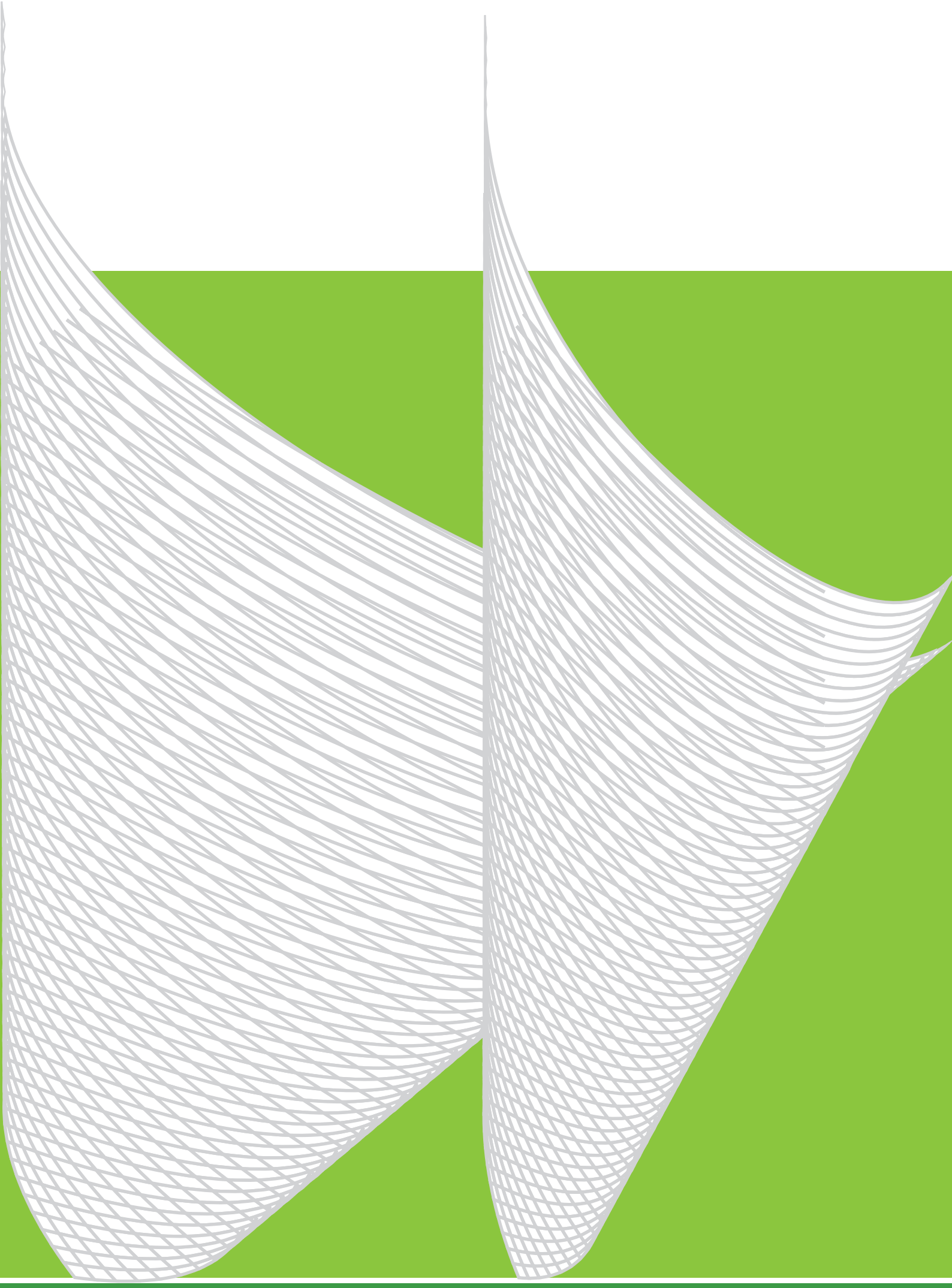

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