The Republic of Rwanda

NATIONAL INSTITUTE OF STATISTICS OF RWANDA

SEASONAL AGRICULTURAL SURVEY

2017 Season B

NATIONAL INSTITUTE OF STATISTICS OF RWANDA

REPUBLIC OF RWANDA

NATIONAL INSTITUTE OF STATISTICS OF RWANDA
P.O. Box 6139 KIGALI - RWANDA

September 2017

Seasonal Agricultural Survey (SAS)–2017 Season B

I. Introduction

National Institute of Statistics of Rwanda (NISR) uses Multiple Sample Frame as the methodology to conduct Seasonal Agricultural Surveys. 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.

The NISR has upgraded[1] Seasonal Agriculture Survey since November 2016 in order to provide more data and also to disaggregate them at district level (the number of secondary sampling units or segments was increased from 540 up to 960 segments). In addition paper based data collection method has been replaced by Computer Assisted Personnel Interviewing (CAPI) method which is thought to provide accurate data and facilitate quick reporting.

For Seasons A&B, data collection is subdivided into two phases. Phase 1 which is a screening of plots and allows area estimation, and Phase 2 which is yield and production estimations of the sample of the screened plots.

This is the preliminary report explains the methodology used and highlights some key findings on farm characteristics, agricultural inputs and agricultural practices from USAS 2017 B. An annual comprehensive USAS Survey report is to be published after covering all the three agricultural seasons.

II. Methodology

For collecting agricultural data, a Multiple Sample Frame was used, meaning that the NISR combines an Area and a List frame.

a. An area frame using Satellite imagery (uploaded from Digital globe);
b. A List frame of Large Scale Farmers.

[1]From 2012 to 2016, atotalnumberof540segmentswerespreadthroughoutthecountry as coverage of the survey and results were at National level. Thefieldworkconsistedofscreeninglandareasonmapsbyclassifyingeveryplotinside each segment as either agricultural (cultivated and, pastures, and fallow land) or non- agricultural land (water, forests, roads, rocky and bare soils and buildings) and completing screening forms and farm questionnaires

The design of the Multiple Frame Survey (MFS) 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.

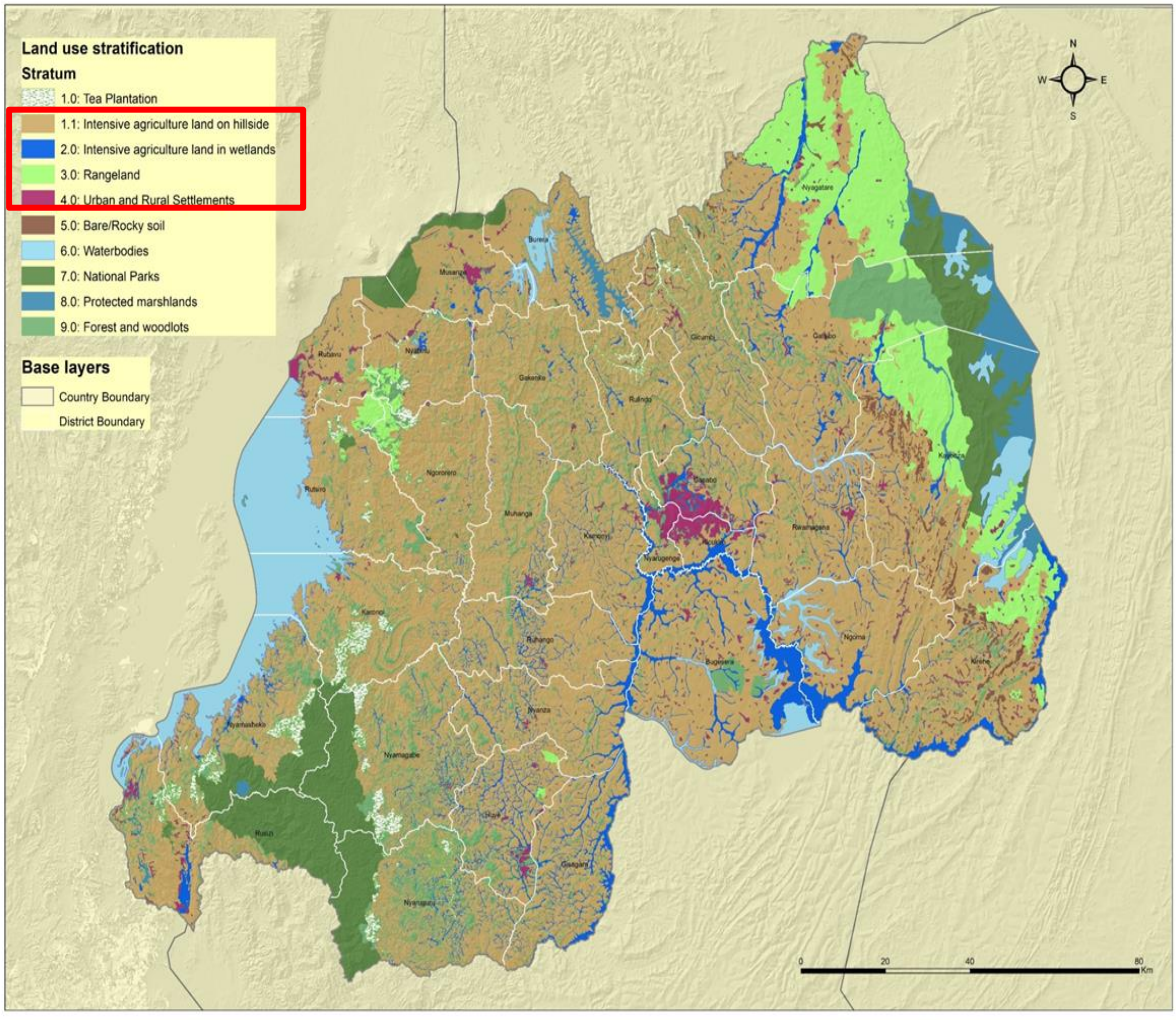
It starts with land stratification where total country land was delineated into 10 land use strata, Strata definition is based on land cover or land use characteristic and agriculture or livestock activity intensity and NISR is interested in4 strata for the Agriculture Survey which are:

- 1.1 Intensive agriculture land on Hillsides
- 2.0 Intensive agriculture land in wetlands
- 3.0 Rangelands area
- 4.0 Urban area and rural settlements[2]

Other strata are:

- 1.0. Tea plantations
- 5.0. Non crop land
- 6.0 Water bodies
- 7.0 National Parks
- 8.0 Uncultivated 'protected' marshlands
- 9.0 Forest and woodlands

Figure 1: Land use stratification



[2] Stratum 4.0 is used in the Household and Livestock Survey Module

The picture above shows how strata are spread in the country.
Using satellite imagery, the whole country was stratified into homogeneous strata according to crop intensity and other land-use characteristics as follows:

Table 1.Stratified physical land for agriculture per district (Ha)

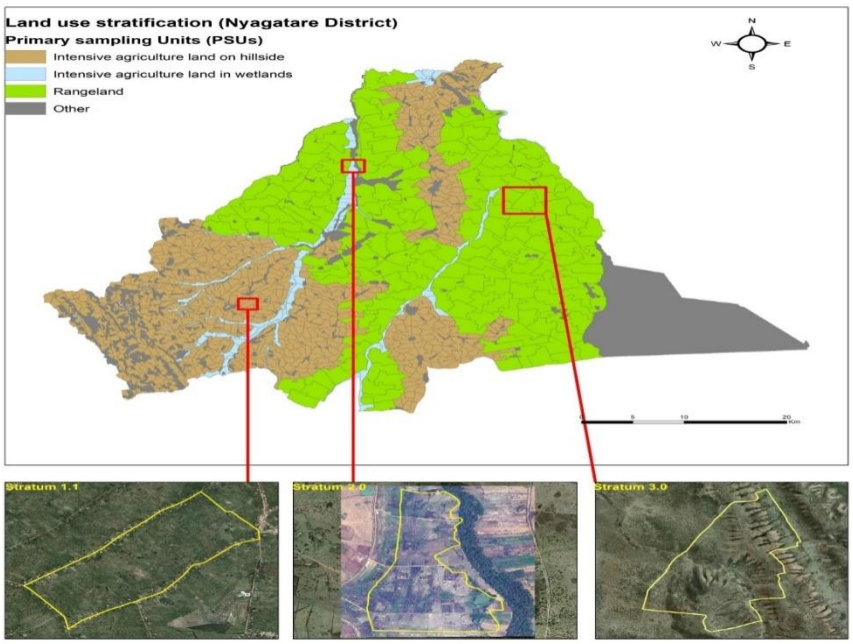
District Name	Tea plantation	Intensive cropland on hillsides	Intensive cropland in marshlands	Rangeland	Total
Nyarugenge	-	5,894.6	1,698.0	-	7,592.6
Gasabo	-	25,561.9	3,190.7	-	28,752.7
Kicukiro	-	7,597.3	2,686.2	-	10,283.5
Nyanza	-	53,698.6	6,302.5	-	60,001.1
Gisagara	-	48,939.5	11,095.9	-	60,035.4
Nyaruguru	3,531.7	43,598.2	3,674.0	-	50,803.9
Huye	-	39,249.1	6,358.0	1,051.5	46,658.6
Nyamagabe	6,217.8	50,410.8	3,402.8	-	60,031.4
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	6,682.8	55,904.7	799.4	-	63,386.8
Rutsiro	1,652.2	50,755.4	505.1	3,613.3	56,526.0
Rubavu	411.7	26,886.6	-	822.2	28,120.5
Nyabihu	1,780.3	37,199.4	801.9	2,691.3	42,473.0
Ngororero	1,472.3	51,198.6	914.3	3,910.9	57,496.1
Rusizi	953.5	38,535.1	3,069.1	-	42,557.7
Nyamasheke	7,549.0	44,064.1	2,371.1	-	53,984.2
Rulindo	1,528.5	41,718.2	1,861.0	-	45,107.7
Gakenke	-	56,044.5	1,489.5	-	57,534.0
Musanze	7.5	33,596.6	1,096.9	-	34,701.0
Burera	-	44,013.0	1,459.7	-	45,472.7
Gicumbi	2,475.5	61,872.1	1,674.2	-	66,021.8
Rwamagana	-	55,324.6	3,235.5	-	58,560.2
Nyagatare	-	62,330.9	8,108.5	91,762.0	162,201.3
Gatsibo	-	71,583.4	4,786.9	12,813.8	89,184.1
Kayonza	-	64,327.7	3,156.7	46,806.1	114,290.4
Kirehe	-	66,696.0	10,604.4	15,350.6	92,650.9
Ngoma	-	68,594.0	8,088.6	-	76,682.6
Bugesera	-	87,766.1	21,253.1	-	109,019.2
Total Agricultural land	**34262.8**	**1448045.5**	**126441.3**	**178821.6**	**1787571.2**

2017 Seasonal Agricultural Survey - Season B

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). A number of PSUs is assigned to each strata given its weight (Probability Proportional to Size) in every district.

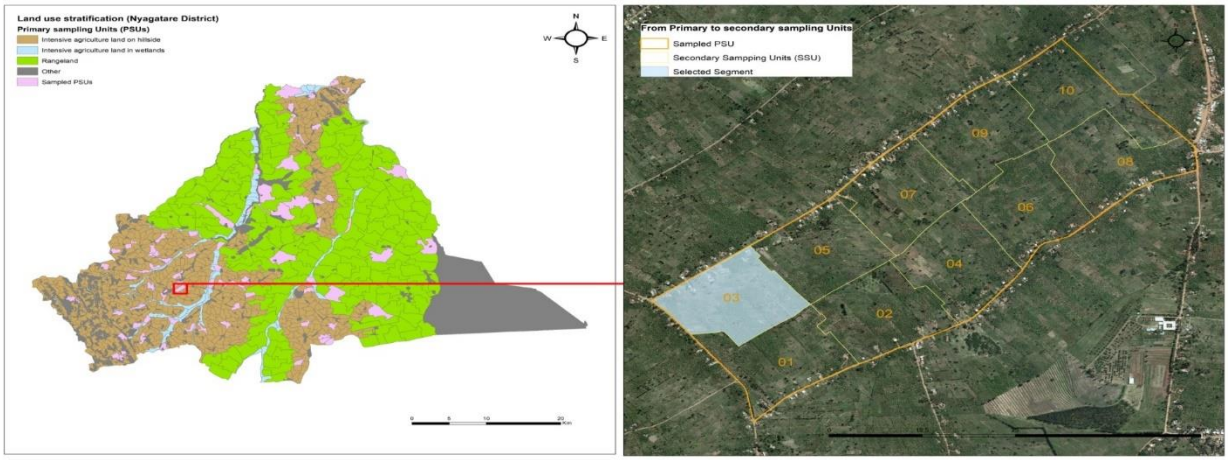
At District level, every “Agriculture stratum” (1,2 and 3) is divided into Primary Sampling Units (PSUs) of 100 Ha (in strata1.1 and 2.0) and to 500 ha (in stratum 3).Strata are then broken into PSUs following visible boundaries and each PSU is given a unique PSU identity number (PSUID).

Figure 2: Construction of PSUs (Example of Nyagatare District)



A systematic sampling method selects a certain number of PSUs in each District then every PSU is divided into Secondary Sampling Units (SSUs) of around 10 Ha for strata 1.1 and 2.0 and around 50ha for stratum 3.0, randomly one SSU is selected and called a Segment.

Figure 3: Construction of SSUs (Example of Nyagatare District)

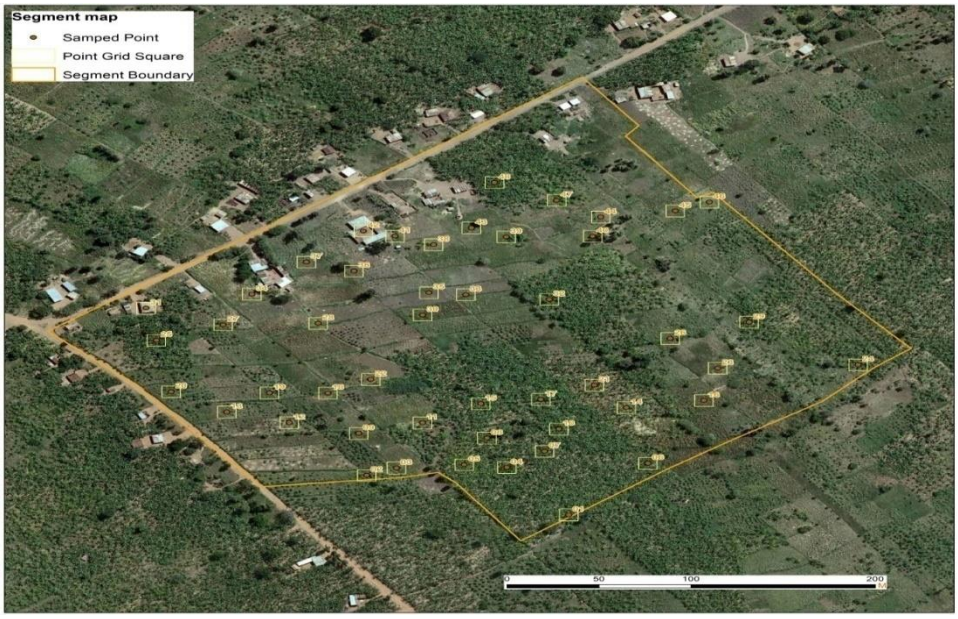


One segment average size is 10,000 Sq. Meters. That area is equal to 1000 grids squares of 100 Sq Meters each. (A grid is a geographical located landmark in the segment having a distance of 10 Meters with the following grid).

A random sample of 5% of the total grids was selected for screening in each segment making a total of 51,390 grids countrywide.

A sampled point is placed at the center of every squared grid. On the field, the enumerator identify which plot the point is falling in, measure it with mapping application in a tablet and record land use and crops using a tablet.

Figure 4: Segment map with grid points



NISR has carried out 2017USAS B from March 2017to June 2017. A total number of 51,390 sampled grids gave a total number of 32,277 plots countrywide in phase 1 of screening and then a subsample of 12,156 plots was selected in cultivated plots of screening during Phase 2 mostly designed for inputs and production data collection.

Furthermore, enumerated Large Scale Farmers in screening phase were 201 in 2017 Season B and only 195 had been interviewed during the Second Phase.

III. Findings

This is the USAS 2017 B report highlighting the key results in farm characteristics. Agricultural inputs, Agricultural practices.

1. Farm characteristics

- ***Crop Land***

The main crops grown in 2017 Season B were legumes and pulses (28.2%) followed by tubers and roots (26.8%) then Bananas (18.9%) and cereals (18.7%), (see Table 6).

- ***Crop Production***

In 2017 Season B, most of the crops underwent increased production. Among others Irish potatoes increased by 29%, Bush beans by 28%, Maize by 16% and Paddy rice by 4% by comparing with 2016 season B production (see Table 10).

2. Agricultural Inputs

- ***Use of seeds***

In 2017 Season B, For small scale farmers or segment level plots, 95.4% were used with traditional seeds while 4.6% of them were used with improved seeds. For Large Scale

Farmers, 59.7% used traditional seeds whereas 40.3% used improved seeds (see Table 20).

- ***Use of fertilizers***

In 2017 Season B, for small scale farmers or segment level plots, 34.7% were used with organic fertilizers while inorganic fertilizers were used by 15.1%. For Large Scale Farmers, the use of organic fertilizers and inorganic fertilizers was 32.7% and 32.5% respectively (see Table 26 & 28).

- ***Use of pesticides***

In 2017 Season B, The percentage of segment plots which were used with pesticides is 11.7% and 31.8% for Large Scale Farmers (see Table 32).

The percentage of different type of pesticides used is led by Cypermethrinboth for segment plots and Large Scale Famers using a share of 36.1% and 26% respectively (see Table 34).

3. Agricultural practices

- ***Irrigation practices***

In 2017 season B, irrigation was practised in 4.6% of all segment plots while it was 20.7% of all Large Scale Farmers (see Table 36).

- ***Anti-erosion activities***

In 2017 season B, For segment plots, 64.4 % practised anti-erosion activities. On the hand, the Large Scale Farmers who practised anti-erosion activities were 56.6 % (see Table 44).

An annual detailed USAS 2017 report is to be published after covering all the three agricultural seasons.

ANNEX

MAIN TABLES

Table 2: Share (in percentage) of area occupied by strata within districts

District	Tea plantation	Intensive cropland on hillsides	Intensive cropland in marshlands	Rangeland	Total
Nyarugenge	-	77.6	22.4	-	100.0
Gasabo	-	88.9	11.1	-	100.0
Kicukiro	-	73.9	26.1	-	100.0
Nyanza	-	89.5	10.5	-	100.0
Gisagara	-	81.5	18.5	-	100.0
Nyaruguru	7.0	85.8	7.2	-	100.0
Huye	-	84.1	13.6	2.3	100.0
Nyamagabe	10.4	84.0	5.7	-	100.0
Ruhango	-	91.3	8.7	-	100.0
Muhanga	-	96.2	3.8	-	100.0
Kamonyi	-	90.0	10.0	-	100.0
Karongi	10.5	88.2	1.3	-	100.0
Rutsiro	2.9	89.8	0.9	6.4	100.0
Rubavu	1.5	95.6	-	2.9	100.0
Nyabihu	4.2	87.6	1.9	6.3	100.0
Ngororero	2.6	89.0	1.6	6.8	100.0
Rusizi	2.2	90.5	7.2	-	100.0
Nyamasheke	14.0	81.6	4.4	-	100.0
Rulindo	3.4	92.5	4.1	-	100.0
Gakenke	-	97.4	2.6	-	100.0
Musanze	-	96.8	3.2	-	100.0
Burera	-	96.8	3.2	-	100.0
Gicumbi	3.7	93.7	2.5	-	100.0
Rwamagana	-	94.5	5.5	-	100.0
Nyagatare	-	38.4	5.0	56.6	100.0
Gatsibo	-	80.3	5.4	14.4	100.0
Kayonza	-	56.3	2.8	41.0	100.0
Kirehe	-	72.0	11.4	16.6	100.0
Ngoma	-	89.5	10.5	-	100.0
Bugesera	-	80.5	19.5	-	100.0
Total	1.9	81.0	7.1	10.0	100.0

2017 Seasonal Agricultural Survey - Season B

Table 3: Sampled segments per stratum

Stratum	Number of segments	Total area_Ha	Percentage
Intensive cropland on hillsides	702	7,029.2	54.08
Intensive cropland in marshlands	174	1,743.8	13.42
Rangelands	84	4,224.2	32.50
Total	960	12,997.2	100.00

2017 Seasonal Agricultural Survey - Season B

Table 4: Land use among potential arable land (Ha)

Stratum	Cultivated Land	Pasture	Fallow	Non-agricultural land	Total
Intensive cropland on hillsides	844,770	30,585	170,533	395,386	1,441,273
Intensive cropland in marshlands	29,936	3,767	15,658	49,867	99,228
Rangelands	25,026	124,939	4,672	22,032	176,669
SSF	**899,732**	**159,291**	**190,863**	**467,285**	**1,717,170**
LSF	18,097	6,220	2,039	1,042	27,398
Total	**917,829**	**165,511**	**192,902**	**468,327**	**1,744,568**

2017 Seasonal Agricultural Survey - Season B

Table 5: Land use among potential arable land per district (Ha)

District	Cultivated Land	Pasture	Fallow	Non-agricultural land	Total
Nyarugenge	4,105	160	736	2,589	7,591
Gasabo	16,756	138	4,344	6,964	28,202
Kicukiro	4,280	463	1,808	3,584	10,135
Nyanza	29,589	702	13,179	15,912	59,381
Gisagara	30,195	974	8,380	15,475	55,024
Nyaruguru	14,375	31	7,962	24,890	47,258
Huye	15,972	850	6,441	21,025	44,288
Nyamagabe	19,760		9,757	24,290	53,807
Ruhango	30,683	234	9,891	14,795	55,602
Muhanga	29,739		9,751	12,246	51,737
Kamonyi	37,479		7,086	13,235	57,800
Karongi	21,079		9,258	26,354	56,691
Rutsiro	21,054	6,214	8,443	19,162	54,874
Rubavu	15,721	1,404	2,393	8,154	27,672
Nyabihu	22,393	3,526	6,468	8,306	40,693
Ngororero	23,092	2,432	7,888	22,612	56,024
Rusizi	27,268	9	1,964	10,213	39,455
Nyamasheke	25,688	54	2,484	17,198	45,424
Rulindo	23,288		2,616	17,613	43,517
Gakenke	35,929		4,268	17,337	57,534
Musanze	19,819	1,529	5,228	8,113	34,688
Burera	28,664	18	2,909	13,882	45,473
Gicumbi	44,547	854	7,317	10,736	63,455
Rwamagana	36,178	4,765	3,761	12,279	56,983
Nyagatare	66,574	76,213	7,085	8,177	158,049
Gatsibo	53,402	17,087	2,950	13,213	86,653
Kayonza	51,863	30,807	7,168	22,461	112,299
Kirehe	54,398	6,992	2,810	26,357	90,556
Ngoma	43,098	3,835	4,083	24,608	75,623
Bugesera	52,742		22,434	25,506	100,682
SSF	**899,732**	**159,291**	**190,863**	**467,285**	**1,717,170**
LSF	**18,097**	**6,220**	**2,039**	**1,042**	**27,398**
Total	**917,829**	**165,511**	**192,902**	**468,327**	**1,744,568**

2017 Seasonal Agricultural Survey - Season B

Table 6: Cultivated area by crop type by stratum (Ha)

	Stratum						
	Intensive cropland on hillsides	Intensive cropland Marshland	Range lands	SSF Total	LSF Total	TOTAL	Percent
Cereals	**187,231**	**8,045**	**13,807**	**209,083**	***15,268***	***224,351***	**18.7**
Maize	74,009	2,296	8,179	84,484	878	85,362	7.1
Sorghum	103,553	4,190	5,369	113,113	272	113,384	9.4
Paddy rice	1,236	1,559		2,796	14,094	16,890	1.4
Wheat	7,261		236	7,497	18	7,516	0.6
Other Cereals	1,172		22	1,193	6	1,199	0.1
Tubers and Roots	**305,014**	**12,515**	**4,496**	**322,026**	***219***	***322,244***	**26.8**
Cassava	159,785	2,214	2,757	164,757	97	164,854	13.7
Sweet potato	80,409	7,887	816	89,112	34	89,146	7.4
Irish potato	44,082	1,030	871	45,982	87	46,069	3.8
Yams & Taro	20,738	1,385	52	22,175	0	22,176	1.8
Bananas	**219,375**	**1,980**	**5,217**	**226,572**	***125***	**226,697**	**18.9**
Cooking Banana	88,566	527	4,427	93,520	93	93,613	7.8
Dessert banana	31,946	477	172	32,595	19	32,614	2.7
Banana for beer	98,864	976	618	100,457	13	100,470	8.4
Legumes and Pulses	**315,273**	**7,409**	**15,355**	**338,038**	***695***	**338,733**	**28.2**
Beans	257,055	5,876	13,887	276,818	491	277,309	23.1
Bush bean	174,433	3,928	13,721	192,082	485	192,567	16.0
Climbing bean	82,622	1,948	166	84,736	6	84,741	7.1
Pea	10,139	68	80	10,287	22	10,309	0.9
Groundnut	19,316	163	986	20,465	8	20,473	1.7
Soyabean	28,763	1,303	402	30,468	175	30,643	2.6
Vegetables and Fruits	**23,443**	**1,969**	**157**	**25,570**	***330***	**25,899**	**2.2**
Vegetables	16,897	1,925	90	18,913	78	18,991	1.6
Fruits	6,546	44	67	6,657	251	6,908	0.6
Other crops	58,277	2,227	437	60,941	1,699	62,639	5.2
Developed land	**1,108,614**	**34,146**	**39,469**	**1,182,228**	**18,336**	**1,200,564**	**100.00**
Agricultural Physical land	844,770	29,936	25,026	899,732	18,097	917,829	
Fallow land	170,533	15,658	4,672	190,863	2,039	192,902	

2017 Seasonal Agricultural Survey - Season B

Table 7: Cultivated area by crop type by district (Ha)

Crop/Crop category	Nyarugenge	Gasabo	Kicukiro	Nyanza	Gisagara	Nyaruguru	Huye	Nyamagabe	Ruhango	Muhanga	Kamonyi	Karongi	Rutsiro
Cereals	**752**	**5,154**	**1,008**	**7,571**	**5,452**	**3,291**	**5,807**	**5,427**	**4,523**	**1,340**	**6,872**	**3,237**	**2,993**
Maize	340	1,476	426	1,903	1,912	192	692	436	1,579	709	1,819	1,048	1,846
Sorghum	**412**	3,653	583	5,593	3,166	2,487	4,874	4,200	2,805	419	5,044	1,638	8
Paddy rice	-	25	-	75	374	-	241	-	139	150	9	-	-
Wheat	-	-	-	-	-	568	-	693	-	-	-	213	1,139
Other cereals	-	-	-	-	-	44	-	99	-	62	-	337	-
Tubers and Roots	**1,431**	**3,704**	**797**	**10,136**	**7,476**	**10,091**	**7,847**	**11,854**	**18,865**	**14,745**	**13,203**	**13,615**	**9,321**
Cassava	995	1,947	528	6,418	4,084	3,067	4,366	4,450	14,031	8,341	7,922	7,062	2,430
Sweet potato	233	1,034	129	3,006	2,177	4,281	2,412	4,720	3,486	4,159	3,830	4,959	2,340
Irish potato	**6**	357	20	240	395	2,008	655	1,713	286	62	206	566	3,647
Yams & Taro	197	367	120	473	820	737	414	972	1,062	2,182	1,246	1,029	904
Bananas	**1,259**	**3,822**	**1,079**	**5,026**	**8,363**	**2,855**	**5,039**	**5,862**	**6,654**	**13,459**	**11,312**	**7,944**	**4,471**
Cooking banana	324	1,509	458	1,197	1,907	775	672	591	499	1,521	1,690	821	1,087
Dessert banana	145	1,230	235	1,937	817	329	1,081	645	1,435	2,539	1,757	792	1,271
Banana for beer	791	1,083	387	1,891	5,640	1,750	3,286	4,626	4,720	9,399	7,865	6,330	2,113
Legumes and Pulses	**1,310**	**5,855**	**1,544**	**13,358**	**16,922**	**5,257**	**6,970**	**7,440**	**13,972**	**11,444**	**14,357**	**8,509**	**5,209**
Beans	1,127	4,876	1,410	10,527	13,717	3,641	5,788	4,763	10,145	7,327	9,633	7,171	3,194
Bush bean	1,076	4,773	1,375	9,247	12,354	689	4,137	1,161	8,658	4,592	8,885	2,582	293
Climbing bean	50	103	35	1,281	1,363	2,952	1,651	3,602	1,488	2,735	749	4,589	2,901
Pea	50	103	35	1,281	1,363	2,952	1,651	3,602	1,488	2,735	749	4,589	2,901
Groundnut	56	313	46	1,379	745	-	35	-	1,193	-	1,628	-	-
Soybean	116	464	86	1,349	2,364	1,159	912	1,053	2,432	3,954	2,644	876	1,165
Vegetables and Fruits	**229**	**807**	**386**	**672**	**689**	**347**	**153**	**736**	**1,197**	**524**	**1,362**	**877**	**870**
Vegetables	199	514	284	580	687	320	153	357	609	504	1,156	838	664
Fruits	30	292	103	92	2	27	-	380	588	20	206	39	206
Other crops	**1,040**	**2,333**	**487**	**2,376**	**3,138**	**1,563**	**1,375**	**524**	**2,120**	**1,257**	**2,356**	**1,101**	**4,533**
Developed land	6,022	21,675	5,302	39,139	42,040	23,404	27,191	31,844	47,331	42,769	49,463	35,283	27,398
Agricultural physical land	4,105	16,756	4,280	29,589	30,195	14,375	15,972	19,760	30,683	29,739	37,479	21,079	21,054
Fallow land	736	4,344	1,808	13,179	8,380	7,962	6,441	9,757	9,891	9,751	7,086	9,258	8,443

2017 Seasonal Agricultural Survey - Season B

Table 7: Cultivated area by crop type by district (Ha) (cont'd)

Crop/Crop category	Rubavu	Nyabihu	Ngororero	Rusizi	Nyamasheke	Rulindo	Gakenke	Musanze	Burera	Gicumbi	Rwamagana	Nyagatare	Gatsibo	Kayonza
Cereals	**2,291**	**3,436**	**2,520**	**1,569**	**959**	**4,578**	**1,507**	**3,177**	**7,283**	**12,293**	**12,271**	**23,767**	**16,878**	**19,163**
Maize	1,379	2,086	1,471	1,360	814	779	1,129	2,775	1,291	2,842	3,616	17,916	8,867	7,641
Sorghum	**831**	-	-	123	54	3,758	151	-	4,837	9,328	8,575	5,504	7,486	11,450
Paddy rice	-	-	51	86	91	-	-	-	-	-	79	347	19	52
Wheat	81	1,350	998	-	-	42	227	402	1,155	124	-	-	505	-
Other cereals	-	-	-	-	-	-	-	-	-	-	-	-	-	22
Tubers and Roots	**6,252**	**12,137**	**16,855**	**17,898**	**19,515**	**9,341**	**14,078**	**6,387**	**8,826**	**11,305**	**8,907**	**7,392**	**10,362**	**11,661**
Cassava	146	745	6,005	15,328	13,046	4,190	5,802	131	278	3,344	3,817	4,715	6,786	7,111
Sweet potato	1,076	2,579	7,402	1,443	5,024	3,672	5,869	936	3,024	4,150	3,776	1,628	2,295	2,517
Irish potato	**4,867**	8,631	1,490	137	60	1,110	954	4,982	5,149	3,488	703	897	674	982
Yams & Taro	163	182	1,958	991	1,384	369	1,453	338	374	323	611	151	607	1,052
Bananas	**1,099**	**1,424**	**9,626**	**4,081**	**4,557**	**7,004**	**10,927**	**1,716**	**2,251**	**7,954**	**9,203**	**11,874**	**16,660**	**14,122**
Cooking banana	753	317	666	1,328	1,640	1,383	1,764	338	1,050	3,439	6,774	8,531	9,272	11,352
Dessert banana	12	395	2,622	308	472	2,009	2,888	482	140	1,926	1,146	723	1,706	660
Banana for beer	333	712	6,337	2,445	2,445	3,612	6,275	896	1,060	2,589	1,282	2,620	5,682	2,111
Legumes and Pulses	**3,930**	**2,351**	**6,594**	**6,740**	**7,333**	**11,282**	**13,362**	**4,754**	**12,324**	**14,938**	**11,210**	**33,635**	**21,044**	**16,684**
Beans	3,713	1,796	5,288	6,109	4,950	10,008	12,060	4,566	11,714	13,204	9,210	28,170	16,738	14,469
Bush bean	24	62	662	4,614	1,308	6,292	921	250	838	4,429	8,979	27,555	15,961	14,118
Climbing bean	3,689	1,733	4,626	1,495	3,642	3,716	11,139	4,316	10,876	8,775	231	615	776	352
Pea	3,689	1,733	4,626	1,495	3,642	3,716	11,139	4,316	10,876	8,775	231	615	776	352
Groundnut	-	-	-	-	-	147	-	-	-	-	1,230	3,869	3,023	1,082
Soybean	68	25	807	599	2,285	789	844	87	30	503	583	1,380	1,079	466
Vegetables and Fruits	**1,663**	**417**	**902**	**1,425**	**921**	**837**	**1,065**	**852**	**391**	**1,885**	**1,703**	**616**	**635**	**673**
Vegetables	1,650	297	731	852	699	733	576	613	278	1,502	1,245	521	417	371
Fruits	14	120	171	573	222	104	489	239	113	383	458	95	218	302
Other crops	**1,172**	**2,871**	**826**	**2,103**	**4,606**	**1,669**	**2,427**	**1,935**	**1,166**	**1,916**	**3,111**	**997**	**2,856**	**2,188**
Developed land	16,407	22,636	37,323	33,817	37,890	34,710	43,365	18,822	32,239	50,291	46,405	78,281	68,435	64,492
Agricultural physical land	15,721	22,393	23,092	27,268	25,688	23,288	35,929	19,819	28,664	44,547	36,178	66,574	53,402	51,863
Fallow land	2,393	6,468	7,888	1,964	2,484	2,616	4,268	5,228	2,909	7,317	3,761	7,085	2,950	7,168

2017 Seasonal Agricultural Survey - Season B

Table 7: Cultivated area by crop type by district (Ha) (cont'd)

Crop/Crop category	Kirehe	Ngoma	Bugesera	SSF Total	LSF Total	Total
Cereals	**17,384**	**9,908**	**16,671**	**209,083**	**15,268**	**224,351**
Maize	3,420	4,230	8,493	84,484	878	85,362
Sorghum	**13,545**	5,273	7,316	113,112	272	113,384
Paddy rice	419	405	233	2,796	14,094	16,890
Wheat	-	-	-	7,497	18	7,516
Other cereals	-	-	630	1,193	6	1,199
Tubers and Roots	**13,665**	**14,664**	**9,693**	**322,025**	**208**	**322,233**
Cassava	10,242	10,069	7,362	164,757	86	164,843
Sweet potato	1,794	3,365	1,795	89,112	34	89,146
Irish potato	**836**	863	-	45,982	87	46,069
Yams & Taro	793	368	535	22,175	0	22,176
Bananas	**17,722**	**16,675**	**12,532**	**226,572**	**125**	**226,697**
Cooking banana	12,996	13,393	5,471	93,520	93	93,613
Dessert banana	310	1,175	1,407	32,595	19	32,614
Banana for beer	4,415	2,107	5,654	100,457	13	100,470
Legumes and Pulses	**19,357**	**17,379**	**22,972**	**338,038**	**695**	**338,733**
Beans	18,009	16,188	17,306	276,818	491	277,309
Bush bean	13,886	15,518	16,843	192,082	485	192,567
Climbing bean	4,123	670	463	84,736	6	84,741
Pea	4,123	670	463	84,736	22	10,309
Groundnut	585	738	4,398	20,465	8	20,473
Soybean	635	454	1,258	30,468	175	30,643
Vegetables and Fruits	**644**	**1,369**	**723**	**25,570**	**271**	**25,840**
Vegetables	441	727	395	18,913	78	18,991
Fruits	203	642	328	6,657	192	6,849
Other crops	**2,659**	**3,701**	**536**	**60,941**	**1,699**	**62,639**
Developed land	71,431	63,696	63,128	1,182,228	18,266	1,200,494
Agricultural physical land	54,398	43,098	52,742	899,732	18,097	917,829
Fallow land	2,810	4,083	22,434	190,863	2,039	192,902

2017 Seasonal Agricultural Survey - Season B

Table 8: Yield of main crops by Stratum (kg/Ha)

Crop	Intensive cropland on hillsides	Intensive cropland in marshland	Rangelands	SSF Yield	LSF Yield	Overall Yield
Maize	949	2,161	833	971	3,152	993
Sorghum	963	1,222	843	967	915	966
Paddy rice	2,736	3,525	-	3,176	3,876	3,760
Wheat	1,135	-	538	1,117	1,526	1,118
Cassava	3,104	3,326	2,386	3,095	11,224	3,099
Sweet potato	5,171	5,858	3,777	5,219	4,798	5,218
Irish potato	10,170	6,027	5,716	9,993	11,889	9,997
Yams & Taro	3,163	7,400	1,597	3,424	1,008	3,424
Cooking banana	3,498	2,988	2,632	3,454	4,006	3,454
Dessert banana	3,335	5,241	3,951	3,366	3,883	3,367
Banana for beer	3,192	3,874	2,346	3,193	4,284	3,193
Bush bean	751	898	746	754	966	754
Climbing bean	1,035	1,309	1,320	1,042	1,328	1,042
Pea	559	461	159	556	242	555
Groundnut	427	522	317	422	692	422
Soybean	470	573	84	469	1,301	474
Vegetables	8,595	13,222	1,375	9,032	7,348	9,025
Fruits	2,635	2,295	1,547	2,622	1,574	2,593

2017 Seasonal Agricultural Survey - Season B

Table 9: Yield of main crops by district (Kg/Ha)

Crop	Nyarugenge	Gasabo	Kicukiro	Nyanza	Gisagara	Nyaruguru	Huye	Nyamagabe	Ruhango	Muhanga	Kamonyi	Karongi	Rutsiro
Maize	601	762	667	1,263	713	1,423	833	769	538	1,166	447	359	824
Sorghum	612	1,183	1,098	1,124	611	1,149	920	1,112	969	1,394	865	1,039	304
Paddy rice	-	-	-	2,192	2,839	-	3,124	-	3,155	2,849	1,687	-	-
Wheat	-	-	-	-	-	571	-	654	-	-	-	783	650
Cassava	1,891	2,637	2,306	3,909	3,795	5,677	2,216	5,891	6,184	3,696	3,591	2,604	5,245
Sweet potatoes	4,951	4,780	3,634	5,664	4,779	7,325	5,056	5,257	4,877	5,961	4,464	7,922	6,465
Irish potatoes	3,763	5,255	1,267	1,670	2,780	3,905	1,302	9,621	1,797	876	4,455	6,147	6,254
Yams & Taro	1,050	3,376	3,246	5,233	2,151	3,248	1,453	6,227	3,860	6,002	2,403	6,345	7,394
Cooking Banana	3,179	3,350	7,579	4,108	2,489	3,437	1,802	4,535	3,937	3,776	2,587	5,910	6,163
Dessert banana	1,921	3,900	5,223	3,793	2,214	1,816	1,270	2,921	1,853	4,791	3,639	3,336	6,125
Banana for beer	3,915	3,210	2,913	6,035	2,352	1,976	1,384	4,049	3,055	3,306	4,989	4,503	3,902
Bush bean	809	739	809	1,030	768	503	998	754	751	618	473	508	710
Climbing bean	880	2,131	1,253	1,185	1,013	1,120	1,102	881	1,005	1,010	793	823	560
Peas	817	597	218	798	690	470	937	495	599	315	372	519	304
Ground nuts	305	644	484	513	436	-	487	-	570	-	351	-	-
Soya beans	372	589	464	324	358	445	522	492	387	397	390	424	220
Vegetables	11,107	8,540	7,787	15,706	5,123	5,085	3,162	18,987	6,766	1,434	2,103	11,692	4,838
Fruits	1,134	1,633	2,031	2,135	4,114	196	-	477	5,264	4,432	4,500	709	308

2017 Seasonal agricultural Survey- Season B

Table 9: Yield of main crops by district (Kg/Ha) *(cont'd)*

Crop	Rubavu	Nyabihu	Ngororero	Rusizi	Nyamasheke	Rulindo	Gakenke	Musanze	Burera	Gicumbi	Rwamagana	Nyagatare	Gatsibo	Kayonza
Maize	1,101	842	430	1,288	416	365	454	1,082	708	977	922	1,069	1,389	728
Sorghum	1,421	-	-	521	322	782	1,127	-	1,538	965	1,164	828	1,152	918
Paddy rice	-	-	3,532	3,598	3,521	-	-	-	-	-	3,543	2,335	3,576	3,175
Wheat	786	1,329	583	-	-	601	1,158	1,876	1,311	-	-	-	1,272	-
Cassava	5,053	4,512	5,713	2,922	3,599	2,901	4,413	2,993	2,239	2,525	2,138	1,943	2,925	2,087
Sweet potatoes	5,139	4,869	5,440	3,640	4,091	4,835	5,629	7,304	4,825	6,674	5,223	4,522	5,512	3,799
Irish potatoes	11,864	12,876	5,054	3,273	1,561	5,873	4,435	12,682	10,590	5,655	3,717	4,139	3,650	2,978
Yams & Taro	3,118	8,941	3,461	2,013	2,709	4,576	7,730	8,878	4,577	3,547	3,258	3,849	2,525	2,369
Cooking Banana	5,418	4,684	2,972	3,518	5,511	3,176	3,704	6,033	5,241	3,351	3,281	3,216	3,684	2,956
Dessert banana	760	2,286	1,567	3,033	2,507	3,358	4,860	5,311	6,450	4,032	3,055	2,972	2,868	3,448
Banana for beer	2,483	1,954	1,989	1,926	5,295	3,088	3,220	3,646	2,940	2,755	3,891	2,731	2,590	3,606
Bush bean	-	383	389	641	472	567	225	740	546	660	702	801	841	716
Climbing bean	973	1,161	703	486	822	1,082	1,044	1,496	1,297	1,024	991	1,374	1,332	1,340
Peas	786	779	452	444	522	517	559	798	708	720	468	500	426	463
Ground nuts	-	-	-	-	-	741	-	-	-	-	558	401	511	299
Soya beans	354	486	288	450	473	378	420	462	241	642	543	617	556	443
Vegetables	10,687	12,598	4,166	4,295	7,871	9,545	4,118	16,287	12,472	12,041	11,548	6,926	13,637	2,846
Fruits	5,383	751	4,797	850	4,399	536	4,503	774	1,800	781	3,119	3,051	2,401	1,124

2017 Seasonal agricultural Survey- Season B

Table 9: Yield of main crops by district (Kg/Ha) *(cont'd)*

Crop	Kirehe	Ngoma	Bugesera	LSF Yield	Overall Yield
Maize	592	524	1,684	3,152	1,009
Sorghum	789	981	694	915	974
Paddy rice	3,878	3,337	4,322	3,876	3,766
Wheat	-	-	-	1,526	978
Cassava	1,943	3,307	3,918	11,224	3,589
Sweet potatoes	4,588	4,654	5,329	4,798	5,414
Irish potatoes	2,156	3,094	-	11,889	8,655
Yams & Taro	2,444	3,000	4,045	1,008	4,229
Cooking Banana	3,384	2,673	3,200	4,006	3,372
Dessert banana	1,941	2,022	3,879	3,883	3,417
Banana for beer	3,046	2,915	2,662	4,284	3,256
Bush bean	756	547	731	966	726
Climbing bean	1,023	563	875	1,328	1,028
Peas	127	-	741	242	544
Ground nuts	306	301	376	692	431
Soya beans	61	505	448	1,301	424
Vegetables	3,212	1,619	5,513	7,348	8,171
Fruits	1,681	3,692	2,412	1,574	2,495

2017 Seasonal agricultural Survey- Season B

Table 10: Production of main crops by district (MT)

Crop	Nyarugenge	Gasabo	Kicukiro	Nyanza	Gisagara	Nyaruguru	Huye	Nyamagabe	Ruhango	Muhanga	Kamonyi	Karongi	Rutsiro	Rubavu
Maize	204	1,124	284	2,403	1,363	273	577	335	850	827	813	376	1,521	1,518
Sorghum	252	4,321	640	6,287	1,934	2,856	4,485	4,670	2,718	585	4,365	1,703	2	1,181
Paddy rice	-	-	-	165	1,061	-	752	-	439	427	16	-	-	-
Wheat	-	-	-	-	-	324	-	454	-	-	-	167	740	64
Cassava	1,881	5,134	1,217	25,090	15,499	17,410	9,676	26,211	86,770	30,832	28,445	18,387	12,745	735
Sweet potato	1,154	4,940	470	17,026	10,405	31,357	12,198	24,814	16,998	24,791	17,094	39,284	15,127	5,532
Irish potato	24	1,875	25	401	1,097	7,838	852	16,477	514	55	916	3,477	22,811	57,747
Yams & Taro	207	1,238	389	2,473	1,763	2,393	602	6,052	4,101	13,099	2,995	6,530	6,686	508
Cooking Banana	1,029	5,056	3,469	4,918	4,745	2,664	1,210	2,681	1,963	5,743	4,372	4,854	6,698	4,082
Dessert banana	278	4,796	1,227	7,346	1,808	598	1,373	1,885	2,659	12,166	6,396	2,644	7,784	9
Banana for beer	3,097	3,475	1,126	11,415	13,265	3,459	4,547	18,729	14,418	31,075	39,243	28,505	8,247	828
Bush bean	870	3,528	1,112	9,521	9,487	346	4,128	876	6,506	2,837	4,203	1,311	208	-
Climbing bean	44	220	44	1,518	1,380	3,308	1,819	3,172	1,495	2,763	593	3,776	1,624	3,589
Peas	10	121	1	82	66	214	221	804	121	51	168	239	259	117
Ground nuts	17	202	22	707	325	-	17	-	680	-	571	-	-	-
Soya beans	43	273	40	437	846	516	476	518	941	1,570	1,032	371	257	24
Vegetables	2,211	4,393	2,208	9,115	3,520	1,628	485	6,772	4,121	723	2,431	9,798	3,212	17,631
Fruits	34	477	209	197	10	5	-	181	3,093	89	927	28	64	73

2017 Seasonal Agricultural Survey - Season B

Table 10: Production of main crops by district (MT) (*cont'd)*

Crop	Nyabihu	Ngororero	Rusizi	Nyamasheke	Rulindo	Gakenke	Musanze	Burera	Gicumbi	Rwamagana	Nyagatare	Gatsibo	Kayonza
Maize	1,756	633	1,752	338	284	513	3,002	915	2,775	3,334	19,149	12,317	5,564
Sorghum	-	-	64	17	2,937	171	-	7,437	9,005	9,984	4,557	8,622	10,509
Paddy rice	-	181	310	320	-	-	-	-	-	280	811	69	165
Wheat	1,794	582	-	-	25	262	755	1,513	-	-	-	643	-
Cassava	3,362	34,309	44,782	46,956	12,158	25,604	393	624	8,443	8,161	9,161	19,849	14,837
Sweet potato	12,558	40,265	5,252	20,556	17,751	33,040	6,836	14,593	27,698	19,721	7,363	12,653	9,562
Irish potato	111,123	7,532	449	93	6,517	4,230	63,187	54,529	19,724	2,613	3,712	2,458	2,924
Yams & Taro	1,632	6,776	1,994	3,750	1,690	11,231	3,001	1,710	1,146	1,990	583	1,533	2,492
Cooking Banana	1,485	1,980	4,673	9,040	4,393	6,533	2,040	5,505	11,524	22,229	27,431	34,156	33,555
Dessert banana	902	4,110	933	1,182	6,746	14,036	2,559	902	7,767	3,501	2,150	4,893	2,275
Banana for beer	1,392	12,604	4,709	12,947	11,152	20,205	3,268	3,118	7,134	4,988	7,154	14,718	7,612
Bush bean	24	257	2,957	618	3,565	207	185	458	2,922	6,300	22,083	13,419	10,102
Climbing bean	2,013	3,253	727	2,995	4,022	11,629	6,458	14,109	8,983	228	845	1,034	471
Pea	413	226	14	51	175	256	80	411	887	88	108	87	309
Groundnut	-	-	-	-	109	-	-	-	-	686	1,550	1,546	323
Soybean	12	232	269	1,080	298	354	40	7	323	316	852	599	206
Vegetables	3,747	3,046	3,658	5,500	6,993	2,371	9,986	3,462	18,084	14,373	3,608	5,688	1,056
Fruits	90	819	487	977	56	2,202	185	204	299	1,430	290	523	339

2017 Seasonal Agricultural Survey - Season B

Table 10: Production of main crops by district (MT) (*cont'd)*

Crop	Kirehe	Ngoma	Bugesera	SSF Total	LSF Total	Total (2017 B)	Total (2016 B)	Percentage change
Maize	2,024	2,217	14,305	83,346	2,768	86,114	73,937	*16%*
Sorghum	10,688	5,170	5,077	110,239	249	110,488	116,310	*-5%*
Paddy rice	1,625	1,352	1,005	8,976	54,631	63,607	61,114	*4%*
Wheat	-	-	-	7,323	28	7,351	5,558	*32%*
Cassava	19,897	33,300	28,847	590,714	966	591,681	524,259	*13%*
Sweet potatoes	8,233	15,657	9,565	482,494	163	482,657	392,114	*23%*
Irish potatoes	1,804	2,670	-	397,676	1,037	398,714	309,052	*29%*
Yams & Taro	1,937	1,103	2,165	93,770	0	93,770	69,590	*35%*
Cooking Banana	43,985	35,795	17,505	315,316	373	315,689	391,886	*-19%*
Dessert banana	602	2,376	5,459	111,363	74	111,436	90,720	*23%*
Banana for beer	13,448	6,143	15,049	327,071	56	327,127	410,186	*-20%*
Bush bean	10,504	8,482	12,307	139,323	468	139,792	108,902	*28%*
Climbing bean	4,217	377	406	87,112	8	87,120	76,049	*15%*
Peas	16	-	7	5,601	5	5,607	4,192	*34%*
Ground nuts	179	222	1,653	8,809	5	8,814	5,206	*69%*
Soya beans	39	229	563	12,765	228	12,993	9,183	*41%*
Vegetables	1,417	1,176	2,177	154,593	575	155,168	124,801	*24%*
Fruits	341	2,370	792	16,787	303	17,090	10,963	*56%*

2017 Seasonal Agricultural Survey - Season B

Table 11: Average plot size per crop type by stratum (Ha/100)

Crop	Intensive cropland on hillside	Intensive cropland in marshland	Rangelands	Total	LSF
Maize	2.8	17.5	9.5	4.6	4.6
Sorghum	9.7	5.5	31.1	10.9	4.6
Paddy rice	7.5	13.9	0.0	12.2	169.8
Wheat	6.6	0.0	5.0	6.6	2.3
Other cereals	3.4	0.0	7.8	3.5	0.6
Cassava	3.6	2.2	9.6	3.8	1.1
Sweet potato	2.8	3.6	5.3	3.0	0.6
Irish potato	4.4	7.6	7.2	4.8	1.7
Taro	2.1	1.1	3.6	2.0	0.1
Yams	1.3	0.0	0.0	1.3	0.0
Cooking banana	4.3	3.1	23.9	5.4	0.8
Dessert banana	2.7	2.8	3.3	2.7	0.4
Banana for beer	4.4	5.1	10.6	4.6	0.7
Bush bean	5.9	6.0	38.9	8.5	2.2
Climbing bean	5.1	4.6	8.2	5.1	1.2
Pea	2.0	2.5	5.6	2.1	4.0
Groundnut	4.5	3.8	10.3	5.0	0.4
Soybean	3.2	3.2	19.1	3.9	4.1
vegetables	3.4	2.6	2.2	3.2	0.4
Fruits	4.4	2.0	4.3	4.3	1.1
Other crops	7.0	28.9	6.6	9.2	6.3
Overall average	**4.4**	**7.2**	**15.9**	**5.2**	**10.7**

2017 Seasonal Agricultural Survey - Season B

Table 12: Average plot size per crop type by district (Ha/100)

District	Maize	Paddy rice	Sorghum	Wheat	Other cereals	Cassava	Irish potato	Sweet potato	Taro	Yarms	Bush bean	Climbing bean	Pea	Groundnut	Soybean
Nyarugenge	1.6	9.2	-	-	-	4.2	2.0	1.3	2.6	-	4.8	2.2	1.3	1.5	1.8
Gasabo	2.6	10.0	9.4	-	-	2.5	4.3	3.0	4.5	-	8.9	2.9	1.1	2.1	4.4
Kicukiro	2.2	12.6	-	-	-	3.3	2.1	8.6	1.4	1.6	5.8	4.8	1.0	2.1	3.6
Nyanza	1.2	6.7	7.5	-	-	4.0	3.2	2.2	1.0	-	3.3	3.1	1.5	4.6	3.4
Gisagara	1.0	3.7	5.0	-	-	2.0	2.1	1.9	0.8	0.7	3.0	4.3	1.2	2.1	3.0
Nyaruguru	2.1	4.7	-	2.9	3.9	1.9	2.9	2.7	0.9	-	2.1	3.0	1.6	-	2.8
Huye	1.3	5.9	4.5	-	-	1.9	1.6	1.6	0.8	-	4.0	3.7	0.6	1.5	3.3
Nyamagabe	1.2	2.3	-	7.4	3.8	1.6	1.8	2.8	1.6	0.4	1.4	2.7	1.5	-	1.4
Ruhango	1.0	4.4	9.4	-	-	4.3	2.4	1.8	1.2	1.2	2.2	5.4	0.9	3.2	2.1
Muhanga	1.1	3.0	5.7	-	4.1	2.2	1.8	0.5	1.4	-	2.3	2.9	1.0	-	3.6
Kamonyi	0.6	6.1	2.1			2.0	1.7	1.3	0.8	1.0	3.6	4.3	0.7	1.7	2.9
Karongi	1.3	4.6	-	1.8	6.0	2.8	2.4	1.7	1.5	-	3.6	2.2	1.2	-	2.1
Rutsiro	2.4	2.8	-	7.5	-	1.2	3.0	4.3	1.6	-	1.1	5.6	4.8	-	2.0
Rubavu	9.4	8.7	-	15.3	-	8.0	7.3	13.6	1.6	-	2.2	3.9	3.8	-	1.4
Nyabihu	2.4	-	-	6.0	-	1.3	1.2	9.5	1.4	-	1.9	2.0	2.2	-	1.7
Ngororero	0.6	-	5.9	2.8	-	1.6	1.6	2.7	1.7	-	1.7	2.3	1.1	-	1.4
Rusizi	8.1	2.8	21.0	-	-	7.6	2.7	0.9	1.5	1.6	6.2	7.2	0.2	-	4.4
Nyamasheke	0.8	0.6	6.8	-	-	3.8	3.0	0.8	2.4	0.9	1.9	4.8	0.5	-	2.7
Rulindo	1.5	10.2	-	6.7	-	1.9	2.4	3.9	0.9	0.4	4.9	4.6	3.3	1.9	2.1
Gakenke	2.8	7.3	-	10.2	-	1.5	2.8	1.6	2.7	-	6.2	4.6	1.8	-	1.7
Musanze	3.2	-	-	12.1	-	0.5	1.8	17.8	1.0	-	0.7	5.9	4.3	-	4.3
Burera	2.6	6.0		5.8		0.4	2.6	6.8	2.1		4.0	6.3	2.5		0.5
Gicumbi	1.1	7.1	-	1.4	-	2.0	2.3	10.7	0.9	-	3.0	4.7	2.6	-	2.7
Rwamagana	3.3	14.8	5.9	-	-	2.3	2.6	3.2	5.1	-	9.0	2.7	2.6	2.1	2.3
Nyagatare	9.8	15.9	33.2	-	-	6.1	5.9	3.6	2.6	-	21.1	4.6	3.2	10.1	5.2
Gatsibo	4.1	13.2	21.9	9.2	-	3.8	4.2	3.7	3.1	-	22.4	7.5	1.6	5.7	4.9
Kayonza	5.7	26.0	9.1	-	7.8	8.7	4.8	3.1	3.3	-	12.3	18.1	3.3	4.6	4.5
Kirehe	3.0	11.6	10.0	-	-	5.2	3.2	3.3	2.5	-	9.2	15.8	2.3	5.1	15.9
Ngoma	2.3	14.8	3.2	-	-	5.3	3.6	2.4	2.4	1.4	7.6	16.8	-	2.5	2.4
Bugesera	29.2	15.1	27.4	-	2.9	5.1	3.7	-	2.6	2.3	9.0	3.6	0.6	7.2	3.4
Total	4.6	10.9	12.2	6.6	3.5	3.8	3.0	4.8	2.0	1.3	8.5	5.1	2.1	5.0	3.9

2017 Seasonal Agricultural Survey - Season B

Table 12: Average plot size per crop type by district (Ha/100) *(Cont.)*

District	Cooking banana	Dessert banana	Banana for beer	vegetables	Fruits	Other crops	Total
Nyarugenge	3.5	2.7	7.3	3.7	4.8	74.0	10.1
Gasabo	3.9	4.0	4.3	3.3	5.0	32.2	7.4
Kicukiro	3.8	2.9	7.4	5.2	4.1	19.0	6.0
Nyanza	1.6	2.5	2.5	3.7	2.6	22.2	4.7
Gisagara	1.6	1.6	2.3	1.9	0.7	4.1	2.4
Nyaruguru	1.9	1.6	3.3	1.3	1.3	3.9	2.6
Huye	5.1	1.8	2.6	1.2	-	3.6	2.7
Nyamagabe	1.5	2.1	3.4	1.6	2.8	4.5	2.2
Ruhango	1.2	3.0	3.4	1.3	9.5	2.4	3.1
Muhanga	1.6	2.3	6.5	1.4	0.2	2.5	2.4
Kamonyi	1.8	2.4	5.0	1.8	2.7	3.0	2.6
Karongi	1.7	2.2	7.0	1.4	0.4	6.5	2.9
Rutsiro	1.8	1.3	1.9	2.0	2.7	9.4	3.7
Rubavu	8.7	2.6	1.8	7.9	2.3	6.4	6.8
Nyabihu	1.1	1.1	1.6	4.8	8.9	8.1	4.4
Ngororero	1.2	2.2	3.3	1.3	3.5	5.1	2.1
Rusizi	2.9	2.0	3.8	3.4	5.0	4.9	4.7
Nyamasheke	0.9	1.1	3.4	1.8	2.9	8.4	3.2
Rulindo	1.5	2.7	3.5	2.7	1.0	10.1	3.6
Gakenke	3.1	4.1	7.5	1.8	2.2	3.4	3.4
Musanze	1.8	1.8	1.7	3.9	10.4	5.5	5.3
Burera	2.1	1.9	2.6	2.0	4.0	2.9	3.7
Gicumbi	1.8	1.8	2.4	2.6	7.5	5.0	3.7
Rw amagana	5.7	2.1	4.0	3.4	7.4	9.2	5.3
Nyagatare	15.2	4.9	5.3	10.1	2.7	4.9	9.7
Gatsibo	7.6	2.5	4.6	2.3	3.8	4.9	6.8
Kayonza	10.2	3.1	6.4	3.3	4.7	4.0	7.8
Kirehe	9.0	4.3	9.5	4.8	4.3	4.0	6.9
Ngoma	8.0	3.5	3.0	4.7	7.0	3.0	5.2
Bugesera	9.1	4.9	5.5	8.0	3.3	5.1	8.6
Total	5.4	2.7	4.6	3.2	4.3	9.2	5.2

2017 Seasonal Agricultural Survey - Season B

Table 13: Average number of crop types per plot (in case of mix cropping) by stratum

Stratum	Average number
Intensive cropland on hillsides	3.3
Intensive cropland in marshlands	2.8
Rangelands	3.1
Overall average number of crops/plot	**3.2**

2017 Seasonal Agricultural Survey - Season B

Table 14: Average number of crop types per plot (in case of mix cropping) by district

District	Stratum			
	Intensive cropland on hillsides	Intensive cropland in marshlands	Rangelands	Overall average
Nyarugenge	3.4	2.0	-	3.4
Gasabo	3.6	3.3	-	3.5
Kicukiro	3.6	-	-	3.6
Nyanza	2.9	2.5	-	2.9
Gisagara	3.6	2.7	-	3.6
Nyaruguru	2.8	2.4	-	2.8
Huye	3.6	2.6	2.0	3.6
Nyamagabe	3.2	2.7	-	3.2
Ruhango	3.4	2.5	-	3.3
Muhanga	3.4	3.0	-	3.3
Kamonyi	3.3	2.7	-	3.3
Karongi	2.9	2.3	-	2.8
Rutsiro	2.8	2.3	2.0	2.8
Rubavu	2.5	-	-	2.5
Nyabihu	2.7	2.3	2.0	2.7
Ngororero	3.1	2.5	-	3.0
Rusizi	3.2	2.8	-	3.1
Nyamasheke	3.2	3.0	-	3.2
Rulindo	3.2	2.2	-	3.2
Gakenke	2.9	2.4	-	2.8
Musanze	2.5	2.1	-	2.5
Burera	2.5	2.0	-	2.5
Gicumbi	3.3	3.2	-	3.3
Rwamagana	3.5	3.1	-	3.5
Nyagatare	3.0	2.4	2.8	2.9
Gatsibo	3.5	3.0	3.6	3.5
Kayonza	3.6	3.4	2.9	3.5
Kirehe	3.1	2.9	3.1	3.1
Ngoma	4.1	-	-	4.1
Bugesera	3.2	1.7	-	3.2
Overall average number of crops/plot	**3.3**	**2.8**	**3.1**	**3.2**

2017 Seasonal Agricultural Survey - Season B

Table 15: Share of pure and mixed crop agricultural land per stratum (in percentage)

Stratum	Pure cropping	Mixed cropping	Total
Intensive cropland on hillsides	18.9	81.1	100.0
Intensive cropland in marshlands	54.4	45.6	100.0
Rangelands	13.1	86.9	100.0
Total	19.8	80.2	100.0
LSF	88.2	11.8	100.0

2017 Seasonal Agricultural Survey - Season B

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

District	Pure cropping	Mixed cropping	Total
Nyarugenge	22.8	77.2	100.0
Gasabo	14.8	85.2	100.0
Kicukiro	11.9	88.1	100.0
Nyanza	24.0	76.0	100.0
Gisagara	15.1	84.9	100.0
Nyaruguru	42.4	57.6	100.0
Huye	11.7	88.3	100.0
Nyamagabe	20.0	80.0	100.0
Ruhango	15.8	84.2	100.0
Muhanga	22.5	77.5	100.0
Kamonyi	14.5	85.5	100.0
Karongi	31.3	68.7	100.0
Rutsiro	33.1	66.9	100.0
Rubavu	54.8	45.2	100.0
Nyabihu	38.3	61.7	100.0
Ngororero	22.8	77.2	100.0
Rusizi	21.6	78.4	100.0
Nyamasheke	18.0	82.0	100.0
Rulindo	18.2	81.8	100.0
Gakenke	22.0	78.0	100.0
Musanze	32.9	67.1	100.0
Burera	43.6	56.4	100.0
Gicumbi	25.6	74.4	100.0
Rwamagana	12.2	87.8	100.0
Nyagatare	9.6	90.4	100.0
Gatsibo	8.7	91.3	100.0
Kayonza	17.4	82.6	100.0
Kirehe	20.0	80.0	100.0
Ngoma	12.2	87.8	100.0
Bugesera	10.7	89.3	100.0
Total	**19.8**	**80.2**	**100.0**

2017 Seasonal Agricultural Survey - Season B

Table 17: Sowing dates per crop (Percentage) in segments

Crop	Before 31/12	Between 01-31/01	Between 01-28/02	Between 01-15/03	Between 16-31/03	After 31/03	Not applicable	Total
Maize	0.1	4.7	60.6	28.7	4.6	1.2	0.1	100.0
Paddy rice	6.4	22.8	59.2	-	10.2	1.4	-	100.0
Sorghum	2.9	62.0	31.6	2.9	0.2	-	0.5	100.0
Wheat	-	2.2	8.7	15.2	29.4	44.6	-	100.0
Bush bean	0.0	4.1	54.5	37.9	2.8	0.5	0.2	100.0
Climbing bean	0.2	1.2	44.1	36.9	13.0	4.6	0.2	100.0
Pea	-	4.6	48.2	30.0	10.3	7.0	-	100.0
Irish potato	0.4	7.8	26.5	20.0	13.8	19.8	11.8	100.0
Sweet potato	7.9	14.2	26.1	16.9	9.4	24.6	0.8	100.0
Soybean	0.6	3.6	66.3	23.4	4.4	1.1	0.6	100.0
Groundnut	0.2	3.6	60.3	33.1	1.5	0.2	1.1	100.0
Taro	59.4	8.9	7.5	2.2	1.6	1.9	18.6	100.0
Yam	63.0	3.7	11.1	-	-	-	22.2	100.0
Cassava	43.6	0.4	0.4	0.1	0.2	0.2	55.2	100.0
Cooking banana	9.4	0.1	-	0.1	0.1	-	90.4	100.0
Dessert banana	5.2	0.1	0.1	-	-	0.1	94.5	100.0
Banana for beer	6.5	-	0.1	0.1	0.1	0.1	93.1	100.0
Vegetables	13	11	22	13	7	27	6	100.0
Other crops	10.8	0.9	1.0	2.5	1.6	2.2	80.9	100.0
Other cereals	0.8	5.8	68.5	20.3	2.5	0.3	2.0	100.0
Overall	7.2	8.7	34.4	17.3	4.7	4.4	23.3	100.0

2017 Seasonal Agricultural Survey - Season B

Table 18: Sowing dates per crop (Percentage) for Large Scale farmers

crop	Before 01/09	Between 01-15 /09	Between 16-30/09	Between 01-15/10	Between16-31/10	After 31/10	Not applicable	Total
Maize	0.5	4.3	59.1	25.3	2.7	5.4	2.7	100.0
Paddy rice	14.5	53.0	27.7	-	2.4	2.4	-	100.0
Sorghum	-	41.8	45.5	12.7	-	-	-	100.0
Wheat	-	-	-	12.5	50.0	37.5	-	100.0
Bush bean	-	0.5	37.8	49.3	11.0	1.5	-	100.0
Climbing bean	-	-	33.3	33.3	33.3	-	-	100.0
Pea	-	-	16.7	-	33.3	50.0	-	100.0
Irish potato	-	2.0	20.0	38.0	30.0	10.0	-	100.0
Sweet potato	12.2	26.8	4.9	17.1	24.4	14.6	-	100.0
Soybean	-	-	30.8	56.4	7.7	5.1	-	100.0
Groundnut	-	-	40.0	60.0	-	-	-	100.0
Taro	25.0	-	25.0	-	-	25.0	25.0	100.0
Cassava	20.0	-	4.0	-	-	-	76.0	100.0
Cooking banana	15.5	-	-	-	-	1.4	83.1	100.0
Dessert banana	22.2	-	-	-	-	-	77.8	100.0
Banana for beer	-	-	-	-	-	-	100.0	100.0
Vegetables	8.6	15.9	19.2	17.2	6.6	32.5	-	100.0
Other crops	38.0	1.8	15.8	5.0	4.1	5.0	30.3	100.0
Other cereals	-	-	-	100.0	-	-	-	100.0
Overall	11.7	9.4	26.9	20.4	6.7	7.8	17.2	100.0

2017 Seasonal Agricultural Survey - Season B

Table 19: Sowing dates per district (Percentage)

District	Before 31/12	Between 01-31/01	Between 01-28/02	Between 01-15/03	Between 16-31/03	After 31/03	Not applicable	Total
Nyarugenge	5.3	7.9	50.0	7.2	0.2	2.6	27.0	100.0
Gasabo	6.7	12.5	38.8	8.8	2.0	1.3	29.9	100.0
Kicukiro	11.9	9.8	38.3	11.5	1.3	0.8	26.4	100.0
Nyanza	2.3	15.6	39.8	10.1	3.8	3.7	24.8	100.0
Gisagara	8.4	10.0	47.5	7.9	2.2	1.4	22.5	100.0
Nyaruguru	15.0	15.0	18.2	10.8	4.5	15.8	20.6	100.0
Huye	11.5	21.4	41.3	5.6	3.4	2.3	14.4	100.0
Nyamagabe	4.2	17.3	31.5	12.3	6.2	9.6	18.9	100.0
Ruhango	4.7	13.9	52.6	4.4	0.4	1.9	22.1	100.0
Muhanga	7.0	4.9	31.2	10.2	3.0	5.6	38.2	100.0
Kamonyi	9.5	9.1	43.1	11.1	1.6	2.3	23.4	100.0
Karongi	4.9	7.4	33.3	7.6	4.9	9.9	32.0	100.0
Rutsiro	9.6	5.1	28.6	9.6	3.9	12.9	30.4	100.0
Rubavu	0.8	4.3	24.6	27.3	17.6	14.6	10.8	100.0
Nyabihu	4.5	5.1	17.3	27.4	18.4	17.3	10.1	100.0
Ngororero	8.5	5.4	20.5	15.3	4.2	13.5	32.6	100.0
Rusizi	19.1	6.7	26.4	8.5	4.7	4.7	30.0	100.0
Nyamasheke	9.8	4.1	38.0	5.0	3.0	3.1	37.0	100.0
Rulindo	3.9	6.5	27.9	18.6	5.5	8.3	29.3	100.0
Gakenke	3.1	2.5	10.3	18.7	14.0	9.6	41.9	100.0
Musanze	7.2	2.6	12.5	28.0	19.5	17.6	12.5	100.0
Burera	3.7	20.6	19.3	17.7	12.3	11.0	15.4	100.0
Gicumbi	2.8	7.0	35.3	21.6	3.6	4.3	25.5	100.0
Rwamagana	7.7	12.9	35.6	10.4	4.4	2.5	26.7	100.0
Nyagatare	6.3	2.2	27.5	44.4	7.2	1.2	11.2	100.0
Gatsibo	4.2	2.9	37.9	22.6	3.2	1.6	27.6	100.0
Kayonza	9.7	9.8	29.3	26.5	4.1	1.8	18.9	100.0
Kirehe	8.5	15.2	45.1	6.3	1.0	0.5	23.4	100.0
Ngoma	4.8	5.2	36.8	21.0	3.4	2.6	26.2	100.0
Bugesera	8.8	10.3	44.0	20.6	1.6	0.6	14.1	100.0
Overall	7.2	8.7	34.4	17.3	4.7	4.4	23.3	100.0

2017 Seasonal Agricultural Survey - Season B

Table 20: Type of seeds used by stratum (Percentage)

Stratum	Traditional seeds	Improved seeds	Total
Intensive cropland on hillsides	96.3	3.7	100.0
Intensive cropland in marshlands	86.7	13.3	100.0
Rangelands	97.8	2.2	100.0
Total	95.4	4.6	100.0
LSF	59.7	40.3	100.0

2017 Seasonal Agricultural Survey - Season B

Table 21: Type of seeds used by district (Percentage)

District	Traditional seeds	Improved seeds	Total
Nyarugenge	95.7	4.3	100.0
Gasabo	97.3	2.7	100.0
Kicukiro	97.5	2.5	100.0
Nyanza	92.5	7.5	100.0
Gisagara	93.5	6.5	100.0
Nyaruguru	97.1	2.9	100.0
Huye	97.8	2.2	100.0
Nyamagabe	97.5	2.5	100.0
Ruhango	96.8	3.2	100.0
Muhanga	98.3	1.7	100.0
Kamonyi	96.7	3.3	100.0
Karongi	94.6	5.4	100.0
Rutsiro	92.5	7.6	100.0
Rubavu	85.4	14.6	100.0
Nyabihu	95.5	4.5	100.0
Ngororero	96.8	3.2	100.0
Rusizi	97.5	2.5	100.0
Nyamasheke	96.2	3.8	100.0
Rulindo	97.9	2.1	100.0
Gakenke	96.2	3.8	100.0
Musanze	98.5	1.5	100.0
Burera	97.4	2.6	100.0
Gicumbi	94.8	5.2	100.0
Rwamagana	93.6	6.4	100.0
Nyagatare	95.0	5.0	100.0
Gatsibo	94.2	5.8	100.0
Kayonza	96.8	3.2	100.0
Kirehe	97.6	2.4	100.0
Ngoma	97.3	2.7	100.0
Bugesera	88.4	11.6	100.0
Total	95.4	4.6	100.0

2017 Seasonal Agricultural Survey - Season B

Table 22: Type of seeds used by crop (Percentage)

crop	Traditional seeds	Improved seeds	Total
Vegetables	67.2	32.8	100.0
Other crops	86.8	13.2	100.0
Other celeals	100.0	-	100.0
Maize	87.5	12.6	100.0
Paddy rice	56.1	43.9	100.0
Sorghum	99.9	0.1	100.0
Wheat	76.7	23.3	100.0
Bush bean	99.1	0.9	100.0
Climbing bean	99.6	0.4	100.0
Pea	99.3	0.7	100.0
Irish potato	99.1	1.0	100.0
Sweet potato	99.8	0.2	100.0
Soybean	98.6	1.4	100.0
Groundnut	100.0	-	100.0
Small red bean	100.0	-	100.0
Taro	100.0	-	100.0
Yarms	100.0	-	100.0
Cassava	99.7	0.4	100.0
Cooking banana	99.7	0.3	100.0
Dessert banana	98.9	1.1	100.0
Banana for beer	99.6	0.4	100.0
Overall	95.4	4.6	100.0

2017 Seasonal Agricultural Survey - Season B

Table 23: Source of improved seeds by district (Percentage)

District	RAB/NAEB /SECTOR	Recognized seed multipliers/ NGO	Shops of improved seeds	Other sources	Total
Nyarugenge	36.0	32.0	32.0	-	100.0
Gasabo	21.1	10.5	63.2	5.3	100.0
Kicukiro	30.8	7.7	61.5	-	100.0
Nyanza	51.2	39.5	9.3	-	100.0
Gisagara	9.1	40.3	18.2	32.5	100.0
Nyaruguru	9.1	27.3	27.3	36.4	100.0
Huye	16.7	33.3	16.7	33.3	100.0
Nyamagabe	30.8	7.7	46.2	15.4	100.0
Ruhango	27.3	40.9	22.7	9.1	100.0
Muhanga	36.4	-	63.6	-	100.0
Kamonyi	4.0	56.0	36.0	4.0	100.0
Karongi	27.3	22.7	31.8	18.2	100.0
Rutsiro	43.2	21.6	29.7	5.4	100.0
Rubavu	22.2	11.1	66.7	-	100.0
Nyabihu	29.4	11.8	58.8	-	100.0
Ngororero	31.3	-	62.5	6.3	100.0
Rusizi	29.4	11.8	52.9	5.9	100.0
Nyamasheke	39.1	21.7	21.7	17.4	100.0
Rulindo	8.3	8.3	83.3	-	100.0
Gakenke	45.0	-	50.0	5.0	100.0
Musanze	57.1	14.3	14.3	14.3	100.0
Burera	57.1	7.1	35.7	-	100.0
Gicumbi	19.4	-	66.7	13.9	100.0
Rwamagana	11.9	10.5	35.8	41.8	100.0
Nyagatare	23.6	13.2	35.9	27.4	100.0
Gatsibo	23.5	29.6	32.7	14.3	100.0
Kayonza	35.3	19.6	15.7	29.4	100.0
Kirehe	40.6	6.3	6.3	46.9	100.0
Ngoma	42.1	21.1	26.3	10.5	100.0
Bugesera	40.6	26.6	14.8	18.0	100.0
Overall	28.5	21.1	32.9	17.6	100.0

2017 Seasonal Agricultural Survey - Season B

Table 24: Source of improved seeds by crop (Percentage) in segments

Crop	RAB/ NAEB/SECTOR	Recognized seed multipliers/ NGO	Shops of improved seeds	Other sources	Total
Maize	38.1	21.3	33.8	6.8	100.0
Paddy rice	7.9	25.2	9.4	57.5	100.0
Sorghum	-	-	100.0	-	100.0
Wheat	66.7	-	33.3	-	100.0
Bush bean	36.4	24.2	33.3	6.1	100.0
Climbing bean	20.0	20.0	40.0	20.0	100.0
Pea	-	33.3	66.7	-	100.0
Irish potato	11.1	66.7	22.2	-	100.0
Sweet potato	33.3	33.3	-	33.3	100.0
Soybean	50.0	-	50.0	-	100.0
Cassava	25.0	50.0	25.0	-	100.0
Cooking banana	60.0	40.0	-	-	100.0
Dessert banana	22.2	55.6	-	22.2	100.0
Banana for beer	-	100.0	-	-	100.0
Vegetables	5.3	6.0	82.8	6.0	100.0
Other crops	55.1	24.7	5.6	14.6	100.0
Overall	28.5	21.1	32.9	17.6	100.0

2017 Seasonal Agricultural Survey - Season B

Table 25: Source of improved seeds by crop (Percentage) for Large Scale Farmers

crop	RAB /NAEB/SECTOR	Recognized seed multipliers/ NGO	Shops of improved seeds	Other sources	Total
Maize	74.5	8.5	16.0	1.1	100.0
Paddy rice	12.8	83.0	2.1	2.1	100.0
Wheat	100.0	-	-	-	100.0
Bush bean	41.9	12.2	39.2	6.8	100.0
Climbing bean	-	-	100.0	-	100.0
Irish potato	6.7	80.0	13.3	-	100.0
Sweet potato	-	100.0	-	-	100.0
Soybean	64.7	11.8	23.5	-	100.0
Cassava	66.7	33.3	-	-	100.0
Cooking banana	92.3	7.7	-	-	100.0
Dessert banana	71.4	14.3	14.3	-	100.0
Banana for beer	62.5	37.5	-	-	100.0
Vegetables	5.2	3.5	87.9	3.5	100.0
Other crops	48.8	6.1	17.1	28.1	100.0
Other cereals	100.0	-	-	-	100.0
Overall	40.3	17.9	34.8	7.0	100.0

2017 Seasonal Agricultural Survey-Season B

Table 26: Percentage of plots with organic fertilizers use per stratum

Stratum	Used	Not used	Total
Intensive cropland on hillsides	36.0	64.0	100
Intensive cropland in marshlands	35.4	64.6	100
Rangelands	11.7	88.3	100
Total	34.7	65.3	100
LSF	32.7	67.3	100

2017 Seasonal Agricultural Survey - Season B

Table 27: Percentage of plots with organic fertilizer use per district

District	Used	Not used	Total
Nyarugenge	35.8	64.2	100.0
Gasabo	28.0	72.0	100.0
Kicukiro	30.6	69.4	100.0
Nyanza	27.2	72.8	100.0
Gisagara	29.3	70.7	100.0
Nyaruguru	62.7	37.3	100.0
Huye	33.4	66.6	100.0
Nyamagabe	58.7	41.3	100.0
Ruhango	40.4	59.6	100.0
Muhanga	50.9	49.1	100.0
Kamonyi	49.3	50.7	100.0
Karongi	47.8	52.2	100.0
Rutsiro	46.4	53.6	100.0
Rubavu	20.2	79.9	100.0
Nyabihu	60.8	39.2	100.0
Ngororero	53.7	46.3	100.0
Rusizi	16.8	83.2	100.0
Nyamasheke	48.8	51.2	100.0
Rulindo	68.8	31.2	100.0
Gakenke	69.4	30.6	100.0
Musanze	51.6	48.4	100.0
Burera	50.3	49.7	100.0
Gicumbi	64.4	35.6	100.0
Rwamagana	21.7	78.3	100.0
Nyagatare	12.8	87.3	100.0
Gatsibo	24.6	75.4	100.0
Kayonza	17.7	82.3	100.0
Kirehe	15.6	84.4	100.0
Ngoma	19.7	80.3	100.0
Bugesera	17.1	82.9	100.0
Total	34.7	65.3	100.0

2017 Seasonal Agricultural Survey - Season B

Table 28: Percentage of plots with inorganic fertilizer use per stratum

Stratum	Used	Not used	Total
Intensive cropland on hillsides	12.1	87.9	100.0
Intensive cropland in marshland	36.2	63.8	100.0
Rangelands	4.7	95.3	100.0
Overall	15.1	84.9	100.0
LSF	32.5	67.5	100.0

2017 Seasonal Agricultural Survey - Season B

Table 29: Table Percentage of plots with inorganic fertilizer use per district

District	Used	Not used	Total
Nyarugenge	4.9	95.1	100.0
Gasabo	6.2	93.9	100.0
Kicukiro	8.9	91.1	100.0
Nyanza	9.5	90.5	100.0
Gisagara	19.6	80.4	100.0
Nyaruguru	29.3	70.7	100.0
Huye	17.0	83.0	100.0
Nyamagabe	20.8	79.2	100.0
Ruhango	9.3	90.7	100.0
Muhanga	2.1	97.9	100.0
Kamonyi	3.6	96.4	100.0
Karongi	16.4	83.6	100.0
Rutsiro	30.8	69.2	100.0
Rubavu	42.6	57.4	100.0
Nyabihu	51.3	48.7	100.0
Ngororero	8.3	91.7	100.0
Rusizi	17.8	82.2	100.0
Nyamasheke	35.8	64.2	100.0
Rulindo	12.0	88.0	100.0
Gakenke	22.5	77.5	100.0
Musanze	29.9	70.1	100.0
Burera	18.6	81.4	100.0
Gicumbi	9.5	90.5	100.0
Rwamagana	17.3	82.7	100.0
Nyagatare	12.4	87.7	100.0
Gatsibo	8.1	91.9	100.0
Kayonza	6.7	93.3	100.0
Kirehe	7.2	92.8	100.0
Ngoma	6.5	93.5	100.0
Bugesera	14.9	85.1	100.0
Total	15.1	84.9	100.0

2017 Seasonal Agricultural Survey - Season B

Table 30: Types of inorganic fertilizers use per stratum (in percentage)

	NPK 17-17	NPK 20-10	NPK 25-5	Urea	Liquid urea	DAP	TSP	KCL/MOP	Other Fertilizers	Total
Intensive cropland on hillsides	37.2	2.7	0.8	24.5	0.5	33.4	-	0.1	0.9	100.0
Intensive cropland in marshlands	41.0	0.5	0.2	44.2	0.6	11.3	-	2.1	0.1	100.0
Rangelands	50.0	15.6	-	15.6	-	6.3	-	-	12.5	100.0
Overall	38.9	2.0	0.5	32.3	0.5	24.2	-	0.9	0.7	100.0
LSF	29.0	0.9	-	35.1	0.2	24.2	-	0.4	10.2	100.0

2017 Seasonal Agricultural Survey - Season B

Table 31: Types of inorganic fertilizers use per district (in percentage)

District	NPK 17-17	NPK 20-10	NPK 25-5	Urea	Liquid urea	DAP	KCL/MOP	Other Fertilizers	Total
Nyarugenge	15.0	-	-	65.0	-	20.0	-	-	100.0
Gasabo	19.2	-	-	42.3	-	38.5	-	-	100.0
Kicukiro	24.1	-	-	48.3	-	27.6	-	-	100.0
Nyanza	28.9	8.9	11.1	26.7	-	24.4	-	-	100.0
Gisagara	42.4	0.5	-	52.6	-	4.6	-	-	100.0
Nyaruguru	24.2	1.1	1.1	18.7	-	53.9	-	1.1	100.0
Huye	50.0	-	-	46.7	-	3.3	-	-	100.0
Nyamagabe	22.5	-	-	30.0	-	47.5	-	-	100.0
Ruhango	38.5	3.9	5.8	46.2	1.9	3.9	-	-	100.0
Muhanga	-	12.5	-	50.0	-	37.5	-	-	100.0
Kamonyi	23.1	-	-	76.9	-	-	-	-	100.0
Karongi	7.7	-	-	19.2	-	73.1	-	-	100.0
Rutsiro	21.4	10.7	-	38.2	-	29.8	-	-	100.0
Rubavu	79.1	-	-	11.9	3.7	5.2	-	-	100.0
Nyabihu	81.1	0.6	-	6.1	0.6	11.7	-	-	100.0
Ngororero	53.6	-	-	14.3	-	32.1	-	-	100.0
Rusizi	51.3	4.2	-	35.3	-	9.2	-	-	100.0
Nyamasheke	35.2	0.6	-	31.8	-	32.4	-	-	100.0
Rulindo	42.9	2.0	-	20.4	-	34.7	-	-	100.0
Gakenke	11.1	-	-	16.7	-	72.2	-	-	100.0
Musanze	59.5	-	-	16.4	-	22.4	-	1.7	100.0
Burera	73.1	-	-	9.0	-	17.9	-	-	100.0
Gicumbi	39.5	2.3	2.3	34.9	-	20.9	-	-	100.0
Rwamagana	27.2	5.2	-	39.0	0.7	25.0	-	2.9	100.0
Nyagatare	25.9	-	-	49.6	1.8	22.3	-	0.5	100.0
Gatsibo	17.2	5.1	-	40.4	-	35.4	-	2.0	100.0
Kayonza	28.1	3.1	3.1	31.3	-	34.4	-	-	100.0
Kirehe	14.3	5.4	1.8	29.5	-	24.1	20.5	4.5	100.0
Ngoma	24.0	-	-	32.0	4.0	24.0	-	16.0	100.0
Bugesera	47.9	-	-	42.9	-	9.2	-	-	100.0
Total	38.9	2.0	0.5	32.3	0.5	24.2	0.9	0.7	100.0

2017 Seasonal Agricultural Survey - Season B

Table 32: Percentage of plots with pesticides use per stratum

Stratum	Used	Not used	Total
Intensive cropland on hillsides	10.0	90.0	100.0
Intensive cropland in marshlands	23.9	76.1	100.0
Rangelands	5.1	94.9	100.0
Overall	11.7	88.3	100.0
LSF	31.8	68.2	100.0

2017 Seasonal Agricultural Survey - Season B

Table 33: Percentage of plots with pesticides use per district

District	Used	Not used	Total
Nyarugenge	9.1	90.9	100.0
Gasabo	4.6	95.4	100.0
Kicukiro	7.2	92.8	100.0
Nyanza	3.9	96.2	100.0
Gisagara	16.3	83.7	100.0
Nyaruguru	8.8	91.3	100.0
Huye	1.0	99.1	100.0
Nyamagabe	10.7	89.3	100.0
Ruhango	3.4	96.6	100.0
Muhanga	1.8	98.2	100.0
Kamonyi	2.5	97.5	100.0
Karongi	6.6	93.4	100.0
Rutsiro	22.4	77.6	100.0
Rubavu	48.3	51.7	100.0
Nyabihu	59.3	40.7	100.0
Ngororero	5.4	94.6	100.0
Rusizi	7.3	92.7	100.0
Nyamasheke	12.8	87.3	100.0
Rulindo	7.5	92.6	100.0
Gakenke	13.5	86.5	100.0
Musanze	47.2	52.8	100.0
Burera	17.4	82.6	100.0
Gicumbi	9.2	90.8	100.0
Rwamagana	8.5	91.6	100.0
Nyagatare	11.4	88.7	100.0
Gatsibo	5.2	94.8	100.0
Kayonza	5.6	94.4	100.0
Kirehe	6.8	93.2	100.0
Ngoma	3.7	96.3	100.0
Bugesera	17.5	82.6	100.0
Total	11.7	88.3	100.0

2017 Seasonal Agricultural Survey - Season B

Table 34: Type of pesticides used by stratum (in percentage)

Stratum	Dithane	Ridomil	Dimethoate	Cypermethrine	Dursiban	Pilkare	Rocket	Other Pesticides	Total
Intensive cropland on hillsides	32.7	13.5	4.2	31.8	0.4	0.1	10.8	6.7	100.0
Intensive cropland in marshlands	7.9	1.5	4.0	48.7	0.3	-	7.2	30.4	100.0
Rangelands	24.4	8.9	17.8	11.1	-	-	28.9	8.9	100.0
Overall	25.6	10.0	4.4	36.1	0.4	0.0	10.1	13.3	100.0
LSF	9.2	3.8	1.1	26.0	-	-	19.1	40.9	100.0

2017 Seasonal Agricultural Survey - Season B

Table 35: Type of pesticides used by District (in percentage)

District	Dithane	Ridomil	Dimethoate	Cypermethrine	Dursiban	Pilkare	Rocket	Other Pesticides	Total
Nyarugenge	31.9	-	-	29.8	-	-	27.7	10.6	100.0
Gasabo	5.6	-	-	50.0	-	-	27.8	16.7	100.0
Kicukiro	20.8	-	-	8.3	-	-	37.5	33.3	100.0
Nyanza	7.7	-	-	23.1	-	-	38.5	30.8	100.0
Gisagara	14.4	-	0.9	58.5	-	-	11.0	15.3	100.0
Nyaruguru	69.6	-	-	30.4	-	-	-	-	100.0
Huye	33.3	-	-	-	-	-	33.3	33.3	100.0
Nyamagabe	42.9	2.0	-	51.0	-	-	2.0	2.0	100.0
Ruhango	6.7	6.7	-	53.3	-	-	26.7	6.7	100.0
Muhanga	-	-	-	83.3	-	-	16.7	-	100.0
Kamonyi	50.0	7.1	7.1	28.6	-	-	7.1	-	100.0
Karongi	26.3	5.3	-	63.2	-	-	5.3	-	100.0
Rutsiro	36.1	6.2	8.3	41.2	-	-	3.1	5.2	100.0
Rubavu	37.2	23.9	9.3	28.9	-	-	0.7	-	100.0
Nyabihu	35.9	24.8	-	35.9	-	-	2.4	1.0	100.0
Ngororero	33.3	-	-	33.3	-	-	33.3	-	100.0
Rusizi	6.9	-	17.2	15.5	-	-	24.1	36.2	100.0
Nyamasheke	14.3	3.2	1.6	46.0	3.2	-	-	31.8	100.0
Rulindo	35.1	10.8	-	35.1	-	-	16.2	2.7	100.0
Gakenke	6.1	2.0	4.1	77.6	2.0	-	4.1	4.1	100.0
Musanze	42.3	15.0	16.8	23.6	-	-	-	2.3	100.0
Burera	52.0	15.7	-	31.4	-	-	-	1.0	100.0
Gicumbi	31.0	9.5	-	16.7	-	2.4	28.6	11.9	100.0
Rwamagana	19.0	1.7	-	39.7	-	-	20.7	19.0	100.0
Nyagatare	6.3	2.6	3.7	33.2	2.6	-	16.3	35.3	100.0
Gatsibo	6.7	1.7	-	31.7	-	-	36.7	23.3	100.0
Kayonza	-	-	-	59.5	-	-	35.7	4.8	100.0
Kirehe	1.4	-	4.2	50.0	-	-	12.5	31.9	100.0
Ngoma	15.8	-	-	36.8	-	-	5.3	42.1	100.0
Bugesera	0.7	-	-	35.3	-	-	19.6	44.4	100.0
Total	25.6	10.0	4.4	36.1	0.4	0.0	10.1	13.3	100.0

2017 Seasonal Agricultural Survey - Season B

Table 36: Use of Irrigation per stratum (Percentage)

Stratum	Used	Not used	Total
Intensive cropland on hillsides	1.0	99.0	100.0
Intensive cropland in marshlands	27.5	72.5	100.0
Rangelands	-	100.0	100.0
Overall	4.6	95.4	100.0
LSF	20.7	79.3	100.0

2017 Seasonal Agricultural Survey - Season B

Table 37: Use of irrigation per district (Percentage)

District	Used	Not used	Total
Nyarugenge	2.5	97.5	100.0
Gasabo	0.6	99.4	100.0
Kicukiro	4.7	95.3	100.0
Nyanza	4.4	95.6	100.0
Gisagara	8.2	91.9	100.0
Nyaruguru	1.9	98.1	100.0
Huye	16.4	83.6	100.0
Nyamagabe	0.7	99.3	100.0
Ruhango	5.7	94.4	100.0
Muhanga	1.8	98.2	100.0
Kamonyi	0.8	99.2	100.0
Karongi	1.5	98.5	100.0
Rutsiro	0.3	99.7	100.0
Rubavu	-	100.0	100.0
Nyabihu	-	100.0	100.0
Ngororero	0.6	99.4	100.0
Rusizi	14.8	85.2	100.0
Nyamasheke	12.7	87.3	100.0
Rulindo	6.9	93.1	100.0
Gakenke	1.5	98.5	100.0
Musanze	0.3	99.7	100.0
Burera	-	100.0	100.0
Gicumbi	1.4	98.6	100.0
Rwamagana	7.4	92.6	100.0
Nyagatare	7.2	92.8	100.0
Gatsibo	2.8	97.3	100.0
Kayonza	2.7	97.4	100.0
Kirehe	5.1	94.9	100.0
Ngoma	1.4	98.6	100.0
Bugesera	10.2	89.8	100.0
Overall	4.6	95.4	100.0

2017 Seasonal Agricultural Survey - Season B

Table 38: Types of irrigation used by stratum (in percentage)

Stratum	Surface irrigation	Drip irrigation	Sprinkler irrigation	Traditional irrigation	Total
Intensive cropland on hillsides	45.3	-	5.3	49.5	100.0
Intensive cropland in marshlands	86.5	-	-	13.5	100.0
Rangelands	-	-	-	-	-
Overall	79.6	-	0.9	19.5	100.0
LSF	82.5	4.7	1.4	11.4	100.0

2017 Seasonal Agricultural Survey - Season B

Table 39: Types of irrigation used by district (in percentage)

District	Surface irrigation	Drip irrigation	Sprinkler irrigation	Traditional irrigation	Total
Nyarugenge	14.3	-	-	85.7	100.0
Gasabo	-	-	-	100.0	100.0
Kicukiro	72.7	-	-	27.3	100.0
Nyanza	46.7	-	-	53.3	100.0
Gisagara	91.5	-	-	8.5	100.0
Nyaruguru	-	-	-	100.0	100.0
Huye	96.2	-	-	3.9	100.0
Nyamagabe	-	-	-	100.0	100.0
Ruhango	95.0	-	-	5.0	100.0
Muhanga	16.7	-	-	83.3	100.0
Kamonyi	100.0	-	-	-	100.0
Karongi	50.0	-	-	50.0	100.0
Rutsiro	-	-	-	100.0	100.0
Ngororero	50.0	-	-	50.0	100.0
Rusizi	84.8	-	-	15.3	100.0
Nyamasheke	86.4	-	-	13.6	100.0
Rulindo	16.7	-	-	83.3	100.0
Gakenke	-	-	-	100.0	100.0
Musanze	100.0	-	-	-	100.0
Gicumbi	-	-	-	100.0	100.0
Rwamagana	83.8	-	2.7	13.5	100.0
Nyagatare	87.5	-	5.6	6.9	100.0
Gatsibo	52.4	-	-	47.6	100.0
Kayonza	94.7	-	-	5.3	100.0
Kirehe	97.4	-	-	2.6	100.0
Ngoma	100.0	-	-	-	100.0
Bugesera	98.2	-	-	1.8	100.0
Overall	79.6	-	0.9	19.5	100.0

2017 Seasonal Agricultural Survey - Season B

Table 40: Types of irrigation used by crop type (in percentage) in segments

Crop	Surface irrigation	Drip irrigation	Sprinkler irrigation	Traditional irrigation	Total
Maize	66.7	-	-	33.3	100.0
Paddy rice	99.8	-	-	0.3	100.0
Bush bean	40.0	-	60.0	-	100.0
Climbing bean	-	-	-	100.0	100.0
Irish potato	25.0	-	-	75.0	100.0
Sweet potato	41.2	-	5.9	52.9	100.0
Soybean	-	-	50.0	50.0	100.0
Taro	50.0	-	-	50.0	100.0
Cooking banana	100.0	-	-	-	100.0
Dessert banana	-	-	-	100.0	100.0
Banana for beer	-	-	-	100.0	100.0
Fruits	-	-	-	100.0	100.0
Vegetables	26.6	-	-	73.4	100.0
Overall	79.6	-	0.9	19.5	100.0

2017 Seasonal Agricultural Survey - Season B

Table: 41: Types of irrigation used by crop type (in percentage) for Large Scale Farmers

Crop name	Surface irrigation	Drip irrigation	Sprinkler irrigation	Traditional irrigation	Total
Maize	100.0	-	-	-	100.0
Paddy rice	98.7	-	-	1.4	100.0
Wheat	100.0	-	-	-	100.0
Bush bean	100.0	-	-	-	100.0
Soybean	100.0	-	-	-	100.0
Cassava	100.0	-	-	-	100.0
Cooking banana	100.0	-	-	-	100.0
Banana for beer	100.0	-	-	-	100.0
Fruits	54.6	45.5	-	-	100.0
vegetables	58.1	6.8	4.1	31.1	100.0
Other crops	100.0	-	-	-	100.0
Overall	82.5	4.7	1.4	11.4	100.0

2017 Seasonal Agricultural Survey - Season B

Table 42: Source of used water for irrigation per stratum (in percentage)

Stratum	Rainfall	Rain- harvesting water	WASAC water	Underground water	Lake water	Stream water	Recycled water	Other source	Total
Intensive cropland on hillsides	1.1	6.3	4.2	22.1	6.3	56.8	1.1	2.1	100.0
Intensive cropland in marshlands	0.9	1.5	-	28.0	4.7	58.6	0.4	6.0	100.0
Rangelands	-	-	-	-	-	-	-	-	-
Overall	0.9	2.3	0.7	27.0	5.0	58.3	0.5	5.3	100.0
LSF	4.3	2.8	-	17.1	22.8	51.2	-	1.9	100.0

2017 Seasonal Agricultural Survey - Season B

Table 43: Source of used water for irrigation per district (in percentage)

District	Rainfall	Rain-harvesting water	WASAC water	Underground water	Lake water	Stream water	Recycled water	Other source	Total
Nyarugenge	-	14.3	14.3	-	-	57.1	-	14.3	100.0
Gasabo	-	50.0	-	-	-	50.0	-	-	100.0
Kicukiro	-	18.2	-	-	-	81.8	-	-	100.0
Nyanza	-	-	-	100.0	-	-	-	-	100.0
Gisagara	-	2.1	-	63.8	-	34.0	-	-	100.0
Nyaruguru	-	-	-	40.0	-	20.0	40.0	-	100.0
Huye	5.8	-	-	48.1	-	44.2	-	1.9	100.0
Nyamagabe	-	-	-	-	-	100.0	-	-	100.0
Ruhango	5.0	-	-	45.0	-	50.0	-	-	100.0
Muhanga	-	-	33.3	16.7	-	50.0	-	-	100.0
Kamonyi	-	-	-	100.0	-	-	-	-	100.0
Karongi	-	-	-	-	-	100.0	-	-	100.0
Rutsiro	-	-	-	-	-	100.0	-	-	100.0
Ngororero	-	-	-	-	-	50.0	-	50.0	100.0
Rusizi	-	-	-	5.1	3.4	91.5	-	-	100.0
Nyamasheke	-	-	-	29.6	6.8	63.6	-	-	100.0
Rulindo	-	-	4.2	66.7	-	29.2	-	-	100.0
Gakenke	-	-	-	40.0	-	60.0	-	-	100.0
Musanze	-	-	-	100.0	-	-	-	-	100.0
Gicumbi	-	-	-	60.0	-	40.0	-	-	100.0
Rwamagana	-	2.7	-	37.8	-	59.5	-	-	100.0
Nyagatare	-	-	-	-	-	95.8	-	4.2	100.0
Gatsibo	-	-	-	-	9.5	85.7	4.8	-	100.0
Kayonza	-	-	-	5.3	5.3	10.5	-	79.0	100.0
Kirehe	-	2.6	-	30.8	-	66.7	-	-	100.0
Ngoma	-	-	-	-	-	100.0	-	-	100.0
Bugesera	1.8	10.7	-	3.6	35.7	32.1	-	16.1	100.0
Overall	0.9	2.3	0.7	27.0	5.0	58.3	0.5	5.3	100.0

2017 Seasonal Agricultural Survey - Season B

Table 44: Percentage of plot with Anti-erosion activities use per stratum

Stratum	Used	Not used	Total
Intensive cropland on hillsides	64.9	35.1	100.0
Intensive cropland in marshlands	76.3	23.7	100.0
Rangelands	21.6	78.4	100.0
Overall	64.4	35.6	100.0
LSF	56.6	43.4	100.0

2017 Seasonal Agricultural Survey - Season B

Table 45: Percentage of plot with Anti-erosion activities use per District

District	Used	Not used	Total
Nyarugenge	77.5	22.5	100.0
Gasabo	65.5	34.5	100.0
Kicukiro	39.6	60.4	100.0
Nyanza	60.7	39.4	100.0
Gisagara	70.0	30.0	100.0
Nyaruguru	88.6	11.4	100.0
Huye	61.8	38.2	100.0
Nyamagabe	88.6	11.4	100.0
Ruhango	84.8	15.3	100.0
Muhanga	74.9	25.2	100.0
Kamonyi	82.7	17.3	100.0
Karongi	93.1	6.9	100.0
Rutsiro	63.3	36.7	100.0
Rubavu	86.7	13.3	100.0
Nyabihu	66.9	33.1	100.0
Ngororero	56.9	43.1	100.0
Rusizi	53.1	46.9	100.0
Nyamasheke	70.5	29.5	100.0
Rulindo	77.1	22.9	100.0
Gakenke	87.4	12.6	100.0
Musanze	84.0	16.0	100.0
Burera	68.3	31.7	100.0
Gicumbi	90.0	10.1	100.0
Rwamagana	67.4	32.6	100.0
Nyagatare	43.5	56.5	100.0
Gatsibo	58.4	41.6	100.0
Kayonza	43.1	56.9	100.0
Kirehe	31.1	68.9	100.0
Ngoma	69.4	30.6	100.0
Bugesera	54.0	46.0	100.0
Overall	64.4	35.6	100.0

2017 Seasonal Agricultural Survey - Season B

Table 46: Type of anti-erosion activities by stratum (Percentages)

Stratum	Ditches	Trees / Wind break/Shelterbelt	Bench terraces	Progressive terraces	Cover plants/glasses	Water drainage	Mulching	Beds/ridges	Others	Total
Intensive cropland on hillsides	11.6	2.5	4.5	11.0	57.4	0.8	4.5	6.9	0.8	100.0
Intensive cropland in marshlands	4.3	0.5	0.3	0.6	18.6	48.1	1.2	25.4	1.0	100.0
Rangelands	40.7	6.7	3.7	4.4	34.1	0.7	8.2	1.5	-	100.0
Overall	11.0	2.3	3.9	9.3	51.3	7.9	4.1	9.6	0.8	100.0
LSF	22.4	8.4	6.4	0.5	23.1	24.4	6.7	3.0	5.0	100.0

2017 Seasonal Agricultural Survey - Season B

Table 47: Types of anti-erosion activities by district (Percentages)

District	Ditches	Trees / Wind break/Shelterbelt	Bench terraces	Progressive terraces	Cover plants/glasses	Water drainage	Mulching	Beds/ridges	Others	Total
Nyarugenge	1.2	3.9	-	6.3	73.6	0.4	11.0	3.5	-	100.0
Gasabo	9.3	2.1	-	0.4	80.6	0.4	0.4	6.8	-	100.0
Kicukiro	26.8	0.8	3.9	18.9	36.2	1.6	7.1	4.7	-	100.0
Nyanza	3.3	0.9	2.3	-	63.3	3.7	0.5	26.1	-	100.0
Gisagara	34.4	0.4	2.8	3.5	24.8	20.3	1.5	12.2	-	100.0
Nyaruguru	5.7	1.7	4.0	18.6	39.2	14.6	0.3	1.3	14.6	100.0
Huye	4.9	3.4	-	1.0	56.6	24.4	2.0	7.8	-	100.0
Nyamagabe	3.4	0.9	8.1	3.8	65.0	10.3	1.9	6.6	-	100.0
Ruhango	31.6	0.6	-	2.0	45.5	8.8	2.3	9.3	-	100.0
Muhanga	7.0	0.6	3.8	11.1	69.0	3.2	4.1	1.3	-	100.0
Kamonyi	9.6	0.5	-	22.8	59.7	5.5	1.6	0.5	-	100.0
Karongi	1.3	2.6	2.6	33.8	42.7	2.6	0.6	11.2	2.9	100.0
Rutsiro	1.4	1.8	8.3	11.9	53.2	7.3	10.1	6.0	-	100.0
Rubavu	1.1	13.5	-	13.9	15.3	-	0.7	55.5	-	100.0
Nyabihu	1.3	1.3	16.2	5.6	49.6	-	0.9	24.8	0.4	100.0
Ngororero	15.0	-	2.3	19.9	55.8	1.1	2.3	2.6	1.1	100.0
Rusizi	7.8	14.3	-	0.5	35.5	32.3	5.1	4.2	0.5	100.0
Nyamasheke	12.6	3.6	7.4	3.6	44.5	13.9	12.6	0.7	1.3	100.0
Rulindo	6.2	-	4.9	6.8	69.1	10.1	2.3	0.3	0.3	100.0
Gakenke	1.4	2.8	5.1	3.1	74.9	3.4	2.8	5.7	0.9	100.0
Musanze	2.1	2.8	4.6	0.4	22.7	-	-	66.8	0.7	100.0
Burera	2.1	2.4	10.7	6.9	45.0	1.0	-	32.0	-	100.0
Gicumbi	1.1	0.7	10.6	14.4	66.0	5.2	2.0	-	-	100.0
Rwamagana	1.3	1.5	8.2	4.1	65.5	8.4	9.0	2.1	-	100.0
Nyagatare	21.0	1.1	1.5	13.4	49.1	8.5	4.2	0.3	0.8	100.0
Gatsibo	15.5	5.7	0.6	0.4	54.8	3.6	5.5	13.9	-	100.0
Kayonza	23.1	1.4	10.1	1.2	37.8	10.7	13.0	2.9	-	100.0
Kirehe	27.2	-	-	3.0	39.9	15.7	13.4	0.8	-	100.0
Ngoma	9.5	-	-	1.8	77.8	2.3	7.7	0.9	-	100.0
Bugesera	16.7	0.5	-	36.0	30.9	14.3	1.1	0.3	0.3	100.0
Overall	11.0	2.3	3.9	9.3	51.3	7.9	4.1	9.6	0.8	100.0

2017 Seasonal Agricultural Survey - Season B

Table 48: Degree of erosion per stratum (Percentage)

Stratum	Severe (Rill erosion, Gully erosion, Mass movement/landslides)	Moderate (Diffuse overland flow erosion, Overland flow erosion, erosion by infiltration)	Low (Splash erosion)	Total
Intensive cropland on hillsides	1.1	8.1	90.9	100.0
Intensive cropland in marshlands	0.2	3.8	96.1	100.0
Rangelands	2.9	11.5	85.6	100.0
Overall	1.0	7.6	91.3	100.0
LSF	1.9	3.1	95.0	100.0

2017 Seasonal Agricultural Survey - Season B

Table 49: Degree of erosion per district (Percentage)

District	Severe	Moderate	Low	Total
Nyarugenge	-	0.4	99.7	100.0
Gasabo	-	1.5	98.5	100.0
Kicukiro	-	3.0	97.0	100.0
Nyanza	0.3	5.0	94.7	100.0
Gisagara	-	3.5	96.5	100.0
Nyaruguru	0.4	14.1	85.6	100.0
Huye	-	1.0	99.1	100.0
Nyamagabe	0.3	3.0	96.6	100.0
Ruhango	-	8.2	91.8	100.0
Muhanga	0.3	13.9	85.8	100.0
Kamonyi	1.4	3.1	95.5	100.0
Karongi	0.4	9.1	90.5	100.0
Rutsiro	1.6	35.1	63.3	100.0
Rubavu	0.4	5.3	94.3	100.0
Nyabihu	-	4.6	95.4	100.0
Ngororero	-	5.1	94.9	100.0
Rusizi	9.8	25.1	65.2	100.0
Nyamasheke	0.6	3.5	96.0	100.0
Rulindo	1.2	15.8	83.1	100.0
Gakenke	0.3	8.1	91.6	100.0
Musanze	0.3	13.2	86.5	100.0
Burera	7.0	10.8	82.3	100.0
Gicumbi	0.3	4.4	95.4	100.0
Rwamagana	0.2	1.0	98.8	100.0
Nyagatare	1.1	17.3	81.6	100.0
Gatsibo	-	1.3	98.7	100.0
Kayonza	0.6	4.9	94.6	100.0
Kirehe	2.9	3.5	93.6	100.0
Ngoma	0.3	3.4	96.3	100.0
Bugesera	-	2.7	97.3	100.0
Overall	1.0	7.6	91.3	100.0

2017 Seasonal Agricultural Survey - Season B