REPUBLIC OF RWANDA



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

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Seasonal Agricultural Survey (SAS)-2015 Season B

I. Introduction

In 2015, the National Institute of Statistics of Rwanda (NISR) conducted Seasonal Agricultural Surveys (SAS) covering season B that starts in March 2015 and ends with June 2015. This is a summary of key results and related tables about land use, crop land, agricultural inputs, agricultural practices and production. An annual comprehensive SAS Survey report will be published after covering all three agricultural seasons.

The sample is composed of two categories of respondents: Agricultural Operators¹ and Large Scale Farmers (LSF)².The sampling method used was a dual frame sampling design combining selected area frame sample³ segments and a list of Large Scale Farmers.Coverage of 540 segments was spread throughout the country with 24,911 agricultural operators in Season B phase 1 from which 5,337 agricultural operators were selected during Second Phase. Furthermore, enumerated Large Scale Farmers in screening phase were 558 in 2015 Season B, of which 194 Large Scale Farmers were selected during Second Phase.

II. Agricultural land

Using satellite imagery, the whole country was stratified into homogeneous strata according to crop intensity and other land-use characteristics as follows:

Agricultural operators: These are Small Scale Farmers within the Segments

² Large Scale Farmer: The person, institution or agricultural or livestock cooperatives, that satisfies the unit measurements defined by survey rules e.g. farmer growing crops on ten hectare of land or more or any farmer raising 70 or more cattle, 350 goats and sheep, 140 pigs, 1,500 chicken or managing 50 bee hives.

Area frame sampling: A method in which an area to be sampled is sub-divided into smaller blocks that are then selected at random and then again sub-sampled or fully surveyed. This method is typically used when a complete frame of reference is not available to be used.

| Stratum | Description | Total (Hectares) | Percent |
|------------|-----------------------------------------------------------------------------|------------------|---------|
| 1.1 | Intensive agriculture land (Season A and B) | 1,479,081.4 | 81.9 |
| 1.2 | Intensive agriculture land (Season A and B, with potential for Season C) | 48,388.2 | 2.7 |
| 2.1 | Other marshlands | 95,820.7 | 5.3 |
| 2.2 | Marshlands potential for rice | 20,200.9 | 1.1 |
| 3.0 | Rangeland | 133,848.5 | 7.4 |
| 10.0 | Tea plantation | 28,763.1 | 1.6 |
| Total agri | culture land | 1,806,102.9 | 100.0 |

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III. Farm characteristics (Area and Production)

Crop Land

In 2015 Season B, the main crops were Cassava (22.8% of the total cultivated area), Banana (23.1% of the total cultivated area), Beans (16.6% of the total cultivated area), and Sorghum (8.8% of the total cultivated area); other crops took 28.7% of the total cultivated area. Fallow land represented 20.98% in season B of the total arable land of Rwanda.

Crop Production

In 2015 Season B, the share of crop production by groups of crops in Rwanda was highest for Tubers and Roots (41.1%) followed by Banana (27.0%) and Cereals (7.4%). Other crop groups contributed as follows: Legumes and Pulses (6.3%) and Vegetables and Fruits (4.4%).

IV. Agricultural Inputs

Use of seeds and fertilizers

In 2015 Season B, 88.4% of agricultural operators used traditional seeds whereas 11.6% used improved seed. For LSF, the use of traditional seeds and improved seeds were 60.2% and 39.8% respectively.

For agricultural operators, the use of organic fertilizers and inorganic fertilizers were 43.1% and 14.6% for 2015 season B, respectively. On the other hand, for LSF, the use of organic fertilizers and inorganic fertilizers were 42.3% and 51.5% for 2015 season B, respectively.

Use of pesticides

In 2015 Season B, the percentage of agriculture operators who used pesticides is 7.9%. Among the Large Scale farmers, the percentage of those who used pesticides was 32.9%.

V. Agricultural practices

Irrigation practices

In 2015 season B, 1.5% of agriculture operators practised irrigation while 28.4% of Large Scale Farmers practised irrigation.

Anti-erosion activities

In 2015 season B, 65.2 % of all agriculture operators practised anti-erosion activities.Likewise, Large Scale Farmers who practised anti-erosion activities was 53.1 %.

| | District | Sratum '1.1 | District | Sratum 1.2 | District | Sratum'2.1 | District | Sratum 2.2 | Distric | ct Sratum 3.0 |
|----|----------------------|----------------|------------------------|--------------|-----------|----------------|-----------------------|-----------------|----------|-----------------|
| 1 | Nyagatare | 7.9% | Nyabihu | 37.7% | Bugesera | 23.3% | Gisagara | 12.1% | Kayonza | a 37.0% |
| | Bugesera | 5.4% | Musanze | 31.5% | U U | 8.8% | Rusizi | 11.5% | | |
| | Kayonza | 5.2% | Rubavu | 21.8% | | 8.7% | Nyanza | 11.5% | | 22.0% |
| | Ngoma Gatsibo | 4.7% 4.6% | Rutsiro | 5.9% 3.1% | | 7.9% | Huye | 11.2% 11.0% | - | ro 3.3% 2.9% |
| | Kirehe | 4.6% | Ngororero Nyagatare | 0.0% | | 4.9% 4.9% | Bugesera Nyagatare | | | 2.9% |
| 7 | Gicumbi | 4.2% | Bugesera | 0.0% | Nyaruguru | 4.4% | Gatsibo | 6.7% | Nyabihu | 2.1% |
| 8 | Rw amagana | 4.1% | Kayonza | 0.0% | Kamonyi | 4.2% | Kayonza | 5.9% | Rubavu | 0.7% |
| | Karongi | 4.0% | Ngoma | 0.0% | | | Rw amagar | | _ | |
| | Nyamagabe Gakenke | 3.8% 3.8% | Gatsibo Kirehe | 0.0% 0.0% | - | 3.1% 3.1% | Ngoma Nyamashe | 4.5% ke 4.5% | | 0.0% 0.0% |
| | Kamonyi | 3.6% | Gicumbi | 0.0% | - | | - | 4.5% 2.6% | - | 0.0% |
| | | | | | Ű | a 3.1% 3.0% | Muhanga | | - | |
| | Nyanza | 3.6% | Rw amagan | | | | Ruhango | 2.2% | - | |
| | Ruhango | 3.5% | Karongi | 0.0% | | 2.7% | Gasabo | 1.7% | ŭ | - |
| | Muhanga | 3.4% | Nyamagabe | | | 2.0% | Kirehe | 0.9% | - | 0.0% |
| | Gisagara | 3.3% | Gakenke | 0.0% | | 1.7% | Gakenke | 0.4% | | |
| 17 | Ngororero | 3.3% | Kamonyi | 0.0% | Ngororero | 1.4% | Kamonyi | 0.3% | Muhanga | a 0.0% |
| 18 | Rutsiro | 3.2% | Nyanza | 0.0% | Rusizi | 1.2% | Ngororero | 0.3% | Ruhango | 0.0% |
| 19 | Nyamasheke | 3.2% | Ruhango | 0.0% | Muhanga | 1.2% | Nyamagab | e 0.2% | Gasabo | 0.0% |
| 20 | Nyaruguru | 3.2% | Muhanga | 0.0% | Karongi | 1.2% | Karongi | 0.1% | Gakenke | 0.0% |
| 21 | Burera | 3.0% | Gisagara | 0.0% | Burera | 1.1% | Rulindo | 0.1% | Kamonyi | 0.0% |
| 22 | Rulindo | 2.8% | Nyamashek | ie 0.0% | Nyamashel | ke 1.0% | Nyabihu | 0.0% | Nyamaga | abe 0.0% |
| 23 | Rusizi | 2.8% | Nyaruguru | 0.0% | Nyabihu | 0.9% | Musanze | 0.0% | Karongi | 0.0% |
| 24 | Huye | 2.7% | Burera | 0.0% | Musanze | 0.8% | Rubavu | 0.0% | Rulindo | 0.0% |
| 25 | Gasabo | 1.8% | Rulindo | 0.0% | Rutsiro | 0.8% | Rutsiro | 0.0% | Musanze | e 0.0% |
| 26 | Nyabihu | 1.3% | Rusizi | 0.0% | Kirehe | 0.5% | Nyaruguru | 0.0% | Nyarugu | ru 0.0% |
| 27 | Musanze | 1.2% | Huye | 0.0% | Kicukiro | 0.2% | Gicumbi | 0.0% | Gicumbi | 0.0% |
| 28 | Rubavu | 1.1% | Gasabo | 0.0% | Nyarugeng | e 0.2% | Burera | 0.0% | Burera | 0.0% |
| 29 | Kicukiro | 0.6% | Kicukiro | 0.0% | Ngoma | 0.1% | Kicukiro | 0.0% | Kicukiro | 0.0% |
| 30 | Nyarugenge | 0.5% | Nyarugenge | e 0.0% | Rubavu | 0.1% | Nyarugeng | ge 0.0% | Nyaruge | nge 0.0% |

Table 1. Share (%) of Area occupied by Strata within Districts by descending order

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| | | _ | Agricultural | Operators | | | LSF | All Rwanda | |
|-----------------------------------------|-----------------------|-----------------|-----------------|---------------|-----------------|---------------------|--------------|---------------------|--------------|
| Crops Strata | 1.1 | 1.2 | 2.1 | 2.2 | 3.0 | S/Total_1 | S/Total_2 | Total | Percent |
| Cereals | 176,177 | 5,248 | 12,455 | 9,235 | 9,007 | 212,121 | 2,925 | 215,046 | 15.6 |
| Maize | 59,854 | 3,948 | 3,967 | 711 | 2,677 | 71,156 | 996 | 72,152 | 5.2 |
| Sorghum | 106,905 | 56 | 6,378 | 603 | 6,310 | 120,252 | 327 | 120,580 | 8.8 |
| Paddy rice | 1,698 | - | 2,060 | 7,916 | - | 11,674 | 1,450 | 13,125 | 1.0 |
| Wheat | 6,020 | 1,244 | - | 4 | - | 7,267 | 99 | 7,366 | 0.5 |
| Other cereals | 1,701 | - | 49 | 0 | 20 | 1,771 | 52 | 1,823 | 0.1 |
| Tubers and Roots | 414,991 | 21,950 | 13,922 | 802 | 7,306 | 458,971 | 711 | 459,682 | 33.4 |
| Cassava | 300,262 | 46 | 6,041 | 292 | 6,702 | 313,342 | 434 | 313,777 | 22.8 |
| Sweet Potatoes | 63,739 | 695 | 4,242 | 325 | 194 | 69,195 | 74 | 69,269 | 5.0 |
| Irish Potatoes | 33,963 | 21,115 | 1,924 | 42 | 307 | 57,350 | 202 | 57,552 | 4.2 |
| Yams & Taro | 17,027 | 94 | 1,716 | 143 | 104 | 19,084 | 1 | 19,084 | 1.4 |
| Banana | 309,344 | 210 | 2,662 | 165 | 4,538 | 316,920 | 544 | 317,464 | 23.1 |
| Cooking Banana | 111,367 | 47 | 841 | 70 | 3,528 | 115,854 | 347 | 116,201 | 8.5 |
| Dessert banana | 38,878 | 3 | 387 | 13 | 275 | 39,555 | 135 | 39,690 | 2.9 |
| Banana for beer | 159,099 | 160 | 1,433 | 83 | 736 | 161,511 | 62 | 161,573 | 11.8 |
| Legumes & Pulses | 255,044 | 2,838 | 9,663 | 1,138 | 9,374 | 278,056 | 2,346 | 280,402 | 20.4 |
| Beans | 209,429 | 1,570 | 6,339 | 514 | 8,638 | 226,490 | 1,984 | 228,474 | 16.6 |
| Bush beans | 131,331 | - | 4,875 | 472 | 8,600 | 145,278 | 1,948 | 147,226 | 10.7 |
| Climbing beans | 78,097 | 1,570 | 1,464 | 42 | 38 | 81,211 | 37 | 81,248 | 5.9 |
| Peas | 12,259 | 1,266 | 54 | 3 | 111 | 13,693 | 51 | 13,744 | 1.0 |
| Groundnuts | 13,086 | - | 424 | 20 | 525 | 14,054 | 22 | 14,077 | 1.0 |
| Soya beans | 20,241 | 3 | 2,846 | 601 | 99 | 23,790 | 288 | 24,078 | 1.8 |
| Other legumes & Pulses | 30 | - | - | - | - | 30 | - | 30 | 0.0 |
| Vegetables and Fruits | 20,629 | 1,584 | 2,737 | 386 | 877 | 26,213 | 550 | 26,763 | 1.9 |
| Vegetables | 10,608 | 978 | 2,674 | 372 | 211 | 14,843 | 126 | 14,969 | 1.1 |
| Fruits | 10,021 | 606 | 64 | 14 | 665 | 11,370 | 424 | 11,794 | 0.9 |
| Other crops Total developped crop la | 66,729 r 1,242,913 | 3,554 35,384 | 2,857 44,295 | 306 12,033 | 1,537 32,638 | 74,982 1,367,263 | 706 7,780 | 75,687 1,375,043 | 5.5 100.0 |
| Total Physical crop land | 925,043 | 33,089 | 39,418 | 7,515 | 30,876 | 1,035,941 | 13,899 | 1,049,840 | 100.0 |
| Fallow land | 187,527 | 4,384 | 20,665 | 3,094 | 1,841 | 217,512 | 2,733 | 220,245 | 21.0 |

Table 2. Area (Ha) Cultivated by Crop and Group of Crops by Stratum (Hectares)

| Crops | | : | Strata | | | |
|-----------------|-------|-------|--------|--------|-------|------------|
| Crops | 1.1 | 1.2 | 2.1 | 2.2 | 3.0 | All Rwanda |
| Maize | 1,082 | 757 | 639 | 970 | 881 | 1,036 |
| Paddy rice | 3,380 | | 3,963 | 5,152 | | 4,476 |
| Sorghum | 850 | - | 1,136 | 525 | 546 | 847 |
| Wheat | 765 | 414 | | - | | 709 |
| Other cereals | 323 | | 57 | - | - | 303 |
| Cassava | 1,691 | - | 1,474 | 907 | 752 | 1,664 |
| Sweet Potatoes | 5,971 | 3,291 | 7,191 | 5,948 | 5,942 | 6,016 |
| Irish Potatoes | 4,083 | 8,509 | 2,616 | 2,094 | 3,774 | 5,675 |
| Yams & Taro | 3,592 | 9,066 | 4,841 | 2,757 | 2,360 | 3,718 |
| Cooking Banana | 3,361 | 9,172 | 1,950 | 1,382 | 2,750 | 3,331 |
| Dessert banana | 2,269 | - | 2,408 | 1,728 | 1,441 | 2,259 |
| Banana for beer | 2,481 | 803 | 3,200 | 2,033 | 3,211 | 2,489 |
| Beans | 821 | 1,076 | 720 | 646 | 744 | 817 |
| Bush beans | 750 | | 635 | 638 | 742 | 747 |
| Climbing beans | 940 | 1,076 | 1,004 | 733 | 1,092 | 943 |
| Peas | 298 | 281 | 358 | - | 81 | 296 |
| Ground nuts | 379 | | 80 | - | 439 | 371 |
| Soya beans | 376 | - | 459 | 474 | 220 | 387 |
| Vegetables | 9,625 | 2,860 | 7,599 | 12,314 | 446 | 8,725 |
| Fruits | 1,215 | 476 | - | - | 34 | 1,070 |

| | | | Agricultural | Operators | | | LSF | All Rwanda | |
|-----------------------|-----------|---------|--------------|-----------|--------|-----------|-----------|------------|---------|
| Crops Strata | 1.1 | 1.2 | 2.1 | 2.2 | 3.0 | S/Total_1 | S/Total_2 | Total | Percent |
| Cereals | 166,593 | 3,504 | 17,943 | 41,793 | 5,806 | 235,639 | 5,799.4 | 241,439 | 7.4 |
| Maize | 64,785 | 2,989 | 2,533 | 690 | 2,359 | 73,356 | 1,418.7 | 74,775 | 2.3 |
| Paddy rice | 5,738 | - | 8,164 | 40,787 | - | 54,688 | 4,052.0 | 58,740 | 1.8 |
| Sorghum | 90,914 | - | 7,243 | 317 | 3,447 | 101,921 | 227.1 | 102,148 | 3.1 |
| Wheat | 4,607 | 515 | - | - | - | 5,122 | 101.0 | 5,223 | 0.2 |
| Other cereals | 549 | - | 3 | - | - | 552 | 0.6 | 552 | 0.0 |
| Tubers and Roots | 1,088,214 | 182,808 | 52,746 | 2,681 | 7,592 | 1,334,041 | 2,450.0 | 1,336,491 | 41.1 |
| Cassava | 507,815 | - | 8,902 | 265 | 5,039 | 522,021 | 194.0 | 522,215 | 16.0 |
| Sweet Potatoes | 380,586 | 2,288 | 30,505 | 1,933 | 1,151 | 416,464 | 228.8 | 416,693 | 12.8 |
| Irish Potatoes | 138,657 | 179,669 | 5,033 | 88 | 1,157 | 324,603 | 2,027.2 | 326,631 | 10.0 |
| Yams & Taro | 61,156 | 851 | 8,305 | 395 | 245 | 70,952 | - | 70,952 | 2.2 |
| Banana | 857,335 | 564 | 7,158 | 287 | 12,460 | 877,804 | 1,048.2 | 878,852 | 27.0 |
| Cooking Banana | 374,328 | 436 | 1,640 | 97 | 9,702 | 386,202 | 837.0 | 387,039 | 11.9 |
| Dessert banana | 88,202 | - | 933 | 22 | 396 | 89,552 | 117.9 | 89,670 | 2.8 |
| Banana for beer | 394,805 | 129 | 4,586 | 168 | 2,362 | 402,050 | 93.3 | 402,143 | 12.4 |
| Legumes & Pulses | 188,163 | 2,045 | 5,927 | 617 | 6,688 | 203,440 | 1,810.7 | 205,251 | 6.3 |
| Beans | 171,938 | 1,689 | 4,567 | 332 | 6,427 | 184,953 | 1,681.8 | 186,634 | 5.7 |
| Bush beans | 98,561 | - | 3,097 | 301 | 6,385 | 108,344 | 1,649.8 | 109,994 | 3.4 |
| Climbing beans | 73,377 | 1,689 | 1,470 | 31 | 42 | 76,608 | 32.0 | 76,640 | 2.4 |
| Peas | 3,654 | 356 | 19 | - | 9 | 4,038 | 23.9 | 4,062 | 0.1 |
| Ground nuts | 4,964 | - | 34 | - | 231 | 5,228 | 1.7 | 5,229 | 0.2 |
| Soya beans | 7,607 | - | 1,307 | 285 | 22 | 9,221 | 103.4 | 9,325 | 0.3 |
| Vegetables and Fruits | 114,273 | 3,086 | 20,317 | 4,583 | 117 | 142,376 | 841 | 143,217 | 4.4 |
| Vegetables | 102,101 | 2,798 | 20,317 | 4,583 | 94 | 129,893 | 703.9 | 130,597 | 4.0 |
| Fruits | 12,171 | 288 | - | - | 23 | 12,483 | 137.2 | 12,620 | 0.4 |
| Other crops | 400,878 | 3,314 | 32,446 | 849 | 59 | 437,546 | 12,356 | 449,903 | 13.8 |
| All Rwanda | 2,815,456 | 195,321 | 136,538 | 50,810 | 32,722 | 3,230,846 | 24,306 | 3,255,152 | 100.0 |

Table 4. Production of Main Crops (MT)

Table 5. Selected Segments by Strata for SAS 2015

| Stratum | Area (Km2) | Number of Sampled Segment s |
|-----------|---------------|-----------------------------------------|
| 1.1 | 14,791 | 340 |
| 1.2 | 484 | 48 |
| 2.1 | 958 | 64 |
| 2.2 | 202 | 40 |
| 3.0 | 1,338 | 48 |
| All Rwand | 540 | |

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Table 6 : Agricultural Operators and LSF by Stratum

| | Strata | Tota | al |
|--------------|------------|--------|------|
| | | Number | % |
| | 1.1 | 3,621 | 67.8 |
| Agricultural | 1.2 | 527 | 9.9 |
| Operators | 2.1 | 492 | 9.2 |
| | 2.2 | 425 | 8.0 |
| | 3.0 | 272 | 5.1 |
| | All Rwanda | 5,337 | 100 |
| LSF | | 194 | 100 |

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Table 7. Agricultural Operators by type (%)

| | Strata | Indivi | dual | Coope | rative | То | tal |
|------------------|------------|--------|------|--------|--------|--------|-----|
| | | Number | % | Number | % | Number | % |
| | 1.1 | 3,605 | 100 | 16 | 0.4 | 3,621 | 100 |
| Agricultur al | 1.2 | 527 | 100 | 0 | 0.0 | 527 | 100 |
| Operators | 2.1 | 487 | 99.0 | 5 | 1.0 | 492 | 100 |
| • | 2.2 | 423 | 99.5 | 2 | 0.5 | 425 | 100 |
| | 3.0 | 271 | 100 | 1 | 0.4 | 272 | 100 |
| | All Rwanda | 5,313 | 99.6 | 24 | 0.4 | 5,337 | 100 |
| LSF | | | | | | 194 | 100 |

| | | Yes | No | Total |
|------------|------------|---------|---------|---------|
| | Strata | Percent | Percent | Percent |
| | 1.1 | 14.9 | 85.1 | 100 |
| Agricultur | 1.2 | 13.5 | 86.5 | 100 |
| al | 2.1 | 33.3 | 66.7 | 100 |
| Operators | 2.2 | 70.6 | 29.4 | 100 |
| | 3.0 | 9.6 | 90.4 | 100 |
| | All Rwanda | 15.2 | 84.8 | 100 |
| LSF | | 58.8 | 41.2 | 100 |

Table 8. Cooperative Membership

Table 9. Agricultural Operators by Residency (%)

| | Agricultural Operators | | | | | | | | |
|------------|------------------------|-------------|-------|--|--|--|--|--|--|
| Strata | Resident | Non residen | Total | | | | | | |
| 1.1 | 26.9 | 73.1 | 100 | | | | | | |
| 1.2 | 25.3 | 74.7 | 100 | | | | | | |
| 2.1 | 2.1 | 97.9 | 100 | | | | | | |
| 2.2 | 0.6 | 99.4 | 100 | | | | | | |
| 3.0 | 95.9 | 4.1 | 100 | | | | | | |
| All Rwanda | 23.8 | 76.2 | 100 | | | | | | |

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Table 10. Percentage of Agricultural Operators by Gender and Stratum

| | Agricultural Operators | | | | | | | |
|------------|------------------------|------|-----|--|--|--|--|--|
| Strata | Male Female Total | | | | | | | |
| 1.1 | 68.0 | 32.0 | 100 | | | | | |
| 1.2 | 66.6 | 33.4 | 100 | | | | | |
| 2.1 | 66.3 | 33.7 | 100 | | | | | |
| 2.2 | 70.4 | 29.6 | 100 | | | | | |
| 3.0 | 75.3 | 24.7 | 100 | | | | | |
| All Rwanda | 68.0 | 32.0 | 100 | | | | | |

| Table 11. Age Distribution o | f Agricultural | Operators |
|------------------------------|----------------|-----------|
|------------------------------|----------------|-----------|

| | Agricultural Operators | | | | |
|------------|------------------------|-------|-------|-------|--------------|
| Strata | 14-24 | 25-34 | 35-44 | 45-54 | 55 and Above |
| 1.1 | 4.5 | 24.1 | 21.9 | 21.7 | 27.9 |
| 1.2 | 5.9 | 28.7 | 23.1 | 20.3 | 22.0 |
| 2.1 | 3.3 | 22.6 | 22.6 | 22.8 | 28.7 |
| 2.2 | 6.9 | 24.8 | 21.7 | 23.6 | 22.9 |
| 3.0 | 5.9 | 26.6 | 22.5 | 19.6 | 25.5 |
| All Rwanda | 4.5 | 24.1 | 21.9 | 21.7 | 27.9 |

Table 12. Age Distribution of Male Agricultural Operators

| | | Agric | ultural Oper | ators | |
|------------|-------|-------|--------------|-------|--------------|
| Strata | 14-24 | 25-34 | 35-44 | 45-54 | 55 and Above |
| 1.1 | 4.5 | 28.4 | 23.4 | 20.1 | 23.6 |
| 1.2 | 6.8 | 33.9 | 25.1 | 19.7 | 14.5 |
| 2.1 | 3.7 | 28.8 | 22.6 | 21.1 | 23.8 |
| 2.2 | 7.7 | 26.2 | 22.5 | 21.8 | 21.8 |
| 3.0 | 4.9 | 27.9 | 24.5 | 18.6 | 24.0 |
| All Rwanda | 4.5 | 28.4 | 23.4 | 20.1 | 23.6 |

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| Table 13. Age Distribution of F | Female Agricultural Operators |
|---------------------------------|-------------------------------|
|---------------------------------|-------------------------------|

| | | Agri | cultural Ope | erators | |
|------------|-------|-------|--------------|---------|--------------|
| Strata | 14-24 | 25-34 | 35-44 | 45-54 | 55 and Above |
| 1.1 | 4.4 | 14.9 | 18.7 | 24.9 | 37.1 |
| 1.2 | 4.0 | 18.2 | 19.3 | 21.6 | 36.9 |
| 2.1 | 2.4 | 10.4 | 22.6 | 26.2 | 38.4 |
| 2.2 | 4.8 | 21.6 | 20.0 | 28.0 | 25.6 |
| 3.0 | 9.0 | 22.4 | 16.4 | 22.4 | 29.9 |
| All Rwanda | 4.4 | 14.9 | 18.7 | 24.9 | 37.1 |

Table 14. Education Level of Agricultural Operators by Stratum

| | Agricultural Operators | | | | |
|------------|------------------------|-----------|----------|------------|-------|
| Strata | Primary | Secondary | Tertiary | No educati | Total |
| 1.1 | 65.3 | 6.0 | 0.8 | 27.8 | 100 |
| 1.2 | 60.2 | 7.8 | 1.9 | 30.2 | 100 |
| 2.1 | 65.7 | 5.5 | 0.8 | 27.9 | 100 |
| 2.2 | 75.4 | 4.3 | 0.5 | 19.9 | 100 |
| 3.0 | 71.2 | 5.5 | 0.7 | 22.5 | 100 |
| All Rwanda | 65.3 | 6.0 | 0.8 | 27.8 | 100 |

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Table 15. Education level of Male Agricultural Operators (%)

| | Agricultural Operators | | | | |
|------------|------------------------|-----------|----------|------------|-------|
| Strata | Primary | Secondary | Tertiary | No educati | Total |
| 1.1 | 71.5 | 6.4 | 1.1 | 21.0 | 100 |
| 1.2 | 69.8 | 9.1 | 2.8 | 18.2 | 100 |
| 2.1 | 68.4 | 5.9 | 1.2 | 24.5 | 100 |
| 2.2 | 79.9 | 3.0 | 0.3 | 16.8 | 100 |
| 3.0 | 74.5 | 6.9 | 1.0 | 17.6 | 100 |
| All Rwanda | 71.4 | 6.4 | 0.0 | 21.0 | 100 |

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| Table 16. Education Level of Female | Agricultural Operators (%) |
|-------------------------------------|----------------------------|
|-------------------------------------|----------------------------|

| | Agricultural Operators | | | | |
|------------|------------------------|-----------|----------|------------|-------|
| Strata | Primary | Secondary | Tertiary | No educati | Total |
| 1.1 | 52.2 | 5.2 | 0.3 | 42.4 | 100 |
| 1.2 | 40.9 | 5.1 | 0.0 | 54.0 | 100 |
| 2.1 | 60.4 | 4.9 | 0.0 | 34.8 | 100 |
| 2.2 | 64.8 | 7.2 | 0.8 | 27.2 | 100 |
| 3.0 | 61.2 | 1.5 | 0.0 | 37.3 | 100 |
| All Rwanda | 52.2 | 5.2 | 0.3 | 42.3 | 100 |

Table 17. Average Size of Tract by Stratum

| Strata | Average (Ha) |
|--------|--------------|
| 1.1 | 0.22 |
| 1.2 | 0.18 |
| 2.1 | 0.18 |
| 2.2 | 0.13 |
| 3.0 | 2.12 |
| Total | 0.23 |

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Table 18. Share of Pure and Mixed Crop Agricultural Land (%)

| | Strata | Pure Crop Land | Mixed Crop Land | Total |
|-------------|------------|-------------------|--------------------|-------|
| | 1.1 | 21.4 | 78.6 | 100 |
| • · · | 1.2 | 61.0 | 39.0 | 100 |
| Agricultura | 2.1 | 47.8 | 52.2 | 100 |
| Operators | 2.2 | 68.0 | 32.0 | 100 |
| | 3.0 | 28.8 | 71.2 | 100 |
| | All Rwanda | 23.7 | 76.3 | 100 |
| LSF | | 75.4 | 24.6 | 100 |

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Table 19. Users of Organic Fertilizers (%)

| | Strata | Used organic fertilizers |
|------------------|------------|--------------------------------|
| | 1.1 | 43.2 |
| Agricultur al | 1.2 | 48.6 |
| | 2.1 | 39.8 |
| Operators | 2.2 | 14.8 |
| - | 3.0 | 14.3 |
| | All Rwanda | 43.1 |
| LSF | | 42.3 |

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Table 20. Use of Inorganic Fertilizer (%)

| | Strata | Used inorganic fertilizers |
|--------------|------------|----------------------------------|
| | 1.1 | 14.2 |
| | 1.2 | 62.4 |
| Agricultural | 2.1 | 17.9 |
| Operators | 2.2 | 58.4 |
| | 3.0 | 3.3 |
| | All Rwanda | 14.6 |
| LSF | | 51.5 |

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Table 21. Users of Inorganic Fertilizers by Type and by Stratum (%)

| | Strata | NPK | UREA | UREA (LIQUID) | DAP | OTHER Fertilizers | Total |
|------------------|------------|------|------|------------------|------|----------------------|-------|
| | 1.1 | 28.6 | 31.2 | 0.9 | 39.1 | 0.3 | 100 |
| • | 1.2 | 73.6 | 9.1 | 3.5 | 13.6 | 0.3 | 100 |
| Agricultur al | 2.1 | 15.7 | 34.7 | 5.0 | 43.0 | 1.7 | 100 |
| Operators | 2.2 | 45.7 | 44.6 | 2.0 | 7.2 | 0.4 | 100 |
| | 3.0 | 8.3 | 16.7 | - | 66.7 | 8.3 | 100 |
| | All Rwanda | 29.6 | 30.8 | 1.0 | 38.2 | 0.3 | 100 |
| LSF | | 31.4 | 35.4 | 1.1 | 25.1 | 6.9 | 100 |

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| Table 22. Agricultural Operator | rs by Type of Seeds Used (%) |
|---------------------------------|------------------------------|
|---------------------------------|------------------------------|

| | Strata | Traditional seeds | Improved seeds | | |
|------------------|------------|-------------------|-------------------|--|--|
| | 1.1 | 88.4 | 11.6 | | |
| | 1.2 | 85.6 | 14.4 | | |
| Agricultur al | 2.1 | 89.9 | 10.1 | | |
| Operators | 2.2 | 89.7 | 10.3 | | |
| - | 3.0 | 98.5 | 1.5 | | |
| | All Rwanda | 88.4 | 11.6 | | |
| LSF | | 60.2 | 39.8 | | |

Table 23. Agricultural Operators and Large Scale Farmers Practising Irrigation (%)

| | Strata | Practised Irrigation |
|--------------|------------|----------------------|
| | 1.1 | 1.3 |
| | 1.2 | - |
| Agricultural | 2.1 | 10.0 |
| Operators | 2.2 | 61.4 |
| | 3.0 | 2.9 |
| | All Rwanda | 1.5 |
| LSF | | 28.4 |

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Table 24. Agricultural Operators and LSF by Type of Irrigation Practised (%)

| | Strata | Pumps/tube wells/irrigatio n machines | Watering can | Water channels | Others | Total |
|------------------------|------------|---------------------------------------------|-----------------|-------------------|--------|-------|
| | 1.1 | 13.2 | 67.9 | 3.8 | 15.1 | 100 |
| | 1.2 | - | - | - | - | 100 |
| Agricultural Operators | 2.1 | 5.8 | 67.3 | 5.8 | 21.2 | 100 |
| · .g | 2.2 | - | 8.5 | 90.4 | 1.1 | 100 |
| | 3.0 | 37.5 | 62.5 | - | - | 100 |
| | All Rwanda | 11.8 | 63.7 | 10.0 | 14.5 | 100 |
| LSF | | 18.0 | 18.0 | 59.0 | 4.9 | 100 |

Table 25. Anti-erosive Activities by Agricultural Operators and Large Scale Farmers (%)

| | Strata | Practised Anti-erosion | | | |
|------------------------|------------|------------------------|--|--|--|
| | 1.1 | 64.9 | | | |
| | 1.2 | 83.7 | | | |
| Agricultural Operators | 2.1 | 72.5 | | | |
| Agriculturur operatoro | 2.2 | 84.4 | | | |
| | 3.0 | 10.1 | | | |
| | All Rwanda | 65.2 | | | |
| LSF | | | | | |

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Table 26. Anti-erosive Activities by Agricultural Operators and LSF (%)

| | Strata | Ditches | Trees | Radical Terracing | Progressi ve terracing | Grasses | Water drainage | Mulching | Beds | Other | Total |
|------------------------|------------|---------|-------|----------------------|------------------------------|---------|-------------------|----------|------|-------|-------|
| | 1.1 | 9.3 | 2.9 | 4.9 | 10.5 | 68.3 | 0.4 | 1.0 | 2.7 | 0.0 | 100 |
| | 1.2 | 13.3 | 1.5 | 2.5 | 0.4 | 24.9 | 0.0 | - | 57.4 | - | 100 |
| Agricultural Operators | 2.1 | 1.9 | 0.4 | 0.1 | 0.1 | 25.3 | 43.8 | 0.4 | 27.9 | - | 100 |
| 3 | 2.2 | 0.2 | - | 1.5 | 0.1 | 4.6 | 70.0 | 0.6 | 18.9 | 4.1 | 100 |
| | 3.0 | 15.6 | 9.4 | - | - | 48.2 | - | 23.2 | 2.2 | 1.4 | 100 |
| | All Rwanda | 9.2 | 2.8 | 4.8 | 10.3 | 67.3 | 1.2 | 1.0 | 3.4 | 0.1 | 100 |
| LSF | | 18.9 | 7.6 | 8.5 | 4.2 | 28.0 | 13.7 | 15.1 | 3.6 | 0.4 | 100 |

Table 27. Agricultural Operators and LSF using Pesticide (%)

| | Strata | Used Pesticides |
|--------------|--------|-----------------|
| | 1.1 | 7.6 |
| | 1.2 | 67.0 |
| Agricultural | 2.1 | 9.8 |
| Operators | 2.2 | 36.5 |
| | 3.0 | 2.6 |
| | Rwanda | 7.9 |
| LSF | | 32.9 |

Table 28. Type of Pesticide used by Agricultural operators and LSF

| | Strate | DITHAN E | ridomi L | DIMET HOATE | CYPER Metri Ne | DURSI BAN | ТІЦТ | other Pestic Ide | Total |
|------------------|------------|-------------|-------------|----------------|----------------------|--------------|------|------------------------|-------|
| | 11 | 44.6 | 7.0 | 7.3 | 32.5 | 0.5 | | 8.1 | 100 |
| | 12 | 45.2 | 31.5 | 19.6 | 3.5 | - | | 0.1 | 100 |
| Agricultur al | 21 | 11.9 | 4.5 | 22.4 | 49.3 | 1.5 | | 10.4 | 100 |
| Operators | 22 | 5.0 | - | 3.3 | 57.4 | 0.4 | | 33.9 | 100 |
| • | 30 | 16.7 | - | 25.0 | 41.7 | - | | 16.7 | 100 |
| | All Rwanda | 43.8 | 8.8 | 8.4 | 30.7 | 0.5 | | 7.7 | 100 |
| LSF | | 16.1 | 8.0 | 5.8 | 38.7 | 2.9 | - | 28.5 | 100 |

Table 29. Use of Production by Agricultural Operators (%)

| | | B | n | Used as wage for hired labour | as rent | Offered as Gift to Other | Exchanged with other things | as | as | ged | Used in any other way | |
|--------------------------------|---------------|-----------|---------------------|-------------------------------------|----------------------|-----------------------------|-----------------------------------|------------------|-------------------|----------|--------------------------|----------|
| | Sold | Stored | Autoconsu mption | Used as wage for hired lab | Used as Farm rent | Offered as Gift to Othe | Exchange with other things | Used as seeds | Used as fodder | Damaged | Used in al other way | Total |
| Maize | 8.0 | .1 | 85.0 | .3 | .3 | 2.0 | .1 | 3.9 | .2 | .0 | | 00 |
| Paddy rice | 70.9 | .0 | 24.1 | .9 | .1 | 1.7 | .1 | 2.2 | .0 | .0 | .1 1 | 00 |
| Sorghum | 32.2 | 1.4 | 54.0 | .4 | .5 | 4.0 | .1 | 7.1 | .1 | .1 | | 00 |
| Wheat | 32.4 | .0 | 52.1 | .0 | .0 | 4.3 | .0 | 11.1 | .0 | .0 | | 00 |
| Other cereals | 30.0 | .0 | 50.0 | .0 | .0 | .0 | .0 | 20.0 | .0 | .0 | | 00 |
| Bush beans | 12.4 | .3 | 73.2 | .5 | .2 | 1.9 | .2 | 11.1 | .0 | .0 | | 00 |
| Climbing beans | 9.1 | .3 | 72.6 | .2 | .1 | 3.2 | .1 | 14.4 | .0 | .1 | | 00 |
| Peas | 11.1 | .0 | 73.9 | .0 | .0 | .5 | .1 | 14.4 | .0 | .0 | | 00 |
| Other legumes & pulses | .0 | .0 | 100.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | 00 |
| Cassava | 15.5 | .2 | 80.0 | .7 | .3 | 2.9 | .0 | .0 | .1 | .2 | | 00 |
| Irish potatoes | 21.7 | .1 | 62.5 | .5 | .0 | 3.1 | .1 | 11.8 | .0 | .2 | | 00 |
| Sweet potatoes | 13.2 | .0 | 80.3 | 1.0 | .2 | 3.3 | .1 | .0 | 1.8 | .1 | | 00 |
| Tomotoes | 72.2 | .0 | 18.6 | .1 | .0 | 6.9 | .0 | .5 | .0 | 1.7 | | 00 |
| White cabbage Flower cabage | 58.8 .0 | 0. | 36.2 50.0 | .5 .0 | 0. 0. | 4.1 50.0 | 0. 0. | 0. 0. | .3 .0 | 0. 0. | | 00 00 |
| Onions | .0 62.0 | .0 4.0 | 50.0 24.7 | 0. 0. | 0. 0. | 50.0 2.3 | 0. 0. | .0 7.1 | 0. 0. | 0. 0. | | 00 |
| Carrots | 67.2 | 4.0 | 30.1 | .0 | .0 | 2.3 | .0 | .0 | .0 | .0 | | 00 |
| Eggplant | 45.7 | .0 | 48.1 | .0 | .0 | 6.0 | .0 | .0 | .0 | .0 | | 00 |
| Cooking Bananas | 19.0 | .0 | 77.2 | .6 | .0 | 2.2 | .0 | .0 | .0 | .3 | | 00 |
| Dessert banana | 59.6 | .0 | 38.4 | .0 | .0 | 1.2 | .2 | .0 | .0 | .0 | | 00 |
| Banana for beer | 70.2 | .0 | 26.9 | .0 | .0 | 2.5 | .0 | .0 | .0 | .2 | | 00 |
| Pineapple | 29.2 | .0 | 63.9 | .0 | .0 | 2.5 | .0 | .0 | .0 | .0 | | 00 |
| Avocado | 51.2 | .0 | 43.3 | .0 | .0 | 5.5 | .0 | .0 | .0 | .0 | | 00 |
| Passion fruits | 84.7 | .0 | 12.0 | .0 | .0 | 2.9 | .0 | .0 | .0 | .4 | | 00 |
| Soya beans | 10.5 | .1 | 73.5 | .2 | .2 | 1.3 | .3 | 13.8 | .0 | .0 | | 00 |
| Ground nuts | 16.5 | 1.2 | 60.2 | .1 | .0 | 1.1 | .0 | 20.8 | .0 | .0 | | 00 |
| sun flower | 6.4 | .4 | 82.2 | .0 | .0 | .8 | .0 | 10.2 | .0 | .0 | | 00 |
| coffee Pyrethrum | 99.4 | .0 | .3 | .0 | .0 | .3 | .0 | .0 | .0 | .0 | | 00 |
| Sweet pepper | 100.0 73.3 | 0. 0. | .0 21.2 | 0. 0. | 0. 0. | .0 3.8 | 0. 0. | .0 1.8 | 0. 0. | 0. 0. | | 00 00 |
| Pepper | 92.3 | .0 | 2.1 | .0 | .0 | 4.2 | .0 | .0 | .0 | 1.4 | | 00 |
| Amaranths | 43.4 | 1.3 | 50.4 | .0 | .0 | 4.5 | .2 | .0 | .0 | .2 | | 00 |
| Celery | 98.0 | .0 | .0 | .0 | .0 | 2.0 | .0 | .0 | .0 | .0 | | 00 |
| Small red beans Sugar beet | 0. | .0 | 50.0 | .0 | .0 | .0 | .0 | 50.0 | .0 | .0 | | 00 |
| Garlic | 93.3 56.9 | 0. 0. | 6.8 7.3 | 0. 0. | 0. 0. | 0. 0. | 0. 0. | 0. 0. | 0. 0. | 0. 0. | .0 1 35.8 1 | 00 |
| Leeks | 42.7 | .0 | 57.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 1 | |
| French beans | 43.2 | .0 | 54.1 | .0 | .0 | 2.7 | .0 | .0 | .0 | .0 | .0 1 | |
| Napia grass | 25.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 3.8 | .0 | 71.3 1 | |
| Sugar cane Fodder crop | 54.9 | .0 | 37.5 | .0 | .0 | 6.8 | .0 | .0 | 0. | .8 | .0 1 | |
| Mango | 4.0 38.8 | .5 .0 | .0 60.4 | 0. 0. | 0. 0. | 1.1 .9 | 1.6 .0 | 1.9 .0 | 90.8 .0 | 0. 0. | | 00 00 |
| Papaya | 50.0 | .0 | 50.4 | .0 | .0 | .9 | .0 | .0 | .0 | .0 | .0 1 | |
| Tree tomato | 65.5 | .0 | 24.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 10.3 1 | |
| Orange | 88.0 | .0 | 10.0 | .0 | .0 | 2.0 | .0 | .0 | .0 | .0 | | 00 |
| Lemon | 70.0 | .0 | 20.0 | .0 | .0 | 10.0 | .0 | .0 | .0 | .0 | | 00 |
| Guava | 60.0 | .0 | 15.0 | .0 | .0 | 5.0 | .0 | .0 | .0 | - | | 00 |
| Millet | .0 | .0 | 90.0 | .0 | .0 | .0 | .0 | 10.0 | .0 | .0 | | 00 |
| Pumpkins | 18.7 | .0 | 74.9 | .0 | .0 | 6.3 | .0 | .1 | .0 | .0 | | 00 |
| | | - | | | - | | | | - | | | |
| Cucumber | 100.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | 00 |
| Taro | 8.9 | .0 | 85.3 | .4 | .1 | 2.6 | .0 | 2.3 | .1 | .1 | .3 1 | 00 |
| Yams | 11.9 | .0 | 80.8 | .0 | .0 | 2.8 | .0 | 4.2 | .0 | .0 | .3 1 | 00 |
| Other annual vegetables | .0 | .0 | 91.7 | .0 | .0 | 8.3 | .0 | .0 | .0 | .0 | .0 1 | 00 |
| - | 73.3 | .0 | 25.0 | .0 | .0 | 1.7 | .0 | .0 | .0 | .0 | | 00 |
| Other seasonal crops | | - | | | - | | | | - | | | |
| Other annual crops | 42.4 | .0 | .3 | .0 | .0 | .1 | .0 | .0 | .0 | .0 | 57.1 1 | 00 |

Table 30. Use of Production by Large Scale Farmer (%)

| | | ed | Autoconsu mption | Used as wage for hired labour | Used as Farm rent | Offered as Gift to Other | Exchanged with other things | Used as seeds | Jsed as odder | Damaged | Used in any other way | _ |
|----------------------------|----------------|-----------|---------------------|-------------------------------------|----------------------|-----------------------------|-----------------------------------|------------------|------------------|------------|--------------------------|------------|
| | Sold | Stored | Autoco mption | Use wag | Use Farn | Offe Gift | Exchar with otl things | Used a seeds | Used a fodder | Dam | Use | Total |
| Maize | 64.4 | .0 | 22.7 | 1.3 | .0 | 1.6 | .0 | 5.1 | 4.5 | .1 | .3 | 100 |
| Paddy rice | 84.5 | .0 | 14.1 | .9 | .0 | .0 | .0 | .4 | .0 | .1 | .0 | 100 |
| Sorghum | 88.6 | .0 | 8.1 | .0 | .0 | .0 | .0 | 3.3 | .0 | .0 | .0 | 100 |
| Wheat Bush beans | 79.0 49.3 | .0 .3 | 15.9 37.1 | .0 1.0 | .0 .3 | .8 1.0 | 0. 0. | 4.3 10.7 | 0. 0. | .0 .1 | .0 .1 | 100 100 |
| Climbing beans | 58.6 | .3 .8 | 22.8 | .0 | .0 | .5 | .0 | 17.4 | .0 | .0 | .0 | 100 |
| Peas | 55.8 | .0 | 27.9 | .0 | .0 | 2.5 | 1.4 | 12.3 | .0 | .0 | .0 | 100 |
| Cassava | 37.8 | .0 | 47.6 | 9.1 | .0 | .2 | .0 | .0 | 5.3 | .0 | .0 | 100 |
| Irish potatoes | 54.0 | .3 | 37.8 | .7 | .0 | 1.0 | .0 | 4.9 | .0 | .4 | .9 | 100 |
| Sweet potatoes | 34.2 | .0 | 52.0 | 5.4 | .0 | 1.5 | .0 | .0 | 6.9 | .0 | .0 | 100 |
| Tomotoes | 71.7 | .0 | 28.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 |
| White cabbage | 55.9 | .0 | 40.9 | .0 | .0 | .9 | .0 | .0 | .0 | 2.3 | .0 | 100 |
| Flower cabage | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | .0 | 100 |
| Onions | 82.9 | .0 | 17.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Carrots Eggplant | 95.0 82.1 | .0 .0 | .0 15.7 | 0. 0. | 0. 0. | 5.0 2.1 | 0. 0. | .0 | 0. 0. | .0 | .0 | 100 |
| Cooking Bananas | 44.2 | .0 .0 | 53.3 | .0 | .0 .0 | 2.1 1.4 | 0. 0. | 0. 0. | 0. 0. | .0 .7 | 0. 0. | 100 100 |
| Dessert banana | 80.9 | .0 | 16.2 | .0 | .0 | .2 | .0 | .0 | .0 | ., 2.7 | .0 | 100 |
| Banana for beer | 82.1 | .0 | 9.7 | .0 | .0 | 2.9 | .0 | .0 | .0 | 5.3 | .0 | 100 |
| Pineapple | 87.9 | .0 | 6.4 | .0 | .0 | 5.7 | .0 | .0 | .0 | .0 | .0 | 100 |
| Avocado | 100.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Other fruits | 100.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Soya beans | 55.2 | 5.9 | 13.1 | .0 | .0 | .0 | .0 | 14.3 | 11.6 | .0 | .0 | 100 |
| Ground nuts | 29.5 | .0 | 48.0 | .9 | .0 | 5.1 | .6 | 15.8 | .0 | .0 | .0 | 100 |
| sun flower | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100.0 | .0 | .0 | .0 | 100 |
| coffee Pyrethrum | 100.0 100.0 | 0. 0. | 0. 0. | .0 .0 | 0. 0. | 0. 0. | .0 .0 | 0. 0. | 0. 0. | 0. 0. | 0. 0. | 100 100 |
| Black eggplants | 70.0 | .0 | .0 30.0 | .0 | .0 | .0 .0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Sweet pepper | 77.6 | .0 | 18.9 | .0 | .0 | 2.3 | .0 | 1.3 | .0 | .0 | .0 | 100 |
| Pepper | 98.0 | .0 | 1.5 | .0 | .0 | .5 | .0 | .0 | .0 | .0 | .0 | 100 |
| Amaranths Celery | 24.3 90.0 | .0 .0 | 67.5 5.0 | .0 .0 | 0. 0. | 8.3 5.0 | .0 .0 | 0. 0. | 0. 0. | 0. 0. | 0. 0. | 100 100 |
| Spinach | .0 | .0 | 100.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Small red beans | 13.3 | .0 | 73.3 | .0 | .0 | .0 | .0 | 13.3 | .0 | .0 | .0 | 100 |
| Sugar beet | 53.1 | .0 | 36.1 | .0 | .0 | 10.8 | .0 | .0 | .0 | .0 | .0 | 100 |
| Garlic Leeks | 100.0 | .0 3.6 | .0 63.0 | 0. 0. | 0. 0. | .0 3.0 | .0 .0 | 0. 0. | 0. 0. | 0. 0. | 0. 0. | 100 100 |
| French beans | 78.7 | .0 | 18.3 | .0 | .0 | 3.0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Lettuce | 100.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | | 100 |
| Napia grass | 0. | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 5.0 | .0 | | 100 |
| Sugar cane Fodder crop | 34.1 10.4 | 0. 0. | 58.6 .0 | .0 .5 | 0. 0. | 7.2 1.4 | .0 .8 | .0. 1.8 | .0 84.9 | 0. 0. | .0 | 100 100 |
| Macadamia | .0 | .0 | .0 .0 | .0 | .0 .0 | 70.0 | .0 | .0 | .0 | .0 | 30.0 | 100 |
| Mango | 25.9 | .0 | 57.4 | .0 | .0 | 12.8 | .2 | .0 | .0 | .0 | 3.7 | |
| Рарауа | 70.0 | .0 | 20.0 | .0 | .0 | 10.0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Tree tomato | 68.0 | .0 | 20.7 | .0 | .0 | 2.2 | .0 | .0 | .0 | 5.5 | | 100 |
| Orange | .0 | .0 | 50.0 | .0 | .0 | 50.0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Lemon | 37.0 | .0 | 26.1 | .0 | .0 | 37.0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Guava Millet | 59.0 | .0 | 41.0 | .0 | .0 | .0 | .0 | 0. | .0 | .0 | .0 | 100 |
| Pumpkins | 16.5 10.5 | 1.4 .0 | 59.9 77.1 | 2.5 .0 | 0. 0. | 2.5 9.8 | 5.8 .0 | 11.3 .5 | 0. 0. | .0. 1.1 | .0 1.0 | 100 100 |
| Cucumber | 99.0 | .0 .0 | 1.0 | .0 .0 | .0 .0 | 9.0 .0 | .0 .0 | .5 .0 | .0 .0 | ۱.۱ 0 | 1.0 .0 | 100 |
| Taro | 13.9 | .0 | 81.3 | .0 | .0 | 3.1 | .0 | .0 | .0 | .0 | .0 | |
| Yams | 33.4 | .0 | 61.1 | .0 | .0 | 2.4 | .0 | 3.2 | .0 | .0 | .0 | 100 |
| Other annual vegetables | 25.0 | .0 | 65.0 | .0 | .0 | 10.0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Other perennial vegetables | .0 | .0 | 100.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 |
| Other seasonal crops | .0 | .0 | 100.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 |
| • | | | | | - | | | | | | | |
| Other annual crops | 76.7 | .0 | 1.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 22.2 | |
| Other perennial crops | 100.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | 100 |