資料-6 環境社会配慮関連資料 資料-6.1 EIA調査のためのTOR



Kigali ... 21/11/2013 Réf. RDB/3/EC/AS/..4.4./../11/12

Ernest RUZINDAZA Permanent Secretary MINAGRI

Dear Sir,

Re: Terms of Reference (ToR) For Environmental Impact Assessment (EIA) study

With reference to your letter Ref:1858/11/30 submitting the Project Brief and Terms of Reference that are intended to guide the EIA study for your project of preparatory survey on project for land husbandry, water harvesting and hillside irrigation development on Ngoma 22 site located in Remera and Rurenge Sectors of Ngoma district, Eastern Province;

After review of the document, the site visit and consideration of provisions of laws and regulations governing EIA in Rwanda, we would like to inform you that your project falls under the category of projects for which an environmental impact assessment study is prior to their authorization for implementation;

In this regard, the Terms of Reference that were presented have been examined and were found relevant. They were therefore approved to guide the conduct of EIA study. The certificate of approval will be issued after review and approval of the final EIA study report;

The final EIA report transmitted in one original hard copy with a CD soft copy for review and approval. The transmission letter should bear a reference number.

Sincerely,

Clare AKAMANZI

**Chief Operating Officer** 

Rwanda Development Board

Cc:

- Governor of Eastern Province
- Director General of REMA
- Mayor of Ngoma District



Application reference: 2076/11-30 Certificate N° RDB/3/EC/AS/20/ 02/2014

#### CERTIFICATE OF APPROVAL OF ENVIRONMENTAL IMPACT ASSESSMENT

This is to certify that the Environmental Impact Report (EIR) received from the MINISTRY OF AGRICULTURE AND ANIMAL RESOURCES (MINAGRI), was submitted to Rwanda Development Board (RDB) in accordance with Article N° 67 of Environmental Organic Law N° 04/2005 of 8/4/2005 with respect to the project named "Project for land husbandry and hillside irrigation on Ngoma 22 site" located in Remera and Rurenge Sectors, Ngoma District of Eastern Province.

The Environmental Impact Report (EIR) was reviewed and found to have no irreversible negative impacts of the project to the environment, and was therefore approved subject to the fulfilment of conditions attached.

Signed by:

Clare AKAMANZI
Chief Operating Officer

Dated this ... 5 day of February 2014

\* To be issued in Duplicate: original to Developer, copy to RAB, Eastern Province, REMA and Ngoma District

#### **CONDITIONS OF APPROVAL**

The developer shall, in addition to dam construction techniques and standard requirements conform to the minimum basic safety, health, operational and environmental protection, and shall present his commitment to RDB undertaking to comply with the following conditions:

- All construction works should start only when all expropriation and compensations are duly done or mechanisms for their completion are agreed upon between the affected people and project developer with involvement of the District;
- All construction and exploitation activities will protect and conserve protected flora/fauna species in the project area such us those mentioned in the Ministerial order No 007/2008 of 15/08/2008 establishing the list of protected animal and plant species;
- Put effort and accomplish all planned and necessary actions intended for protection of the entire catchment about erosion control and protection of the dam against siltation and uncontrolled access;
- Ensure that no water shortage in the existing water supply system happens due to the construction and filling of the dam;
- All construction works likely to produce excessive vibrations and noise shall be carried out during day hours in order to avoid noise pollution and disturbance to the community in the vicinity of the project site;
- Avoid by all means the emission of dust emanating from earth works on site;
- No construction materials or wastes of any kind will be stored or dumped in the marshland;
- Deviated roads and walkways should be well and safely reconstructed and take the shortest possible route;
- Obstructed or inundated drinking water sources should be relocated at the nearest and convenient places, or the developer will find an alternative of drinking water supply to affected people;
- Ensure the strength and stability of the dam structures is checked before loading, and monitored to prevent any fatal failure of the structures;
- The contractor will apply and observe construction good practices and provide personal protective equipment to the workers to reduce accidents during the works. A first aid kit should be made available on site, transport means ready for any injury to the nearest clinic;

- Organize sensitization sessions on the prevention measures for accidents and HIV/AIDS contamination as well as SACCO schemes and mutuelle de santé;
- Monitor possible change in soil structure and fertility so as to apply measures intended to mitigate effect on irrigation (erosion, flooding) and that of application of chemical fertilizers and pesticides;
- © Carry out campaign to raise awareness on preventing and fighting water borne diseases;
- An environmental monitoring system/ mechanism should be set up to follow and supervise the regular implementation of the Environmental Management Plan and suggest solutions and mitigation measures for eventual unforeseen situations and events;
- The EIR is thus approved subject to the fulfillment of the conditions described above together with all mitigation measures proposed in your Environmental Management Plan.

N.B. Note that in case of non-compliance of the conditions described above, RDB reserves the right to withdraw the certificate.

Signed by:

Chief Operating Officer

Rwanda Development Board (RDB)

Ernest RUZINDAZA Permanent Secretary

MINAGRI

#### 資料-6.3 住民移転計画書

#### **REPUBLIC OF RWANDA**

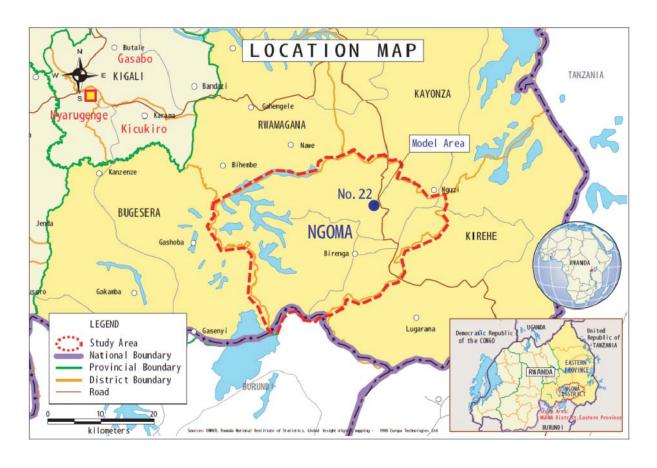


# MINISTRY OF AGRICULTURE AND ANIMAL RESOURCES & JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

# RESETTLEMENT ACTION PLAN FOR CONSTRUCTION OF IRRIGATION INFRASTRUCTURE AT NGOMA 22

June, 2014

#### **LOCATION MAP**



#### **EXECUTIVE SUMMARY**

The Government of Rwanda has several programs supergrade to this project that are: 1) Rwanda Vision 2020, 2) Economic Development and Poverty Reduction Strategy, 2008-2012: EDPRS 2008-2012, 3) National Agriculture Policy (NAP): 2004, 4) Strategic Plan for Agricultural Transformation in Rwanda 2004: SPAT, and 5) Land-husbandry, Water harvesting and Hillside-irrigation: MINAGRI. In these programs, the main and common targets are the reduction of poverty, the economic development and the food security. This project was formulated and has been reconsidered under the scheme of MINAGRI program, accords with the contents of the mid to long term development programs above, and contributes for these programs to accomplish their purposes. And the Government intends to construct 101 irrigation purpose reservoirs throughout the country.

Ngoma 22, is one of these sites to benefit from hillsides irrigation infrastructure and will be funded by Government of Rwanda and Government of Japan through Japan Internation Cooperation Agency. The Japan Government made a public commitment in the forth Tokyo International Conference on African Development to support African countries concentrated in the fields of 1) increase of food production and improvement of agricultural productivity, 2) improvement of utilization and management of water resources and lands, 3) development of water-related infrastructures, 4) accommodation of safe water resources. This project aims at the development of water resources through a dam construction and the modernization of agriculture so that it can contribute the achievement of all the items of the commitment above.

The construction of the dam and irrigation system implies a need for land and hence land acquisition that is expected to lead to and loss of access to the land that provides for economic resources. This therefore principally triggers World Bank Operational Policy OP4.12 on involuntary resettlement, Rwanda laws on expropriation and land ownership as well as the JICA Guidelines for Environmental and Social Considerations. The land that will be affected by the construction of irrigation infrastructure at Ngoma 22, is owned by the Government of Rwanda and private individuals.

In accordance with the World Bank Policy OP 4.12, the JICA Guidelines for Environmental and Social Considerations (2004) and National Regulations, a resettlement action plan must be developed and implemented by project developer. The Resettlement Action Plan (RAP) outlines the necessary requirements for compensation and resettlement of affected persons. The main elements of the RAP are: public consultation, documentation of assets, disclosure of entitlement, preparing of alternatives, compensation and resettlement, legal and institutional framework, addressing grievances, monitoring and reporting.

The census and valuation of assets indicate that the construction of Ngoma 22 dam and irrigation network will affect in total 1,220 households in Rurenge and Remera sectors in Ngoma District. The compensation measures is by cash since it is difficult for Ngoma District to allocate alternative lands. Moreover, technical training such as agriculture will be provided to the affected persons. During the implementation of the RAP, the project will provide compensation for crops and lands through the District and ensure provision of capacity building and technical support relating to maintenance of structures. The District will ensure that the eligible PAPs are compensated. MINAGRI will be responsible for monitoring and reporting the implementation of the RAP.

Any aggrieved party may ask for justification of the decisions from the Resettlement and Compensation Committee, but in case the answer is still unsatisfactory, they may appeal to the local leadership starting with the Cell, Sector and District leaders. If the grievances are not

resolved in this way, local courts should be used. If the case is not resolved it will proceed to the Land Commission and then to the Courts of Law. The project will ensure that all the affected people understand the complaints procedure and will ensure each party involved fulfils its duties to the affected persons ensuring just compensation.

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#### **ACRONYMS**

**HH** : Household

JICA : Japanese International Cooperation Agency

MINAGRI: Land Husbandry, Water Harvesting and Hillside Irrigation

**MINAGRI:** Ministry of Agriculture and Animal Resources

MINIRENA: Ministry of Natural Resources

**OP** : Operation Policy

**PAPs**: Project Affected Parties/People

**RAP**: Resettlement Action Plan

**RDB**: Rwanda Development Board

**REMA:** Rwanda Environment Management Authority

**RNRA:** Rwanda Natural Ressources Authorithy

**RPF**: Resettlement Policy Framework

**RSSP**: Rural Sector Support Project

**SPIU**: Single project Implementation Unit

**USD**: United Satates Dollars

WB: World Bank

#### **DEFINITION USED RAP**

**Agricultural labourer:** means a person primarily resident in the affected area who does not hold any land in the affected area but who earns his livelihood principally by manual labour on agricultural land therein immediately before such declaration and who has been deprived of his livelihood;

Agricultural land includes lands being used for the purpose of

- i) Agriculture or horticulture;
- ii) Dairy farming, poultry farming, pisciculture, breeding of livestock or nursery growing medicinal herbs;
- iii) Raising of crops, grass or garden produce; and land used by an agriculturist for the grazing of cattle, but does not include land used for cutting of wood only

**Census**: is a data collection technique of completing enumeration of all Project Affected Families and their assets through household questionnaire.

**Compensation**: means payment in cash or in kind to replace losses of land, housing, income, and other assets caused by a project.

**Cut-off date**: This refers to the date prior to which the project affected family was in possession of the immovable or movable property within the affected zone.

**Entitlement**: is defined as the right of project affected persons (PAPs) to receive various types of compensation, relocation assistance, and support for income restoration in accordance with the policy provisions.

**Entitlement Matrix** is a table to define different nature of PAPs losses and compensation packages and other relocation assistance.

**Family** includes a. person, his' or her spouse, minor sons, unmarried daughters, minor brothers, unmarried sisters, father, mother and other relatives residing with him or her and dependent on him or her for their livelihood; and includes "nuclear family" consisting of a person, his or her spouse and minor children

**Project Affected Persons (PAPs)**: indicates any person being as it may an individual, a household, a firm or a private or public who, on account of the execution of the project, or any of its components or sub-projects or parts thereof would have their right, title or interest in any house, land or any other asset acquired or possessed, in full or in part; or business, occupation, work, place of residence or habitat adversely affected; or standard of living adversely affected, including the follows.

**Rehabilitation (Income restoration/Livelihood restoration)**: means the process to restore income earning capacity, production levels and living standards in a longer term.

**Replacement cost/value**: Replacement cost is the cost of purchasing comparable assets elsewhere by the affected person in lieu of the acquired land, buildings, structures, and other immovable assets, etc.

**Socio-economic survey**: is carried out in order to prepare profile of PAPs and to prepare for Resettlement Action Plan. The survey result is used (i) to assess incomes, identify productive activities, and plan for income restoration, (ii) to develop relocation options, and (iii) to develop social preparation phase for vulnerable groups.

#### 1. INTRODUCTION

#### 1.1 PROJECT AREA AND PROJECT COMPONENTS

The Study Area is located on Remera Sector and Rurenge Sector, Ngoma District of Eastern Province. Their administrative border runs at the bottom of a valley in the Province. The Study Area includes Ndekwe Cell and Bugera Cell in Remera Sector as well Rujambara Cell and Muhurire Cell in Rurenge Sector. Rugese Cell in Remera Sector is not within the Study Area, however, some persons from the Cell have cultivated in the area to be submerged. Any villages are not located in the part of valley where the construction of the reservoir is planned, therefore, no house will be sunk under water of the planned reservoir.

The planned activities consist of:

- Construction of reservoir
- Construction of irrigation canals
- Installation of solar system and pump stations
- Land husbandry works (to be covered by Government of Rwanda)
- Plot construction of the paddy field

The Irrigation project has following key information:

#### (1) Beneficial Area: 300ha in total

• Gravity Irrigation Area: 165ha

• Pumping Irrigation Area: 100ha

• Paddy field: 35ha

#### (2) Water Resources Facilities

• Reservoir (Homogeneous embankment dam, height of 14.9m, Crest length: 190m

• Reservoir capacity: 960,000m<sup>3</sup>

#### (3) Irrigation Facilities

• Main canal with wet masonry: 20km

• Pipeline canal: 8km

- Secondary canal
- Pumping station
- Solar system

#### (4) Plot Construction in the paddy field in the downstream

- Plot construction
- Road construction

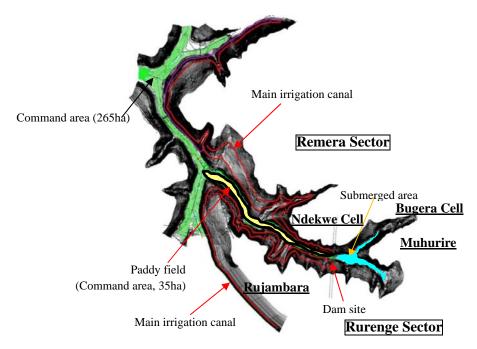


Figure 1 General Irrigation Plan THE RAP

#### 1.2 SCOPE OF THE RAP

The aim of the abbreviated Resettlement Action Plan (RAP) report is to develop an action plan that ensures that the Project Affected Persons (PAPs) livelihoods and standards of living are improved or at least restored to the original level by the project. The RAP for Ngoma 22 is developed in accordance with the WB OP 4.12, "JICA Guidelines for Environmental and Social Considerations" and National Regulations, which is guided by the Resettlement Policy Framework (RPF) developed under the MINAGRI project.

The scope of work undertaken during the RAP preparation included:

- Project description;
- Analysis of the objective of resettlement programs;
- Analysis of the legal framework;
- Analysis of institutional framework covering the identification of agencies responsible for resettlement activities.
- Analysis of potential project impacts through identification of the PAPs, estimating their number and evaluating the impacts of the project on them;
- Conducting social-economic studies including census surveys, land tenure and transfer systems;
- Consultation with PAPs;
- Grievances handling mechanism that ensures affordable and accessible procedures for settlement of disputes arising from the project;
- Organizational responsibilities concerned to the project for the proper RAP implementation and delivery of necessary services;

- RAP Implementation schedule covering all activities from preparation stage to monitoring;
- Cost and financial source; and
- Monitoring and evaluation mechanisms arrangements by the implementing agency.

#### 1.3 METHODOLOGY

The RAP preparation includes desk study and field survey in the affected area. The desk study involved review of previous study documents and analysis of the proposed project maps; and field surveys to establish the location of the proposed reservoir, irrigation canals and related infrastructure. The document consulted include Data Collection Survey on Irrigation Development in Ngoma District of Eastern Province in Rwanda, JICA, 2012, the RPF for MINAGRI and RSSP, the WB OP 4.12, JICA Guideline for Environmental and Social Considerations and National Regulations in regards to expropriation, compensation and land ownership. The field survey consisted on conducting household census of identified PAPs; conducting baseline socio-economic survey as well as measurement of lands and crops which are likely to be affected. Discussions with PAPs and key stakeholders including MINAGRI staffs, district administration, local authorities were also another tools used along the preparation of this RAP.

#### 2. LEGAL AND INSTITUTIONAL FRAMEWORK

Available laws, regulations, policies, which guide the land acquisition and compensation, crop and assets compensation, present mechanisms for conflict resolution and appeals. They also provide applicable legal and administrative procedures including remedies available to displaced persons in the judicial process and the normal time frame. There are several enactments all governing land and transactions of land in the country.

#### 2.1 NATIONAL REGULATIONS RELATED TO RESETTLEMENT

This part describes national institutional, legal and policy framework for resettlement requirements in Rwanda, applicable to the project as well as the international provisions.

#### The Rwanda Constitution

The constitution is the supreme law of the land. Under Article 29 of the Rwanda constitution, every citizen has a right to private property, whether personal or owned in association with others. Further, it states private property, whether individually or collectively owned, is inviolable. However this right can be interfered with in case of public interest, in circumstances and procedures determined by law, and the citizens are subject to fair and prior compensation.

Article 30 stipulates that private ownership of land and other rights related to land are granted by the State. The constitution provides that a law should be in place to specify modalities of acquisition, transfer and use of land (refer to the Expropriation Law). The constitution also provides with a healthy and satisfactory environment. In the same breath, every person has the duty to protect, safeguard and promote the environment. The State also shall protect the environment.

#### Law N° 18/2007 of 19/04/2007 relating to Expropriation in the Public Interest

"Law N° 18/2007 of 19/04/2007 relating to Expropriation in the Public Interest" (hereinafter "Expropriation Law") determines the procedures relating to expropriation of land for the interest of the public. Article 3 of the law stipulates that it is only the government that has authority to carry out expropriation. However all kinds of the projects, at any level, which intend to carry out acts of expropriation for public interest, shall allocate funds for a census survey and asset inventory of the persons to be expropriated and for just compensation by means of implementer's budget.

According to the law mentioned above, no person shall hinder the implementation of the program of expropriation on pretext of self-centered justifications and no land owner shall oppose any underground or surface activity to be implemented on his/her land with an aim of public interest. In case it causes any loss to him or her, he or she shall receive just compensation for it. The law identifies properties to be valued for just compensation to be land and activities that were carried out on the land including different crops, forests, any buildings or any other activity aimed at efficient use of land or its productivity. Here the law is silent on access to economic activities on the land.

## $N^{\circ}$ 08/2005 of 14/07/2005 Organic Law determining the use and management of land in Rwanda

"N° 08/2005 of 14/07/2005 Organic Law determining the use and management of land in Rwanda" determines the use and management of land in Rwanda. It also institutes the principles that are to be respected on land legal rights of any land in the country as well as all other appendages whether natural or artificial.

According to the Law, Land in Rwanda is categorized into two: Individual land and Public land. The latter is subdivided into two categories: the state land in public domain and the state land in private domain. State land in public domain includes national land reserves for environment conservation; land over which administration building are erected, statedam, land containing lakes, rivers, stream and springs. State land in private domain include swamps that may be productive in terms of agriculture, vacant land with no owner, land purchased by the State, donated lands, land acquired through expropriation and land occupied by state owned forests. Land in Rwanda is predominantly individual land in general.

The law gives the owner of land full rights to exploit his or her land in accordance with the existing laws and regulations. The law also provides for expropriation through article 56 which stipulates that land expropriation can be undertaken if it's for public interest. Article 29 of the law states that swamp land belongs to the state and no person can use the reason that he or she has spent a long time with it to justify the definitive takeover of the land. The definition of the swamp in this case, is not very clear and the law gives the Minister in charge authority to identify and determine these swamps, use structures and boundaries.

## N°17/2010 of 12/05/2010 Law Establishing and Organizing the Real Property Valuation Profession in Rwanda

"N°17/2010 of 12/05/2010 Law establishing and Organizing the Real Property Valuation Profession in Rwanda" stipulates conditions for registration of land valuers in Rwanda and. The law also allows the Government to conduct valuation when mandated by their government institutions. Articles 27, 29, 30 and 31 of the law deal with valuation methods.

These articles stipulate that price for the real property shall be close or equal to the market value. The valuation could also compare land values country wide. Where sufficient comparable prices are not available to determine the value of improved land, the replacement cost approach shall be used to determine the value of improvements to land by taking real property as a reference. The law also allows the use of international methods not covered in the law after approval by the Institute of Real Property Valuers in Rwanda. This law is in conflict with the ministerial order on determining land prices in and outside Kigali which sets reference prices of land.

# Presidential Order $N^{\circ}$ 54/01 of 12/10/2006 Determining the Structure, the Responsibilities, the Functioning and the Composition of Land Commissions

"Presidential Order  $N^{\circ}$  54/01 of 12/10/2006 Determining the Structure, the Responsibilities, sates that the Land Commission at the district level shall exercise its authority in the entire district, and is composed of the following five (5) members, whose responsibilities include land administration and land use management (Article 18).

# Ministerial Order $N^{\circ}002/2008$ of 01/4/2008 Determining Modalities of Land Registration

"Ministerial Order N°002/2008 of 01/4/2008 Determining Modalities of Land Registration" mentions to the responsibilities and function of the District Land Bureau. Their roles are to implement land registration, manage lands, update of land registration data, keep records of land, monitor, approve valuation of land and other immovable property, demarcate lands and approve land cadastral. This Order is not applied to the land specified in articles 12, 14, 15 and 72 of the "Organic Land Law No.8/2005 of 14/07/2005 determining the use and management of Land in Rwanda".

# Ministerial Order No 002/16.01 of 2010 on Determining the Reference Land Price Outside Kigali City

"Ministerial Order No 002/16.01 of 2010 on Determining the Reference Land Price Outside Kigali City" presents reference land prices to be used in areas outside Kigali City. This order aims at protecting land owners from exploitation and to prevent land speculation when the market is not developed. However, the order seems to have been applied often. It is because that the valuation law instructs to apply independent market prices for land valuation.

#### Ministerial Order 002/2008 Determining Modalities for Land Registration

Annex 3 of the "Ministerial No. 002/2008 of 2008 Determining Modalities of Land Registration" provides for dispute resolutions procedures and some provisions related to the cell adjudication committee. Articles 17, 20, 22, and 23 provide the process for resolving disputes. Article 17 grants parties to a dispute, the right to take that dispute to the mediation committee. That article also provides that where a dispute arose during demarcation and adjudication but, with the assistance of the cell adjudication committee (CAC), the parties were able to resolve the dispute, the parties are bound by that agreement, and may not later attempt to raise the issue. Article 20 provides procedures for the CAC when hearing disputes, including that the hearing is open to the public and announced eight days in advance, among other requirements. The CAC is comprised of all five members of the cell land committee and five members of the particular *Umudugudu* where demarcation and adjudication is taking place. The cell executive secretary acts as the CAC secretary,

although he or she has no voting rights. This order can be used to resolve resettlement conflict at the sub project area.

#### N° 43/2013 of 16/06/2013 Law governing Land in Rwanda

In Recent years with the principal of Good Governance that the government has made a priority, law determines modalities of allocating, acquisition, transfer, use and management of land in Rwanda as land is being scarce since Land resources are not increasing while the population growth remains high. In this back ground that the government of Rwanda through the Ministry of Natural Resources has found imperative to ensure both rational use and prudent management of land.

To achieve this noble objective, the Government of Rwanda has reviewed the "Organic Law n° 08/2005 of 14/07/2005 determining the use and management of land in Rwanda". The revision was mainly transform the Organic land Law into ordinary law in order to comply with the provisions of the constitution of the Republic of Rwanda. In addition, various weaknesses in the Organic land Law which made its application difficult, have been addressed. The new Land law is found as a long term solution as it takes into consideration all aspects of the Land policy which has been adopted by the government of Rwanda in 2004.

#### 2.2 CATEGORIES OF LANDS IN RWANDA

The Organic Land Law No 08/2005 of 14/7/2005 amended in 2013 categorizes land via two criteria: (1) Land Use and (2) Land Ownership. Land Use (Article 9) is split into two categories: urban lands and rural lands. Urban lands are defined as lands confined within the legal boundaries of towns and municipalities as well as lands in suburbs and collective settlements of towns and municipalities. Any other land is rural land.

Land ownership is divided into the following categories: individual owned lands and State lands (whether urban or rural). Article 11 provides that individual land is comprised of land acquired through custom, written law, acquisition from competent authorities, purchase, gift, exchange and sharing. State lands are further categorized into two subcategories: public domains and private State owned lands (Articles 12 and 13). State land for public domain comprises land reserved for public use, for use by organs of state services or for environmental protection. Private state owned land consists of all other state owned land not considered to be part of public domain.

#### **Land Tenure Legal Provisions in Rwanda**

The Organic Land Law also provides two types of formal land tenure: full ownership/ freehold and long term leasehold. Following the recent privatization 09/04/2007 of State owned lands, very few land users currently hold either type of land tenure. Therefore, the Organic Land Law recognizes existing rights, whether written or unwritten, under both civil lawx and customary practices through new national land tenure arrangements. Efforts are being made under the Law (Article 7) to formalize land ownership, especially those acquired through customary means. For instance, rural populations with customary/ indigenous land rights are being encouraged to register their land through decentralized land institutions like the District Land Bureau, Sector Land Committees and Cell Land Committees (Ministerial Order N° 001/2006 of 26/09/2006 determining the structure of Land Registers, the responsibilities and the functioning of the District Land Bureau). All

types of land tenure must be in compliance with the designated land use and environmental protection measures as outlined in the Land Use Master Plan.

#### **Private Lands**

According to Article 10 of "N° 43/2013 of 16/06/2013 Law Governing Land in Rwanda", Private individual land shall comprise land acquired through custom or written law. That land has been granted definitely by competent authorities or acquired by purchase, donation, inheritance, succession, ascending sharing, and exchange or through sharing. This Law offers equal protection to rights over land resulting from all channels stipulated in the preceding paragraph.

#### **Property Laws**

Laws on property are found in various legal texts of Rwanda including the Rwandan Constitution which recognizes every person's right to private property (Article 29). Consequently, private property, whether individually or collectively owned is inviolable. Exceptionally, the right to property may be overruled in the case of public interest. In these cases, circumstances and procedures are determined by the law and subject to fair and prior compensation (Article 29).

In addition, the present Organic Land Law sets a legal framework for property law under articles 5 and 6 which provides for full ownership of land and permits any person that owns land (either through custom or otherwise), to be in conformity with the provisions of this law. It is important to observe however that full ownership of land is only granted upon acquisition of a land title issued by the general land registrar authority. Once the efforts to provide proper land tenure documentation are completed, ownership of land without proper documents such as land title will not be deemed lawful land ownership and thus in event of circumstances like expropriation, one will not be able to benefit from a fair and just compensation package.

#### **Eligibility for Compensation**

Eligibility for compensation is enshrined under the Rwandan Constitution (Article 29) and the Expropriation Law. The two laws regulate and give entitlement to those affected, whether or not they have written customary or formal tenure rights. The person to be expropriated is defined under article 2 (7) of the Expropriation Law to mean any person or legal entity who is to have his or her private property transferred due to public interest, in which case they shall be legally entitled to payment of compensation.

#### **Compensation Measures**

In case an individual suffers any loss, Article 3 of the Expropriation Law stipulates that he or she should receive just compensation for it, although it is not clear what comprises fair and just compensation, this being left to the judgment of independent valuers. Through mutual arrangement, both parties can determine the mode of payment. Article 22 (2) of the of the Expropriation Law provides that through an agreement between the person to expropriate and the one to be expropriated, just compensation may either be monetary, alternative land or a building equivalent as long as either option equates to fair and just monetary compensation. In case the determination of 'just' compensation exceeds in value the alternative land given to the expropriated person, the difference will be paid to the expropriated person.

#### **Land Assets Classification and Valuation**

A land holder whose assets to be expropriated shall be entitled to payment of compensation for land and other assets, plus compensation relating to all activities resulting in any improvement to the land. Land and other assets are classified into two categories: movable and immovable assets, both of which are eligible for compensation. For movable assets, compensation relates to inconveniences and other transition costs caused in the process of relocation. Immovable assets include: crops, forests, any building or other activity aimed at efficient use of the land, the value of land, and the activities thereon that belong to the person expropriated.

The valuation is made considering the size, nature and location of land as well as the prevailing market price. The amount of compensation for property is determined on the basis of the replacement cost of the property. Prior to the 2005 Organic Land Law, as all land was State owned, buying and selling of land was not permitted. Following the recent restructuring of Land legislation, people now have the right to claim ownership and trade in newly-privatized lands. However, the decrees supporting this aspect of the 2005 Organic Land Law are not yet fully implemented, and awareness is currently perceived to be low among the population such that appropriate market prices for land have yet to be established.

#### 2.3 INSTITUTIONAL FRAMEWORK

In Rwanda, there is no specific institutional arrangement regards to resettlement activities. The institutional framework for environmental and Social management is currently enshrined in the Organic Law determining the modalities of protection, conservation and promotion of the environment in Rwanda, published in the Official Gazette RWA  $N^{\circ}$  9 of the 1st May 2005, particularly in its chapter III relating to the establishment of the institutions, the 2013 land law and 2007expropriation law.

#### Ministry of Agriculture and Animal Resources (MINAGRI)

Ministry of Agriculture and Animal Resources (MINAGRI) is the implementation agency and it is also the main agency involved in preparation and implementation of this RAP. While JICA will finance the construction of irrigation infrastructure, the MINAGRI will finance resettlement activities. It will act as the central agency responsible for holding all information relevant to the RAP.

As there is no any new Single Project Implementation Unit (SPIU) to be established for Ngoma 22 project, the MINAGRI may assign one of existing SPIU members for other LWH project members for the RAP implementation of Ngoma 22 project. The role of the designated SPIU will coordinate monitoring activities, maintenance of monitoring information, building the capacity of other stakeholders in collection and analysis of monitoring data. He/she will be the focal person and he/she will liaise with other stakeholders to executive the RAP.

#### **Ministry of Natural Resources (MINIRENA)**

MINIRENA governs the implementation and application of the Organic Land Law and the Land Use Master Plan. While the MINIRENA deals with overall land policy and the alignment with these laws at the national level, responsibilities for their implementation locally has been devolved, following decentralization, to Land Commissions and Committees at District, Sector and Cell levels. MINIRENA is also the key ministry governing resettlement arrangements in

Rwanda through the Land Bureaus. The ministry plays a critical role to ensure that appropriate and consistent compensation is provided to all project affected persons.

#### **Rwanda Environment Management Authority (REMA)**

Rwanda Environment Management Authority (REMA) was established in 2004 to act as the implementation organ of environment-related policies and laws in Rwanda. REMA coordinates different environmental and social protection activities, to promote the integration of environmental consideration in development policies, projects, plans and programs; to coordinate implementation of Government policies and decisions taken by the Board of Directors; to advise the Government with regard to the legislation and other measures relating to environmental management or implementation of conventions, treaties and international agreements relevant to the field of environmental and social issues as necessary; to make proposals to the Government in the field of environmental policies and strategies; etc.

#### Rwanda Development Board (RDB)

RDB was created by Organic Law N° 53/2008 of 02/09/2008. It has a mission of improving the well-being of all Rwandans by fast-tracking development, catalyzing sustainable economic growth, and creating prosperity for all. According to the recent restructuring of government institutions, the RIEPA, ORTPN and CAPMER were merged to form RDB. The responsibility of follow-up of environmental and social impact assessment studies is now under RDB.

#### Rwanda Natural Resources Authority (RNRA)

RNRA through its department of Land administration and Mapping is the organ responsible for overall management and coordination of all activities related to land administration, land use planning and management in Rwanda. The role of RNRA in RAP process is to advise on matters related to land ownership and expropriation. District land bureau in close collaboration with project staff will check and approve surveys, various maps and approve land surveys carried out during the RAP exercise.

#### **Ngoma District**

The article 66 of the "N° 04/2005 of 08/04/2005 Organic Law determining the modalities of protection, conservation and promotion of environment in Rwanda" specifies to establish committees which are responsible for conservation and protection of the environment at the Provincial, District, Town, Sector and the Cell levels. The executive committee of the District is responsible to initiate the expropriation and District Council implements the expropriation after considering the decision of the Land Commission (Expropriation law, 2007). Ngoma district manages lands through the District Land Bureau. The bureau will be responsible for activities undertaken comply with the National and District level Land Use Master Plans and will assess the validity of land tenure rights of affected persons. In addition the officer will be responsible for ensuring effective grievance handling in order to reduce disputed or grievances. Their activities will be monitored by the District authority.

#### 2.4 WORLD BANK INVOLUNTARY RESETTLEMENT RELATED POLICIES

The WB involuntary resettlement related policies are also critical in preparation and implementation of this RAP. The main objectives of the WB O.P. 4.12 Involuntary Resettlement to avoiding or minimize involuntary resettlement where feasible, exploring all viable alternative project design; where it is not feasible to avoid resettlement, resettlement

activities should be conceived and executed as sustainable development programs, to provide sufficient investment resources to give the persons displaced by the project the opportunity to share in project benefits.

Displaced persons should be meaningfully consulted and have opportunities to participate in planning and implementing resettlement programs. Those displaced persons should be assisted to improve their livelihoods and standards of living or at least to restore them, in real terms, to pre-displacement levels or to levels prevailing prior to beginning of project implementation, whichever is higher. Specifically, the production systems of a community are safeguarded to the extent to guarantees their livelihoods and that their skills base remain relevant regardless of the resettlement site. The policy objectives are also designed to minimize kinship group dislocation that might subject the affected persons to unfair competition when mutual help is diminished or lost.

It is necessary to promote public participation, by evaluating project alternatives to enable minimize involuntary resettlement and developed an entitlement matrix to guide in calculation of resettlement and replacement costs.

#### 2.5 JICA GUIDELINES FOR ENVIRONMENTAL AND SOCIAL CONSIDERATIONS

Ngoma 22 hillside irrigation project will be funded by Japan Government through Japan International Cooperation Agency (JICA) and it is very important to consider the JICA Guidelines for Environmental and Social Consideration in preparation and implementation of the RAP. The JICA Guideline (2004) is applied for the project. The key principle of JICA's policy on involuntary resettlement is summarized below:

- a. Involuntary resettlement and loss of means of livelihood are to be avoided when feasible by exploring all viable alternatives.
- b. When population displacement is unavoidable, effective measures to minimize the impact and to compensate for losses should be taken.
- c. People who must be resettled involuntarily and people whose means of livelihood will be hindered or lost must be sufficiently compensated and supported, so that they can improve or at least restore their standard of living, income opportunities and production levels to pre-project levels.
- d. Appropriate participation by affected people and their communities must be promoted in the planning, implementation, and monitoring of involuntary resettlement plans and measures against the loss of their means of livelihood.

#### Table 1 Gap between Rwandan Laws and IICA Guideline

JICA Guideline (2004)	Rwandan regulation	Remarks
<ul> <li>Involuntary resettlement and loss of means of livelihood are to be avoided when feasible by exploring all viable alternatives. (JICA GL)</li> <li>When population displacement is unavoidable, effective measures to minimize impact and to compensate for losses should be taken. (JICA Guideline)</li> </ul>	Ü	

- People be resettled to involuntarily and people whose means of livelihood will hindered or lost must be sufficiently compensated and supported by project proponents, etc., in a timely manner. Project proponents must make efforts to enable people affected by projects to improve their standard of living, income opportunities and production levels, or at least to restore them to pre-project levels.
- There is no mention in laws to restore or improve living standard of the affected persons. compensation may monetary or an alternative land and a building equivalent to the determination of just monetary compensation (Article 23 of the Expropriation Law). persons who cultivate in national lands are not qualified for compensation.
- Monetary compensation will be provided to the persons to be expropriated their private lands. Those who cultivate in national lands are not compensated. It is proposed to provide technical supports and to employ them as labors for construction works with high priority, aiming at minimization of the impact on their livelihood.

- Appropriate participation by affected people and their communities must be promoted in the planning, implementation, and monitoring of RAPs and measures to prevent the loss of their means of livelihood (JICA Guideline)
- Public consultation is needed to be organized and the result must be included in Environmental Impact Assessment process (General Guidelines and Procedures for Environmental Impact Assessment, 2006).
- of consultation series meetings to explain negative impacts and mitigation measures to the affected persons has already been organized and the participants agreed on the proposed plan. Representatives the affected persons will participate in monitoring activities

- Particular attention must be paid to the needs of the vulnerable groups among those displaced, especially those below the poverty line, landless, elderly, women and children, ethnic minorities, etc.
- It is general to pay consideration to vulnerable group according to the Rwandan context, even though there is no mention in the Expropriation Law.
- Vulnerable and project affected people have high priority to be employed for the construction works.

#### 3. SOCIO- ECONOMIC ANALYISIS IN PROJECT AREA

#### 3.1 ADMINISTRATIVE DIVISION OF THE STUDY AREA

The Study Area is located in Ngoma District of Eastern Province, and the district of Remera Sector and Rurenge Sector belong to this Province. Their administrative border runs at the bottom of a valley in the Province. The Study Area includes Ndekwe Cell and Bugera Cell in Remera Sector as well Rujambara Cell and Muhurire Cell in Rurenge Sector. The valley, where the construction of the reservoir is planned, is governmental land and there is no residential area. Therefore, no house in these villages will be sunk under water of the planned reservoir.

#### 3.2 POPULATION

The Study Area is located in Ngoma District of Eastern Province, the district has 738km² of area which accounts for 2.8 % of whole area of Rwanda and 290,679 population¹. More than 90% of the residences engage in farming and agriculture is dominantly important industry in the district. The irrigation command area is located on Ndekwe Cell and Rujambara Cell. The beneficiaries reside in five cells, namely, Rujambara, Rugese, Ndekwe, Rujambara and Muhurire as shown following figure.

<sup>&</sup>lt;sup>1</sup> Source: District Development Plan 2008-2012 and Development Study for the Improvement of Rural Water Supply

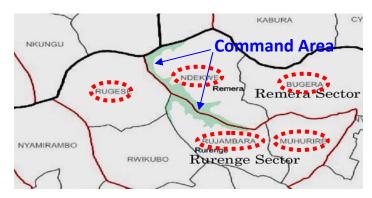


Figure 2 Locations of Command Area and Cells Concerned

Most of these villages are located on hilly area situated at higher elevation than 1,400m. These villages are not located in the part of valley where the construction of the reservoir is planned. Therefore, no house in these villages will be sunk under water of the planned reservoir. Following table shows population of concerned cell by village.

**Table 2 Population of Concerned Cells** 

Cartan Call William			No. of	No. of
Sector	Cell	Village	households	population
Rurenge	MUHURIRE	NYAMATA	304	1,369
		GITOBE	168	784
		GISUNZU	169	696
		GASHINYA	77	353
		AGATONERIO	88	422
	Sub Total		806	3,624
Rurenge	RUGESE	KAJEVUBA	188	547
		KAMWIRU	310	1,225
		KUMUNINI	92	412
		NYAMIGENDE	198	585
		RUGARIKA	185	813
		RWAKANUMA	176	714
		KIYANJA	443	1,726
	Sub Total		1,592	6,022
Rurenge	RUJAMBARA	AKARAMBARAYE	142	620
		MASHYOZA	196	803
		KABEZA	119	497
		MBONWA	139	610
		NYABANGA	119	517
		URUSAGARA	315	1,326
	Sub Total		1,030	4,373
Remera	NDEKWE	RUKORE	322	1,216
		GIKOMERO	163	661
		RUGANDO	285	1,154
		RWAMUTABAZI	335	1,425
		RUHUHA	237	979
		ICYAKABIRI	296	1,194
	Sub Total		1,638	6,629
Remera	BUGERA	GASEBEYA	130	580
		KABEZA	134	672
		MUNINI I	134	502
		NKENKE	87	377
		RWESERO	114	540
		KUMUKIZA	156	657
		RUBUMBA	187	748
		GATARE	178	770

Sector	Cell	Village	No. of households	No. of population
		GISUNZU	157	743
		MUNINII	126	540
		KIYOVU	195	863
	Sub Total		1,598	6,992

Source: Remera Sector Office, 2012

#### 3.3 EDUCATION

Four primary schools have been established and maintained in the Study Area, namely: Nyabaganza, Urusagara, Gitobe and Gikomero. Also, a middle school is distributed in each Cell in Ndekwe and Bugera Cells but no middle school has been established in two other cells, namely Rujambara and Muhurire Cells. After graduating from primary schools, students in Rujambara Cell commute to middle school of Rugese Cell that is situated about 20km away from their homes, and in the case of Muhurire Cell, they commute to that of Kabuya Cell, 10km distant from their residences. Numbers of children by gender and enrollment rates in 3 primary schools are estimated.

#### 3.4 HEALTH CENTER

The nearest available clinic facility for villagers in rural villages in Rwanda is Health Post. Two nurses work in a Health Post with 2-shift working hours of daytime and night services. Simple examination and treatments for malaria etc. and practices of infantry vaccination program are implemented. Besides, a system has been operated by which patients are transported to Health center in each Cell in emergency cases. Health Centers have been established in each of Cells including Ndekwe, Muhurire and Bugera, however, it has not yet been created in Rujambara Cell. In emergency cases, transport network system connecting to district hospitals has also been available.

#### 3.5 ELECTRICITY

According to field survey 37% of household in project area has benefited the rural electrification program and have access to electricity, since electricity has been promoted in rural area by the Government recently.

#### 3.6 ROADS / TRAFFIC

The trunk road passing from Kigali City to the project is unpaved section within Remera Sector and there is no paved road in and around the project site. As for traffic means for the people, regular transport services like public buses have not been available. Traffic/transport by motor bikes can be observed, but bicycles are most popularly diffused and they are used as means of transporting/marketing local agricultural products.

#### 3.7 DOMESTIC WATER SUPPLY

While tap water has been supplied only a limited part of the Study Area, the people depend on manual fetching of fountain water from fountains in the valley. Most of the people utilize rain water and public piped water in rainy season, while they use public tube wells or shallow wells in dry season. Water fetching labor depends on the living environment, usually women carry water in polyethylene tanks of the content 20 liters on their heads 3 to 4 times a day. At the same time, children also fetch water in polyethylene tanks of the content of 5 to 10 liters.

#### 3.8 MAIN INCOME

The beneficiary area is farmland, where sorghum, beans, cassava, cabbage, tomato, rice and so on are cultivated. Most of the people in the area make living by farming. The farmers harvest their farming products two times per year both in marshland and hillside. There is no irrigation system such as irrigation canal for farming, therefore, the productivity and income can be fluctuated depending on amount of rainfall. Some of them get income from livestock, labor work, carpenter's works and so on, however, such income sources account for small portion in their total income.

#### 4. ASSESMENT OF PROJECT AFFECTED PERSONS AND RESETTLEMENT IMPLICATIONS

#### 4.1 ELIGIBILITY

Due to construction of reservoir and irrigation canals by the project, parts of farmland will be submerged or expropriated and some standing crops, especially, perennial crops will be damaged. On the other hand, there are no houses, offices, shops to be relocated by the project, there is no case of resettlement. It is essential to define eligibility criteria for the compensation package preparation. At first, PAPs were identified by the field survey and confirmed on the map. After that, a census survey including asset survey targeting the PAPs who cultivate in the submerged area was implemented in November 2013. PAPs considered to be eligible for compensation are as follows:

- Persons those who may lose trees and crops located on required land for the construction of irrigation infrastructures;
- Farmers that are currently using the hillside to be expropriated, including those who
  don't have land titles, will be requested to present any recognized evidence that testify
  their ownership of the land; and
- Farmers that are currently using the marshland to be submerged.

#### **4.2 ENTITLEMENT MATRIX**

Taking consideration into the JICA guideline and Rwandan regulations, entitlement matrix of the project is prepared as illustrated in following table, which indicates compensation measures to restore livelihoods impacted by the loss of land and crops. The area to be affected was calculated on the map and number of trees to be damaged was counted by means of an asset survey.

**Table 3 Entitlement Matrix** 

Type of Loss	No of PAPs	Qty	Eligibility Criteria	Entitlement
Loss of private	53HH	6.56ha	Owners of land where	Cash compensation for
lands in the			the reservoir will be	loss of land
proposed			constructed	
reservoir site				
Loss of private	719HH	13.98 ha	Owners of land where	Cash compensation for
lands along canals	(=389 for		the reservoir will be	loss of land
	main canal		constructed	
	and 330 for			
	secondary			
	canal)			
Loss of	160HH	15.17ha	Current users of	Support e.g. training
Government land			affected marshlands	implementation of

Type of Loss	No of PAPs	Qty	Eligibility Criteria	Entitlement
in marshlands				agriculture, employment during
				construction
Loss of Government land in the paddy field	332НН	Around 1.6ha of the paddy field	Current users of affected paddy field	Employment as labors during construction and implementation of technical training
Loss of perennial trees and food crops	Not identified	-	Various rights and interest holders Share croppers and Lessees	Cash compensation for loss of perennial crops
Vulnerable people	Not identified	-	Older, handicapped, marginal and others	Employment during construction and technical training
Total	1,220HH	35.71ha		

Source: JICA Study Team

Following figures show location of farmlands to be affected covering whole study (upper) area and submerged area (down).

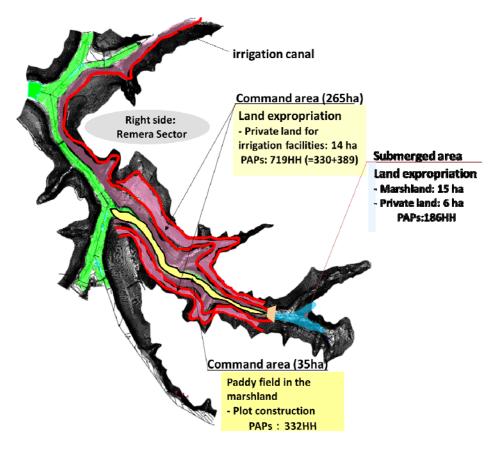


Figure 3 Project Affected Areas and Persons

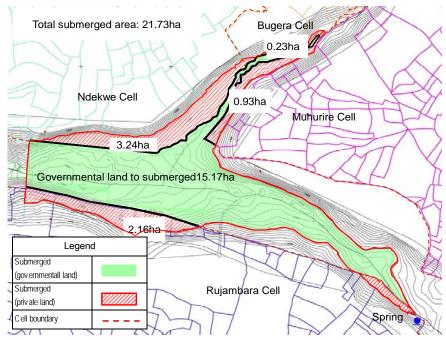


Figure 4 Location of the Submerged Area

#### **4.3 CUT-OFF DATE**

Census survey including socio-economic survey targeting 186 households of PAPs and standing tree inventory survey were implemented from October to November 2013, However, those results will be expired before compensation, since the project of Ngoma 22 will be implemented more than one year later. Before land expropriation, the final census will be conducted to identify all PAPs and their assets to be impacted by the project.

The date that the final census begins is regarded as the cut-off date for eligibility for compensation. It is important that this date is fully communicated to all potential PAPs in the project affected area through the Sub-project Resettlement and Compensation Committees. The community leaders and representatives concerned are requested to notice to their members about the established cut-off date and its significance. The potential PAPs will be informed through both formal notification in writing and by verbal notification.

After the census is undertaken, the lists will be verified and validated by the Sector/ Cell and community leaders. If there are unclearly owners/users of land or assets, the Cell/ Sector and District Land Bureaus will notify the community leaders and representatives to assist them for identification of the land owners/users. Once land users are identified, their details and eligibility will be submitted to the Resettlement and Compensation Committee. Once they are verified, they are regarded eligible for compensation. The establishment of a cut-off date is to prevent from invasions/rush migration into the chosen land areas. Persons who encroach on the area after the cut-off date are not entitled to compensation. The format of final census is attached in Annex 1.

#### 4.4 METHODS OF ASSETS VALUATION

The proposed reservoir site and the alignment of irrigation canals will give impact on mostly farm lands and crops since no houses will be resettled. A provisional census survey targeting the 186 households (15% of total PAPs) who cultivate in the submerged area was conducted.

They live in mainly five Cells, namely, in Ndekwe, Muhurire, Rujambara, Rugese and Bugera1. Most of villages in Remera Sector and Rurenge Sector have 500 - 1,000 populations and the people earn their living by farming. The affected farmlands are located on along the Rwabishanyi River which flows between Remera Sector and Rurenge Sector, which means that meteorological and geological conditions are very similar. Moreover, agricultural conditions are almost same due to no irrigation system in the area. Therefore, it can be judged that bias will not be caused even if only the 186 households are targeted as the census survey.

The affected private farmland area is estimated on the survey map and considering length of canal. Moreover, the number of standing perennial crops such as fruit trees to be affected was counted at the site. After the final census survey, the affected lands and assets will be valued and compensated based on the laws and the RAP.

#### 4.5 RESULT OF HOUSEHOLD SURVEY

A household survey targeting PAPs who cultivated in the submerged area was conducted as mentioned before. The affected 186 households is composed of 489 men and 500 women (in total 989 persons) and average number of family member is 5.3 per household. It can be estimated that the total population of all PAPs (1,220 households) is 6,466, if the mean value of number of family member mentioned above is applied.

Annual household cash income of the surveyed families is around Rwf 400,000 on average. The amounts vary widely, from around Rwf 10,000 to more than Rwf 1,000,000. Major income source of them is farming, while some households earn incomes from livestock, carpentry, labor works and so on. Average annual cash income of the affected persons is as shown below:

Table 4 Annual Cash Income of PAPs due to Dam Construction

(Unit: Rwf/vear/HH)

		110)	it. Kwi/yeai/nn
Item	PAPs who cultivate in the marshland (160HH)	PAPs who cultivated in the hillside (53 HH)**	Average (186HH)
Farm income	345,963	442,516	366,173
Other income	38,325	49,471	37,484
Total	384,288	491,587	403,657
Mean farmland area (ha/HH)	0.79	1.27	0.90

<sup>\*</sup> There is a big scale farmer who owns 7.9ha land and the household was excluded from the average calculation.

Source: JICA Study Team, 2013

The mean land holding area of the PAPs is 0.9ha and major crops in the hillside are maize, sweet potato, cabbage, carrot, tomato, coffee, soy bean, cassava and so on. On the other hand, sweet potato is mainly cultivated in the marshland. In general, the farmers harvest twice per year in both marshland and hillside. The affected persons have stayed in the area for many years, only 10 households out of 186 have stayed less than 20 years. Most of the people utilize rain water and public piped water in rainy season, while they use public tube wells or shallow wells in dry season. Most of heads of families could not have education opportunities, 76 households out of 186 answered that they have never been to school.

<sup>\*\*</sup> It includes overlapped households who cultivate in marshland and hillside to be submerged.

<sup>&</sup>lt;sup>1</sup> Only one household who lives in Musha Cell will be affected by the project.

In the marshland to be submerged, 11.3ha out of 15.17ha is cultivated actually, average cultivation area per household is 0.07ha. Degrees of reliance on the farming in the marshland vary depending on the families, and the farming areas in the marshland accounts for less than 10% of total farmlands for most of the PAPs (refer to following table). The area of farmlands in the marshland accounts for 12% of their total farmlands on average. In other words, the extent of damage due to the farmlands loss in the marshland is relatively small for most of the affected households, however, some families who depend on farming in the marshland will be influenced significantly by the project. Therefore, it is needed to provide some support to such households.

Table 5 Ratio of Farmlands in the Marshland to All the Farmland and its Distribution

Ratio of farmlands in the Marshland to All the Farmland	No. of HH
0 - 10%	106
10 - 20%	26
20 - 30%	11
30 - 40%	10
40 - 50%	1
50 - 60%	4
60 - 70%	1
70 - 80%	0
80 - 90%	1
Total	160

#### 4.6 COMPENSATION

#### 4.6.1 Calculating Compensation for Assets

#### a) Compensation for Land

Land for land compensation is desirable according to laws in Rwanda, however, it is difficult for Ngoma District to arrange new alternative lands for the affected persons to be expropriated due to shortage of available lands in the district. Therefore, cash compensation based on the law (Ministerial order on land prices outside Kigali city, MINIRENA, 2010) is recommended. According to the district office, there are some unused farmlands in the district, and it is possible for the district officers to facilitate the PAPs to purchase the farmlands after the cash payment as compensation.

#### b) Compensation for Crops and Trees

PAPs will be encouraged to harvest their produce before the land expropriation. In order to ensure that this is possible, there needs to be sufficient consultation beforehand so that harvesting can be properly planned. In the event that crops cannot be harvested, compensation for standing crops including trees will be provided. In general, Ngoma District applies previous Law on Expropriation for the compensation for crops and trees. It is possible to refer the same regulation for the Ngoma 22 project.

#### c) Support for PAPs who Cultivate in the Marshland to be Submerged

Compensation for marshland expropriation is not needed in Rwanda, however, some farmers, those who depend on the marshland mainly, will be damaged due to the project. Therefore, it is planned to provide agricultural technical support through the soft component not only for the private land owners but also farmers in the marshland. It is expected to mitigate their loss

by improvement of their farming techniques and benefit increase<sup>1</sup> in their remaining farmlands.

It is planned to employ from 6,000 to 7,000 persons as labors for construction works. It is proposed to give high priority to such persons in addition to some vulnerable people to be affected. Daily wage per person is from RWF1,000 to RWF2,000, if they are employed for 20 days per month, they will gain RWF240,000 to 480,000 for the construction period. It means that such job opportunity can alleviate the impact due to land loss on the PAPs to some extent.

In addition to supports mentioned above, it is needed to re-distribute the downstream paddy field to some households those who are to be influenced significantly. It shall be examined through consultation meeting with such significantly affected persons, farmers those who cultivate in the paddy field and MINAGRI.

#### d) Support for PAPs who Cultivate in the Paddy Field in the Downstream

Plot construction in the paddy field, which is located on the downstream, is planned. Due to the work, the area of paddy field will be reduced by around 1.6ha. However, it is expected that the yield is expected to be increased from 4tons/ha to 6tons/ha by the technical support mentioned above. Therefore, the paddy production will not be decreased even if the paddy field area is reduced to 95% of current one. When "Data Collection Survey on Irrigation Development in Ngoma District of Eastern Province in Rwanda" (JICA, 2012) was conducted, the farmers of the paddy field requested to the JICA Team to implement plot construction for even water distribution. The proposed plot construction could contribute to proper water management and production increase.

During the plot construction works, the farmers will not be able to harvest paddy at least one season, which will result in loss of around Rwf 360,000/ha (Rwf 10,890,000 in total for all cultivated area: 30.25ha). Therefore, it is proposed to employ the affected farmers as labors of terracing works of the 265ha beneficiary area, to be shouldered by the Government of Rwanda. Considering there is a case that Rwf 1,000 was paid for 10m<sup>2</sup> terracing works (10 to 20 m<sup>2</sup>/ day/person) in other LWH sub-projects and the beneficiary area, it means that 265,000 labors in total will be needed for the works. Therefore, it is possible to offset the loss due to farming suspension for one season in the paddy area, if the affected persons are hired as labors.

#### 5. PUBLIC CONSULTATION

#### **5.1 PUBLIC CONSULTATIONS AND PARTICIPATION**

Project stakeholder consultation is a vital component of the RAP process. The consultation process focuses on providing information on the proposed project in a manner that can be understood and interpreted by the relevant audience, seeking comment on key issues and concerns, sourcing accurate information, identifying potential impacts and offering the opportunity for alternatives or objections to be raised by the potentially affected parties, members of the public and other stakeholders.

Consultation has also been found to develop a sense of stakeholder ownership of the project and the realization that their concerns are taken seriously, and that the issues they raise, if relevant, will be addressed in the RAP process and will be considered during project design

<sup>&</sup>lt;sup>1</sup> According to the output by "Project for Increasing Crop Production with Quality Extension Services in the Eastern Province" (PiCROPP), which was implemented from 2010 to 2013, net income of crop per ha was increased by 43%.

refinement. This participatory process helped in reducing the public resistance to change and enabled the participation of the local people in the decision making process. Initial public consultation has been carried out in the project areas with the objectives of minimizing probable adverse impacts of the project and to achieve speedy implementation of the project through bringing in awareness among the community on the benefits of the project.

#### 5.2 FIRST PUBLIC CONSULTATION MEETING

The first consultation meeting was organized on September 2, 2013 and the project stake holders were invited in this meeting. The participants of the meeting were MINAGRI staff, JICA Headquarter Officers, JICA Rwanda Office staff, MINAGRI irrigation advisor, JICA team members, District officers, local authorities such as Sector and Cell official personnel, village heads concerned and some farmers.

In the opening remarks, the Vice-Mayor in charge of Economic affairs of Ngoma District presented his recognition that the proposed irrigation project was very important considering that the farmers concerned would receive benefits for farming without depending on rainfall. He called on the farmers for sufficient cooperation during the project implementation and the good maintenance of facilities in the operation stage. The representative of MINAGRI also requested the farmers and local authorities to understand the importance of the project and to collaborate for the project implementation.

On behalf of JICA, Mr. Suzuki, Head of JICA HQs Mission, explained the purpose of the project and informed the participants what was going on and discussed on the project. He talked about feasibility of the project had been already clarified. He informed participant that environmental and social matters to be caused by the project would be discussed later. He introduced the JICA Study Team members and asked for their cooperation for smooth study. After the presentation, the participants were given opportunity to ask questions and clarification was provided by MINAGRI and the JICA mission.

**Table 6 Outcome of the First Consultative Meeting** 

Speaker	Issues/Comments by Participants	Explanation by MINAGRI and JICA
Mr. Safari, the	Appreciated the project that would	About the land that would be affected by the
District	irrigate both marshland and hillside and	project, Mr. Jean Claude said that it was very
Agronomist	said that in Ngoma District, it was the first	clear in the land law. He explained that for
	time to have such kind of project. He	public activities, they made expropriation for
	continued that normally marshland area	the land and compensation depending on the
	was a government property and asked if	conditions such as standing crops.
	the land that would be used for canals or	
	other project activities would be	
	compensated or not.	
Mr. Erick, a	Welcomed the project that would allow	Mr. Suzuki said that so many preparatory
farmer from	them to make cultivation in two seasons,	actions are required in general prior to project
Muhurire cell	but said that it was taking so long time to	implement.
	start implementation.	
Mr. Justin, a	He expressed the need of giving notice	A notice will be given to users of the project
farmer but	before the construction so that they could	area once the cut-off date is fixed
also farmer	avoid any damage of their crops. He	
mobilizer	wished to be notified 1 or 2 seasons	
from Ndekwe	before the commencement of	
cell	construction works.	
Mr. Habimana	He welcomed the project that would allow	Mr. Suzuki replied that the purpose of the
Anastase, a	them to cultivate all through the year and	reservoir was to store water for irrigation not
farmer from	asked if stored water was only for	for domestic use. The quality standard of

Speaker	Issues/Comments by Participants	Explanation by MINAGRI and JICA
Bugera,	irrigation or if it could also serve for	irrigation water and the one of domestic water
	domestic use.	are different and the stored water was not
		suitable for domestic use. He added that the
		project would not affect the existing spring.
Mr. Jean Marie	He asked if farms in the command area	Mr. Jean Claude replied that it was too early to
Vianey, a	will be moved to other place of kept in the	comment on question in terms of farms in
farmer from	same place	command area but added that if the area was
Bugera		for cattle, it would be taken into consideration.
		He said that there was a policy on land use and
		the RAP would clarify the real situation of the
		field.



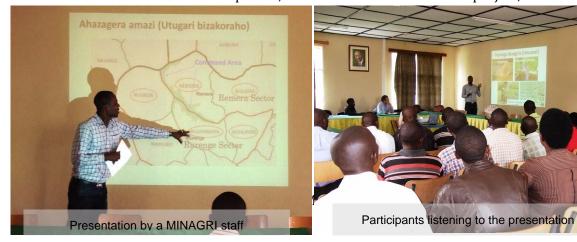


As a whole, the participants welcomed the project since they can access to irrigation water which leads to crop production increase, some of them presented their concerns about compensation and timing they have to stop cultivation, though.

#### 5.3 SECOND PUBLIC CONSULTATIVE MEETING

The second public consultation meeting was organized on November 14, 2013, at Ngoma district and village heads, official personnel of Cells and Sector, District Agronomist, the Mayor of Ngoma District, MINAGRI staff, private environmental consultants, and the JICA Study Team members. The meeting was supported by Green and Clean Solution Ltd. Consultants, and the consultants provided comments and clarifications. MINAGRI staff also participated in the meeting. The specific objectives of the meeting were:

- Create awareness of the project for the people
- To explain social and environmental impacts and proposed mitigation measures
- To obtain stakeholders' responses, feedback and concerns on the project;



negative impacts of the project on the environment would be caused, they would be air pollution, dust, traffic, land expropriation due to reservoir and irrigation canal construction. After the presentations, the community was given opportunity to give their views, comments and questions. They are as shown below:

**Table 7 Outcome of the Second Consultative Meeting** 

	Table / Outcome of the Second Consultat	Explanation by MINAGRI and
Speaker	Issues/Comments by Participants	CGS Ltd Representatives
The Mayor of Ngoma District	He requested Local Authorities to assist all donors who join them in any development program. Specifically for this Project for reservoir construction the Local leader must very well understand the Project and sensitized again famers to own the project	Village leaders and PAPs representative are willing to support the project
Mr. Gaspard NZAHABWANAYO, The Social, Economic and Development Officer at RUJAMBARA Cell	He asked whether private land that the proposed irrigation canal will cross will be compensated in consideration of all plot size or the area to be affected	The compensation will cover only the affected area not all plot size. Other remaining land will be also part of beneficiaries' of the irrigation scheme
Mr. Jean Claude SINGIRANKABO, The Executive Secretary at NDEKWE Cell	He welcomed the Project because after installation of irrigation canal, the farmers will cultivate 3 times per year. He also asked more explanation about fish farming in order to understand how to combine with irrigation in paddy.	There will be no conflict of interest between irrigation process and fish farming, since it is not planned to use all water in reservoir for irrigation. Fish farming will be done by using cage in the reservoir. Water Users Organization will be established to manage and handle all issues related to proper use of water resources.
Mr. RURANGIRWA SHABANI. The RMERA Acting Executive Secretary at Sector level	How is the Budget of this Project? He needed to know if in the Project package they are a budget for monitoring of activities in Project period and also after phase out project.	The facilitator explained the purpose of today's meeting is to get comments and additional input focused on environmental and social impacts. All concerns will be included in final project studies and budget.
Mr. UWIMANA JMV, The RURENGE Acting Executive Secretary at Sector level	Do you consider the affected people who will be compensated? If yes, please also make attention about the proper time of compensation period because it's must be done before all construction activities.	Compensation will be done based on the law before starting reservoir construction activities.
Emmanuel, Consultants from Green and clean Solution ltd	He wants to know if the local leader are ready to assist MINAGRI in this project and what would be their Roles.	Local leaders are willing to attend usually in evaluation practice of asset for each affected people. They will also sensitize farmers.
Ms. UFITIKIREZI Colletta, The Executive Secretary of BUGERA Cell	She emphasized on considering the rights of all beneficiaries by law on cash compensation while making payment by transfer on account, because sometimes men do not give accountability to their wives.	All beneficiaries must approve the cost of their asset and the allocation account by mutual consent. During compensation, all family members will be present to avoid family conflict.

Speaker	Issues/Comments by Participants	Explanation by MINAGRI and CGS Ltd Representatives
Mr. NZABIRINDA Damien, Rurenge Sector Agronomist	Will the existing water collection point e damaged during construction? There is a possibility that the people will collect water from the reservoir for domestic water consumption and it is dangerous for them. If it possible, please put a hand pump for them to prevent from accident.	The people can use other water sources such as water canal. MINAGRI agrees with his idea and it will be considered for design.
Ditto	It is needed to protect reservoir from soil erosion.	It is recommended to plant trees to protect reservoir from erosion in the area within 50m from the dam lake limitation.

The participants appreciated the proposed project in general, since it is expected that the project will boost local economy due to productivity increase while they presented concerns regarding compensation method and timing. Some of village heads committed to collaborate with MINAGRI for the project implementation.

### 5.4 Third Public Consultative Meeting

The third public consultation meeting to present outline of the project and activities to be done by the beneficiaries was organized on March 21st, 2014, at Ngoma district. Village heads concerned, official personnel of Cells and Sector concerned, Ngoma District Agronomist, the staff of Ngoma District, MINAGRI staff, JICA Rwanda office staff and the JICA Survey Team member participated in the meeting. Official personnel of Ngoma District requested to the participants to share the information with general farmers. The specific discussions of the meeting are as follows:

**Table 8 Key Outcome of the Third Consultative Meeting** 

Speaker	Issues/Comments by Participants	Explanation by MINAGRI and Japanese
Executive Secretary of Ndekwe Cell	Are there any constraints with the project of terraces construction, which has been already started at hillside? Where is coordination?	No negative impact with terrace project is expected. There is coordination between the terracing work and the project.
Mr. Arcade MURAGIJEMUNGU, Executive Secretary of Rurenge Sector	Before implementation, the Local Government Authority needs at least three months for population mobilization. Please inform them the schedule when the project plan is approved.	The Local Government Authorities will be informed around six months before of activities, when the final census will be implemented.
Mr. Arcade MURAGIJEMUNGU, Executive Secretary of Rurenge Sector	The project team and the Local Government Authorities are recommended to go on field together and to explain to the beneficiaries (not their representatives) about the project activities, compensation, implementation schedule, etc.	The farmers knows where are placed the pegs. The Local Government Authorities have to start the mobilization in order to prevent some losses like the construction in affected area or cultivation of perennial crops.
Executive Secretary of Ndekwe Cell	It is difficult to regroup farmers for different activities. It is better to form different cooperatives and to let WUO manage irrigation water.	It is better to get advices from RCA's experts. Usually, when farmers share the resources, they have to form one cooperative. According to the experience of MINAGRI, the coordination is not a problem. An integrated cooperative is important in terms of organization.

Speaker	Issues/Comments by Participants	Explanation by MINAGRI and Japanese
Executive Secretary	The management of agriculture	The WUO will manage water issues.
of Ndekwe Cell	cooperatives is not limited on the water	According to the experience, it is difficult to
	resource but also on objectives,	manage many cooperatives. For instance,
	activities, needs, inputs, issues. It is	one farmer may be member of many
	better to create different cooperatives.	cooperatives because some farmers
	Farmers who have same activities and	cultivate in marshland and at hillside.
	problems have to form one	Therefore, it is recommended to form an
	cooperative. We have to debate with	integrated cooperative. (It was concluded
	farmers and we will decide this issue	that the stakeholders will consult RCA
	taking account of profit of the farmers.	experts ) .
Social and	The project will provide irrigation	These facilities are not provided by the
Economic	equipment like hosepipes to WUO and	project. But, the project will construct a
Development	eventually to cooperatives. What about	boathouse to store the boats for the WUO,
Officer, Rujambara	their storage facilities?	where farmers can keep some equipment.
Cell		We hope to create a strong cooperative(s)
		which are able to construct their own office
		by members' contribution or loan from
		banks. MINAGRI and Local Government
		Authorities are ready to support them.
Social and	It is better to include study tours in	Yes, this kind of activities will be included in
Economic	project activities to enhance farmers'	the soft component.
Development	understanding.	
Officer, Rujambara		
Cell		
Mr. Eric	Farmers are already informed that the	It is recommendable to take time to discuss
NSABIYUMVA,	marshland is the government property	within community on this point because
Village Head, and	which means that the farmers will lose	some farmers who are not satisfied with
Executive Secretary	the cultivation plots in marchland.	compensation strategies may exist. The
of Ndekwe Cell	Population is ready to resign. We have	success will depend on a good
	to inform them before and give them	communication and cooperation between
	enough time for harvesting.	Local Government Authorities and the
		people.

The participant lists of the series of public consultation meeting are attached in Annex 2.

### 5.5 Fourth Public Consultative Meeting

The fourth public consultation meeting to present outline of the project and activities, targeting general farmers, was organized on May 14th, 2014, at the field of Ngoma District. Around 200 farmers participated in the meeting. Two Executive Secretaries of Rurenge and Remera Sector, JICA project team, JICA Rwanda office and MINAGRI staff assisted the meeting. In general, the farmers welcomed the project and promised a good collaboration.

#### 5.6 OTHER MEETINGS AND CONSULTATIONS

After the official decision of the project implementation, there will be other meetings and consultations among Ngoma District, MINAGRI and PAPs to discuss how to proceed with the compensation will be organized after the official project approval. Signing on the agreement and contract documents shall be done.

### a) Verification and disclosure of entitlements

Upon identification of the households that would be affected by the project is completed, MINAGRI, Ngoma District and Local authorities will organize some meetings with PAPs to discuss compensation requirements and concerns. After the completion of the valuation of

assets, there will be two meeting for disclosure, one to display the results of census and asset survey, and another is to display valuation for compensation.

## b) Agreement on compensation and preparation of contracts

The District of Ngoma is the recognized institution to deal with compensation. Once the agreement on compensation measures is reached between the project and PAPs, District of Ngoma and MINAGRI will prepare an agreement for compensation and for payments of PAPs. Then PAPs who will get financial compensation will provide bank account where their money will be deposit.

# 6. RAP IMPLEMENTATION ARRANGEMENTS, MONITORING AND GRIVENCE HANDLING MECHANISM

The overall coordination of the RAP Implementation will be provided by the MINAGRI, while Ngoma district is the responsible institution at local level. Ngoma 22 RAP will be implemented by various stakeholders from national level to the site level. This can ensure that laws and regulations are respected, and livelihoods of affected persons are improved or restored compared with the previous status.

#### **6.1 NATIONAL LEVEL IMPLEMENTING INSTITUTIONS**

## a) MINAGRI

MINAGRI is the main agency for RAP implementation for Ngoma 22 project. The ministry will have overall responsibility for all activities and will provide necessary funds and skills, and also it will allocate one of the SPIU members of LWH project for the Ngoma 22 RAP implementation.

## b) MINIRENA

MINIRENA is responsible for policy formulation and guidance as well as monitoring and evaluation. It ensures that the RAP is consistent with national land use plan and international legislation such as OP 4.12.

#### c) Designated SPIU for the implementation of Ngoma 22 RAP

For better implementation of Ngoma 22 RAP, it is recommended that MINAGRI to assign one of its SPIU to coordinate the RAP implementation. The roles of the designated SPIU member are implementation of the proposed RAP, coordination of monitoring activities, keeping monitoring results, analysis of monitoring data and capacity building of other stakeholders. Monitoring activities will be done during and post implementation. The SPIU will be the focal point RAPs implementation and will liaise with other stakeholders. The SPIU will ensure that the procedures and requirements of the Rwandan laws, JICA guideline for Environmental and Social consideration as well as the OP 4.12.

## d) RNRA

RNRA is responsible for overall management and coordination of all activities related to land administration, land use planning and management in Rwanda. The role of RNRA in RAP implementation process will advise on matters related to land ownership and expropriation. District Land Bureau will check and approve surveys, various maps and approve land surveys during the RAP exercise in collaboration with RNRA.

### e) REMA

REMA will give some advices to MINAGRI for the RAP implementation to ensure that all policies and regulations related to resettlement in the better manner, especially provide some support for monitoring.

#### 6.2 DISTRICT LEVEL IMPLEMENTING INSTITUTIONS

#### a) Ngoma District

The District plays a key role such as assessment of the land tenure rights of PAPs, grievance handling and so on. There are enough farmlands to be allocated to all the PAPs in the Ngoma District, however, there are some unused farmland according to the District Office. Therefore, it is possible for the District Officer to facilitate purchase of unused farmlands for the PAPs. In general, their major roles in RAP implementation are as follows:

- To issue construction permits and monitor compliance with construction plans
- To monitor and approve valuation of land, assets and other immovable property;
- To demarcate and approve land cadastral;
- Establishing project level Resettlement and Compensation Committees at Sector/Cell level;
- Clarifying the policies and operational guidelines of Resettlement and Compensation Committees;
- Establishing standards for unit rates of affected assets and compensation estimates, according to the standard units, adjusted for local conditions where necessary; and
- Coordinating and supervising implementation by Resettlement and Compensation Committees as stipulated in the RAP and national/district guidelines.

The District Land Bureau will play a key role in the activities mentioned above, and the District office will monitor the activities done by the District Land Bureau.

#### b) District Resettlement and Compensation Committee

The Ngoma district will work closely with the designated SPIU in the implementation of this RAP. A team that includes District Community Development Officer, a civil Engineer, District Land Bureau officer, the assigned SPIU, and executive secretaries of affected sectors and PAPs representatives will be responsible for resettlement and ensure that the RAP is properly applied across all relevant subprojects. Its initial role will be to undertake screening and assessment of potential subprojects.

### c) Resettlement and Compensation Committees at Site Level

It is recommended to establish site level resettlement and compensation committee. It is expected that the Ngoma District Land Bureau will be responsible for electing members of the site level Resettlement and Compensation Committee. It is proposed to be coordinated by the District Land Bureau. This committee will plan for, coordinate and monitor compensation activities, as well as supervise compensation payments to the recipient PAPs. A large part of their responsibility will be consultation with potential PAPs. The committee members would comprise the following:

• Representative from two Sectors (Remera and Rurenge)

- Representative of four Cells concerned to the project
- Representative from the District Development Committee;
- Representative from any other key sector office involved in the project;
- Key stakeholder's representative from the implementing organization;
- Two representatives of PAP by cells (equal gender representation); and

The Resettlement and Compensation Committee would have responsibility for:

- Verifying PAPs
- Validate inventories of PAPs and affected assets:
- Allocate land, where required, to permanently PAPs;
- Monitor the disbursement of funds;
- Facilitate conflict resolution and addressing grievances; and
- Provide support and assistance to vulnerable groups including widows, orphans, and the old persons among others).

This committee should meet on a regular basis (as determined by the needs of the project) to ensure that compensation activities are appropriately designed and executed. It is recommended that a representative be elected to act as the District Project Coordination officer who would act as the key contact with PAPs and therefore facilitate implementation of consultation, public participation and grievance mechanisms.

#### d) Mediators/Abunzi

At the Cell, there are in place mediators (Abunzi) whose work is to hear disputes, especially land disputes. The Abunzi, or mediation committees, have mandatory jurisdiction over land disputes involving amounts less than three million Rwanda Frans, which means over most land disputes. The Abunzi also have mandatory jurisdiction over succession and boundary disputes involving less than three million Rwanda Francs. The Abunzi will be used in the Ngoma 22 sub project as the first stop for resolving disputes and grievances following land acquisition. They will be involved in the compensation process from the beginning to the end. They will also be used in the design of the RAPs as much as possible in order to reduce disputes or grievances.

#### e) Project Affected Persons

The PAPs will also help implementation of final census survey and asset survey after the official project approval. It is requested PAPs to participate a series of consultation meeting for giving their opinions, views and concerns related to project implementation.

Table 9 Summary of Institutional Responsibilities RAP implementation

Institutions	Responsibilities
MINAGRI	Collation of information regarding Ngoma 22 sub-projects, including RAP
	documentation
	Review and approval of related documentation from all subprojects (screening)
	forms, RAP reports etc.) to ensure consistency and compliance with
	Resettlement Policy Framework;
	Overall monitoring and evaluation of expropriation (i.e., annual audits and
	review of sub-project level monitoring undertaken by District authorities),

Institutions	Responsibilities
	ensuring that RAPs are implemented in accordance with Rwandan laws and OP
	4.12
Designated SPIU	<ul> <li>To initiate the expropriation process and compensation requirements</li> <li>Preparation and signature of Compensation Grant agreement with the District</li> <li>To establish Resettlement and Compensation Committee in consultation with District Land Bureau</li> <li>To have a representation in sub-project Resettlement and Compensation Committee</li> <li>Provision of capacity building and technical support relating to expropriation</li> </ul>
	<ul> <li>and compensation activities;</li> <li>To ensure funds allocated appropriately, according to RAP</li> </ul>
MINIRENA	<ul> <li>To ensure that the expropriation sites has sustainable programs including environmental protection measures, national land use plan and international guidelines such as OP 4.12</li> <li>To describe the boundaries of the relocation area;</li> <li>Assessment of the environmental impacts of the proposed expropriation and measures to mitigate and manage these impacts</li> </ul>
RNRA	<ul> <li>To advise on matters related to land ownership and expropriation activities;</li> <li>To support verification of land ownership and land titles</li> </ul>
Ngoma District	<ul> <li>To verify land owners from records of land register</li> <li>To issue construction permits and monitor compliance with construction plans</li> <li>To monitor valuation of land and other immovable property</li> <li>To approve results of asset survey</li> <li>Work in collaboration with the Resettlement and Compensation Committees to ensure that 'fair and just' compensation is reached in accordance with the law and the requirements of this RAP</li> <li>To facilitate the PAPs who will lose their farmlands to purchase new lands which are not cultivated well in the district</li> </ul>
District Resettlement and Compensation Committee	<ul> <li>Verification of the PAPs</li> <li>To validate inventories of PAPs and affected assets;</li> <li>To facilitate the PAPs who will lose their farmlands to purchase new lands which are not cultivated well in the district</li> <li>To facilitate conflict resolution and addressing grievances</li> </ul>
Site resettlement and Compensation Committee	<ul> <li>To help in creating awareness on expropriation process</li> <li>Monitoring of the expropriation closely with environment protection committees to monitor the use of marshlands and reserved areas;</li> <li>Conflicts and grievance resolution</li> <li>To help identification of land,</li> <li>To serve as witnesses in compensation</li> </ul>
Mediators/ Abunzi	<ul> <li>Resolving disputes</li> <li>Provide grievances mechanism following land acquisition.</li> <li>Help in designing RAP at the community level to ensure community buy in</li> </ul>
Project Affected Persons	<ul> <li>To be present when the land survey and inventory is being carried out</li> <li>Provision of all required information in regards to expropriation</li> <li>Participate in expropriation activities</li> </ul>

Proposed RAP implementation structure is as shown below:

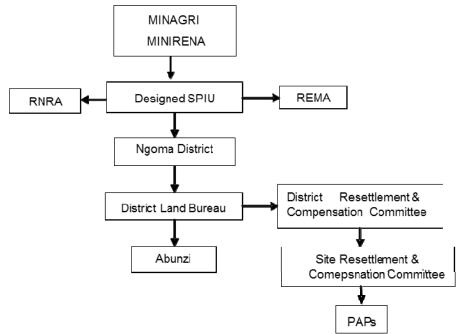


Figure 5 Proposed RAP Implementation Structure

#### 7. GRIEVANCE REDRESS MECHANISM

The District of Ngoma is an acknowledged institution for which the PAPs have been made aware of as avenues for expressing discontent and disapproval to the resettlement and compensation process. Article 26 of the Expropriation Law No. 18/2007 of 19/04/2007 provides complaints procedures for individuals dissatisfied with the value of their compensation. The Law stipulates that dissatisfied persons have a period of 30 days after project approval decision has been taken to appeal (Article 19).

Grievance procedures are required to ensure that PAPs are able to lodge complaints or concerns, without cost, and with the assurance of a timely and satisfactory resolution of the issue. The procedures also ensure that the entitlements are effectively transferred to the intended beneficiaries. Stakeholders will be informed of the intention to implement the grievance mechanism, and the procedure will be communicated at the time that the RAPs are finalized. Grievances may arise from members of communities who are dissatisfied with eligibility criteria use, community planning and actual implementation or compensation.

### 7.1 PROCESS OF GREIVANCE HANDLING

The overall process of grievance is as follows:

- 1. During the initial stages of the valuation process, the affected persons will be given copies of grievance procedures as a guide on how to handle the grievances.
- 2. The process of grievance redress will start with registration of the grievances to be addressed for reference, and to enable progress updates of the cases.
- 3. The project will use a local mechanism, which includes resettlement committees, peers and local leaders of the affected people. These will ensure equity across cases, eliminate nuisance claims and satisfy legitimate claimants at low cost.
- 4. The response time will depend on the issue to be addressed but it should be addressed with efficiency.

5. Compensation will be paid to individual PAPs only after a written consent of the PAPs, including both husband and wife.

#### 7.2 PROCEDURE OF GREIVANCE HANDLING

The aggrieved person should file his/her grievance, relating to any issue associated with the resettlement process or compensation, in writing to the subproject Resettlement and Compensation Committee. The grievance note should be signed and dated by the aggrieved person. Sample Grievance Redress Form is attached in Annex 3.

The designated MINAGRI officer and the Resettlement and Compensation Committee will consult to determine the validity of claims. If valid, the Committee will notify the complainant and he/she will be assisted. The Resettlement and Compensation Committee will respond within 14 days through meetings and discussions with the aggrieved person. If the grievance relates to valuation of assets, a second or even a third valuation will be undertaken, until it is accepted by both parties. These should be undertaken by separate independent valuers than the person who carried out the initial valuation. If the aggrieved person does not receive a response or is not satisfied with the outcome within the agreed time, he/she may lodge his/her grievance to the relevant Municipal Administration such as the District Land Bureau.

The relevant Local Administration will attempt to resolve the problem (through dialogue and negotiation) within 30 days of the complaint being lodged. If no agreement is reached at this stage, the complaint is dealt with through the local courts (Abunzi) where possible. Based on the nature of complaints, the process will start from Abunzi who resolve any disputes below 3 million Rwandan francs and if the value is more than three million, the process will be started from intermediate courts, high court and to Supreme Court. The Resettlement and Compensation Committee will provide assistance at all stages to the aggrieved person to facilitate resolution of their complaints and ensure that the matter is settled in the optimal way as much as possible. The proposed grievance redress system is as illustrated follows:

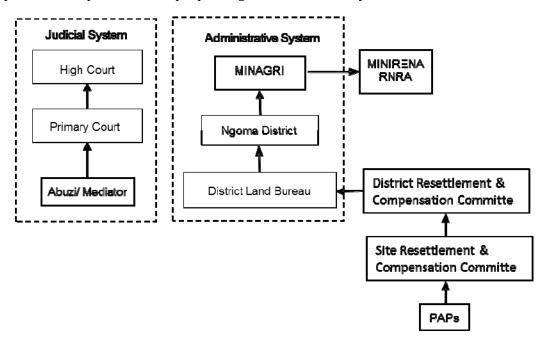


Figure 6 Proposed Grievance Redress Mechanism

#### 7.3 GRIEVANCE LOG

The District Land Bureau will ensure that each complaint has an individual reference number, and the complaints resolution should be appropriately tracked and recorded. The log will contain record of the person responsible for an individual complaint, and records dates for the following events:

- Date the complaint is reported;
- Date when the complaint report is recorded on the database;
- Date information on proposed corrective action sent to complainant (if appropriate);
- Date when the complaint is closed out; and
- Date when the response is sent to complainant.

The District Project Coordination officer will be responsible for:

- Providing the Resettlement and Compensation Committee with a weekly report detailing the number and status of complaints;
- Any outstanding issues to be addressed; and
- Monthly reports, including analysis of the type of complaints, levels of complaints, actions to reduce complaints and initiator of such action.

#### 8. IMPLEMENTATION SCHEDULE

Implementation schedule has been fixed based on discussion between Rwandan Government and Japanese Government in May 2014. It is planned the project will be approved officially in August 2014 and there will be several steps to be followed during the preparation. The proposed implementation RAP after the project approval is as shown in the following table.

**Table 10 Implementation Schedule** 

Idom			2014							20	15				
Item	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10
Official approval of the Project	X	Х													
D/D, Tender			X	X	X	X	X	X	X						
Establish of Resettlement & Compensation Committee				Х											
Cut-off date				X											
Final census					X	X									
Disclosure of final census result						X									
Compensation agreement						X	X								
Compensation							X	X							
Land expropriation								X	Х						
Project implementation										Х	Х	Х	X	Х	Х
Monitoring and grievance redress (bi-annual for 2							Х	Х	Х	Х	Х	Х	X	Х	Х

2014			2015												
Item	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10
years in the															
operation phase)															

#### 9. MONITORING

The objective of the monitoring is to determine whether the PAPs have been paid in full and before implementation of the subproject, and they live in a higher standard than before, living at the same standard as before, or they are they are actually poorer than before. The arrangements for monitoring will fall under the overall responsibility of the MINAGRI. The monitoring results will be reported to JICA from MINAGRI.

#### 9.1 MONITORING INDICATORS

Some indicators would be used in order to judge the status of affected people such as change of living standard compared with that before the project implementation. The following indicators could be used in the process of RAP implementation:

- The number of contentious cases as a percentage of the total cases;
- The number of grievances and time and quality of resolution;
- Number of impacted locals employed by the civil works contractors; and
- General relations between the project and the local communities.

These will be determined through the following activities:

- Questionnaire data will be entered into a database for comparative analysis at all levels of local government;
- Each individual will have a compensation dossier recording his or her initial situation, all subsequent project use of assets/improvements, and compensation agreed upon and received.

The District authorities will maintain a complete database on every individual impacted by the sub-project land use requirements and compensation, land impacts or damages. The assigned SPIU should prepare a Resettlement Completion Reports in addition to other regular monitoring reports.

The subproject Resettlement and Compensation Committee will facilitate coordination of information collection activities (such as surveys, supervising documentation) in accordance with procedures put in place. The MINAGRI will provide training, technical support and funds to ensure that this happens. In order to assess whether these goals are met, the RAP will indicate parameters to be monitored, institute monitoring milestones and provide resources necessary to carry out the monitoring activities.

### 9.2 MONITORING OF RAP IMPLEMENTATION

District office will assist in monitoring result compiling and convey this information to the SPIU, on a quarterly basis. They will compile the following statistics:

- Number of households and individuals expropriated by the project;
- Period from sub-project identification to payment of compensation to PAPs;

- Timing of compensation in relation to expropriation;
- Amount of compensation paid to each PAP household (if in cash), or the nature of compensation (if in kind);
- Number of people raising grievances in relation to project; and
- Number of unresolved grievances.

**Table 11 Sample Format for Monitoring** 

Responsible organization: MINAGRI

Work	Planned in total	Progress in quantity	Progress in percentage
Announcement to the affected people			
Identification of final PAPs			
Consultation meeting			
Revise of the RAP and signing based on the feedback at the consultation meeting			
Compensation			
Social supports such as job training			
Grievance resolution	-		

Announcement to the a	ffected people						
Date:	Sector:	Cell					
Date:	Sector:	Cell					
Date:	Sector:	Cell					
Consultation meeting w	Consultation meeting with the affected people						
Date:	Sector:	Cell					
Date:	Sector:	Cell					
Date:	Sector:	Cell					
Date:	Sector:	Cell					

MINAGRI will scrutinize the monitoring results in order to assess whether the compensation arrangement is done as planned in the RAP. If there appears to be any discrepancies, MINAGRI will take countermeasures to resolve the situations.

#### 9.3 STORAGE OF PAPS DETAILS

Each PAP household will be provided with a signed report recording his or her initial situation, assets to be impacted and compensation agreed upon and received. At the same time, before compensation all household heads representing the PAPs will be required to provide passport size photographs. The Ngoma District will maintain the complete database of the PAPs including compensation, land impacts or damages. On the other hand, each recipient of compensation will have a record containing individual bio-data, number of household dependents and amount of land available to the individual or household when the report is opened.

#### 9.4 SOCIO-ECONOMIC MONITORING

The purpose of socio-economic monitoring is to ensure that PAPs are compensated properly and they recover their living standard to the original level on time. During implementation of each subproject RAP, an assessment will be undertaken on payment of compensation,

restoration of income delivery. Monitoring of living standards will be continued after the compensation.

### **10. COST ESTIMATION**

This chapter presents the budget estimates based on the valuation methodologies and unit value rates mentioned above. The cost estimate of the compensation for land and crop expropriation is summarized in following table. The compensation cost shall be shouldered by Government of Rwanda, while soft component cost such as technical training regarding agriculture for PAPs will be covered by Government of Japan.

**Table 12 Overall Cost Estimation for Compensation** 

Impact Description	Qty	Unit Cost (Rwf)	Total Cost (Rwf)
Loss of Land (Bugera Cell)	0.23ha	122/m²	280,600
Loss of Land (other cells)	20.31ha	107/m²	21,731,700
Loss of Trees	1 set	(see Table 13)	11,102,208
Sub-total of compensation			33,114,508

Source: 1) Unit price of land: Ministerial Order No 002/16.01 of 2010 on Determining the Reference Land Price Outside Kigali City

2) Area to be affected: JICA Study Team, 2013

**Table 13 Estimated Compensation Cost for Tree** 

Tree species	Age of trees	Qty	Unit Price (Rwf)	Total Price
Avocado	0-1 Year	32	4,005	128,160
	1-3 Years	63	13,020	820,260
	More than 3 Years	39	24,060	938,340
Grevillea	5-10 Years	237	1,716	406,692
	Under 5 Years	266	715	190,190
Eucalyptus/Inturusu		726	5,005	3,633,630
Acacia/Umunyinya		52	2,145	111,540
Erythrina Abyssinica/	Umuko	93	715	66,495
Umusave (Timber Tre	e)	587	5,005	2,937,935
Acassia/Imisebeya		78	2,145	167,310
Dracaenas/Imihati		851	575	489,325
Spurge		98	920	90,160
Cyprus		7	858	6,006
Pinus		16	4,290	68,640
Medical trees		13	2,800	36,400
Mango		41	9,000	369,000
Ficus/Umuvumu		32	3,575	114,400
Other trees		27	450	12,150
Ricin/Ikibonobono		143	715	102,245
Sisal		26	250	6,500
Ornemental tree/Jaka	22	5,720	110,110	
Euphorbes/Imiyenzi	166	920	152,720	
Guava		16	9,000	144,000
Total				11,102,208

Source: 1) Unit price of trees: Previous Expropriation Law (the unit prices of trees are applied in Ngoma District for compensation)

2) Quantity of trees: JICA Study Team, 2013

**Table14 Estimated Monitoring Cost** 

Activity	Indicator	Qty	Unit Cost (Rwf)*	Total Cost (Rwf)
Meeting for set up resettlement committees	Established committee	1	120,000	120,000
Meeting for displaying PAPs asset	Meeting	2	120,000	240,000
Follow up compensation process	Meeting	2	120,000	240,000
Meetings for grievance redress	Meetings/grievance resolved	16	120,000	1,920,000
Total				2,520,000

<sup>\*</sup> U nit cost Rwf120,000 consists of Rwf 80,000 for vehicle and Rwf 5,000 mission allowances times 8 staffs (allowances guidelines for Government officers)

#### **Table15 Total Cost**

	Activity	Total Cost (Rwf)
1.	Compensation for crops and lands	33,114,508
2.	Final census survey (5% of sub-total of compensation for loss)*	1,655,725
3.	Training of local level officers for grievance settlement**	856,000
4.	Monitoring	2,520,000
5.	Sub-total (1.+2.+3.+4.)	38,146,233
6.	Contingency (10% of sub-total)	3,814,623
	Grand total (5.+6.)	41,960,856

<sup>\*</sup> Cost and percentage of other LWH project is applied.

#### 11. RAP DISCLOSURE

The MINAGRI will disclose this RAP by making copies available at its head office and in District coordination offices in Ngoma Districts. It will also make copies available to the local government's agencies and other stakeholders of the Ngoma 22 project. The RAP will be disclosed at the Ministry websites. In addition, a completion report of the entire resettlement/compensation process for this project will be prepared and will include verification, e.g., when the compensation and assistance were undertaken and to whom these services were provided.

This report will be prepared and submitted to JICA and MINAGRI six months after the end of compensation payment. The RAP implementation report should include (but not be limited to) the following information:

- Background of the RAP preparation including a description of the project activities, scope of impacts, number of affected persons, and estimate budget;
- Update of its implementation with actual numbers of compensated persons, issues/complaints raised and solutions provided;
- Complains status;

<sup>\*\*</sup> Training will be organized for two days targeting 12 official personnel.

- Early assessment of the impacts of compensation on affected categories at the time of the report preparation;
- Total sum disbursed; and
- Lessons learned from the RAP implementation.

Suggested annexes are as follows:

- List of PAPs; and
- List of people compensated during the RAP implementation.

### Annex 1

## **Proposed Socio Economic and Land Asset Inventory Forms**

## 1. Socio-economic Household Datasheet of PAPs

Name of inter	viewer				Signature
ID Code					
Name of supe	rvisor				(after verification of interview)
ID Code					
Cell Name				Number of Con	cession
				in Village (GPS Coordinates)	
Date:					
Day	Month	Year			
Name of Head	d of Extended l	Family			
Number of	Nuclear Fam	lies in Extend	ded		
		ing household			
head of exten		<i>3</i> -			

Name	Relationship to head of family	Sex	Place of	Age	Marital Status	Residence Tenure	Religion	Education Level	Income Earner		Economic activities	
		M F	birth						Yes	No	Primary	secondary
1.												
2.												
3.												
4.												

## Relation to Head of Family

1 HOH; 2 Spouse of Hoh; 3 Child of HoH; 4 Spouse of child of HoH; 5 Grandchild of HoH; 6 Parent of HoH; 9 Others (specify); 0 No answer Marital Status 1 Married 2 Widowed; 3 Divorced; 4 Unmarried; 0 No answer

Residential status 1PRP (Permanent Resident) 2 RA (Resident Absent) 3 Member of non-resident HH;

4 Visitor; 9 other (specify); 0 No answer

**Occupations** 

## **Principle Occupation**

1 Farmer 2 Shepherd; 3 household; 4 Merchant; 5 Religious leader; 6 Artisan; 7 Transport;

8 Unem DPCO yed; 9 Other (specify); 0 No answer

## **Secondary Occupations**

Educational Level 1 Illiterate; 2 Three years or less; 3 Primary School; 4 Secondary school; 5 Technical School; 6 Religious School; 0 No Answer Religion 1 Christian (Specify denomination); 2 Muslim; 9 Other (specify); 0 No Answer

## 2. Land asset inventory for Project Affected People

Village; Date;

Cell;

Survey No.	Name of HH Head	No of persons in Household	Total land holding of Household(m²)	Land to be acquired(m²)	Land use Type*	Loss of % total	Loss of assets	Loss of crops	Loss of other assets	Other losses
							Structures permanent (m²); Structures temporary	Fruit trees lost type and number; Agricultural land lost(m²) Other(specify)	e.g. graveyards, wells etc (type & no)	Residence rented; Business lost; Income loss

<sup>\*</sup>Land types are as follows (please fill in the types of land for Rwanda)

## ${\bf 3.\,Entitlements\,of\,Project\,Affected\,People}$

Sector date

Cell

Survey No.	Name of Head of Household	Compensation for Land	Compensation for Structures	Compensation for crops and trees	Compensation for other assets and losses( e.g. graveyards, wells, businesses, etc.)	Total (USD)
		<ul> <li>Quantity(m²) Unit</li> <li>Price (USD) per m²</li> <li>Entitlement (USD)</li> </ul>	<ul> <li>Quantity(m²)</li> <li>Unit Price (USD)</li> <li>per m²</li> <li>Entitlement (USD)</li> </ul>	<ul><li>Quantity Unit</li><li>Unit Price (USD)</li><li>Entitlement (USD)</li></ul>	<ul><li>Quantity Unit</li><li>Unit Price(USD)</li><li>Entitlement (USD)</li></ul>	

## **Annex 2 Participants List of Consultative Meetings**

## (1): Participants List of the 1st Public Consultation Meeting

No	Names	Organization	Position	Contact
1.	HABIMANA Anastase	Bugera	Farmer	0788591827
2.	TURATSINZE Siste	Ndekwe	Farmer	0786973171
3.	SINGIRANKABO J. Claude	Ndekwe	Executive Secretary of	0787157813
			the Cell.	
4.	UFITIKIREZI Colette (Fe)	Bugera	Executive Secretary of	0787157810
			the Cell.	
5.	MUNYURANGABO Félicien	Bugera	Farmer	0784281474
6.	NIYIGENA J.M V	Bugera	Farmer	0784393007
7.	NSABIYUMVA Eric	Muhurire	Farmer	0784919635
8.	NDAGIJIMANA Wellars	Muhurire	Farmer	0784350035
9.	NTEZIMANA Emmanuel	Muhurire	Farmer	0783872296
10.	MANIRAGENA J. Damascéne	Ndekwe	Farmer	0785127477
11.	UBONYEBENSHI Joseph	Ndekwe	Farmer	0725334050
				0731076695
12.	MUKAGIRUKWAYO Everusi (Fe)	Rujambarara	Farmer	0787685803
13.	MUKANKURANGA Ernestina (Fe)	Rujambarara	Farmer	
14.	MUTABAZI	Rujambarara	Farmer	
15.	NIYITEGEKA Philemon	Bugera	Farmer	0728096007
16.	NTAWIRINGIRA Elie	Ndekwe	Farmer	0783672297
17.	MURAGIJEMWABO Arcade	Rurenge	Executive Secretary of	0787236665
			Rurenge Sector	
18.	NZAHABWANAYO Gaspard	Rujambara	Executive Secretary of	0784190535
			Rujambara Cell	
19.	MANAGUSA African	Muhurire	S.E.D of Cell	0788650593
20.	NTAKAVURO Emmanuel	Rurenge	Farmer	0788770385
21.	MUKARUKUNDO Victoire	Remera Sector	Executive Secretary of	0783696013
			Remera Sector	

## (2) Participants List of the 2nd Public Consultation Meeting

	Name	Institution	Position	Mobile Number
1	Mr. NZABIRINDA Damien	Rurenge Sector	Agronomist	0788656113
2	Mr. NZABONIMPA Eraste	Remera Sector	Agronomist	0788500754
3	Mr. RURANGIRWA Shabani	Remera Sector	Acting Executive Secretary	0788568785
4	Mr. UWIMANA J.M.V	Rurenge Sector	Acting Executive Secretary	0783468668
5	Mr. NZAHABWANAYO Gaspard	Rujambara Cell	SEDO	0784190535
6	Mr. KARIKUMUTIMA J Paul	Mbonwa Village	Village Head	0783747921
7	Mr. BASHIR Amur	Nyamata Village	Village Head	0725112503
8	Mr. SINGIRANKABO Jean Claude	Ndekwe Cell	Executive Secretary	0787157813
9	Mr. KAYITANA Eric	Rukore Village	Village Head	0785573038
10	Mr. NDAYISABYE Jean Bosco	Ndekwe Village	Village Head	0783587643
11	Mr. HABIMANA Anastase	Gasebeya Village	Village Head	0788591827
12	Mr. MVUYEKURE Faustin	Ruhuha Village	Village Head	0786966766
13	Mr. MUTSINZI Jean Pierre	Cyakabiri Village	Village Head	0783774216
14	Mr. NYATANYI Benjamin	Rugando Village	Village Head	0784902998
15	Mr. MAKERERA Alexandre	Rwikubo Cell	Executive Secretary	0787236663
16	Mr. TUMUSHIME Joseph	Rugera Cell	SEDO	0788806106
17	Ms. NFITIMANA Regina	Muhurire Cell	Executive Secretary	0787236668
18	Mr. NSABIYUMVA Eric	Gitobe Village	Village Head	0784919635
19	Mr. RWABARINDA Jean de Dieu	Gisunzu Village	Village Head	0786966849
20	Ms. MUKAMUREGO Philomene	Kiyanja Village	Village Head	0785975689

	Name	Institution	Position	Mobile Number
21	Mr. RUTAGUNGIRA Theogene	Mashyoza Village	Village Head	0737820599
22	Mr. HABINEZA Theoneste	Urusagara Village	Village Head	0783162688
23	Mr. HABIYAKARE Jean Baptist	Nyabaganza Village	Village Head	0786966873
24	Ms. MUKAYUHI Beatrice	Akarambaraye Village	Village Head	0782926966
25	Mr. NIZEYIMANA Emmanuel	Kabeza Village	Village Head	0786966875
26	MANIRAGENA Damascene	Gikomero Village	Village Head	0785127477
27	Mr. MAJYAMBERE Silas	Nkenke Village	Village Head	0722412030
28	Ms. UFITIKIREZI Colleta	Bugera Cell	Executive Secretary	0787157810
29	Mr. UWUHOREYE Venuste	Kivugangoma Village	Village Head	0786966883
30	Mr. MANIRAFASHA Emmanuel	GCS Ltd	Technical Assistant	0788889545
31	Mr. BIGAGAZA Jean	GCS Ltd	Team Leader	0788306659
32	Mr. HABAKUBAHO Theogene	LWH/RSSP	Safeguard Specialist	0788643282
33	Mr. NGARUKIYE Blaise	IM T/F	Irrigation Engineer	0788600560
34	Mr. NIYONGABIRE Janvier	Ngoma District	Agronomist	0788277622
35	Mr. TATSUYA leizumi	JICA Study Team	Team Leader	0782857832
36	Mr. NTEZIREMBO Valens	JICA Study Team	Administrative Assistant	0788358759
37	Ms RIE Kitao	JICA Study Team	Environmental and	0782859375
			Social Consideration	
38	Mr. IMPETA Fred	JICA Study Team	Field Manager	0788598136

## (3) Participants List of the 3rd Public Consultation Meeting

## Jica Representatives:

Name	Institution
1. Mr. MATSUMOTO	Senior advisor, JICA headquarters
2. Mr. Tatsuki NODA	Program Manager, JICA Rwanda
3. Mr. Pascal FURAHA	Program coordinator, JICA Rwanda
4. Mr. Jules NZABONIMAA	Assistant to Irrigation advisor
5. Mr. Tatsuya IEIZUMI	Team Leader of the Consultant Team

## The Rwandan Government Officers and Representatives of Beneficiaries:

Name	Institution
Blaise NGARUKIYE MINAGRI,	GFI Contract Manager in Mechanization and Irrigation
	Task Force
2. Mr. Janvier NIYONGABIRE	Ngoma district, District agronomist
3. Mr. Africa MANAGUSA	Rurenge sector, SEDO of cell
4. Mr. Gaspard NZAHABWANAYO	Rurenge sector, SEDO of cell
5. Mr. Jean Claude SINGIRANKABO	Remera Sector, Executive secretary of cell
6. Ms. Collette UFITIKIREZI	Remera Sector, Executive secretary of cell
7. Mr. Anastase HABIMANA	Remera Sector, Head of village
8. Mr. Justin TURATSINZE	Remera Sector, Farmers mobilize
9. Mr. Etienne MUTABAZI	Remera Sector, Member of sector council
10. Mr. Arcade MURAGIJEMUNGU	Rurenge sector, Executive Secretary
11. Mr. Emmanuel NTEZIMANA	Rurenge sector, Representative of farmers
12. Mr. Emmanuel NTAKAVURO	Rurenge sector, Representative of farmers
13. Mr. Eric NSABIYUMVA	Rurenge Sector, Head of village
14. Mr. Wellars NDAGIJIMANA	Rurenge sector, Representative of farmers
15. Ms. Ernestine MUKANKURANGA	Rurenge sector, Representative of farmers
16. Ms. Eveus MUKAGIRUKWAYO	Rurenge sector, Representative of farmers

## **Annex 3 Sample Grievance Redress Form**

Grievance Form		
Grievance Number		Copies to forward to:
Name of the recorder		(Original) Receiver Party
District/ Sector/Cell		(Copy)- Responsible Party
Date		
INFORMATION ABOUT GRI	IEVANCE	
Define The Grievance		
INFORMATION ABOUT TH	E COMPLAINANT	Forms of Receive
Name-Surname		Phone line
Address		Community/Information meetings
Village/ Cell		Mail
Sector/ District		Informal
Signature of Complainant		Other

## **Details of Grievance**

6.Incidents	7.Resettlement	8.EmDPCOy	9.Construction Camp and	10.0ther
Regarding	Process	ment and	Community Relations	(specify)
Expropriation	(specify)	recruitment	<ul> <li>Nuisance from dust</li> </ul>	
and		(Specify)	<ul> <li>Nuisance from noise</li> </ul>	
Compensation			<ul> <li>Vibrations due to explosions</li> </ul>	
(Specify)			<ul> <li>Misconduct of the project</li> </ul>	
			personal/worker	
			Complaint follow up Other	

## **Grievances Close Out Form**

Grievance Number:
Define immediate action required:
Define long term action required (if necessary)

## $\label{lem:corrective} \mbox{ Verification of corrective action and sign off }$

Corrective action taken	Due date

## **Responsible Party**

<b>Notes</b> : This part will be filled in and signed by the complainant when he/she receives the												
compensation or file is closed out												
Complainant:												
Name and Signature												
Date												
Representative of Responsible Party												
Title, Name and Signature												
Date:												

## Appendix 6.4 (1)センサス調査質問票 (湿地帯)

## **Questionnaire for Household Survey (Marshland)**

## **Interviewee's Profile**

Name: Mr./Ms.		Age:	Mobile	No.:	
Sector:		<u> </u>			
Cell:	Villaş	ge (Umudugudu):		_	
Number of family member w	ho live with you	(including you): [	Male:	Female:	1
Q1. Number of person older	than 65 years old	<u>d:</u>			
Q2. Sex of head of family:	Male	Female			
Q3. Educational status of hea	nd of family:				
None	Primary	Secondary (up	to grade 9)		
Secondary (up to gra	de 12)	College			
Q4: Are there handicaps in ye	our family?	Yes	No <u>H</u>	ow many? [	]
Domestic Finance					
Q5. What is main income sou	ırce?:				
Farming Lab	or Oth	ners (please specify	:	)	
Q6. How many bags do you	sell every year a	after harvesting for	each crop in	n all farming plo	ots you have
in marchland and at hillside (	=not only subm	erged area but also	hillside too)	<u>?</u>	
Crop	Bags/ y	year	Price/bag		
Crop	Bags/ y	year	Price/bag	, 1	
Crop	Bags/y	year	Price/bag		
Crop	Bags/ y	year	Price/bag		
Q7: How much do you spend	l for farm inputs	annually?			
Seed:	(Rwf/ye	ear)			
<u>Fertilizer</u>	(Rwf/y	<u>ear)</u>			
Pesticide	(Rwf/y	ear)			
Q8. What are other income se	ources apart fron	n farming?:			
Q9. How much annual gross	cash income apa	art from farming yo	u get?:	(Rwf/year	· <u>)</u>
Q10. How many seasons do	you cultivate per	year in the marshla	and in the af	fected (submerg	ged) area?
Q11: How many bags of crop	o do you produce	e annually in the aff	ected (subm	nerged) area?	
Crop:	, Bags:_	,	Nos. of P	lot:	
Size of Plots:	m x	<u>m</u>			
Size of Plots:	m x	<u>m</u>			
Size of Plots:	m x	<u>m</u>			

Crop:	,	Bags:	,	Nos. of Plot:	
Size of Plots:		m x	<u>m</u>		
Size of Plots:		m x	<u>m</u>		
Size of Plots:		m x	<u>m</u>		
Crop:	,	Bags:		Nos. of Plot:	
Size of Plots:		m x	<u>m</u>		
Size of Plots:		m x	<u>m</u>		
Size of Plots:		m x	<u>m</u>		
Q12. How many far	ming plots d	o you have any	where outside	of affected (submerg	ged) area?-size and
crops/year?					
Plot A:	m x	m, cro	ps/year		
Plot B:	m x	m, cro	ps/year		
Plot C:	m x	m, cro	ps/year		
Q13.How many seas	ons do you g	row anywhere o	utside of subme	erged area (around 6	0m from limitation
of marshland)?					
Q14: How many se	easons do vo	u grow outside	of submerged	area (around 60m	from limitation of
marshland)?	asons do yo	u grow outside	or submerged	area (around oom	nom minuation of
marsmana).					
<b>Living Conditions</b>					
Q15.How many year	s have you li	ved in this area:	(	(years)	
Q16. What is water s	source of don	nestic use in rain	y season:		
Tap water	Well	River/lake	Rain water	Spring	Shallow well
Q17.What is water se	ource of dom	estic use in dry	season:		
Tap water	Well	River/lake	Rain water	Spring	Shallow well
Q18 : Availability of	electricity:		Yes	No	
Others					
Q19. Do you cultiva	te in the mars	shland (submerge	ed area)? Y	es No	
Q20.Do you have a	n official la	nd use certifica	te for cultivati	on (usufruct) in the	marshland in the
affected area?					
	No	Othora	nlagge specify		,
Yes			please specify	anna d'anna (billaida)	)
Q21.Do you have La	ma uue oi iai	ia iocatea in iim	ntation on Subm	icigeu area (miiside)	: Allu Size of plot
Yes	m x	n	<u>n</u> ;	m x	<u>m</u>
No					
Q22. Do you want to	continue far	ming activity wl	nen the project	comes? Yes	No

## Appendix 6.4 (2) センサス調査質問票 ( 丘陵地 )

## Questionnaire for Household Survey (Hillside)

Interviewee's Profile	<b>A</b>	Makita Ni
	Age:	Mobile No.:
Sector:	Im du au du	
Cell:U	_	(including year) ( Malay Esmelay 1
Number of family mem	ber who live with you	(including you) : [Male:Female:]
Q1. Number of person of	older than 65 years old	:
Q2. Sex of head of fam	ily: []	
Q3. Educational status	of head of family:	
None	Primary	Secondary (up to grade 9)
Secondary (up t	o grade 12)	College
Q4: Are there handicap	s in your family?	
Ye	s	
No	)	
If yes	, how many? [	]
Domestic Finance		
Q5. What is main incon	ne source?	
Fa	rming	
La	bor	
Ot	hers (please specify:	)
Q6. How many bags do	you sell every year af	ter harvesting for each crop in all farming plots you hav
(=in all of your farmlan	•	
Crop	Bag	Price/bag

Q7: How much do you spend for farm inputs annually?

	Seed:	(Rwf/year)			
	Fertilizer	(Rwf/ye	ar)		
	Pesticide	(Rwf/ye	ar)		
	Labor	(Rwf/year)			
Q8. `	What are other in	come sources apart from f	armi	ng?	
<b>Q</b> 9. ]	How much annua	l gross cash income apart	from	farming you get?(Rwf	f/year)
Q10.	. How many seaso	ons do you cultivate per ye	ear ir	n the hillside in the affected (su	bmerged) area?
Q11:	How many bags	of crop do you produce a	ınua	lly in the affected (submerged)	area?
	Crop:	, Bags:	.,	Plot UPI No.:	
	Size of Plots:	m x	m		
	Crop:	, Bags:	,	Plot UPI No.:	
	Size of Plots:	m x	m		
	Crop:	, Bags:	,	Plot UPI No.:	
	Size of Plots:	m x	m		
	Crop:	, Bags:	,	Plot UPI No.:	
	Size of Plots:	m x	m		
	Crop:	, Bags:	,	Plot UPI No.:	
	Size of Plots:	m x	m		
	Crop:	, Bags:	,	Plot UPI No.:	
	Size of Plots:	m x	m		
	Crop:	, Bags:	,	Plot UPI No.:	
	Size of Plots:	m x	m		
Q12.	. Haw large farml	and do you have outside o	f the	e affected (submerged) area?	
	_	m x			
		m x			
		m x			
		m x			
		m x			
		m x			
	Size of Plots:				

Q13.How many years have you lived in this area: (years)

Q14. '	What is water source of domes	stic use in rainy season?
	Tap water	
	Well	
	River/lake	
	Rain water	
	Spring	
Q15.V	What is water source of domes	tic use in dry season:
	Tap water	
	Well	
	River/lake	
	Rain water	
	Spring	
Q16: A	Availability of electricity:	
	Yes	
	No	
Other	rs	
Q 17 1	Oo you have official authoriza	ation by the government to use the land at hillside?
	Yes	No
Q18 I	Oo you cultivate in the marshla	and (submerged area)?
	Yes	
	NT.	
	No	
Q19	Do you cultivate in the area	(marchland) which will be submerged in the reservoir?
Q 20	Do you have official author	prization by the government to cultivate in the marchland? (Do you
	have authorization to use g	government land)?
	Yes	
	No	
Oth	ers (Please specify:	)

Q21	Do you have official authorization by the government to cultivate in the command area? (Do
	you have authorization to use government land)?
	Yes
	No
	Others (Please specify:)
Q22	Would you like to continue cultivation in the marshland if project starts?
	Yes
	No
Q23	Apart from agricultural technical assistance, what other technical assistance would you like
	to get from the government?

No. Sector Cell Village Name of householder Age Phone number of male family members of person of person of family members of female family members of person older than 65 years old carpentry.  Rurenge Rujambara Akarambaraye NSHIMYUMUREMYI Richard* 44 0783736410 2 1 0 Male Secondary Low 0 Carpentry Sorghur 2 Rurenge Rujambara Kabeza MUKAMWAMBUTSA Bellancille 42 0786536250 3 3 0 Female Primary 0 Agriculture Eggplan 3 Rurenge Muhurire Gitobe MURENZI Joseph 32 0784819425 2 1 0 Male Primary 0 Agriculture Eggplan 4 Rurenge Rujambara Nyabaganza SIMBURIBYAGO Jean 64 N/A 4 2 0 Male None 0 Agriculture Sorghur	bags for sale         price/bag (Rwf)         1st crop         2nd crop name         bags for sale           n         5         20,000         100,000         Beans         0           t         10         7,000         70,000         Carrot
2 Rurenge Rujambara Kabeza MUKAMWAMBUTSA Bellancille 42 0786536250 3 3 0 Female Primary 0 Agriculture Eggplan 3 Rurenge Muhurire Gitobe MURENZI Joseph 32 0784819425 2 1 0 Male Primary 0 Agriculture Eggplan	t 10 7,000 70,000 Carrot
3 Rurenge Muhurire Gitobe MURENZI Joseph 32 0784819425 2 1 0 Male Primary 0 Agriculture Eggplan	
7 2 201	t 3 12,000 36,000 Carrot 1:
4 Rurenge Rujambara Nyabaganza SIMBURIBYAGO Jean 64 N/A 4 2 0 Male None 0 Agriculture Sorghur	
	n 2 22,000 44,000 Beans
5 Rurenge Rujambara Nyabaganza GATETE James* 37 0788481571 3 4 0 Male Primary 0 Agriculture Beans	4 30,000 120,000 Sorghum 10
6 Rurenge Rujambara Akarambaraye NYIRANTWARI Violette 54 0782926965 2 7 0 Female Primary 2 Agriculture Sorghur	n 3 20,000 60,000 Beans
7 Rurenge Rujambara Nyabaganza MUKAKABARE Genifa* 84 0725383436 2 1 1 Female None 0 Agriculture Sorghur	n 10 30,000 300,000 Cabbage 1-
8 Rurenge Rujambara Nyabaganza KAREGA Cyprien* 50 0782453960 4 3 0 Male Primary 1 Agriculture Cabbago	e 8 5,000 40,000 Sorghum
9 Rurenge Rujambara Nyabaganza MUDAHERANWA Augustin 54 0784537669 3 2 0 Male Primary 0 Agriculture Maize	10 30,000 300,000 Beans
10 Rurenge Rujambara Akarambaraye NYIRABUNEGERWA 59 0727293436 3 4 0 Female None 1 Agriculture Sorghur	n 8 24,500 196,000 Cassava
11 Rurenge Rujambara Nyabaganza NUMVIYUMUKUZA Frederic 46 0783046129 3 4 0 Male Primary 0 Agriculture Cabbag	e 15 7,000 105,000 Sorghum
12 Rurenge Rujambara Akarambaraye UWIRINGIYE Clementine* 33 N/A 2 3 0 Female None 0 Agriculture Sorghur	n 3 25,000 75,000 Maize
13 Rurenge Rujambara Nyabaganza NYIRANDEGEYA Safina 65 0788624319 1 4 0 Female None 1 Agriculture Beans	9 25,000 225,000 Sorghum 10
14 Rurenge Muhurire Gitobe NSHIMYUMWUNGERI Oziel 45 0788227524 5 1 0 Male Primary 0 Agriculture Beans	4 25,000 100,000 Sweet potatoes
15 Rurenge Muhurire Gitobe MUNYENGABE Fabien 37 0788957794 4 1 0 Male Primary 0 Agriculture Beans	3 30,000 90,000 Sorghum
16 Rurenge Rujambara Akarambaraye NDAYISENGA Papias 25 N/A 2 1 0 Male Primary 0 Agriculture Sorghur	n 5 20,000 100,000 Beans
17 Rurenge Muhurire Gitobe NTEZIMANA Emmanuel 48 0783872296 6 2 0 Male None 0 Agriculture Cabbag	e 8 10,000 80,000 Sorghum
18 Rurenge Rujambara Mashyoza HANAMBINTWALI Emmanuel 29 N/A 1 3 0 Male None 0 Agriculture Sorghur	n 3 15,000 45,000 Beans 0
19 Rurenge Rujambara Nyabaganza BUGINGO David 62 N/A 3 4 0 Male None 0 Agriculture Coffee	7 15,000 105,000 Sorghum
20 Rurenge Rujambara Nyabaganza KABERA Fidèle 42 N/A 4 2 0 Male None 0 Agriculture Sorghur	n 3 20,000 60,000 Maize
21 Rurenge Rujambara Nyabaganza NSANZINEZA Alexis* 37 0788957794 3 2 0 Male Primary 0 Agriculture Cabbag	e 10 15,000 150,000 Sorghum
22 Rurenge Rujambara Akarambaraye MUKAKALISA Joselyne 57 0782493784 4 2 1 Female Primary 0 Agriculture Sorghur	n 3 25,000 75,000 Maize
23 Rurenge Muhurire Gitobe MUGEMANA Telesphore 67 0783370085 4 2 2 Male Primary 0 Agriculture Tomato	12.5 8,000 100,000 Sorghum
24 Rurenge Rujambara Akarambaraye RIZINDE 31 0783385727 2 2 0 Male Primary 0 Agriculture Sorghur	n 3 20,000 60,000 Beans
25 Rurenge Rujambara Nyabaganza SEMANA Joseph 44 0783370526 5 3 0 Male Primary 0 Agriculture Cabbag	e 20 6,000 120,000 Carrot 10
26 Rurenge Rujambara Nyabaganza NYIRANSABIMANA Denyse* 40 0784184501 3 2 0 Female Secondary Low 0 Agriculture Beans	5 40,000 200,000 Sweet potatoes
27 Rurenge Rujambara Nyabaganza NTAKAVURO Emmanuel* 43 0788770385/ 7 10 0 Male Secondary Low 0 Agriculture Cabbago	e 20 6,500 130,000 Sweet potatoes 10
28 Rurenge Rujambara Akarambaraye MUNYESHYAKA Théogène 27 0788957794 2 2 0 Male Primary 0 Agriculture Sorghur	n 5 20,000 100,000 Beans
29 Rurenge Rujambara Akarambaraye NTIVUGURUZWA Theogene 34 0786735219 3 2 0 Male Primary 0 Agriculture Eggplan	t 20 15,000 300,000 Cabbage
30 Rurenge Rujambara Nyabaganza MUNYABUGINGO Pascal 44 N/A 3 5 0 Male None 0 Agriculture Sorghur	n 8 20,000 160,000 Eggplant
31 Rurenge Rujambara Akarambaraye NUBUHORO Anastasie 70 N/A 2 3 1 Female None 1 Agriculture Sorghur	n 2 21,000 42,000 Beans 0
32 Rurenge Muhurire Gitobe RUKERATABARO Stanislas 53 N/A 2 6 1 Male Primary 0 Agriculture Maize	4 35,000 140,000 Sorghum 1
33 Rurenge Rujambara Akarambaraye NIYONIZERA Oscar 21 078697344 2 1 0 Male Primary 0 Agriculture Sorghur	n 6 20,000 120,000 Beans
34 Rurenge Rujambara Nyabaganza MUJAWAMARIYA Francoise 40 N/A 2 3 0 Female Primary 0 Agriculture weet pota	to 1 6,000 6,000 Cassava
35 Rurenge Rujambara Nyabaganza RENZAHO Tharcisse 32 N/A 2 2 0 Male None 0 Agriculture Sorghur	n 10 20,000 200,000 Beans

<b>9</b> 411 C	).5 (1) E.	ノリハ門旦	神术(2245年	F) (Rurenge)															
No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicappe d person	Q5. Main income source	Q6. 1st crop name	Q6.1 st crop bags for sale	Q6.1 st crop price/bag (Rwf)	income from 1st crop	Q6. 2nd crop name	Q6.2nd crop bags for sale
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	65	N/A	0	1	0	Female	None	0	Agriculture	Sorghum	3	25,000	75,000	Beans	2
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	50	0726480059	0	3	1	Female	None	0	Agriculture	Onion	2	15,000	30,000	Sorghum	1
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	60	N/A	1	1	2	Male	None	0	Agriculture	Cabbage	2	23,000	46,000	Sweet potatoes	1
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	61	N/A	2	3	0	Male	None	1	Agriculture	Sorghum	1	18,000	18,000	Beans	1
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	46	N/A	4	3	1	Male	None	0	Agriculture	weet potato	2	10,000	20,000	Sorghum	3
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	53	N/A	4	1	0	Male	None	0	Agriculture	Cabbage	15	10,000	150,000	Eggplant	20
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	73	N/A	2	2	2	Male	None	0	Agriculture	Coffee	4	48,000	192,000	Sweet potatoes	3
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	61	N/A	1	2	0	Female	None	0	Agriculture	weet potato	5	7,000	35,000	Cabbage	10
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	60	N/A	0	1	0	Female	None	0	Agriculture	Sorghum	2	20,000	40,000	Sweet potatoes	3
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	50	N/A	3	2	0	Female	Primary	1	Agriculture	Sorghum	4	30,000	120,000	Beans	1
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	61	N/A	0	4	0	Female	Primary	0	Agriculture	Coffee	5	10,000	50,000	Sorghum	3
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	53	N/A	4	2	0	Female	Primary	1	Agriculture	Carrot	8	5,000	40,000	Eggplant	10
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	31	N/A	2	3	0	Male	Primary	0	Agriculture	Cabbage	10	10,000	100,000	Sweet potatoes	6
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	54	N/A	0	1	0	Female	Primary	0	Agriculture	Sorghum	1	20,000	20,000	Potatoes	1
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	29	N/A	3	2	0	Male	None	0	Agriculture	weet potato	3	10,000	30,000	Beans	3
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	45	N/A	2	2	0	Male	None	0	Agriculture	Cabbage	7	7,000	49,000	Eggplant	15
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	50	0782927032	3	5	0	Male	Primary	1	Agriculture	Cabbage	10	5,000	50,000	Sorghum	6
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel	34	N/A	6	2	0	Male	None	0	Agriculture	Sorghum	1	20,000	20,000	Cassava	0.5
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina	34	0787158756	0	2	0	Female	None	0	Agriculture	Sorghum	0.5	10,000	5,000	Cabbage	18
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene	34	0784820770	2	2	0	Male	Primary	0	Agriculture	Rice	6	25,000	150,000	Sorghum	2
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	47	N/A	5	5	0	Female	Primary	1	Agriculture	Potatoes	2	8,000	16,000	Eggplant	7
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse	36	N/A	3	3	0	Male	Primary	0	Agriculture	weet potato	2	12,000	24,000	Eggplant	2
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO	31	N/A	3	6	0	Male	Primary	0	Agriculture	Sorghum	3	20,000	60,000	Cabbage	8
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert	35	N/A	2	3	0	Male	Primary	0	Agriculture	Cabbage	7	3,000	21,000	Beans	3
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	38	0782887956	4	2	0	Male	Primary	0	Agriculture	Eggplant	7	10,000	70,000	Sorghum	5
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette	28	N/A	1	2	0	Female	None	0	Agriculture	Sorghum	3	20000	60,000	Cassava	2
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens	26	0725178001	2	2	0	Male	Primary	0	Agriculture	Sorghum	6	25,000	150,000	Cabbage	9
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste	35	0784258494	3	3	0	Male	None	0	Agriculture	Eggplant	5	6,000	30,000	Cabbage	5
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine	29	0785432223	1	4	0	Female	Primary	0	Agriculture	weet Potato	4	7,500	30,000	Eggplant	5
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens	26	727250709	3	3	0	Male	Primary	0	Agriculture	Sorghum	15	25,000	375,000	Beans	5
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	43	N/A	2	3	0	Male	Primary	0	Agriculture	Sorghum	2	20,000	40,000	Eggplant	5
67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique	59	0787183545	1	1	0	Female	None	0	Agriculture	weet Peppe	30	8,000	240,000	Celery	15
68	Rurenge	Rujambara	Nyabaganza	MUKANKUSI Juliette*	54	N/A	3	6	1	Female	Primary	1	Agriculture	Sorghum	5	21,000	105,000	Sweet potatoes	1
69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel	30	0784821074	2	4	0	Male	None	0	Agriculture	Cabbage	9	7,000	63,000	Eggplant	4
70	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Joseph	35	0786651510	3	3	0	Male	Primary	0	Agriculture	Tomato	10	4,000	40,000	Eggplant	15
71	Rurenge	Rujambara	Nyabaganza	MPAGAZEHE Gerrard	34	N/A	3	6	0	Male	Primary	1	Agriculture	Cabbage	2	14,200	28,400	Sweet Papper	30
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin	21	0722629464	3	1	1	Male	Primary	0	Agriculture	Sorghum	6	20,000	120,000	Beans	1
73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.	20	0784919607	1	1	0	Male	None	0	Agriculture	Cabbage	2	5,400	10,800	Sweet potatoes	2

<u> </u>	).O (1) C.	/ / / M-	MIT ( 122-25 II	r) (Nurerige)															
No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicappe d person	Q5. Main income source	Q6. 1st crop name	Q6.1 st crop bags for sale	Q6.1 st crop price/bag (Rwf)	income from 1st crop	Q6. 2nd crop name	Q6.2nd crop bags for sale
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	28	N/A	1	0	0	Male	None	0	Agriculture	Sorghum	10	20,000	200,000	Cabbage	50
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	74	N/A	3	2	1	Male	None	0	Agriculture	Sorghum	30	20,000	600,000	Maize	2
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*	57	N/A	0	4	0	Female	None	0	Agriculture	Sorghum	1	20,000	20,000	Beans	0.5
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	31	0785500072	3	1	0	Male	None	0	Agriculture	Sorghum	4	25,000	100,000	Sweet potatoes	1
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	31	0784394096	4	3	0	Male	Primary	0	Agriculture	Beans	1	30,000	30,000	Sorghum	2
79	Rurenge	Muhurire	Gitobe	BARAME Silas	50	N/A	4	2	0	Male	None	0	Agriculture	Maize	0.5	20,000	10,000	Sorghum	3
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*	55	0726139419	3	1	0	Female	Secondary Low level	0	Agriculture	Beans	1	25,000	25,000	Sorghum	15
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	36	0783085391	2	1	0	Male	Primary	0	Agriculture	Sorghum	3	25,000	75,000	Sweet potatoes	1
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	47	0784350035	2	2	0	Male	Primary	0	Agriculture	Maize	2	30,000	60,000	Sweet potatoes	7
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	38	0787030269	5	5	0	Male	Primary	0	Agriculture	Cabbage	7	5,000	35,000	Sorghum	3
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	33	N/A	2	1	0	Male	Primary	0	Agriculture	Beans	1	30,000	30,000	Sorghum	8
85	Rurenge	Muhurire	Gitobe	NABAHIRE	56	N/A	1	3	0	Male	None	0	Agriculture	Tomato	30	5,000	150,000	Sweet potatoes	3
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	50	0722885910	2	3	2	Male	Secondary Low level	0	Agriculture	Tomato	25	12,000	300,000	Sorghum	5
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	25	0726621379	2	3	0	Male	None	0	Agriculture	Sorghum	1	18,000	18,000	Beans	1
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	25	072252990	3	1	0	Male	None	0	Agriculture	Sorghum	1	18,000	18,000	Beans	1
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas		N/A	1	5	0	Male	None	0	Agriculture	Sorghum	4	18,000	72,000	Beans	2
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude		0786402161	4	2	0	Male	Primary		Agriculture	Beans	3	30,000	90,000	Maize	3
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie		0727354218	1	5	0	Female	Secondary Low level		Agriculture	Beans	1	30,000	30,000	Maize	0.5
92		Rujambara	Nyabaganza	KAMASORO Vincent	_	N/A	1	3	0	Male	None		Agriculture	Sorghum	5	20,000	100,000	Beans	2
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne		N/A	0	4	1	Female	None		Agriculture	Beans	0.5	15,000	7,500	Sorghum	1
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	_	N/A	3	1	0	Male	None		Agriculture	Beans	0.5	6,000	3,000	Sweet potatoes	10
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*		0789316103	3	1	0	Male	Primary		Agriculture	Sorghum	15	22,000	330.000	Beans	10
96	Rurenge	Muhurire	Gitobe	VUNUHAWE		N/A	3	3	0	Male	Primary		Agriculture	Sorghum	6	20,000	120,000	Beans	2
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric		0784919635	3	5	0	Male	Primary		Agriculture	Sorghum	1	20,000	20,000	Cabbage	1
98	Rurenge	Muhurire	Gitobe	MUHASHYI		N/A	2		0	Male	Primary		Agriculture	Carrot	5	5,000	25,000	Sorghum	1
99	Rurenge	Muhurire	Gitobe	KAWERA		N/A	2	2	0	Female	Primary		Agriculture	Carrot	2	20,000	40,000	Sorghum	2
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura		N/A	1	2	0	Male	None	0	Agriculture	Coffee	2	15,600	31,200	Sorghum	1
100	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa		0783427275	1	5	Ü	Male	Primary	0	Agriculture	Sorghum	4	20,000	80,000	Beans	1
101		Muhurire	Gitobe	RWAGATERA		0786011853	1	1	0	Male	None		Agriculture	Sorghum	1	25,000	25,000	Sweet potatoes	1
102	Rurenge Rurenge	Muhurire	Gitobe	BAZIRA		0786859378	2	1	0	Male	Primary		Agriculture	Sorghum	2	20,000	60,000	Cabbage	2
103	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	-	0784350149	2	2	1	Male	Primary		Agriculture	Carrot	1	10,000	10,000	Maize	2
				BAMAZIKI Fabien		0782675713	3		1		·	1			2	18,000	54,000		3
105	Rurenge	Muhurire	Gitobe Gitobe			0/826/3/13 N/A	4	4	0	Male	Primary None	1	Agriculture	Sorghum Maize	3	20,000	100,000	Maize	1
106	Rurenge	Muhurire		NZEYIMANA Eugène*		N/A 0787360616	4	5	0	Male Male			Agriculture		3	20,000	120,000	Sorghum	3
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	_	N/A	4	3	0		Secondary Up		Education	Sorghum	6			Beans	1
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent			2	1	0	Male	Primary		Agriculture	Sorghum	6	20,000	120,000	Beans	2
	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	_	0783602117	2	2	0	Male	Primary		Agriculture	Sorghum	9	22,000	198,000	Beans	4
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin		N/A	4	2	0	Male	Primary		Agriculture	Sorghum	3	20,000	60,000	Maize	1
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angelique	30	N/A	2	1	0	Male	Primary	0	Agriculture	Sorghum	2	26,000	52,000	Beans	. 1

No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicappe d person	Q5. Main income source	Q6. 1st crop name	Q6.1 st crop bags for sale	Q6.1 st crop price/bag (Rwf)	income from 1st crop	Q6. 2nd crop name	Q6.2nd crop bags for sale
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	35	N/A	2	4	0	Male	Primary	0	Agriculture	Sorghum	2	35,000	70,000	Beans	1
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*	35	0786743495	3	5	0	Male	Secondary Up	0	Agriculture	Sorghum	8	20,000	160,000	Beans	2
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*	34	0728330383	3	3	0	Male	Primary	0	Agriculture	Sorghum	3	19,000	57,000	Beans	1
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde	50	N/A	1	2	0	Female	None	0	Agriculture	Sorghum	1	25,000	25,000	Coffee	2
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	50	N/A	4	4	0	Male	None	0	Agriculture	Eggplant	4	5,000	20,000	Sorghum	1
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	45	N/A	3	4	0	Male	None	1	Agriculture	Sorghum	1	20,000	20,000	Tomato	5
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	34	0783898500	3	3	0	Male	Primary	0	Agriculture	Sorghum	24	20,000	480,000	Beans	8
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste	31	N/A	2	1	0	Male	None	0	Agriculture	Coffee	1.5	15,000	22,500	Beans	2
120	Rurenge	Muhurire	Gitobe	NIBATETE	35	N/A	4	2	0	Male	None	1	Agriculture	Cassava	1	25,000	25,000	Beans	1
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	58	N/A	4	2	0	Male	Primary	0	Agriculture	Beans	7	32,000	224,000	Sorghum	18
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	64	N/A	3	1	0	Male	None	0	Agriculture	Beans	2	30,000	60,000	Sorghum	3
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique	21	0782508002	0	2	1	Female	None	0	Agriculture	Beans	2	18,000	36,000	Sorghum	1
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	32	0782926978	3	5	0	Male	Primary	0	Agriculture	Sorghum	5	22,000	110,000	Maize	2
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	43	0782058300	3	3	0	Male	Primary	0	Agriculture	Beans	5	45,000	225,000	Sorghum	3
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	40	0782184602	3	3	0	Male	None	0	Agriculture	Beans	1	6,000	6,000	Sorghum	1
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	50	0783358684	2	5	0	Male	Primary	0	Agriculture	Sorghum	2	20,000	40,000	Beans	0.5
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	42	0726318640	4	2	0	Male	Primary	0	Agriculture	Beans	1	30,000	30,000	Sorghum	5
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata	34	N/A	2	3	0	Female	None	0	Agriculture	Beans	1	30,000	30,000	Sorghum	4
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	49	0783356358	4	2	0	Male	Primary	0	Agriculture	Beans	2	30,000	60,000	Maize	3
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	46	N/A	5	3	0	Male	Primary	0	Agriculture	Maize	5	25,000	125,000	Cabbage	8
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	33	0786301465	3	1	0	Male	Primary	0	Agriculture	Beans	1	30,000	30,000	Sorghum	4
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien	30	0783689188	2	2	0	Male	Primary	0	Agriculture	Beans	2	20,000	40,000	Maize	3
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	63	N/A	0	1	0	Female	None	0	Agriculture	Beans	1	15,000	15,000	Sorghum	1.5
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*	26	0784282343	2	1	0	Male	Primary	0	Agriculture	Rice	5	25,000	125,000	Sorghum	2
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	54	N/A	7	4	0	Male	Primary	0	Agriculture	Coffee	3	20,000	60,000	Sorghum	5
137	Rurenge	Muhurire	Nyamata	NGENDAHAYO	37	0788868805	4	2	0	Male	Primary	0	Agriculture	Beans	5	35,000	175,000	Maize	4
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele	31	N/A	3	3	0	Male	None	1	Agriculture	Sorghum	6	20,000	120,000	Beans	1
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*	55	N/A	0	2	0	Female	Primary	0	Agriculture	Beans	2	35,000	70,000	Sorghum	7
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	34	0733979725	4	2	0	Male	Secondary Low level	0	Agriculture	Cassava	6		-	Cabbage	5
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	29	0727319360	1	3	0	Male	Primary	0	Agriculture	Beans	2	30,000	60,000	Maize	4
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi	58	N/A	1	3	1	Male	None	0	Agriculture	Beans	1		-	Sorghum	4
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric	26	0787668513	3	2	0	Male	None	0	Agriculture	Tree tomato	3	40,000	120,000	Sorghum	1
144		Rujambara	Mashyoza	GISAGARA	41	N/A	1	0	0	Male	Primary	0	Agriculture	Sorghum	4	20,000	80,000	Beans	1

<sup>\*</sup> The persons have hillside farmlands to be submered.

	,			r (Kurenge)			1											
No.	Sector	Cell	Village	Name of householder	Q6. 2nd crop price/bag (Rwf)	income from 2nd crop	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	income from 3rd crop	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	income from 4th crop	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	income from 5th crop
1	Rurenge	Ruiambara	Akarambarave	NSHIMYUMUREMYI Richard*	30,000	15,000	Cabbage	20	5,000	100,000				-				-
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille	12,000	84,000			.,	-				-				-
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph	17,000	204,000	Celery	4	12,000	48,000	Tomatoes	100	6,000	600,000				-
4		Rujambara	Nyabaganza	SIMBURIBYAGO Jean	30,000	30,000	Cassava	4	18,000	72,000	Coffee	12	12,600	151,200	Cabbage	8	10,000	80,000
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	20,000	200,000	Sweet potatoes	4	10,000	40,000	Sweet Pepper	5	10,000	50,000	Cassava	10	20,000	200,000
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette	30,000	60,000	Cabbage	30	6,000	180,000	Sweet potatoes	20	20,000	400,000			·	-
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	7,500	105,000	Beans	2	60,000	120,000					Eggplant	10	3,000	30,000
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	20,000	140,000				-	Beans	1	30,000	30,000	551		·	-
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	60,000	360,000	Sorghum	20	30,000	600,000	Cabbage	60	10,000	600,000	Sweet potatoes	5	6,000	30,000
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	18,000	108,000	Pili- Pili	13	22,000	286,000	Beans	4	36,000	144,000	•		·	-
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	22,500	157,500	Beans	3	30,000		Sweet potatoes	3	4,000	12,000	Potatoes	6	9,000	54,000
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	30,000	30,000	Cassava	0.5	20,000	10,000	Sweet potatoes	1	10,000	10,000	Potatoes	1	10,000	10,000
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	19,500	195,000	Eggplant	5	12,000	60,000	Cabbage	40	10,000	400,000				-
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	16,000	48,000	Sorghum	6	21,000	126,000	Cabbage	30	6,000	180,000	Coffee	3	15,000	45,000
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	20,000	140,000	Potatoes	4	10,000	40,000	Maize	1	25,000	25,000	Cabbage	3	2,000	6,000
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	30,000	90,000	Potatoes	4	15,000	60,000	Tomatoes	20	10,000	200,000	Sweet potatoes	8	10,000	80,000
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	20,000	60,000	Beans	2	30,000	60,000	Sweet potatoes	4	10,000	40,000	Coffee	3	12,600	37,800
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	9,000	4,500	Cabbage	6	6,000	36,000	Sweet potatoes	7	6,000	42,000	Coffee	3	1,500	4,500
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	21,000	147,000	Cassava	4	7,000	28,000	Beans	6	24,000	144,000	Cabbage	29	4,500	130,500
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	20,000	20,000	Cabbage	10	7,000	70,000	Beans	1	30,000	30,000				-
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	60,000	180,000	Beans	1	30,000	30,000	Peanut	1	20,000	20,000	Sweet potatoes	3	10,000	30,000
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	40,000	160,000	Tomatoes	5	12,000	60,000	Beans	4	30,000	120,000	Sweet potatoes	2	6,000	12,000
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	20,000	80,000	Maize	5	15,000	75,000	Beans	2	30,000	60,000	Cassava	6	8,500	51,000
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	30,000	30,000	Maize	1	7,500	7,500	Cabbage	25	5,000	125,000	Eggplant	10	10,000	100,000
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	5,000	50,000	Sorghum	3	20,000	60,000				-				-
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	10,000	30,000	Sorghum	12	30,000	360,000	Cassava	4	15,000	60,000	Cabbage	10	7,000	70,000
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	10,000	100,000	Sorghum	2	25,000	50,000	Beans	0.5	30,000	15,000	Eggplant	5	12,000	60,000
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	30,000	30,000	Cabbage	5	7,500	37,500	Eggplant	8	7,000	56,000	Sweet potatoes	3	8,000	24,000
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene	12,000	60,000	Sweet potatoes	2	5,000	10,000	Banana	12.5	8,000	100,000				-
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	20,000	100,000	Beans	4	30,000	120,000	Carrot	3	30,000	90,000	Sweet potatoes	4	10,000	40,000
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie	30,000	15,000	Sweet potatoes	1	8,000	8,000	Cabbage	1	4,000	4,000				-
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	20,000	240,000	Sweet potatoes	5	12,000	60,000	Cabbage	3	5,000	15,000	Eggplant	25	4,000	100,000
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	30,000	30,000	Sweet potatoes	1	8,000	8,000	Cassava	1	15,000	15,000	Cabbage	1	8,000	8,000
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Francoise	30,000	60,000	Maize	1.5	36,000	54,000	Coffee	1	48,000	48,000				-
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse	30,000	60,000	Sweet potatoes	1	8,000	8,000	Cabbage	5	20,000	100,000				-

			•	r / (Kurenge)														
No.	Sector	Cell	Village	Name of householder	Q6. 2nd crop price/bag (Rwf)	income from 2nd crop	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	income from 3rd crop	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	income from 4th crop	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	income from 5th crop
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	30,000	60,000	Coffee	4	20,000	80,000	Cabbage	4	6,000	24,000	Sweet potatoes	1	10,000	10,000
-		Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	20,000	20,000	Beans	1	30,000	30,000	Cassava	1.5	10,000	15,000	Carrot	10	4,000	40,000
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	5,000	5,000	Eggplant	6	12,500	75,000				-				-
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	30,000	30,000	Coffee	7	13,000	91,000	Sweet potatoes	2	10,000	20,000				-
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	20,000	60,000	Maize	1.5	36,000	54,000	Cabbage	30	5,000	150,000				-
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	12,000	240,000	Sorghum	2	20,000	40,000	Banana	100	4,000	400,000				-
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	24,000	72,000	Sorghum	6	120,000	720,000	Cabbage	8	5,000	40,000				-
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	6,000	60,000	Celery	1	12,000	12,000	Carrot	5	9,000	45,000				-
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	5000	15,000	Tomato	5	9,000	45,000	Eggplant	4	6,000	24,000				-
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	30,000	30,000	Carrot	7	4,000	28,000	Cabbage	8	7,500	60,000				-
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	20,000	60,000	Beans	1	30,000	30,000	Cassava	2	7,000	14,000	Sweet potatoes	4	9,000	36,000
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	4,000	40,000	Sorghum	4	20,000	80,000	Beans	2	30,000	60,000	Sweet potatoes	10	6,000	60,000
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	10,000	60,000	-			_				-	Carrot	2	5,000	10,000
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	10,000	10,000	Sweet potatoes	1	10,000	10,000	Eggplant	3	15,000	45,000				-
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	30,000	90,000	Tomato	20	13,000	260,000	Sorghum	5	20,000	100,000	Cassava	3	15,000	45,000
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	10,000	150,000	Sorghum	4	20,000	80,000	Cassava	2	25,000	50,000	Sweet potatoes	6	6,000	36,000
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	25,000	150,000	Beans	3	40,000	120,000	Cassava	5	25,000	125,000	Eggplant	8	10,000	80,000
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel	20,000	10,000	Cabbage	4	7,500	30,000	Tomato	5	8,000	40,000				-
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina	8,000	144,000	Eggplant	5	15,000	75,000	Sweet potatoes	3	10,000	30,000				-
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene	23,000	46,000	Sweet potatoes	3	7,000	21,000	Cabbage	10	4,000	40,000	Maize	1.5	28,000	42,000
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	10,000	70,000	Sorghum	6	20,000	120,000	Beans	1	30,000	30,000	Tomato	5	8,000	40,000
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse	18,000	36,000	Pili Pili	1	80,000	80,000	Banana	10	3,000	30,000				-
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO	5,000	40,000	Eggplant	4	4,800	19,200	Rice	6	30,000	180,000				-
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert	30,000	90,000	Maize	2	20,000	40,000	Sweet potatoes	2	10,000	20,000				-
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	20,000	100,000	Beans	2	30,000	60,000	Cassava	4	20,000	80,000	Potatoes	6	7,000	42,000
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette	15,000	30,000	Potatoes	2	25,000	50,000	Sweet Potatoes	4	5,000	20,000	Eggplant	7	15,000	105,000
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens	12,000	108,000	Sweet potatoes	12	10,000	120,000	Beans	6	50,000	300,000	Eggplant	4	12,000	48,000
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste	4,000	20,000	Sorghum	4	20,000	80,000	Maize	2	30,000	60,000				-
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine	8,000	40,000	Sorghum	3	15,000	45,000	Beans	1	20,000	20,000	Maize	1	17,000	17,000
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens	3,000	15,000	Eggplant	10	5,000	50,000	Sweet potatoes	3	5,000	15,000	Cabbage	10	10,000	100,000
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	2,500	12,500	Cabbage	2	7,500	15,000	Maize	1	15,000	7,500	Sweet potatoes	6	8,000	48,000
67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique	10,000	150,000	Eggplant	20	5,000	100,000	Maize	2	25,000	50,000				-
68	Rurenge	Rujambara	Nyabaganza	MUKANKUSI Juliette*	6,000	6,000	Beans	1	25,000	25,000	Potatoes	2	10,000	20,000				-
69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel	12,000	48,000	Sorghum	5	25,000	125,000	Beans	2	50,000	100,000				-
70	Rurenge	Rujambara		NSANZINEZA Joseph	12,000	180,000	Carrot	6	7,000	42,000	Cabbage	30	9,000	270,000				-
71	Rurenge	Rujambara	Nyabaganza	MPAGAZEHE Gerrard	7,000	210,000	Eggplant	40	12,500	500,000	Sorghum	2	23,000	46,000	Tomato	25	10,000	250,000
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin	30,000	30,000	Eggplant	3	15,000	45,000	Sweet potatoes	4	9,000	36,000	Carrot	3	12,000	36,000
73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.	13,500	27,000	Sorghum	5	24,000	120,000	Cassava	2	20,000	40,000				-

	,.o (., <u> </u>	/ / / M-	柳木 ( 温心	₩ ) (Rurenge)														
No.	Sector	Cell	Village	Name of householder	Q6. 2nd crop price/bag (Rwf)	income from 2nd crop	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	income from 3rd crop	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	income from 4th crop	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	income from 5th crop
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	10,000	500,000	Maize	3	30,000	90,000	Sweet potatoes	5	10,000	50,000	Carrot	2	2,000	4,000
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	35,000	70,000	Beans	3	30,000	90,000	Cabbage	10	6,000	60,000	Carrot	5	5,000	25,000
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*	30,000	15,000	Maize	1.5	20,000	30,000	Sweet potatoes	1	11,000	11,000				-
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	14,000	14,000	Banana	10	10,000	100,000	Eggplant	20	6,000	120,000	Sweet Pepper	20	6,000	120,000
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	20,000	40,000	Sweet potatoes	2	10,000	20,000	Cabbage	4	5,000	20,000	Carrot	2	15,000	30,000
79	Rurenge	Muhurire	Gitobe	BARAME Silas	18,000	54,000				-				-				-
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*	20,000	300,000	Sweet potatoes	1	5,000	5,000	Cabbage	5	6,000	30,000				-
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	12,000	12,000	Maize	1	21,000	21,000				-				-
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	10,000	70,000	Eggplant	4	5,000	20,000	Potatoes	3	7,000	21,000				-
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	20,000	60,000	Beans	2	30,000	60,000	Cassava	4	10,000	40,000	Sweet potatoes	3	10,000	30,000
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	20,000	160,000	Cabbage	20	2,000	40,000	Eggplant	10	5,000	50,000	Sweet potatoes	15	6,000	90,000
85	Rurenge	Muhurire	Gitobe	NABAHIRE	5,000	15,000	Maize	1	30,000	30,000	Beans	1	30,000	30,000	Sorghum	6	20,000	120,000
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	18,000	90,000	Beans	2	25,000	50,000	Maize	1	20,000	20,000	Carrot	1	30,000	15,000
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	35,000	35,000	Cassava	2	30,000	60,000	Carrot	1	15,000	15,000	Cabbage	2	15,000	30,000
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	35,000	35,000	Sweet potatoes	1	15,000	15,000	Cabbage	60	6,000	360,000	Carrot	4	8,000	32,000
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	35,000	70,000	Carrot	2	18,000	36,000	Sweet Pepper	2	25,000	50,000	Cabbage	9	9,000	81,000
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	20,000	60,000	Sorghum	8	30,000	240,000	Cabbage	3	15,000	45,000	Eggplant	10	40,000	400,000
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	10,000	5,000	Potatoes	1	10,000	10,000	Sorghum	3	25,000	75,000	Eggplant	3	16,000	48,000
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent	30,000	60,000	Sweet potatoes	3	12,000	36,000	Cabbage	20	6,000	120,000	Coffee	2	12,000	24,000
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	20,000	20,000	Cabbage	2	6,000	12,000	Eggplant	2	7,000	14,000	Coffee	2	10,000	20,000
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	12,000	120,000	Cabbage	20	30,000	600,000				-				-
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	35,000	140,000	Sweet potatoes	10	8,000	80,000	Eggplant	8	15,000	120,000				-
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	30,000	60,000	Sweet potatoes	5	12,000	60,000	Cabbage	24	4,000	96,000				-
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	5,000	20,000	Carrot	2	6,000	12,000	Beans	1	30,000	30,000				-
98	Rurenge	Muhurire	Gitobe	MUHASHYI	30,000	30,000	Beans	1	35,000	35,000	Coffee	6	12,600	75,600	Sweet potatoes	3	10,000	30,000
99	Rurenge	Muhurire	Gitobe	KAWERA	20,000	40,000	Beans	1.0	30,000	30,000	Coffee	2	15,600	31,200	Cabbage	2	3,000	6,000
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	20,000	20,000	Maize	0.5	30,000	15,000	Cabbage	3	7,000	21,000	Carrot	4	4,000	16,000
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	30,000	30,000	Cabbage	5	5,000	25,000	Carrot	3	6,000	18,000				-
102	Rurenge	Muhurire	Gitobe	RWAGATERA	10,000	10,000				-				-				-
103	Rurenge	Muhurire	Gitobe	BAZIRA	6,000	12,000	Tomato	5	8,000	40,000	Beans	2	30,000	60,000	Maize	1	20,000	20,000
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	30,000	90,000	Beans	2	35,000	70,000	Sorghum	6	20,000	120,000	Cabbage	40	4,000	160,000
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien	15,000	15,000	Cabbage	2	5,000	10,000	Beans	1	30,000	30,000				-
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	20,000	100,000	Cabbage	16	3,000	48,000	Tomato	10	3,000	30,000	Carrot	10	10,000	100,000
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	30,000	30,000				-				-				-
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent	30,000	60,000	Maize	2	30,000	60,000				-				-
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	30,000	120,000	Sweet potatoes	3	10,000	30,000	Tomato	12	30,000	360,000				-
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	18,000	18,000	Beans	1		-	Tomato	5	8,000	40,000	Cabbage	24	5,000	120,000
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angelique	30,000	30,000	Tomato	3	15,000	45,000	Cabbage	3	15,000	45,000				-

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No.	Sector	Cell	Village	Name of householder	Q6. 2nd crop price/bag (Rwf)	income from 2nd crop	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	income from 3rd crop	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	income from 4th crop	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	income from 5th crop
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	40,000	40,000	Tomato	20	24,000	480,000	Cabbage	3	5,000	15,000	Carrot	2.5	7,000	17,500
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*	30,000	60,000	Cabbage	10	5,000	50,000	Sweet potatoes	15	10,000	150,000				-
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*	30,000	30,000	Sweet potatoes	5	7,500	37,500	Cabbage	40	5,000	200,000				_
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde	15,600	31,200				-				-				-
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	20,000	20,000	Beans	0.5	35,000	17,500	Cassava	2	30,000	60,000	Carrot	3	25,000	75,000
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	20,000	100,000				1				-				-
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	30,000	240,000	Maize	12	25,000	300,000	Potatoes	3	15,000	45,000	Cassava	4		-
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste	35,000	70,000	Sorghum	3	20,000	60,000	Eggplant	2	10,000	20,000	Sweet potatoes	2	6,000	12,000
120	Rurenge	Muhurire	Gitobe	NIBATETE	30,000	30,000	Cabbage	30	10,000	300,000	Carrot	15	5,000	75,000				-
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	20,000	360,000	Maize	10	30,000	300,000	Coffee	4	17,000	68,000	Banana	10	8,000	80,000
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	20,000	60,000	Cabbage	2	5,000	10,000	Sweet potatoes	5	7,000	35,000				-
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique	20,000	20,000	Eggplant	1	18,000	18,000				-				-
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	30,000	60,000	Beans	2	35,000	70,000	Carrot	4	10,000	40,000	Sweet potatoes	2	10,000	20,000
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	35,000	105,000	Eggplant	6	30,000	180,000	Tomato	10	20,000	200,000	Banana	15	8,000	120,000
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	20,000	20,000	Cabbage	3	10,000	30,000				-				-
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	35,000	17,500	Maize	1	35,000	35,000	Cassava	3	5,000	15,000	Sweet potatoes	1	12,000	12,000
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	25,000	125,000	Coffee	2	15,600	31,200	Cabbage	2	8,000	16,000				-
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata	20,000	80,000	Cabbage	3	5,000	15,000				-				-
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	24,000	72,000	Sorghum	6	24,000	144,000	Cabbage	4	5,000	20,000	Coffee	10	7,000	70,000
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	4,000	32,000	Tomato	25	2,000	50,000	Cassava	5	16,000	80,000				-
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	45,000	180,000	Cabbage	10	15,000	150,000	Tomato	50	1,500	75,000				_
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien	15,000	45,000	Tomato	10	3,000	30,000				-				-
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	22,500	33,750	Soya	0.75	11,500	8,625	Maize	1	20,000	10,000	Sweet potatoes	11.5	10,000	115,000
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*	20,000	40,000	Beans	1	30,000	30,000				-				-
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	20,000	100,000	Tomato	6	5,000	30,000				-				-
137	Rurenge	Muhurire	Nyamata	NGENDAHAYO	27,000	108,000	Sorghum	8	32,000	256,000	Sweet potatoes	10	7,500	75,000	Cabbage	20	10,000	200,000
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele	30,000	30,000	Sweet potatoes	1	10,000	10,000	Cassava	2	25,000	50,000				-
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*	25,000	175,000	Coffee	5	12,000	60,000	Cassava	10	7,000	70,000	Sweet potatoes	4	15,000	60,000
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	10,000	50,000	Sweet pepper	10	20,000	200,000	Eggplant	10	20,000	200,000	Carrot	1	10,000	10,000
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	21,000	84,000	Cabbage	6	10,000	60,000	Carrot	2	30,000	60,000	Sweet potatoes	2	10,000	20,000
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi	20,000	80,000	Coffee	5	60,000	300,000	Sweet potatoes	3	6,000	18,000				-
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric	20,000	20,000				-				-				-
144	Rurenge	Rujambara	Mashyoza	GISAGARA	30,000	30,000	Cassava	1	20,000	20,000	Maize	1	30,000	30,000	Banana	2	8,000	16,000

<sup>\*</sup> The persons have hillside farmlands to be submered.

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No.	Sector	Cell	Village	Name of householder	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	income from 6th crop	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)	income from 7th crop	Total GROSS farm income	Q7. Farminput :seed (Rwf)	Q7. Farminput : fertilizer (Rwf)	Q7 Farminpu t: pesticide (Rwf)	Total farm net income	Q8 Other income source	Q9 Other income (Rwf)
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*				-				-	215,000	17,000	26,000	7,000	165,000	Carpentry	360,000
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille				-				-	154,000	20,000	30,000	10,000	94,000	N/A	0
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph				-				-	888,000	90,000	50,000	24,000	724,000	N/A	0
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	Sweet Potatoes	5	10,000	50,000				-	427,200	36,000	42,000	13,000	336,200	Livestock	25,000
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	Soya	1	30,000	30,000	Maize	5	20,000	100,000	740,000	64,500	60,000	3,000	612,500	N/A	0
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette				-				-	700,000	15,000	31,250	4,000	649,750	N/A	0
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	Cabbage	8	7,500	60,000				1	615,000	2,000	5,000	5,000	603,000	N/A	0
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*				-				-	210,000	2,000	5,000	5,000	198,000	N/A	0
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin				-				-	1,890,000	2,000	52,000	2,000	1,834,000	N/A	0
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA				-				-	734,000	57,000	26,000	8,000	643,000	N/A	0
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic				-				-	418,500	8,000	6,000	0	404,500	N/A	0
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	Beans	2	35,000	70,000	Yams	1.5	5,250	7,875	212,875	29,000	28,000	0	155,875	N/A	
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina				-				-	880,000	60,000	90,000	40,000	690,000	N/A	0
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel				-				-	499,000	2,800	21,000	10,000	465,200	Livestock	60,000
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien								1	301,000	30,000	25,000	3,000	243,000	N/A	0
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias				-				-	530,000	10,000	60,000	40,000	420,000	N/A	0
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel								1	277,800	20,000	7,200	5,000	245,600	Livestock	100,000
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel				-				-	132,000	10,900	21,000	10,000	90,100	N/A	0
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	Sweet Potatoes	40	7,000	280,000				-	834,500	11,400	21,000	2,000	800,100	Livestock	80,000
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle				-				-	180,000	4,000	13,000	1,000	162,000	N/A	0
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	Maize	5	20,000	100,000				-	510,000	30,000	25,000	20,000	435,000	Trading	50,000
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne				-				-	427,000	10,000	60,000	23,000	334,000	N/A	0
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	Sweet potatoes	3	10,000	30,000				-	396,000	25,000	26,000	51,000	294,000	N/A	0
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	Tomato	20	6,000	120,000				-	442,500	20,000	15,000	50,000	357,500	Livestock	50,000
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph				-				-	230,000	18,000	30,000	1,400	180,600	N/A	0
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	Maize	1	30,000	30,000	Potatoes	1	10,000	10,000	760,000	38,000	21,000	30,000	671,000	N/A	0
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*				-				-	355,000	8,000	20,000	10,000	317,000	Livestock	250,000
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène				-				-	247,500	40,000	25,000	3,000	179,500	N/A	0
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene				-				1	470,000	2,000	10,000	4,000	454,000	N/A	0
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal				-				-	510,000	40,000	30,000	3,000	437,000	N/A	0
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie				-				1	69,000	8,000	25,000	2,000	34,000	Livestock	100,000
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas				-				-	555,000	27,000	26,000	11,000	491,000	N/A	0
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar				-				-	181,000	15,000	26,000	500	139,500	N/A	0
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Francoise				-				-	168,000	500	2,500	300	164,700	N/A	0
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse				-				-	368,000	20,000	26,625	4,000	317,375	Livestock	50,000

Pack   Secior   Cell   Village	JC 171 C	(1) =	/ //WI	MAT ( 1220 )	F) (Nurerige)															
173   Rutering   Riginshura   Significant   Significant	No.	Sector	Cell	Village	Name of householder	7	6th crop bags for	6th crop price/bag	from 6th	7th crop	7th crop bags for	7th crop price/bag	from 7th	farm	Farminput :seed	Farminput : fertilizer	Farminpu t: pesticide	net	Other income	Other income
38   Reserge   Regambar   Nysheganza   MYNAKAZI Mois*	36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*								-	249,000	4,000	20,000	2,000	223,000	N/A	0
Non-regic Rigumbar   Non-haganza MIKTZE Christine*	37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	Cabbage	8	10,000	80,000	Eggplant	3	20,000	60,000	275,000	40,000	21,000	8,000	206,000	N/A	0
40   Rurenge   Rujambra   Nyabagama   Ny	38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*								-	126,000	1,000	20,000	3,000	102,000	N/A	0
41   Rurenge   Rujambura   Nyabaganza   KTABBARA Felicien	39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*				-				-	159,000	2,000	15,000	3,000	139,000	Livestock	60,000
AB   Barronge   Bajannbara   Nyshaganza   Bajannbara   Nyshaganza   Silber NA   Evarise*	40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*								-	284,000	800	1,000	500	281,700	N/A	0
44   Rurenge   Rojambran   Nordagenza   Nythaganza   Ny	41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien				-				-	830,000	30,000	25,000	3,000	772,000	N/A	0
Hard   Servenge   Mathurite   Giolo   MUKARUTAMU	42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*				-				-	1,024,000	500	600	350	1,022,550	N/A	0
45   Rurenge   Rujambara   Nyabaganza   MIKAMPIZI Leame	43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia				-				-	152,000	15,000	25,000	29,000	83,000	N/A	0
46   Rurenge Rujambara   Nyabaganza   MUKAGAFURAMA Claudine	44	Rurenge	Muhurire	Gitobe	MUKARUTAMU				-				-	124,000	1,000	6,000	1,500	115,500	N/A	0
47   Rurenge   Rujambara   Nyabaganza   MUKANGARAMBE   Maize   1   30,000   30,000   - 182,000   3,000   26,000   3,000   251,000   N/A   0	45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne				-				-	238,000	500	16,400	1,000	220,100	N/A	0
48   Rurenge   Muhurire   Gitobe   UWIRINGIYIMANA J. Claude   Coffee   1   12,000   12,000     -   182,000   4,000   5,000   4,000   169,000   Livestock   50,000	46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine				-				-	190,000	4,000	0	30,000	156,000	N/A	0
49   Rurenge   Rujambara   Akarambaraye RURSHAMIHIGO   Eggplant   6   15,000   90,000   14,000   0   5,000   66,000   N/A   0   0   5,000   66,000   N/A   0   0   5   Rurenge   Rujambara   Rurenge	47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	Maize	1	30,000	30,000				-	310,000	30,000	26,000	3,000	251,000	N/A	0
Surenge   Rujambara   Akarambaraye   Rujambara	48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	Coffee	1	12,000	12,000				-	182,000	4,000	5,000	4,000	169,000	Livestock	50,000
Stratego   Rujambara   Akarambaraye   Rurandiraye   Rura	49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette				-				-	85,000	14,000	0	5,000	66,000	N/A	0
S2   Rurenge   Rujambara   Nyabaganza   MURYANEZA Usiel	50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	Eggplant	6	15,000	90,000				-	615,000	20,000	15,000	35,000	545,000	Livestock	80,000
Sa Rurenge Rujambara   Nyabaganza UWERA Xaverina	51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel				-				-	365,000	30,000	40,000	5,000	290,000	N/A	0
Rurenge   Rujambara   Nyabaganza   WERA Xaverina   Nyabaganza   WERA Xaverina   Nyabaganza   WERA Xaverina   Nyabaganza   Nyabaganza	52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie				-				-	525,000	10,000	26,000	10,000	479,000	Livestock	50,000
Starting   Rujambara   Rujam	53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel				-				-	100,000	20,000	5,000	20,000	55,000	N/A	0
Fig.   Rurenge   Rujambara	54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina				-				-	254,000	2,500	25,000	12,000	214,500	Trading	200,000
S7   Rurenge Rujambara   Ruj	55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene				-				-	299,000	5,000	52,850	2,800	238,350	onstruction	60,000
See Rurenge Rujambara   Nyabaganza   MUKANYUZAHAYO	56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	Sweet Potatoes	2	6,000	12,000	Cabbage	5	6,000	30,000	318,000	800	26,000	2,000	289,200	Livestock	100,000
See Rurenge Rujambara   Nyabaganza   MUKANYUZAHAYO	57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse				-				-	170,000	6,000	5,000	2,000	157,000	N/A	0
Rurenge   Rujambara   Nyabaganza   Nyabaganza   Rujambara   Nyabaganza   Rujambara   Nyabaganza   Rujambara   Nyabaganza   Nyabaganza	58	Rurenge	Rujambara	Nyabaganza					-				-	299,200	30,000	60,000	3,000	206,200	Livestock	30,000
Rurenge Rujambara Nyabaganza   Nyabaganza	59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert				-				-	171,000	15,000	25,000	4,000	127,000	N/A	0
61 Rurenge Rujambara   Nyabaganza   MUKANDOLI Jeanette   -   -   265,000   0   0   0   265,000   0   0   0   0   0   0   0   0   0	60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	Sweet pepper	30	10,000	300,000	Carrot	20	8,000	160,000	812,000	20,000	25,000	10,000	757,000	Livestock	80,000
63 Rurenge Rujambara Akarambaraye HABINEZA Evariste	61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette	1 11			-				-	265,000	0	0	0	265,000	0	0
Rurenge   Rujambara   Nyabaganza   MUKAGATARE Clementine	62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens				-				-	726,000	20,000	50,000	10,000	646,000	Livestock	80,000
65   Rurenge   Rujambara   Nyabaganza   IRAFASHA Valens   -     555,000   2,000   30,000   4,000   519,000   Livestock   150,000   66   Rurenge   Rujambara   Nyabaganza   MUKARUZIGA Angelique   -     123,000   5,000   5,000   5,000   3,000   110,000   N/A   0   0   0   0   0   0   0   0   0	63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste				-				-	190,000	20,000	15,000	3,000	152,000	N/A	0
66   Rurenge   Rujambara   Nyabaganza   MUKARUZIGA Angelique   -	64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine				-				-	152,000	0	20,000	10,000	122,000	N/A	0
67         Rurenge         Rujambara         Nyabaganza         MUKARUZIGA Angelique         -         540,000         15,000         26,000         600         498,400         N/A         0           68         Rurenge         Rujambara         Nyabaganza         MUKANKUSI Juliette*         -         156,000         0         0         0         156,000         N/A         0           69         Rurenge         Rujambara         Nyabaganza         BARIGIRA Emmanuel         -         -         336,000         30,000         25,000         16,000         265,000         N/A         0           70         Rurenge         Rujambara         Nyabaganza         NSANZINEZA Joseph         -         -         532,000         13,000         25,000         30,000         N/A         0           71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         -         -         1,034,400         12,000         50,000         15,000         957,400         N/A         0           72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         -         267,000         20,000         26,675         5,000         215,325         Livestock         20,000	65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens				-				-	555,000	2,000	30,000	4,000	519,000	Livestock	150,000
68         Rurenge         Rujambara         Nyabaganza         MUKANKUSI Juliette*         -         156,000         0         0         156,000         N/A         0           69         Rurenge         Rujambara         Nyabaganza         BARIGIRA Emmanuel         -         336,000         30,000         25,000         16,000         265,000         N/A         0           70         Rurenge         Rujambara         Nyabaganza         NSANZINEZA Joseph         -         532,000         13,000         25,000         30,000         464,000         N/A         0           71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         -         1,034,400         12,000         50,000         15,000         957,400         N/A         0           72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         -         267,000         20,000         26,675         5,000         215,325         Livestock         20,000	66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu				-				-	123,000	5,000	5,000	3,000	110,000	N/A	0
69         Rurenge         Rujambara         Nyabaganza         BARIGIRA Emmanuel         -         336,000         30,000         25,000         16,000         265,000         N/A         0           70         Rurenge         Rujambara         Nyabaganza         NSANZINEZA Joseph         -         -         532,000         13,000         25,000         30,000         464,000         N/A         0           71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         -         1,034,400         12,000         50,000         15,000         957,400         N/A         0           72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         -         267,000         20,000         26,675         5,000         215,325         Livestock         20,000	67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique				-				-	540,000	15,000	26,000	600	498,400	N/A	0
69         Rurenge         Rujambara         Nyabaganza         BARIGIRA Emmanuel         -         336,000         25,000         16,000         265,000         N/A         0           70         Rurenge         Rujambara         Nyabaganza         NSANZINEZA Joseph         -         -         532,000         13,000         25,000         30,000         464,000         N/A         0           71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         -         1,034,400         12,000         50,000         15,000         957,400         N/A         0           72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         -         267,000         20,000         26,675         5,000         215,325         Livestock         20,000	68			, ,	- '				-				-		0		0	156,000	N/A	0
70         Rurenge         Rujambara         Nyabaganza         NSANZINEZA Joseph         -         532,000         13,000         25,000         30,000         464,000         N/A         0           71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         -         1,034,400         12,000         50,000         15,000         957,400         N/A         0           72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         -         267,000         20,000         26,675         5,000         215,325         Livestock         20,000	69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel				-				-	336,000	30,000	25,000	16,000	265,000	N/A	0
71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         -         1,034,400         12,000         50,000         15,000         957,400         N/A         0           72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         -         267,000         20,000         26,675         5,000         215,325         Livestock         20,000	70		-	, ,					-			1	-		,	,		,		0
72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         -         267,000         20,000         26,675         5,000         215,325         Livestock         20,000		U	,	, ,	· ·				-				-		,					0
	72				NIKOYAGENYE Constatin				-			1	-		20,000	26,675	5,000	215,325	Livestock	20,000
			Rujambara						-				-		,	,				0

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No.	Sector	Cell	Village	Name of householder	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	income from 6th crop	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)	income from 7th crop	Total GROSS farm income	Q7. Farminput :seed (Rwf)	Q7. Farminput : fertilizer (Rwf)	Q7 Farminpu t: pesticide (Rwf)	Total farm net income	Q8 Other income source	Q9 Other income (Rwf)
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu				-				-	844,000	20,000	6,000	4,000	814,000	Livestock	40,000
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	Sweet Potatoes	4	7,000	28,000				-	873,000	6,000	26,625	6,000	834,375	Livestock	15,000
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*				1				-	76,000				76,000	N/A	0
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	Celery	5	2,500	12,500	auliflower	5	3,000	15,000	481,500	19,000	40,000	5,200	417,300	N/A	0
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne				1				-	140,000	10,000	8,000	5,000	117,000	Trading	50,000
79	Rurenge	Muhurire	Gitobe	BARAME Silas				1				-	64,000	5,000	21,000	0	38,000	N/A	0
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*				-				-	360,000	20,000		20,000	320,000	N/A	0
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*				-				-	108,000	10,000	21,000	3,000	74,000	N/A	0
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars				-				-	171,000	30,000	25,000	3,000	113,000	N/A	0
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	Eggplant	7	10,000	70,000				-	295,000	15,000	25,000	10,000	245,000	Livestock	30,000
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert				1				-	370,000	20,000	30,000	3,000	317,000	N/A	0
85	Rurenge	Muhurire	Gitobe	NABAHIRE				-				-	345,000	5,000	30,000	3,000.0	307,000	N/A	0
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	Cabbage	4	5,000	20,000	Eggplant	1	4,000	4,000	499,000	13,000	26,500	6,000	453,500	Livestock	70,000
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie				-				-	158,000	10,500	2,000	1,000	144,500	Livestock	15,000
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI				-				-	460,000	13,500	2,500	1,000.0	443,000	Taxi bike	200,000
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas				-				-	309,000	19,500	2,400	2,000	285,100	Livestock	300,000
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	Sweet Potatoes	2	10,000	20,000				-	855,000	13,600	26,500	1,000	813,900	N/A	0
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	Sweet pepper	6	7,000	42,000	Coffee	1	12,600	12,600	222,600	13,000	26,500	2,000	181,100	N/A	0
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent				-				-	340,000	10,000	10,000	5,000	315,000	N/A	0
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne				-				-	73,500	2,000	5,000	1,500	65,000	N/A	0
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI				1				_	723,000	1,200	2,400	1,200	718,200	N/A	0
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*				-				_	670,000	30,000	70,000	20,000	550,000	N/A	0
96	Rurenge	Muhurire	Gitobe	VUNUHAWE				-				_	336,000	1,000	6,000	3,000	326,000	Livestock	200,000
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric				-				_	82,000	30,000	25,000	5,000	22,000	N/A	0
98	Rurenge	Muhurire	Gitobe	MUHASHYI	Cabbage	10	3,500	35,000				_	230,600	4,000	5,000	15,000	206,600	N/A	0
99	Rurenge	Muhurire	Gitobe	KAWERA	- and ange		-,	-				_	147,200	10,000	3,000	3,500	130,700	N/A	0
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	Fresh Beans	3	2,500	7,500				_	110,700	11,000	15,000	2,000	82,700	N/A	0
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa			,	-				_	153,000	15,000	25,000	5,000	108,000	N/A	0
102	Rurenge	Muhurire	Gitobe	RWAGATERA				-				_	35,000	-,	-,	- 7,	35,000	N/A	0
103	Rurenge	<b>!</b>	Gitobe	BAZIRA				-				-	192,000	40,000	42,000	15,000	95,000	N/A	0
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	Sweet Potatoes	1	12,000	12,000				_	462,000	12,800	26,530	1,800		Livestock	20,000
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien			,	,				_	109,000	1,800	42,000	2,000	63,200	N/A	0
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	Sweet Potatoes	20	12,000	240,000				-	618,000	6,900	8,000	1,500		Livestock	220,000
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	eet I statoes	20	12,000	-				_	150,000	4,000	26,650	1,200		Education	648,000
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent				-				_	240,000	15,000	20,000		225,000	N/A	0
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne				-			1	_	708,000	4,000	3,000	6.800	694,200	N/A	0
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin							1	_	238,000	9,000	25,000	1,000	203,000	N/A	0
111	Rurenge	1		MUTONI Angelique									172,000	5,400	3,000	11,000		onstruction	20,000
111	Kurenge	Kujambara	Akarambaraye	INTO LOTAL Allgerique				-				_	1/2,000	3,400	3,000	11,000	132,000	mon ucuoli	20,000

			-																
No.	Sector	Cell	Village	Name of householder	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	income from 6th crop	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)	income from 7th crop	Total GROSS farm income	Q7. Farminput :seed (Rwf)	Q7. Farminput : fertilizer (Rwf)	Q7 Farminpu t: pesticide (Rwf)	Total farm net income	Q8 Other income source	Q9 Other income (Rwf)
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	Eggplant	8	6,000	48,000	Cassava	5	17,000	85,000	755,500	10,000	30,000	30,000	685,500	N/A	0
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*				-				-	420,000	30,000	25,000	5,000	360,000	N/A	0
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*				-				-	324,500	1,000	3,000	1,000	319,500	N/A	0
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde				-				-	56,200			1,000	55,200	N/A	0
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	Cabbage	32	5,000	160,000				1	352,500	1,500	50,000	26,000	275,000	Livestock	10,000
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA				-				1	120,000	4,000	1,200	17,000	97,800	N/A	0
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	Sweet Potatoes	4	10,000	40,000	Tomato	25	3,000	75,000	1,180,000	50,000	52,000	30,000	1,048,000	Livestock	150,000
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste				-				-	184,500			300	184,200	N/A	0
120	Rurenge	Muhurire	Gitobe	NIBATETE				-				-	430,000	20,000	25,000	3,000	382,000	N/A	0
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	Tomato	10	5,000	50,000				-	1,082,000	10,000	12,000	6,000	1,054,000	Livestock	200,000
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel				-				-	165,000	20,000	15,000	3,000	127,000	Livestock	200,000
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique				-				-	74,000	6,000	25,500	2,000	40,500	Trading	40,000
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul				-				-	300,000	1,500	2,400	6,000	290,100	Livestock	120,000
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	Cassava	3	15,000	45,000	Potatoes	2	15,000	30,000	905,000	0	40,000	100,000	765,000	N/A	0
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre				-				-	56,000	2,000	6,000	1,000	47,000	N/A	20,000
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred				-				1	119,500				119,500	N/A	0
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin				-				-	202,200	10,000	30,000	3,000	159,200	N/A	0
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata				-				-	125,000	20,000	25,000	3,000	77,000	N/A	0
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien				-				-	366,000	3,600	21,550	9,000	331,850	N/A	0
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais				-				1	287,000	3,000	10,000	6,000	268,000	N/A	0
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène				-				-	435,000	17,500	7,500	3,000	407,000	Livestock	15,000
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien				-				1	115,000	20,000	21,000	5,000	69,000	N/A	0
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	Cofee	2	50,000	100,000				-	282,375	0	0	0	282,375	N/A	0
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*				-				-	195,000	30,000	20,000	3,000	142,000	Livestock	50,000
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph				-				-	190,000	30,000	25,000	3,000	132,000	Livestoock	50,000
137	Rurenge	Muhurire	Nyamata	NGENDAHAYO	Tomato	30	15,000	450,000				1	1,264,000	800	12,000	3,000	1,248,200	Livestock	180,000
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele				-				-	210,000	20,000	15,000	3,000	172,000	N/A	0
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*	Cabbage	20	5,000	100,000				-	535,000	800	6,000	800	527,400	N/A	0
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	Sweet Potatoes	2	10,000	20,000				-	480,000	1,400	3,000	2,400	473,200	Livestock	99,000
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse								-	284,000	1,000	6,000	1,000	276,000	N/A	0
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi				-				-	398,000	0	0	0	398,000	N/A	0
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric				-				-	140,000	10,000	7,000	3,000	120,000	N/A	0
144	Rurenge	Rujambara	Mashyoza	GISAGARA				_				-	176,000	10,000	30,000	2,000	134,000	onstruction	100,000

<sup>\*</sup> The persons have hillside farmlands to be submered.

	٠,			F) (Rurenge)																
No.	Sector	Cell	Village	Name of householder	Total househol d net income	Q10. Times of cultivation in the marshland to be submerged	Q11. Crop (1) cultivated in the marshland	Q11. Crop (1) number of bags produced in the marshland	Q11. Nos of plot for Crop (1) cultivated in the marshland	Size of	Q11. plot of ( (1) (m2)	crop	income of crop (1)	Q11. Crop (2) cultivated in the marshland	Q11. Crop (2) number of bags produced in the marshland	Q11. Nos of plot for Crop (2) cultivated in the marshland	Size o	Q11. f plot of (m2)	crop (2)	income of crop (2)
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*	525,000	2	Cabbage	20.5	1	3 *	75	225	102,500					*	(	)
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille	94,000	2	Eggplant	12	1	38 *	7	266	84,000	Carrot	7	Rotation		*	(	)
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph	724,000	2	Eggplant	3	5	40 *	5	180	36,000							
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	361,200	2	Sweet potatoes	5	3	12 *	60	720	110,000	Cabbage	8	2	5	* 3	0 150	80,000
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	612,500	2	Sweet potatoes	6	1	10 *	40	400	60,000	Sorghum	6	1	20	* 10	0 2,000	120,000
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette	649,750	2	Sweet potatoes	20	2	8 *	47	376	400,000	Cabbage	30		5	* 3	5 17:	5 180,000
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	603,000	2	Sweet potatoes	10	3	7 *	28	196	100,000				5	* 1	7 8:	5
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	198,000	2	Sweet potatoes	10	2	24 *	4	96	100,000				26	*	6 150	5
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	1,834,000	2	Sweet potatoes	5	1	9 *	50	450	30,000	Cabbage	20	1		*	(	200,000
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	643,000	2	Pili - Pili	13	2	42 *	16	672	286,000				80	* 2	5 2,000	)
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	404,500	2	Sweet potatoes	7	3	5 *	40	200	28,000				10	* 3	0 300	)
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	155,875	2	Sweet potatoes	2	1	20 *	10	200	20,000	Maize	2		20	* 6	6 1,320	60,000
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	690,000	3	Sweet potatoes	6	6	5 *	16	80	60,000	Eggplant	6			*	(	72,000
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	525,200	2	Sweet potatoes	4	4	3 *	15	45	64,000				2	* 2	0 40	)
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	243,000	2	Sweet potatoes	17	2	6 *	15	90	170,000	Cabbage	3	2	6	* 1	5 90	6,000
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	420,000	2	Sweet potatoes	10	1	30 *	7	210	100,000	Eggplant	20	1	30	*	7 210	140,000
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	345,600	2	Sweet potatoes	12	1	4 *	25	100	120,000	Cabbage	9	1	23	*	4 92	90,000
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	90,100	2	Sweet potatoes	20	1	10 *	60	600	120,000					*	(	)
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	880,100	2	Sweet potatoes	50	5	3 *	7	21	350,000				8	* 2		)
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	162,000	2	Sweet potatoes	5	2	16 *	20	320	30,000				12	*	7 84	4
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	485,000	2	Sweet potatoes	17	3	2 *	10	20	170,000				20	* 3	0 600	)
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	334,000	2	Sweet potatoes	3	2	30 *	5	150	18,000				30	*	8 240	)
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	294,000	2	Sweet potatoes	2	3	5 *	22	110	20,000				5	* 2	2 110	)
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	407,500	2	Cabbage	25		6 *	25	150	125,000				3	* 2	5 7:	5
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	180,600	2	Cabbage	24	3	5 *	27	135	144,000				4	* 3	4 130	ó
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	671,000	2	Sweet potatoes	6	4	7 *	25	175	60,000	Cabbage	12	4	7	* 2	0 140	84,000
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	567,000	2	Sweet potatoes	10	3	15 *	70	1,050	100,000				4	* 6	0 240	)
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	179,500	2	Sweet potatoes	3	2	4 *	10	40	24,000				4	* 1	5 60	)
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene	454,000	2	Sweet potatoes	6	3	8 *	14	112	30,000				7	* 2	0 140	)
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	437,000	2	Sweet potatoes	10	3	20 *	5	100	100,000	Eggplant	9	2	5	* 2	0 100	180,000
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie	134,000	2	Sweet potatoes	1	1	3 *	7	21	8,000	Cabbage	2	1	3		7 2	
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	491,000	2	Sweet potatoes	9	3	6 *	23	138	108,000				6	* 2	3 138	3
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	139,500	2	Sweet potatoes	2	2	5 *	30	150	16,000				6	* 3	0 180	)
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Francoise	164,700	2	Sweet potatoes	1	3	4 *	17	68	6,000				4	* 1		
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse	367,375	3	Sweet potatoes	1	4	30 *	6	180	8,000				37	*	6 22	2

<b>5</b> 144 0	(1)	ノノへ門里	MIT ( ALL 45 T	F) (Rurenge)																
No.	Sector	Cell	Village	Name of householder	Total househol d net income	Q10. Times of cultivation in the marshland to be submerged	Q11. Crop (1) cultivated in the marshland	Q11. Crop (1) number of bags produced in the marshland	Q11. Nos of plot for Crop (1) cultivated in the marshland	Size of p	Q11. plot of c (1) (m2)	crop	income of crop (1)	Q11. Crop (2) cultivated in the marshland	Q11. Crop (2) number of bags produced in the marshland	Q11. Nos of plot for Crop (2) cultivated in the marshland	Size of pl	Q11. ot of cro (m2)	p (2)	income of crop (2)
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	223,000	2	Sweet potatoes	3	3	6 *	40	240	30,000	)			15 *	7	105	
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	206,000	2	Carrot	10	3	9 *	4	36	40,000				6 *	12	72	
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	102,000	2	Sweet potatoes	5	4	40 *	6	240	25,000				7 *	25	175	
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	199,000	2	Sweet potatoes	2	3	13 *	4	52	20,000				9 *	9	81	
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	281,700	2	Sweet potatoes	2	2	5 *	30	150	20,000				4 *	70	280	
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	772,000	2	Sweet potatoes	23	3	7 *	26	182	115,000				5 *	26	130	
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	1,022,550		Sweet potatoes	3	1	4 *	14	56	72,000				*		0	
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	83,000	2	Carrot	5	2	4 *	10	40	54,000				6 *	12	72	
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	115,500	2	Sweet potatoes	3	1	20 *	10	200	45,000	Tomato	5	1	5 *	15	75	45,000
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	220,100	2	Sweet potatoes	6	2	6 *	40	240	24,000				6 *	40	240	
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	156,000	2	Sweet potatoes	5	3	7 *	26	182	45,000				3 *	60	180	
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	251,000	2	Sweet potatoes	10	3	5 *	40	200	60,000				5 *	40	200	
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	219,000	2	Cabbage	10	2	10 *	5	50	100,000				7 *	12	84	
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	66,000	2	Sweet potatoes	3	2	8 *	30	240	30,000				3 *	22	66	
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	625,000	2	Eggplant	6	3	12 *	5	60	90,000				14 *	3	42	
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	290,000	2	Sweet potatoes	6	1	5 *	25	125	36,000	Cabbage	7	roation	*		0	49,000
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	529,000	2	Sweet potatoes	5	2	6 *	20	120	30,000				5 *	25	125	
53	Rurenge	Muhurire		MUNYANEZA Usiel	55,000	2	Sweet potatoes	4	1	15 *	30	450	24,000	Cabbage	5	1	7 *	30	210	37,500
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina	414,500	2	Sweet potatoes	6	3	5 *	12	60	60,000				4 *	15	60	
55		Rujambara		NAHIMANA Theogene	298,350	2	Sweet potatoes	3	2	5 *	25	125	21,000				5 *	20	100	-
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	389,200	2	Sweet potatoes	2	2	7 *	35	245	12,000				10 *	67	670	
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse	157,000	2	Sweet potatoes	2	2	4 *	30	120	24,000				4 *	25	100	-
58	Rurenge	Rujambara	-	MUKANYUZAHAYO	236,200	2	Sweet potatoes	3	1	3 *	24	72	22,500	Eggplant	5	1	40 *	50	2,000	24,000
59		Rujambara	, ,	MUGIRANEZA Gilbert	127,000		Sweet potatoes	2	1	4 *	35	140	14,000	Cabbage	9	Rotation	*		0	27,000
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	837,000	2	Sweet potatoes	10	3	5 *	28	140	100,000				4 *	40	160	
61		Rujambara	Nyabaganza	MUKANDOLI Jeanette	265,000		Sweet potatoes	8	3	8 *	4	32	40,000				8 *	4	32	
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens	726,000	2	Sweet potatoes	12	3	6 *	4	24	120,000				6 *	4	24	
63	Rurenge	Rujambara	-	HABINEZA Evariste	152,000		Sweet potatoes	3	2	6 *	54	324	30,000				4 *	36	144	-
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine	122,000		Sweet potatoes	10	3	3 *	105	315	75,000				5 *	70	350	
65		Rujambara	Nyabaganza	IRAFASHA Valens	669,000	2	Sweet potatoes	5	3	2 *	30	60	25,000				3 *	20	60	
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	110,000	2	Sweet potatoes	4	4	5 *	25	125	32,000				5 *	25	125	
67		Rujambara	Nyabaganza	MUKARUZIGA Angelique	498,400		Sweet potatoes	10	4	8 *	35	280	80,000				6 *	30	180	
68		Rujambara	, ,	MUKANKUSI Juliette*	156,000		Sweet potatoes	2	1	7 *	60	420	12,000				*		0	
69	U	Rujambara		BARIGIRA Emmanuel	265,000	2	Eggplant	4	1	4 *	29	116	24,000	Cabbage	4	29	*		0	28,000
70		Rujambara	, ,	NSANZINEZA Joseph	464,000	2	Tomato	20	2	5 *	8	40	80,000	Cabbage	35	Rotation	*		0	315,000
71		Rujambara	, ,	MPAGAZEHE Gerrard	957,400	2	Sweet potatoes	8	7	11 *	27	297	48,000				9 *	65	585	,
72		Rujambara		NIKOYAGENYE Constatin	235,325		Sweet potatoes	3	4	7 *	18	126	27,000				7 *	18	126	
73		Rujambara		MURWANASHYAKA J.D.	192,800		Sweet potatoes	11	2	3 *		60	148,500				2 *	10	20	
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24110	.0 (., _,	, , , , , , , , , , , , , , , , , , ,		F) (Rurenge)																
No.	Sector	Cell	Village	Name of householder	Total househol d net income	Q10. Times of cultivation in the marshland to be submerged	Q11. Crop (1) cultivated in the marshland	Q11. Crop (1) number of bags produced in the marshland	Q11. Nos of plot for Crop (1) cultivated in the marshland	Size of p	Q11. plot o (1) (m2)	f crop	income of crop (1)	Q11. Crop (2) cultivated in the marshland	Q11. Crop (2) number of bags produced in the marshland	Q11. Nos of plot for Crop (2) cultivated in the marshland	Size of p	Q11. lot of cr (m2)	<sup>.</sup> op (2)	income of crop (2)
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	854,000	2	Sweet potatoes	15	4	10 *	5	50	150,000				8 *	6	48	
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	849,375	2	Sweet potatoes	10	1	6 *	37	222	70,000	Cabbage	10	1	6 *	37	222	60,000
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*	76,000	2	Sweet potatoes	2	1	35 *	17	595	22,000				*		0	
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	417,300	2	Sweet potatoes	6	3	2 *	32	64	36,000				4 *	26	104	
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	167,000	2	Cabbage	4	1	3 *	15	45	20,000	Carrot	2	1	5 *	20	100	30,000
79	Rurenge	Muhurire	Gitobe	BARAME Silas	38,000		Sweet potatoes	4	2	7 *	3	21	20,000				7 *	3	21	
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*	320,000		Sweet potatoes	5	1	25 *	100	2,500	25,000	Cabbage	7	Rotation	*		0	42,000
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	74,000	2	Sweet potatoes	4	1	60 *	90	5,400	48,000				*		0	
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	113,000	2	Sweet potatoes	20	2	6 *	55	330	200,000				6 *	25	150	
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	275,000	2	Cabbage	8	1	5 *	40	200	40,000	Eggplant	7	1	6 *	40	240	70,000
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	317,000	2	Sweet potatoes	40	1	20 *	19	380	240,000	Cassava	4	3	40 *	30	1,200	100,000
85	Rurenge	Muhurire	Gitobe	NABAHIRE	307,000	2	Sweet potatoes	3	2	6 *	30	180	15,000				80 *	60	4,800	
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	523,500	2	Sweet potatoes	5	4	5 *	18	90	25,000				5 *	18	90	
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	159,500	2	Sweet potatoes	1	1	5 *	10	50	5,000	Carrot	1	Rotation	*		0	15,000
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	643,000	2	Sweet potatoes	2	1	3 *	7	21	30,000	Carrot	1	Rotation	*		0	8,000
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	585,100	2	Sweet potatoes	3	4	5 *	6	30	15,000				5 *	6	30	
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	813,900	2	Sweet potatoes	5	5	3 *	18	54	25,000				4 *	18	72	
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	181,100	2	Sweet potatoes	4	2	3 *	7	21	14,000				3 *	6	18	
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent	315,000	2	Sweet potatoes	8	1	3 *	50	150	96,000	Cabbage	25	Rotation	*		0	150,000
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	65,000		Sorghum	3	2	12 *	50	600	60,000				4 *	20	80	
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	718,200	2	Sweet potatoes	16	4	7 *	8	56	192,000				3 *	15	45	
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	550,000	2	Sweet potatoes	10	2	20 *	30	600	80,000				6 *	20	120	
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	526,000	2	Sweet potatoes	6	3	3 *	15	45	72,000				3 *	15	45	
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	22,000	2	Sweet potatoes	8	2	4 *	35	140	64,000				9 *	20	180	
98	Rurenge	Muhurire	Gitobe	MUHASHYI	206,600	2	Cabbage	10	3	5 *	15	75	35,000				5 *	15	75	
99	Rurenge	Muhurire	Gitobe	KAWERA	130,700	2	Sweet potatoes	1	1	3 *	10	30	6,000	Carrot	2	1	3 *	10	30	40,000
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	82,700	2	Sweet potatoes	2	2	5 *	15	75	12,000				4 *	10	40	
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	108,000	2	Sweet potatoes	10	4	3 *	40	120	90,000				3 *	20	60	
102	Rurenge	Muhurire	Gitobe	RWAGATERA	35,000	2	Sweet potatoes	2	1	7 *	15	105	20,000				*		0	,
103	Rurenge	Muhurire	Gitobe	BAZIRA	95,000	2	Sweet potatoes	10	1	15 *	50	750	75,000	Tomato	3	Rotation	*		0	24,000
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	440,870	2	Sweet potatoes	3	2	4 *	10	40	36,000				4 *	10	40	
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien	63,200	2	Sorghum	5	3	2 *	10	20	90,000				2 *	10	20	
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	821,600	2	Sweet potatoes	30	3	25 *	30	750	360,000				5 *	10	50	
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	767,350	2	Beans	10	1	75 *	25	1,875	300,000	Sorghum	6	Rotation	*		0	120,000
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent	225,000		Sweet potatoes	0	1	21 *	24	504	not yet				*		0	
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	694,200	2	Sweet potatoes	5	1	4 *	20	80	50,000	Tomato		1	4 *	20	80	
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	203,000	2	Sweet potatoes	13	1	10 *	53	530	130,000	Cabbage	26	Rotation	*		0	130,000
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angelique	172,600	2	Sweet potatoes	4	1	6 *	98	588	28,000	Cabbage	4	Rotation	*		0	60,000

Aug.   Sector   Cell   Village   Name of householder   Name of h	24113	(.,,		144 ×1 × ( × 144 × 15 ·	F) (Kurenge)															
Marcage   Rajanabara   Raheza   MikaGaM   Annocatare   30,000   2   Sweet potatoes   40   2   15 * 70   1,050   400,000   5 * 5 0   250	No.	Sector	Cell	Village	Name of householder	househol d net	Times of cultivation in the marshland to be	cultivated in	(1) number of bags produced in the	of plot for Crop (1) cultivated in the	Size of plot of (1)	crop		(2) cultivated in the	number of bags produced in the	plot for Crop (2) cultivated in the	•	ot of cro	o (2)	
Hart   Browning Rajambara   Alexamabarays   OARIKE Picare*   319,500   2   Sweet potatoes   5   2   10 * 20   200   37,500     5 * 8   30   150	112	Rurenge	Musya	Karama	NIZEYIMANA Valens	685,500	2	Sweet potatoes	5	1	6 * 35	210	40,000	Cabbage	4	1	6 *	35	210	20,000
Instruction   National Processing   Nation	113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*	360,000	2	Sweet potatoes	40	2	15 * 70	1,050	400,000				5 *	50	250	
116   Rurenge   Multurire   Gitobe   NYIRINKINDI Tharcisse   288,000   2   Sweet potators   3   1   10 * 20   200   30,000   10 mato   6   10 * 20   200   120,000     117   Rurenge   Multurire   Gitobe   NIZEYMANA Sylvain   1,198,000   2   Sweet potators   8   4   6 * 6 * 36   60,000   6 * 15 * 90     119   Rurenge   Multurire   Gitobe   NIZEYMANA Sylvain   1,198,000   2   Sweet potators   3   1   5 * 15   75   18,000   Eggplant   2.5   1   5 * 15   75   25,000     120   Rurenge   Multurire   Gitobe   BUCYANA Celestin   1,254,000   2   Sweet potators   15   2   5 * 8   2   60   112,000   6 * 32   202     121   Rurenge   Multurire   Gitobe   BUCYANA Celestin   1,254,000   2   Sweet potators   15   2   5 * 8   2   60   112,000   6 * 32   202     122   Rurenge   Multurire   Gitobe   BUCYANA Celestin   1,254,000   2   Sweet potators   16   2   5 * 2   5   15   17   12,000   6 * 32   202     123   Rurenge   Multurire   Gitobe   BUCYANA Celestin   1,254,000   2   Sweet potators   16   2   5 * 2   5   15   17   12,000   6 * 32   202     124   Rurenge   Multurire   Gitobe   SHUTTA Angel Agrie   20   80,000   2   Sweet potators   1   5 * 2   5   25   15   12,000   6   6 * 32   202     125   Rurenge   Multurire   Gitobe   SHUTTA Angel Marie Paul   410,100   2   Sweet potators   4   5 * 50   250   40,000   Carrot   2   1   5 * 2   5   25   20,000     126   Rurenge   Multurire   Gitobe   SHUTTA Angel Marie Paul   410,100   2   Sweet potators   4   5 * 5   5   75   10,000   Carrot   2   1   5 * 6   25   20,000     126   Rurenge   Multurire   Gitobe   MURANGIRA Pietra   410,100   2   Sweet potators   4   5 * 15   75   10,000   Carrot   2   1   5 * 6   20   20,000     127   Rurenge   Multurire   Gitobe   SHUTTA Angel Marie Paul   410,100   2   Sweet potators   4   5 * 15   75   10,000   Carrot   2   1   5 * 6   20   20,000     128   Rurenge   Multurire   Gitobe   MURANGIRA Pietra   4   7   70   2   Sweet potators   1   5 * 15   75   10,000   Carrot   2   1   5 * 8   10   20,000     129   Rurenge   Multurire   Gitobe   Sulva	114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*	319,500	2	Sweet potatoes	5	2	10 * 20	200	37,500				5 *	30	150	
111   112   Rurenge   Multurire   Gitobe   SNDAMUHEBA   97.800   2 Sweet potatoes   3   1   10 ° 20   200   30.000   Tomato   6   1   10 ° 20   200   120.000	115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde	55,200	2	Sweet potatoes	8	4	4 * 23	92	80,000				3 *	15	45	
118   Rurenge   Muburire   Gitobe   MZEYIMANA Sylvain   1,198,000   2   Sweet potatoes   8   4   6 * 6   36   60,000   5   15 * 15   75   25,000	116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	285,000	2	Sweet potatoes	10	2	15 * 5	75	80,000				8 *	6	48	
19   Rurenge   Rujambara   Nyabaganza   HABINEZA Vedaste   184,200   2   Sweet potatoes   3   1   5 * 15   75   18,000   Eggplant   2.5   1   5 * 15   75   25,000	117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	97,800	2	Sweet potatoes	3	1	10 * 20	200	30,000	Tomato	6	1	10 *	20	200	120,000
Rurenge   Muhurire   Gitobe   NIBATETE   382,000   2   Sweet pointoes   15   2   5 * 32   160   112,500	118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	1,198,000	2	Sweet potatoes	8	4	6 * 6	36	60,000				6 *	15	90	
121   Rurenge Muhurire   Gitobe   BUCYANA Celestin   1,254,000   2   Sweet potatoes   3   2   4 * 7   7   28   30,000     4 * 7   7   28	119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste	184,200	2	Sweet potatoes	3	1	5 * 15	75	18,000	Eggplant	2.5	1	5 *	15	75	25,000
Rurenge   Multurire   Gitobe   FATUKUBONYE Daniel   327,000   2   Sweet potatoes   16   2   5 * 25   125   112,000   Eggplant   1   1   5 * 20   100   18,000	120	Rurenge	Muhurire	Gitobe	NIBATETE	382,000	2	Sweet potatoes	15	2	5 * 32	160	112,500				6 *	32	192	
123   Rurenge   Muhurire   Gitobe   MUKAMAZIMPAKA Angelique   80,500   2   Sweet potatoes   1   1   5 ° 20   100   10,000   Eggplant   1   1   5 ° 20   100   18,000	121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	1,254,000	2	Sweet potatoes	3	2	4 * 7	28	30,000				4 *	7	28	
124 Rurenge   Muhurire   Gitobe   NSHUTI Ange Marie Paul   410,100   2 Sweet potatoes   4   1   5 * 50   250   40,000   Carrot   2   1   50 * 5   250   20,000	122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	327,000	2	Sweet potatoes	16	2	5 * 25	125	112,000				5 *	20	100	
125   Rurenge Muhurire   Gitobe Rurenge Muhurire   Agatonero MURANGIRA Fierre   Gr. 000   2   Sweet potatoes   1   1   5 * 15   75   10,000   Cabbage   3   1   5 * 15   75   30,000     126   Rurenge Muhurire   Agatonero MURANGIRA Fierre   Gr. 000   2   Sweet potatoes   1   1   5 * 15   75   10,000   Cabbage   3   1   5 * 15   75   30,000     127   Rurenge Muhurire   Gashinya MUNYABUGINGO Alfred   119,500   2   Sweet potatoes   1   5 * 3 * 31   93   12,000     4 * 28   112     128   Rurenge Muhurire   Gitobe MUSABYEYEZU Annonciata   17,000   2   Sweet potatoes   10   3 * 6 * 32   192   100,000     4 * * 40   160     130   Rurenge Muhurire   Gitobe RUCYAHANA Protais   268,000   2   Sweet potatoes   10   3 * 6 * 32   192   100,000     4 * * 40   160     131   Rurenge Muhurire   Gitobe RUCYAHANA Protais   268,000   2   Sweet potatoes   20   1   1 * 2 * 20   240   100,000   Tomato   13   1   20 * 12   240   25,000     132   Rurenge Muhurire   Gashinya   UWIZEYE Eugène   422,000   2   Sweet potatoes   6   1 * 5 * 30   150   60,000   Tomato   13   1   20 * 12   240   25,000     133   Rurenge Muhurire   Gashinya   UWIZEYE Eugène   422,000   2   Sweet potatoes   6   1 * 5 * 30   150   60,000   Tomato   25   * * 0   37,500     133   Rurenge Rujambara   Ayabaganza   NYAMURIMA Valens*   192,000   2   Sweet potatoes   6   1 * 7 * 35   245   60,000   Soya   0.75   1 * 7 * 35   245   8,625     136   Rurenge Rujambara   Nyabaganza   NYAMURIMA Valens*   192,000   2   Sweet potatoes   10   1 * 5 * 8   40   80,000   * 8 * 25   200     136   Rurenge Rujambara   Nyabaganza   NYAMURIMA Valens*   192,000   2   Sweet potatoes   10   1 * 5 * 8   40   80,000   * 8 * 25   200     136   Rurenge Rujambara   Nyabaganza   NYAMURIMA Valens*   192,000   2   Sweet potatoes   10   1 * 5 * 8   40   80,000   * 8 * 25   200     137   Rurenge Rujambara   Nyabaganza   NYAMURIMA Valens*   192,000   2   Sweet potatoes   10   1 * 5 * 8   40   80,000   * 8 * 25   200   * 8 * 25   200   * 8 * 25   200   * 8 * 25   200   * 8 * 25   200   * 8 * 25   200	123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique	80,500	2	Sweet potatoes	1	1	5 * 20	100	10,000	Eggplant	1	1	5 *	20	100	18,000
126 Rurenge   Muhurire   Agatonero   MURANGIRA Pierre   67,000   2   Sweet potatoes   1   1   5   5   15   75   10,000   Cabbage   3   1   5   6   15   75   30,000     127 Rurenge   Muhurire   Gashinya   MURANGIRA Pierre   119,500   2   Sweet potatoes   1   5   3   8   31   93   12,000	124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	410,100	2	Sweet potatoes	4	1	5 * 50	250	40,000	Carrot	2	1	50 *	5	250	20,000
127   Rurenge   Muhurire   Gashinya   MUNYABUGINGO Alfred   119,500   2   Sweet potatoes   1   5   3 * 31   93   12,000     4 * 28   112	125	Rurenge	Muhurire	Gitobe	BITWAYIKI	765,000	2	Sweet potatoes	2	2	10 * 30	300	20,000				10 *	30	300	
Rurenge   Rurenge   Muhurire   Gashinya   MTORE Pierre Celestin   159,200   2   Sweet potatoes   3   4   4 * 35   140   30,000   4 * 4 * 25   100	126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	67,000	2	Sweet potatoes	1	1	5 * 15	75	10,000	Cabbage	3	1	5 *	15	75	30,000
Rurenge   Muhurire   Gitobe   MUSABYEYEZU Annonciata   77,000   2 Sweet potatoes   10   3   6 * 32   192   100,000     4 * 4 * 40   160	127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	119,500	2	Sweet potatoes	1	5	3 * 31	93	12,000				4 *	28	112	
Rurenge   Muhurire   Gashinya   HABIMANA Felicien   331,850   Cabbage   6   3   5 * 25   125   48,000   100,000   Tomato   13   1   20 * 12   240   25,000   132   Rurenge   Muhurire   Gitobe   RUCYAHANA Protais   268,000   2   Sweet potatoes   6   1   5 * 30   150   60,000   Tomato   25   * 0   37,500   133   Rurenge   Muhurire   Gashinya   UWIZEYE Eugène   422,000   2   Sweet potatoes   6   1   5 * 30   150   60,000   Tomato   25   * 0   37,500   133   Rurenge   Rujambara   Akarambaraye   MUKAFASHAHO Euphrasie   282,375   2   Sweet potatoes   6   1   7 * 35   245   60,000   Soya   0.75   1   7 * 35   245   8,625   135   Rurenge   Rujambara   Nyabaganza   NYAMURIMA Valens*   192,000   2   Sweet potatoes   10   1   5 * 8   40   80,000   8 * 25   200   137   Rurenge   Rujambara   Nyabaganza   NYAMURIMA Valens*   192,000   2   Sweet potatoes   20   2   8 * 26   208   200,000   8 * 25   200   137   Rurenge   Rujambara   Nyabaganza   NYabaganz	128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	159,200	2	Sweet potatoes	3	4	4 * 35	140	30,000				4 *	25	100	
Rurenge   Rurenge   Rurenge   Muhurire   Gitobe   RUCYAHANA Protais   268,000   2   Sweet potatoes   20   1   12 * 20   240   100,000   Tomato   13   1   20 * 12   240   25,000	129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata	77,000	2	Sweet potatoes	10	3	6 * 32	192	100,000				4 *	40	160	
132   Rurenge   Muhurire   Gashinya   UWIZEYE Eugène   422,000   2   Sweet potatoes   6   1   5 * 30   150   60,000   Tomato   25	130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	331,850		Cabbage	6	3	5 * 25	125	48,000				3 *	30	90	
133   Rurenge   Muhurire   Gashinya   MYZTEGEKA Felcien   69,000   2   Tomato   10   1   5 * 15   75   30,000   30,000     30,000     30,000     30,000     30,000     30,000   30,000     30,000     30,000     30,000     30,000     30,000   30,000     30,000     30,000     30,000     30,000     30,000   30,000     30,000     30,000     30,000     30,000     30,000   30,000     30,000     30,000     30,000     30,000     30,000   30,000     30,000     30,000     30,000     30,000     30,000   30,000     30,000     30,000     30,000     30,000     30,000   30,000     30,000     30,000     30,000     30,000     30,000   3	131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	268,000	2	Sweet potatoes	20	1	12 * 20	240	100,000	Tomato	13	1	20 *	12	240	25,000
Rurenge   Rujambara   Akarambaraye   MUKAFASHAHO Euphrasie   282,375   2   Sweet potatoes   6   1   7   * 35   245   60,000   Soya   0.75   1   7   * 35   245   8,625	132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	422,000	2	Sweet potatoes	6	1	5 * 30	150	60,000	Tomato	25		*		0	37,500
135   Rurenge   Rujambara   Nyabaganza   NYAMURIMA Valens*   192,000   2   Sweet potatoes   10   1   5 * 8   40   80,000     8 * 25   200	133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien	69,000	2	Tomato	10	1	5 * 15	75	30,000				*		0	
136   Rurenge   Muhurire   Gitobe   NSABIMANA Joseph   182,000   2   Sweet potatoes   20   2   8 * 26   208   200,000   8 * 25   200   137   Rurenge   Muhurire   Nyamata   NGENDAHAYO   1,428,200   2   Sweet potatoes   10   3   3 * 26   65   75,000   2.5 * 12   30   138   Rurenge   Rujambara   Nyabaganza   KAGABO Fidele   172,000   2   Sweet potatoes   15   1   4 * 8   32   150,000     5 * 16   80   140   Rurenge   Rujambara   Nyabaganza   MUKANKURANA Ernestine*   527,400   Sweet potatoes   4   2   4 * 14   56   60,000   5 * 16   80   140   Rurenge   Rujambara   Akarambaraye   INGABIRE Marie Michel   572,200   2   Sweet potatoes   2   3   4 * 32   128   20,000   17 * 14   98   141   Rurenge   Muhurire   Gitobe   UWIZEYIMANA Alphonse   276,000   2   Sweet potatoes   2   1   5 * 20   100   20,000   Carrot   2   1   5 * 20   100   142   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   398,000   2   Sweet potatoes   3   1   8 * 25   200   18,000   8 * 0   0   1,200	134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	282,375	2	Sweet potatoes	6	1	7 * 35	245	60,000	Soya	0.75	1	7 *	35	245	8,625
137   Rurenge   Muhurire   Nyamata   NGENDAHAYO   1,428,200   2   Sweet potatoes   10   3   3 * 26   65   75,000     2.5 * 12   30     138   Rurenge   Rujambara   Nyabaganza   KAGABO Fidele   172,000   2   Sweet potatoes   15   1   4 * 8   32   150,000     5 * 16   80     140   Rurenge   Rujambara   Akarambaraye   INGABIRE Marie Michel   572,200   2   Sweet potatoes   2   3   4 * 32   128   20,000     7 * 14   98     141   Rurenge   Muhurire   Gitobe   UWIZEYIMANA Alphonse   276,000   2   Sweet potatoes   2   1   5 * 20   100   20,000   Carrot   2   1   5 * 20   100     142   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   398,000   2   Sweet potatoes   3   1   8 * 25   200   18,000     40 * 30   1,200     1,200     1,200   1,	135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*	192,000	2	Sweet potatoes	10	1	5 * 8	40	80,000				*		0	
138   Rurenge   Rujambara   Nyabaganza   KAGABO Fidele   172,000   2   Sweet potatoes   15   1   4   8   32   150,000     5   * 16   80       139   Rurenge   Rujambara   Nyabaganza   MUKANKURANA Ernestine*   527,400   Sweet potatoes   4   2   4   * 14   56   60,000   5   * 16   80     140   Rurenge   Rujambara   Akarambaraye   INGABIRE Marie Michel   572,200   2   Sweet potatoes   2   3   4   32   128   20,000   7   * 14   98     141   Rurenge   Muhurire   Gitobe   UWIZEYIMANA Alphonse   276,000   2   Sweet potatoes   2   1   5   * 20   100   20,000   Carrot   2   1   5   * 20   100     142   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   398,000   2   Sweet potatoes   3   1   8   * 25   200   18,000	136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	182,000	2	Sweet potatoes	20	2	8 * 26	208	200,000				8 *	25	200	
139   Rurenge   Rujambara   Nyabaganza   MUKANKURANA Ernestine*   527,400   Sweet potatoes   4   2   4 * 14   56   60,000   5 * 16   80     140   Rurenge   Rujambara   Akarambaraye   INGABIRE Marie Michel   572,200   2   Sweet potatoes   2   3   4 * 32   128   20,000	137	Rurenge	Muhurire	Nyamata	NGENDAHAYO	1,428,200	2	Sweet potatoes	10	3	3 * 26	65	75,000				2.5 *	12	30	
140         Rurenge         Rujambara         Akarambaraye         INGABIRE Marie Michel         572,200         2         Sweet potatoes         2         3         4 * 32         128         20,000         Carrot         7         * 14         98           141         Rurenge         Muhurire         Gitobe         UWIZEYIMANA Alphonse         276,000         2         Sweet potatoes         2         1         5 * 20         100         20,000         Carrot         2         1         5 * 20         100           142         Rurenge         Rujambara         Akarambaraye         MUKABATABAZI Evanisi         398,000         2         Sweet potatoes         3         1         8 * 25         200         18,000         *         0           143         Rurenge         Rujambara         Nyabaganza         IYAKAREMYE Eric         120,000         2         Tree tomato         3         3         120 * 20         2,400         120,000         40 * 30         1,200	138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele	172,000	2	Sweet potatoes	15	1	4 * 8	32	150,000				*		0	
141         Rurenge         Muhurire         Gitobe         UWIZEYIMANA Alphonse         276,000         2         Sweet potatoes         2         1         5 * 20         100         20,000         Carrot         2         1         5 * 20         100           142         Rurenge         Rujambara         Akarambaraye         MUKABATABAZI Evanisi         398,000         2         Sweet potatoes         3         1         8 * 25         200         18,000         *         0           143         Rurenge         Rujambara         Nyabaganza         IYAKAREMYE Eric         120,000         2         Tree tomato         3         3         120 * 20         2,400         120,000         40 * 30         1,200	139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*	527,400		Sweet potatoes	4	2	4 * 14	56	60,000				5 *	16	80	
142         Rurenge         Rujambara         Akarambaraye         MUKABATABAZI Evanisi         398,000         2         Sweet potatoes         3         1         8 * 25         200         18,000         *         0           143         Rurenge         Rujambara         Nyabaganza         IYAKAREMYE Eric         120,000         2         Tree tomato         3         3         120 * 20         2,400         120,000         40 * 30         1,200	140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	572,200	2	Sweet potatoes	2	3	4 * 32	128	20,000				7 *	14	98	
143         Rurenge         Rujambara         Nyabaganza         IYAKAREMYE Eric         120,000         2         Tree tomato         3         3         120 * 20 2,400         120,000         40 * 30 1,200	141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	276,000	2	Sweet potatoes	2	1	5 * 20	100	20,000	Carrot	2	1	5 *	20	100	
	142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi	398,000	2	Sweet potatoes	3	1	8 * 25	200	18,000				*		0	
144         Rurenge         Rujambara         Mashyoza         GISAGARA         234,000         2         Sorghum         3         1         20 * 40 * 800 * 60,000         *         0	143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric	120,000	2	Tree tomato	3	3	120 * 20	2,400	120,000				40 *	30	1,200	
	144	Rurenge	Rujambara	Mashyoza	GISAGARA	234,000	2	Sorghum	3	1	20 * 40	800	60,000				*		0	

<sup>\*</sup> The persons have hillside farmlands to be submered.

資料 6.5 (1) センサス調査結果(湿地帯) (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (3) cultivated in the marshland	Q11. Crop (3) number of bags produced in the marshland	Q11. Nos of plot for Crop (3) cultivated in the marshland	Size	of pl	11. ot of ( 3) n2)	crop	income of crop (3)
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*					*		0	
2		Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille					*		0	
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph				9	*	8	72	
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean				5	*	11	55	
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	Maize	3	rotation		*		0	60,000
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette					*		0	
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*				7	*	28	196	
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	Cabbage	9	rotation		*		0	45,000
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin					*		0	
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	Cabbage	2	2	44	*	6	264	12,000
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic				12	*	8	96	
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	Sorghum	3	rotation		*		0	75,000
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	Cabbage	10	rotation		*		0	100,000
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel				3	*	10	30	
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien					*		0	
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	Carrot	30	1	30	*	7	210	360,000
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel					*		0	
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel					*		0	
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David					*		0	
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	Cabbage	12	2	6	*	20	120	84,000
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*				10	*	20	200	
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	Eggplant	4	rotation		*		0	40,000
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore				5	*	22	110	
24	Rurenge	Rujambara	Akarambaraye	RIZINDE				4	*	12	48	
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph				5	*	35	175	
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*				7	*	15	105	
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*				5	*	90	450	
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	Cabbage	8	1	4	*	10	40	60,000
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene				6	*	16	96	
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal				3	*	10	30	
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie					*		0	
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas				4	*	11	44	
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar				8	*	25	200	
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Francoise				4	*	17	68	
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse				30	*	6	180	

資料 6.5 (1) センサス調査結果 (湿地帯) (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (3) cultivated in the marshland	Q11. Crop (3) number of bags produced in the marshland	Q11. Nos of plot for Crop (3) cultivated in the marshland	Size	Q11 of plot (3) (m2)	of crop	income of crop (3)
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*				32	* (	5 192	
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya				5	* 10		
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	Eggplant	6	Rotation		*	0	75,000
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*				9	* 0	81	
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	Cabbage	34	Rotation		*	0	170,000
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien				6	* 26	5 156	
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	Cabbage	9	Rotation		*	0	45,000
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	Sweet potatoes	5	Rotation		*	0	
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	Eggplant	4	rotation		*	0	24,000
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	Carrot	8	1	6	* 40	240	32,000
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine				3	* 20	60	
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE				5	* 40	200	
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	Sweet potatoes	6	Rotation		*	0	60,000
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	Eggplant	4	Rotation		*	0	60,000
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO				8	* 4	5 40	
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	Eggplant	15			*	0	150,000
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	Cabbage	10	Rotation		*	0	50,000
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel	Tomato	5.5	0.5	8	* 30	240	44,000
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina				7	* 18	3 126	
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene					*	0	
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	Eggplant	7	Rotation		*	0	70,000
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse	Eggplant	2	Rotation		*	0	36,000
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO	Cabbage	9	1	15	* 30	450	45,000
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert					*	0	
60	Rurenge	Rujambara		BICAMUMPAKA Claude*				3	* {	3 24	
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette				6	* 4	5 30	
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens				9	* 4	1 36	
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste	Eggplant	5	Rotation		*	0	30,000
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine				3	* 50	150	
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens				8	* 20	160	
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu				5	* 25	125	
67		Rujambara	Nyabaganza	MUKARUZIGA Angelique				7	* 25	5 175	
68		Rujambara	Nyabaganza	MUKANKUSI Juliette*					*	0	
69		Rujambara	Nyabaganza	BARIGIRA Emmanuel					*	0	
70		Rujambara	Nyabaganza	NSANZINEZA Joseph	Eggplant	17	Rotation		*	0	204,000
71		Rujambara	Nyabaganza	MPAGAZEHE Gerrard	881			16	* 65		. ,
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin				7	* 18		
73	U	Rujambara	Nyabaganza	MURWANASHYAKA J.D.	Cabbage	3	Rotation		*	0	16,200

資料 6.5 (1) センサス調査結果 (湿地帯) (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (3) cultivated in the marshland	Q11. Crop (3) number of bags produced in the marshland	Q11. Nos of plot for Crop (3) cultivated in the marshland	Size	Q1 of plo (3 (m	ot of crop )	income of crop (3)
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu				6	*	5 3	)
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	Carrot	5	1	6	*	37 22	25,000
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*					*		)
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO				4	*	36 14	4
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne					*		)
79	Rurenge	Muhurire	Gitobe	BARAME Silas					*		)
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*					*		)
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*					*		)
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	Eggplant	5	Rotation		*		25,000
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita					*		)
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert				20	*	17 34	)
85	Rurenge	Muhurire	Gitobe	NABAHIRE	Tomato	30	1	6	*	30 18	150,000
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis				6	*	21 12	5
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	Cabbage	2	Rotation		*		30,000
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	Cabbage	65	Rotation		*		390,000
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas				5	*	6 3	)
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude				2	*	18 3	5
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	Eggplant	7	1	3	*	7 2	1 112,000
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent					*		)
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne					*		)
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI				7	*	12 8	4
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	Eggplant	8	3	30	*	20 60	120,000
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	551			3	*	15 4	5
97		Muhurire	Gitobe	NSABIYUMVA Eric	Carrot	2	Rotation		*		12,000
98	Rurenge	Muhurire	Gitobe	MUHASHYI				5	*	15 7	5
99	Rurenge	Muhurire	Gitobe	KAWERA	Cabbage	2	Rotation		*		6,000
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	Cabbage	5	3	4	*	12 4	35,000
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa				4	*	15 6	)
102	Rurenge	Muhurire	Gitobe	RWAGATERA					*		)
103		Muhurire	Gitobe	BAZIRA	Cabbage	6	Rotation		*		36,000
104		Muhurire	Gitobe	KARANGANWA Leonard	Cabbage	46	Rotation		*		184,000
105		Muhurire	Gitobe	BAMAZIKI Fabien				2	*	10 2	)
106		Muhurire	Gitobe	NZEYIMANA Eugène*				10	*	20 20	)
107		Rujambara	Nyabaganza	RUSAGARA Isdor*					*		)
108		Muhurire	Nyamata	NSABIMANA Innocent					*		)
109	Ü	Muhurire	Gitobe	KIMONYO Etienne					*		)
110		Muhurire	Gitobe	MUNYEMANA Faustin	Tomato	5	Rotation		*		40,000
111				MUTONI Angelique	Tomato	3			*		45,000

資料 6.5 (1) センサス調査結果(湿地帯) (Rurenge)

Rurenge   Rujambara   Kabeza   MUKAGAJU Annonciata*   Cabbage   12   Rotation   * 0   60.00	No.	Sector	Cell	Village	Name of householder	Q11. Crop (3) cultivated in the marshland	Q11. Crop (3) number of bags produced in the marshland	Q11. Nos of plot for Crop (3) cultivated in the marshland	Size	of p	(11. lot of c (3) m2)	rop	income of crop (3)
114   Rurenge   Rujambara   Akarambaraye   NDARIKE Pierre*   Cabbage   42	112	Rurenge	Musya	Karama	NIZEYIMANA Valens	Carrot	4	1	6	*	35	210	28,000
115   Rurenge   Rujambara   Nyabaganza   MUKANKWIRO Berthilde	113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*	Cabbage	12	Rotation		*		0	60,000
116   Rurenge   Muhurire   Gitobe   NYIRINKINDI Tharcisse   Carrot   3   Rotation   * 0   0   75,00	114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*	Cabbage	42		10	*	20	200	210,000
117   Rurenge   Muhurire   Gitobe   SINDAMUHEBA	115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde				5	*	16	80	
118   Rurenge   Muhurire   Gitobe   NiZEYIMANA Sylvain	116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	Carrot	3	Rotation		*		0	75,000
19   Rurenge   Rujambara   Nyabaganza   HABINEZA Vedaste	117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA					*		0	
120 Rurenge Muhurire   Gitobe   BUCYANA Celestin   Tomato   10	118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain				6	*	6	36	
121   Rurenge   Muhurire   Gitobe   BUCYANA Celestin   Tomato   10     * 0   50,000	119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste					*		0	
122   Rurenge   Muhurire   Gitobe   FATUKUBONYE Daniel   Cabbage   3   * 0   15,00	120	Rurenge	Muhurire	Gitobe	NIBATETE	Carrot	15			*		0	75,000
123   Rurenge   Muhurire   Gitobe   MUKAMAZIMPAKA Angelique	121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	Tomato	10			*		0	50,000
124   Rurenge   Muhurire   Gitobe   NSHUTI Ange Marie Paul	122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	Cabbage	3			*		0	15,000
125   Rurenge   Muhurire   Gitobe   BITWAYIKI   Eggplant   8   1   10 * 30   300   64,00	123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique					*		0	
126   Rurenge   Muhurire   Agatonero   MURANGIRA Pierre	124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul					*		0	
127   Rurenge   Muhurire   Gashinya   MUNYABUGINGO Alfred	125	Rurenge	Muhurire	Gitobe	BITWAYIKI	Eggplant	8	1	10	*	30	300	64,000
128   Rurenge   Rurenge   Muhurire   Gashinya   NTORE Pierre Celestin	126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre					*		0	
129   Rurenge   Muhurire   Gitobe   MUSABYEYEZU Annonciata	127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred				4	*	26	104	
129   Rurenge   Muhurire   Gitobe   MUSABYEYEZU Annonciata	128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin				4	*	25	100	
131   Rurenge   Muhurire   Gitobe   RUCYAHANA Protais	129			Gitobe	MUSABYEYEZU Annonciata				5	*	20	100	
132   Rurenge   Muhurire   Gashinya   UWIZEYE Eugène	130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien				3	*	20	60	
133   Rurenge   Muhurire   Gashinya   NIYITEGEKA Felcien	131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais					*		0	
133   Rurenge   Muhurire   Gashinya   NIYITEGEKA Felcien	132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène					*		0	
134   Rurenge Rujambara   Akarambaraye   MUKAFASHAHO Euphrasie   Maize   0.5   1   7   * 35   245   10,000     135   Rurenge Rujambara   Nyabaganza   NYAMURIMA Valens*	133			Gashinya	NIYITEGEKA Felcien					*		0	
136   Rurenge   Muhurire   Gitobe   NSABIMANA Joseph   Eggplant   2   2   * 0   20,000     137   Rurenge   Muhurire   Nyamata   NGENDAHAYO   2 * 8   16     138   Rurenge   Rujambara   Nyabaganza   KAGABO Fidele   * 0     139   Rurenge   Rujambara   Nyabaganza   MUKANKURANA Ernestine*   Cabbage   20   2   4 * 14   56   100,000     140   Rurenge   Rujambara   Akarambaraye   INGABIRE Marie Michel   7 * 18   126     141   Rurenge   Muhurire   Gitobe   UWIZEYIMANA Alphonse   Cabbage   6   1   * 0   60,000     142   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     143   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     144   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     145   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     146   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     147   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     148   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     149   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     140   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     141   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     140   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     141   Rurenge   Rujambara   Akarambaraye   MUKABATABAZI Evanisi   * 0   60,000     142   Rurenge   Rujambara   Rujamb	134			Akarambaraye	MUKAFASHAHO Euphrasie	Maize	0.5	1	7	*	35	245	10,000
136 Rurenge Muhurire Gitobe NSABIMANA Joseph Eggplant 2 2 2 * 0 20,00	135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*					*		0	
138         Rurenge         Rujambara         Nyabaganza         KAGABO Fidele         * 0           139         Rurenge         Rujambara         Nyabaganza         MUKANKURANA Ernestine*         Cabbage         20         2 4 * 14 56 100,00           140         Rurenge         Rujambara         Akarambaraye         INGABIRE Marie Michel         7 * 18 126           141         Rurenge         Muhurire         Gitobe         UWIZEYIMANA Alphonse         Cabbage         6 1 * 0 60,00           142         Rurenge         Rujambara         Akarambaraye         MUKABATABAZI Evanisi         * 0	136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	Eggplant	2	2		*		0	20,000
139 Rurenge Rujambara Nyabaganza MUKANKURANA Ernestine* Cabbage 20 2 4 * 14 56 100,000 140 Rurenge Rujambara Akarambaraye INGABIRE Marie Michel 7 * 18 126 141 Rurenge Muhurire Gitobe UWIZEYIMANA Alphonse Cabbage 6 1 * 0 60,000 142 Rurenge Rujambara Akarambaraye MUKABATABAZI Evanisi * 0	137	Rurenge	Muhurire	Nyamata	NGENDAHAYO	557			2	*	8	16	
139RurengeRujambaraNyabaganzaMUKANKURANA Ernestine*Cabbage2024* 1456100,00140RurengeRujambaraAkarambarayeINGABIRE Marie Michel7* 18126141RurengeMuhurireGitobeUWIZEYIMANA AlphonseCabbage61*060,00142RurengeRujambaraAkarambarayeMUKABATABAZI Evanisi*00	138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele					*		0	
140     Rurenge     Rujambara     Akarambaraye     INGABIRE Marie Michel     7 * 18 126       141     Rurenge     Muhurire     Gitobe     UWIZEYIMANA Alphonse     Cabbage     6 1 * 0 60,00       142     Rurenge     Rujambara     Akarambaraye     MUKABATABAZI Evanisi     * 0			-	, ,		Cabbage	20	2	4	*	14	56	100,000
141     Rurenge     Muhurire     Gitobe     UWIZEYIMANA Alphonse     Cabbage     6     1     *     0     60,00       142     Rurenge     Rujambara     Akarambaraye     MUKABATABAZI Evanisi     *     0				, ,		<u> </u>							,
142 Rurenge Rujambara Akarambaraye MUKABATABAZI Evanisi * 0						Cabbage	6	1		*			60,000
					^					*			
		Ū	U						35	*	20		
144 Rurenge Rujambara Mashyoza GISAGARA * 0										*	-		

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	Q11. Crop (4) cultivated in the marshland	Q11. Crop (4) number of bags produced in the marshland	Q11. Nos of plot for Crop (4) cultivated in the marshland	Size o	f plo	(11. t of cro m2)	op (4)	income of crop (4)	Q11. Crop (5) cultivated in the marshland	Q11. Crop (5) number of bags produced in the marshland	Q11. Nos of plot for Crop (5) cultivated in the marshland	Q11. Size of plot o (5) (m2)	f crop	income of crop (5)
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*					*		0					*	0	
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille					*		0					*	0	
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph				5	*	4	20					4 * 6	24	
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean					*		0					*	0	
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	Sweet pepper	6	1	10	*	40	400	60,000	Tomatoes	10	rotation	*	0	80,000
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette					*		0					*	0	
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	Eggplant	15	3		*		0	45,000				*	0	
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*					*		0					*	0	
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin					*		0					*	0	
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA				18	*	8	144					*	0	
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	Cabbage	18	rotation		*		0	126,000				*	0	
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*					*		0					*	0	
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina					*		0					*	0	
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	Cabbage	35	1	3	*	30	90	210,000				*	0	
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien					*		0					*	0	
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias					*		0					*	0	
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel					*		0					*	0	
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel					*		0					*	0	
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David					*		0					*	0	
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle				12	*	7	84					*	0	
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	Cabbage	12	3		*		0	180,000				*	0	
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	Tomato	5	rotation		*		0	60,000				*	0	
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	Tomato	25	2	11	*	5	55	200,000				5 * 22	110	
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	Tomato	40	2	12	*	4	48	240,000				25 * 5	125	
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	Carrot	11	3	5	*	27	135	55,000				4 * 34	136	
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	Cabbage	12	4	7	*	25	175	84,000				7 * 20	140	
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	Eggplant	3	2	5	*	30	150	36,000				4 * 30	120	
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	Eggplant	10	1	4	*	15	60	70,000				*	0	
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene	Eggplant	20	rotation		*		0	300,000	Cabbage	5	rotation	*	0	60,000
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal				15	*	20	300					*	0	
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie					*		0					*	0	
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	Eggplant	30	Rotation		*		0	120,000				*	0	
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	Cabbage	1	Rotation		*		0	8,000				*	0	
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Francoise					*		0					*	0	
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse				37	*	6	222		Cabbage	7	Rotation	*	0	140,000

No.	Sector	Cell	Village	Name of householder	Q11. Crop (4) cultivated in the marshland	Q11. Crop (4) number of bags produced in the marshland	Q11. Nos of plot for Crop (4) cultivated in the marshland	Size of plo	Q11. ot of cro m2)	op (4)	income of crop (4)	Q11. Crop (5) cultivated in the marshland	Q11. Crop (5) number of bags produced in the marshland	Q11. Nos of plot for Crop (5) cultivated in the marshland	Q11. Size of plot of (5) (m2)	crop	income of crop (5)
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*				*		0					*	0	
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	Cabbage	8		5 *	15	75	40,000	Eggplant	4		7 * 16	112	80,000
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	Cabbage	2	Rotation	*		0	46,000				*	0	
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*				*		0					*	0	1
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*				*		0					*	0	
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	Cabbage	15	Rotation	*		0	150,000	Eggplant	20	rotation	*	0	240,000
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*				*		0					*	0	1
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia				*		0					*	0	1
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU				*		0					*	0	
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	Cabbage	9	2	6 *	40	240	67,500				6 * 40	240	
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine				*		0					*	0	
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	Carrot	8	Rotation	*		0	40,000	Eggplant	6	Rotation	*	0	
48		Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	Carrot	2	Rotation	*		0	10,000				*	0	
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette				*		0					*	0	
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	Sweet potatoes	3	Rotation	*		0	30,000				*	0	
51		Rujambara	Akarambaraye	RURANGIRWA Usiel	•			*		0	,				*	0	
52		Rujambara	Nyabaganza	MURENGEZI Appolinarie	Eggplant	8	Rotation	*		0	80,000				*	0	
53		Muhurire	Gitobe	MUNYANEZA Usiel				*		0					*	0	
54		Rujambara	Nyabaganza	UWERA Xaverina	Cabbage	20	Rotation	*		0	160,000	Eggplant	6	Rotation	*	0	90,000
55		Rujambara	Nyabaganza	NAHIMANA Theogene				*		0	,	CCI			*	0	
56		Rujambara	Nyabaganza	UMUHIRE Theodette	Cabbage	5	Rotation	*		0	30,000				*	0	
57		Rujambara	Akarambaraye	NTIRENGANA Alphonse	Pili - Pili	1	Rotation	*		0	80,000				*	0	
58		Rujambara	Nyabaganza	MUKANYUZAHAYO				*		0	,				*	0	
59		Rujambara	Nyabaganza	MUGIRANEZA Gilbert				*		0					*	0	
60		Rujambara		BICAMUMPAKA Claude*	Carrot	20	3	4 *	26	104	160,000	Eggplant	10	Rotation	*	0	100,000
61		Rujambara	Nyabaganza	MUKANDOLI Jeanette	Eggplant	8	Rotation	*		0	120,000	-881			*	0	
62		Rujambara	Akarambaraye		Cabbage	9	Rotation	*		0	108,000	Eggplant	6	Rotation	*	0	72,000
63		Rujambara	,	HABINEZA Evariste	Cabbage	5	Rotation	*		0	20,000	881			*	0	, , , , , , , , , , , , , , , , , , , ,
64		Rujambara	Nyabaganza	MUKAGATARE Clementine	Eggplant	6	Rotation	*		0	48,000				*	0	
65		Rujambara	Nyabaganza	IRAFASHA Valens	Eggplant	12	Rotation	*		0	60,000				*	0	
66		Muhurire	Gitobe	BUTATI Jean de Dieu	881			5 *	25	125		Eggplant	6	Rotation	*	0	15,000
67		Rujambara	Nyabaganza	MUKARUZIGA Angelique				8 *	35	280		Eggplant	20	Rotation	*	0	100,000
68		Rujambara	Nyabaganza	MUKANKUSI Juliette*				*		0		oor			*	0	
69		Rujambara	Nyabaganza	BARIGIRA Emmanuel				*		0					*	0	
70		Rujambara	Nyabaganza	NSANZINEZA Joseph	Carrot	9	Rotation	*		0	63,000				*	0	
71		Rujambara	Nyabaganza	MPAGAZEHE Gerrard	Beans	2	Rotation	*		0					*	0	
72		Rujambara	Nyabaganza	NIKOYAGENYE Constatin	2000		rounton	7 *	18	126	,	Carrot	g	Rotation	*	0	108,000
73		Rujambara	Nyabaganza	MURWANASHYAKA J.D.				*	10	0	ł	Currot		Rotation	*	0	100,000

No.	Sector	Cell	Village	Name of householder	Q11. Crop (4) cultivated in the marshland	Q11. Crop (4) number of bags produced in the marshland	Q11. Nos of plot for Crop (4) cultivated in the marshland	Size of p	Q11 lot o (m2	of crop	o (4)	income of crop (4)	Q11. Crop (5) cultivated in the marshland	Q11. Crop (5) number of bags produced in the marshland	Q11. Nos of plot for Crop (5) cultivated in the marshland	Size (	Q11. of plot o (5) (m2)		income of crop (5)
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu				40 *		7	280		Cabbage	5	Rotation		*	0	50,000
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA				*			0						*	0	,
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*				*			0						*	0	,
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	Cabbage	8	2	20 *		3	60	64,000				4	* 33	132	,
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne				*			0						*	0	,
79	Rurenge	Muhurire	Gitobe	BARAME Silas				*			0						*	0	,
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*				*			0						*	0	,
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*				*			0						*	0	,
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars				*			0						*	0	,
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita				*			0						*	0	,
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert				5 *	3	30	150						*	0	,
85	Rurenge	Muhurire	Gitobe	NABAHIRE				*			0						*	0	,
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis				3 *		7	21		Cabbage	6	Rotation		*	0	30,000
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie				*			0						*	0	,
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI				*			0						*	0	,
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas				5 *		6	30		Cabbage	9	Rotation		*	0	81,000
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude				2 *	1	18	36		Cabbage	4	Rotation		*	0	60,000
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	Sweet pepper	7	1	3 *		6	18	49,000	Potatoes	3	1	20	* 100	2,000	30,000
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent				*			0						*	0	,
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne				*			0						*	0	,
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI				3 *		5	15		Cabbage	20	Rotation		*	0	600,000
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*				10 *		5	50					30	* 5	150	
96		Muhurire	Gitobe	VUNUHAWE	Cabbage	24	3	3 *	1	15	45	96,000				3	* 15	45	
97	U	Muhurire	Gitobe	NSABIYUMVA Eric	Cabbage	5	Rotation	*			0	25,000					*	0	
98		Muhurire	Gitobe	MUHASHYI	Carrot	5	1	5 *	2	20	100		weet potatoe	2	1	5	* 20	100	20,000
99		Muhurire	Gitobe	KAWERA				*			0	,,,,,,,	P		_		*	0	
100	U	Muhurire	Gitobe	MUKABAKUNZI Shefura				4 *		7	28					3	* 15	45	
101		Muhurire	Gitobe	NIZEYIMANA Costa				5 *			100		Carrot	3	Rotation		*	0	18,000
102	U	Muhurire	Gitobe	RWAGATERA				*			0						*	0	
103	Rurenge	Muhurire	Gitobe	BAZIRA				*			0						*	0	
104		Muhurire	Gitobe	KARANGANWA Leonard	Carrot	1	Rotation	*			0	10,000					*	0	
105	U	Muhurire	Gitobe	BAMAZIKI Fabien	Maize	2	Rotation	*			0	30,000	Cabbage	6	Rotation		*	0	30,000
106		Muhurire	Gitobe	NZEYIMANA Eugène*	Cabbage	7	3	15 *		9	135	21,000				5	* 15	75	· ·
107		Rujambara	Nyabaganza	RUSAGARA Isdor*		,		*		-	0					-	*	0	_
108		Muhurire	Nyamata	NSABIMANA Innocent				*			0						*	0	,
109		Muhurire	Gitobe	KIMONYO Etienne				*			0						*	0	<del>                                     </del>
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin				*			0						*	0	
111				MUTONI Angelique				*			0						*	0	

No.	Sector	Cell	Village	Name of householder	Q11. Crop (4) cultivated in the marshland	Q11. Crop (4) number of bags produced in the marshland	Q11. Nos of plot for Crop (4) cultivated in the marshland	Size of	Q1: plot ( (m2	of crop	(4)	income of crop (4)	Q11. Crop (5) cultivated in the marshland	Q11. Crop (5) number of bags produced in the marshland	Q11. Nos of plot for Crop (5) cultivated in the marshland	Q11. Size of plot of crop (5) (m2)	income of crop (5)
112	Rurenge	Musya	Karama	NIZEYIMANA Valens					*		0					*	0
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*					*		0					冰	0
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*				5	*	30	150					*	0
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde				5	*	18	90					*	0
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	Cabbage	3.5	Rotation		*		0	17,500				*	0
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA					*		0					*	0
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain				6	*	6	36		Cabbage	18	2	6 * 6	36 90,000
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste					*		0					*	0
120	Rurenge	Muhurire	Gitobe	NIBATETE	Cabbage	30	Rotation		*		0	300,000				*	0
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin					*		0					*	0
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel					*		0					*	0
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique					*		0					*	0
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul					*		0					*	0
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	Cabbage	6	1	10	*	30	300	30,000				*	0
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre					*		0					*	0
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred				4	*	26	104					3 * 14	12
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin				4	*	25	100		Cabbage	3	Rotation	*	0 24,000
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata	Cabbage	2	Rotation		*		0	10,000				*	0
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	Sweet potatoes	8	1	3	* :	20	60	80,000				*	0
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais					*		0					*	0
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène					*		0					*	0
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien					*		0					*	0
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie					*		0					*	0
135	Rurenge	Rujambara		NYAMURIMA Valens*					*		0					*	0
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph					*		0					*	0
137	Rurenge	Muhurire	Nyamata	NGENDAHAYO	Cabbage	20	Rotation		*		0	200,000	Tomatoes	30	Rotation	ajs	0 450,000
138	Rurenge	Rujambara		KAGABO Fidele					*		0					*	0
139		Rujambara		MUKANKURANA Ernestine*				5	*	16	80					*	0
140	Rurenge	Rujambara		INGABIRE Marie Michel	Cabbage	15	Rotation		*		0	150,000	Eggplant	10	Rotation	*	0 200,000
141		Muhurire	Gitobe	UWIZEYIMANA Alphonse					*		0		201			*	0
142				MUKABATABAZI Evanisi					*		0					*	0
143	U	Rujambara	•	IYAKAREMYE Eric					*		0					*	0
144		Rujambara		GISAGARA					*		0					*	0

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.   Sector   Cell   Village   Name of householder   Cell (i)   Sector   Cell (ii)   Sector   Cell (iii)	<b>5</b> (14) C	.5 (1) 6.5	/ リハ <b>阿</b> 旦	.相木(202451	F) (Rurenge)																	
Rurenge   Rujumbran   Kaheza   Mulkarwa   Gitoba   Mulkarwa   Gitoba   Mulkarwa   Gitoba	No.	Sector	Cell	Village	Name of householder	(6) cultivated in the	number of bags produced in the	plot for Crop (6) cultivated in the	Size of plot of (6)	of crop	income of crop in	in									•	
Secretary   Machanitra   Girobe   Machanitra   Girobe   Machanitra   Segundaria	1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*				*	0	102,500	225	270 *	. 75	20,250	20 *	30	600		*		0
Minimatur   Mini	2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille				*	0	84,000	266	100 *	50	5,000	30 *	15	450		*		0
Strenge Rigimbra   Systematic   Systematic	3	Rurenge	Muhurire	Gitobe	MURENZI Joseph				*	0	36,000	296	30 *	40	1,200	50 *	70	3,500	50	*	120 6,0	00
Rurenge   Rujambara   Alarambaray   WIRANTWARI Violetic	4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean				*	0	190,000	925	30 *	90	2,700	20 *	60	1,200	20	*	50 1,0	00
Rurenge   Rajambara   Nyabaganza MUMAKABARE Genifa*	5	Rurenge	Rujambara	Nyabaganza	GATETE James*				*	0	380,000	2,800	30 *	60	1,800	50 *	60	3,000	50	*	40 2,0	00
Registration   Nysheganza   N	6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette				*	0	580,000	551	20 *	30	600	28 *	24	672	50	*	100 5,0	00
Surrenge   Rujambara   Najabaganza   MUDAHERANWA Augustin	7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*				*	0	145,000	477	80 *	. 70	5,600	25 *	80	2,000	100	*	120 12,0	00
Number   Rujambara   Akarambaraye   Nyingamara   Ramamaraye   Nyingamara   Ramamaraye   Nyingamara   Nyabaganza   Nyingamara   Nyinga	8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*				*	0	145,000	252	40 *	. 70	2,800	20 *	30	600	16	*	15 2	40
Rurenge   Rujambara   Nyabaganaza   Nyabag	9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin				*	0	230,000	450	40 *	50	2,000	30 *	60	1,800	50	*	70 3,5	00
1	10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA				*	0	298,000	3,080	164 *	80	13,120	*		0		*		0
Rurenge   Manurice	11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic				*	0	154,000	596	30 *	40	1,200	50 *	80	4,000	40	*	30 1,2	.00
Name	12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*				*	0	155,000	1,520	40 *	66	2,640	30 *	20	600	20	*	30 <i>ϵ</i>	00
Facility   Markey   Multurire   Gitobe   MUNYENGABE Fabien	13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina				*	0	232,000	80	87 *	90	7,830	*		0		*		0
National N	14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel				*	0	274,000	205	40 *	. 70	2,800	50 *	90	4,500	30	*	50 1,5	00
17   Rurenge   Mulmire   Gitobe   MTEZIMANA Emmanuel	15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien				*	0	176,000	180	30 *	40	1,200	15 *	60	900	25	*	40 1,0	00
Rurenge   Rujambara   Mashyoza   HANAMBINTWALI Emmanuel	16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias				*	0	600,000	630	60 *	40	2,400	10 *	25	250		*		0
National Registration   Nati	17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel				*	0	210,000	192	20 *	60	1,200	20 *	50	1,000	20	*	50 1,0	00
Rurenge   Rujambara   Nyabaganza   KABERA Fidèle	18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel				*	0	120,000	600	20 *	30	600	60 *	50	3,000	20	*	15 3	00
Rurenge   Rujambara   Ryabaganza   RASANZINEZA Alexis*	19	Rurenge	Rujambara	Nyabaganza	BUGINGO David				*	0	350,000	181	100 *	200	20,000	30 *	70	2,100	20	*	30 <i>ϵ</i>	00
Rurenge   Rujambara   Akarambaraye   MUGEMANA Telesphore	20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle				*	0	114,000	608	80 3	· 70	5,600	60 *	50	3,000	20	*	30 <i>ϵ</i>	00
Rurenge   Rujambara   Akarambaraye   Rizinde   Rujambara   Akarambaraye   Rizinde   Rujambara   Akarambaraye   Rizinde   Rujambara   Ruj	21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*				*	0	350,000	820	75 *	10	750	80 *	50	4,000	75	*	10 7	50
24 Rurenge Rujambara Akarambaraye RIZINDE	22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne				*	0	118,000	390	120 *	. 80	9,600	100 *	85	8,500	50	*	30 1,5	00
Rurenge   Rujambara   Ryabaganza   SEMANA Joseph	23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore				*	0	220,000	495	30 *	60	1,800	10 *	30	300	15	*	35 5	25
26         Rurenge         Rujambara         Nyabaganza         NYIRANSABIMANA Denyse*         1         7         * 15         105         228,000         840         30         * 75         2,250         20         * 30         600         10         * 12         120           27         Rurenge         Rujambara         Nyabaganza         NTAKAVURO Emmanuel*         Cabbage         10         1         24         * 5         120         65,000         201,000         2,130         20         * 100         2,000         40         * 60         2,400         50         2,500           28         Rurenge         Rujambara         Akarambaraye         MUNYESHYAKA Théogène         * 8         0         154,000         200         40         * 80         3,200         * 8         0         2,500           29         Rurenge         Rujambara         Akarambaraye         NTIVUGURUZWA Theogene         * 8         0         390,000         348         20         * 40         800         20         * 30         600         32         * 55         1,760           30         Rurenge         Rujambara         Nyabaganza         MUNYABUGINGO Pascal         * 8         0         280,000         530 <td>24</td> <td>Rurenge</td> <td>Rujambara</td> <td>Akarambaraye</td> <td>RIZINDE</td> <td></td> <td></td> <td></td> <td>*</td> <td>0</td> <td>365,000</td> <td>446</td> <td>40 *</td> <td>30</td> <td>1,200</td> <td>10 *</td> <td>20</td> <td>200</td> <td>15</td> <td>*</td> <td>40 <i>ϵ</i></td> <td>00</td>	24	Rurenge	Rujambara	Akarambaraye	RIZINDE				*	0	365,000	446	40 *	30	1,200	10 *	20	200	15	*	40 <i>ϵ</i>	00
27         Rurenge         Rujambara         Nyabaganza         NTAKAVURO Emmanuel*         Cabbage         10         1         24 * 5 120 65,000 201,000 201,000 21,000 201,000 201,000 200 40 * 80 3,200 40 * 60 2,400 50 * 50 2,500           28         Rurenge         Rujambara         Akarambaraye         MUNYESHYAKA Théogène         *         0         154,000 200 40 * 80 3,200 * * 0 80 3,200 * * 0 80 80 80 80 80 80 80 80 80 80 80 80 8	25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph				5 * 35	175	199,000	892	50 *	100	5,000	60 *	40	2,400	15	*	20 3	00
28         Rurenge         Rujambara         Akarambaraye         MUNYESHYAKA Théogène         *         0         154,000         200         40         *         80         3,200         *         0         *         0           29         Rurenge         Rujambara         Akarambaraye         NTIVUGURUZWA Theogene         *         0         390,000         348         20         *         40         800         20         *         30         600         32         *         55         1,760           30         Rurenge         Rujambara         Nyabaganza         MUNYABUGINGO Pascal         *         0         280,000         530         70         *         40         2,800         30         *         40         1,200         20         *         60         1,200           31         Rurenge         Rujambara         Akarambaraye         NUBUHORO Anastasie         *         0         16,000         42         20         *         30         600         30         *         0           32         Rurenge         Rujambara         Akarambaraye         NUJAWAMARIYA         *         0         228,000         320         100         *         10         <	26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*				7 * 15	105	228,000	840	30 *	. 75	2,250	20 *	30	600	10	*	12 1	20
25   Rutchige   Rujambara   Akarambaraye   Rujambara   Akarambaraye   Rujambara   Akarambaraye   Rujambara   Akarambaraye   Rujambara   Akarambaraye   Rujambara   Akarambaraye   Rujambara   Rujamb	27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	Cabbage	10	1	24 * 5	120 65,00	201,000	2,130	20 *	100	2,000	40 *	60	2,400	50	*	50 2,5	00
Statistical Region   Region	28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène				*	0	154,000	200	40 *	80	3,200	*		0		*		0
31         Rurenge         Rujambara         Akarambaraye         NUBUHORO Anastasie         *         0         16,000         42         20         *         30         600         30         *         50         1,500         *         0           32         Rurenge         Muhurire         Gitobe         RUKERATABARO Stanislas         *         0         228,000         320         100         *         100         10,000         100         10,000         20         *         30         600           33         Rurenge         Rujambara         Akarambaraye         NIYONIZERA Oscar         *         0         24,000         530         15         *         30         450         20         10         *         15         150           34         Rurenge         Rujambara         Nyabaganza         MUJAWAMARIYA Francoise         *         0         6,000         204         40         *         100         4,000         30         *         70         2,100         20         *         30         600	29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene				*	0	390,000	348	20 *	40	800	20 *	30	600	32	*	55 1,7	60
31         Rurenge         Muhurire         Gitobe         RUKERATABARO Stanislas         *         0         228,000         320         100         *         100         10,000         100         100         10,000         20         *         30         600           33         Rurenge         Rujambara         Akarambaraye         NIYONIZERA Oscar         *         0         24,000         530         15         *         30         450         20         10         *         15         150           34         Rurenge         Rujambara         Nyabaganza         MUJAWAMARIYA Francoise         *         0         6,000         204         40         *         100         4,000         30         *         70         2,100         20         *         30         600	30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal				*	0	280,000	530	70 *	40	2,800	30 *	40	1,200	20	*	60 1,2	.00
Size   National Control   State   St	31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie				*	0	16,000	42	20 *	30	600	30 *	50	1,500		*		0
34 Rurenge Rujambara Nyabaganza MUJAWAMARIYA Francoise * 0 6,000 204 40 * 100 4,000 30 * 70 2,100 20 * 30 600	32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas				*	0	228,000	320	100 *	100	10,000	100 *	100	10,000	20	*	30 <i>€</i>	00
34 Rurenge Rujambara Nyabaganza MUJAWAMARIYA Francoise * 0 6,000 204 40 * 100 4,000 30 * 70 2,100 20 * 30 600	33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar				*	0	24,000	530	15 *	30	450	20 *	10	200	10	*	15 1	50
35 Rurenge Rujambara Nyabaganza RENZAHO Tharcisse	34		-						*	0	6,000	204	40 *	100	4,000	30 *	70	2,100	20	*	30 <i>€</i>	00
	35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse				*	0	148,000	804	100 *	100	10,000	*		0		*		0

No.   Sector   Celt   Williage   Washer   Celt   Williage   Washer   Celt   Washer   Celt   Washer   Celt   Washer   Celt   Washer   Celt	<b>5</b> 44 0	.5 (1) 62	ノノ内国	MIT ( ALL ALS 11	F) (Rurenge)																			
Street   S	No.	Sector	Cell	Village	Name of householder	(6) cultivated in the	number of bags produced in the	plot for Crop (6) cultivated in the	Size of p	olot of crop (6)	of crop	income of crop in	in			•								
Section   Sect	36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*				*	(	O	30,000	537	60	*	120	7,200	60 *	100	6,000	50	*	80	4,000
Retruege Rejambars   Nyalaganza   NUCYAKAZI Molece	37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	Onion	3	1	6 *	20 12	45,000	205,000	465	50	*	50 2	2,500	10 *	30	300		*		0
National N	38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*				*	(	O	146,000	415	100	*	50	5,000	20 *	30	600	30	*	45	1,350
Ruenge Ngjimban Nyshogarza	39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*				*	(	0	20,000	214	30	*	50	1,500	40 *	60	2,400		*		0
Rurenge   Muhurire   Giobe   MUKARMORA   MISANGRA AMB	40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*				*	(	0	190,000	430	27	*	40	1,080	25 *	30	750	15	*	40	600
Ruteringe Rujambar   Nyabagaraza   Mikarenge Rujambara   Nyabagaraza   Mikarenge Mik	41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien				*	(	0	505,000	468	100	*	40	4,000	*		0		*		0
Hard   Rutering   Multimary   Globe   MUKARUTAMU	42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*				*	(	O	117,000	56	20	*	30	600	100 *	150	15,000	20	*	40	800
Renerge   Rajambara   Nyabaganza   MUKAGAPURAMA Claudine	43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia				*	(	O	54,000	112	100	*	300 30	0,000	*		0		*		0
Figure   Part   Part	44	Rurenge	Muhurire	Gitobe	MUKARUTAMU				*	(	O	114,000	275	70	*	100	7,000	40 *	70	2,800	60	*	70	4,200
Rurenge   Rujambara   Rurenge   Rujambara	45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne				*	(	O	123,500	1,200	10	*	70	700	30 *	35	1,050	25	*	40	1,000
Reference   Multurire   Gitobe   MURRAGIYMANA J. Claude	46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine				*	(	0	45,000	422	80	*	120	9,600	30 *	70	2,100	50	* :	200 1	0,000
Number   N	47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE				*	(	O	100,000	600	80	* 1,	000 80	0,000	*		0		*		0
Number   Rujambara   Rumbaraye   Rukeshamihigo   Rumbara   Rumbaraye   Rukeshamihigo   Rumbara   Rumbaraye   Rukandikiwa Usel	48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude				*	(	0	170,000	134	30	*	7	210	30 *	40	1,200	15	*	50	750
Rurenge Rujambara   Rurangara Rurangara   Rurangara	49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette				*	(	0	90,000	306	20	*	30	600	20 *	40	800	20	*	60	1,200
Rurenge Rujambara Nyabaganza Rurenge Rujamb	50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO				*	(	0	120,000	142	20	*	45	900	60 *	35	2,100	20	*	30	600
National Registration   Nati	51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel				*	(	0	235,000	125	100	*	50	5,000	30 *	70	2,100	40	*	50	2,000
Standard Rugimbara   Rugimba	52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie				*	(	0	160,000	245	100	*	100 10	0,000	20 *	50	1,000	50	*	150	7,500
State   Stat	53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel				*	(	0	105,500	900	60	*	90 :	5,400	*		0		*		0
State   Rurenge Rujambara	54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina				*	(	0	310,000	246	35	*	50	1,750	*		0		*		0
Rurenge   Rujambara   Rurenge   Rujambara   Rujambar	55	Rurenge	Rujambara		NAHIMANA Theogene				*		0	21,000	225	80	*	50 4	4,000	5 *	4	20		*		0
88         Rurenge         Rujambara         Nyabaganza         MUKANYUZAHAYO         *         0         91,500         2,522         40 **         50         2,000         15 **         30         450         *         0           59         Rurenge         Rujambara         Nyabaganza         MUGIRANEZA Gilbert         *         0         41,000         140         30 **         40         1,200         40 **         50         2,000         *         0           60         Rurenge         Rujambara         Akarambaraye         BICAMUMPAKA Claude*         3 ** 7         21         360,000         44         30 ** 40         1,200         30 ** 50         1,500         20 ** 70         1,400           61         Rurenge         Rujambara         Akarambaraye         BICAMUMPAKA Claude*         *         0         160,000         94         100 ** 80         8,000         *         0         0           62         Rurenge         Rujambara         Akarambaraye         HABINEZA Evariste         *         0         300,000         44         80 ** 20         1,600         60 ** 15         900         30 ** 12         360           65         Rurenge         Rujambara         Nyabaganza	56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette				*	(	0	112,000	915	30	*	70 2	2,100	20 *	50	1,000	20	*	40	800
58         Rurenge         Rujambara         Nyabaganza         MUKANYUZAHAYO         *         0         91,500         2,522         40 * 50         2,000         15 * 30         450         *         0           59         Rurenge         Rujambara         Nyabaganza         MUGIRANEZA Gilbert         *         0         41,000         140         30 * 40         1,200         40 * 50         2,000         *         0           60         Rurenge         Rujambara         Akarambaraye         BICAMUMPAKA Claude*         3 * 7         21         360,000         449         30 * 40         1,200         30 * 50         1,500         20 * 70         1,400           61         Rurenge         Rujambara         Akarambaraye         BICAMUMPAKA Claude*         *         0         160,000         449         30 * 40         1,200         30 * 50         1,500         20 * 70         1,400           61         Rurenge         Rujambara         Akarambaraye         MUKANDLI Jeanette         *         0         160,000         94         100 * 80         8,000         100 * 80         8,000         100 * 80         8,000         100 * 80         8,000         100 * 80         8,000         100 * 80         8,000	57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse				*		0	140,000	220	50	*	100	5,000	50 *	100	5,000	30	*	40	1,200
Rurenge   Rujambara   Rujambara   Rujambara   Rujambara   Rujambara   Rujambara   Rurenge   Rujambara   Rure	58	Rurenge	Rujambara	Nyabaganza					*	(	0	91,500	2,522	40	*	50 2	2,000	15 *	30	450		*		0
Rurenge   Rujambara   Nyabaganza   MUKANDOLI Jeanette	59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert				*	(	0		140	30	*	40	1,200	40 *	50	2,000		*		0
Rulenge   Rujambara   Rujamb	60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*				3 *	7 2	1	360,000	449	30	*	40	1,200	30 *	50	1,500	20	*	70	1,400
Rurenge   Rujambara   Akarambaraye   HABINEZA Evariste	61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette				*		0	160,000	94	100	*	80 8	8,000	100 *	80	8,000		*		0
64 Rurenge Rujambara Nyabaganza MUKAGATARE Clementine	62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens				*	(	0	300,000	84	80	*	20	1,600	60 *	15	900	30	*	12	360
65 Rurenge Rujambara Nyabaganza IRAFASHA Valens   * * * * * * * * * * * * * * * * * *	63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste				*	(	0	80,000	468	100	*	50 :	5,000	100 *	40	4,000		*		0
66 Rurenge Muhurire Gitobe BUTATI Jean de Dieu Cabbage 3 Rotation * 0 22,500 69,500 500 40 * 50 2,000 30 * 70 2,100 25 * 40 1,000 67 Rurenge Rujambara Nyabaganza MUKARUZIGA Angelique * 0 180,000 915 20 * 60 1,200 30 * 50 1,500 25 * 70 1,750 68 Rurenge Rujambara Nyabaganza MUKANKUSI Juliette* * 0 12,000 420 100 * 100 10,000 * 0 10,000 * 0 0 * 0 0 0 0 0 0 0 0 0 0 0 0 0	64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine				*	(	0	123,000	815	30	*	60	1,800	*		0		*		0
67 Rurenge Rujambara Nyabaganza MUKARUZIGA Angelique	65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens				*		0	85,000	280	100	*	100 10	0,000	50 *	50	2,500	25	*	32	800
67         Rurenge         Rujambara         Nyabaganza         MUKARUZIGA Angelique         *         0         180,000         915         20         *         60         1,200         30         *         50         1,500         25         *         70         1,750           68         Rurenge         Rujambara         Nyabaganza         MUKANKUSI Juliette*         *         0         12,000         420         100         *         100         10,000         *         0         *         0           69         Rurenge         Rujambara         Nyabaganza         BARIGIRA Emmanuel         *         0         52,000         116         100         *         10         10,000         *         0         *         0           70         Rurenge         Rujambara         Nyabaganza         NSANZINEZA Joseph         *         0         662,000         40         30         *         50         1,500         15         10         150         *         0           71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         *         0         70,000         205,000         504         60         *         30         1,800	66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	Cabbage	3	Rotation	*	(	22,500	69,500	500	40	*	50 2	2,000	30 *	70	2,100	25	*	40	1,000
69 Rurenge Rujambara Nyabaganza BARIGIRA Emmanuel * 0 52,000 116 100 * 100 10,000 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 *	67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique				*	(	0	180,000	915	20	*			30 *	50	1,500	25	*	70	1,750
69         Rurenge         Rujambara         Nyabaganza         BARIGIRA Emmanuel         *         0         52,000         116         100         *         10         10,000         *         0         *         0           70         Rurenge         Rujambara         Nyabaganza         NSANZINEZA Joseph         *         0         662,000         40         30         *         50         1,500         15         10         150         *         0           71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         *         0         108,000         1,922         25         *         50         1,250         15         70         1,050         50         *         30         1,500           72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         Cabbage         7         Rotation         *         0         70,000         205,000         504         60         *         30         1,800         40         *         25         1,000         *         0	68								*	(	0	12,000	420	100	*	100 10	0,000	*		0				0
70         Rurenge         Rujambara         Nyabaganza         NSANZINEZA Joseph         *         0         662,000         40         30 *         50 1,500         15 *         10         150         *         0           71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         *         0         108,000         1,922         25 *         50         1,250         15 *         70         1,050         50 *         30         1,500           72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         Cabbage         7         Rotation         *         0         70,000         205,000         504         60 *         30         1,800         40 *         25         1,000         *         0	69			, ,	BARIGIRA Emmanuel				*	(	0	52,000	116	100	*	100 10	0,000	*		0		*		0
71         Rurenge         Rujambara         Nyabaganza         MPAGAZEHE Gerrard         *         0         108,000         1,922         25 * 50         1,250         15 * 70         1,050         50 * 30         1,500           72         Rurenge         Rujambara         Nyabaganza         NIKOYAGENYE Constatin         Cabbage         7         Rotation         *         0         70,000         205,000         504         60 * 30         1,800         40 * 25         1,000         *         0	70			, ,	NSANZINEZA Joseph				*	(	0	662,000	40	30	*	50	1,500	15 *	10	150		*		0
72 Rurenge Rujambara Nyabaganza NIKOYAGENYE Constatin Cabbage 7 Rotation * 0 70,000 205,000 504 60 * 30 1,800 40 * 25 1,000 * 0	<b>-</b>			, ,	•				*	(	0				*						50	*	30	1,500
	72		-		NIKOYAGENYE Constatin	Cabbage	7	Rotation	*	(	70,000	205,000	504	60	*			40 *	25	1,000		*		0
			-		MURWANASHYAKA J.D.				*	(	0	164,700		20	*	4	80	10 *	30	300	40	*	45	1,800

見作り	.5 (1) E.	ノリス門里	和木(巡巡	# ) (Rurenge)																		
No.	Sector	Cell	Village	Name of householder	Q11. Crop (6) cultivated in the marshland	Q11. Crop (6) number of bags produced in the marshland	Q11. Nos of plot for Crop (6) cultivated in the marshland	Size of p	011. llot of crop (6) m2)	income of crop (6)	Total income of crop in Marshland	Total plot in Marshland			of plot A parshland		. Size o	f plot B arshland		2. Size o		
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	Carrot	2		*		4,000	204,000	408	50	* 1	00 5,0	00 30	* 40	1,200		*		0
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA				*	(	)	155,000	666	100	*	50 5,0	00 9	* 30	270		*		0
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*				*	(	)	22,000	595	124	*	32 3,9	68 30	* 50	1,500	30	*	50 1	1,500
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	Eggplant	22	2	3 *	20 6	132,000	232,000	564	20	*	40 8	00 20	* 30	600	20	*	30	600
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne				*	(	)	50,000	145	15	*	25 3	75 25	* 40	1,000		*		0
79	Rurenge	Muhurire	Gitobe	BARAME Silas				*	(	)	20,000	42	50	* 1	00 5,0	00 20	* 30	600		*		0
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*				*	(	)	67,000	2,500	50	*	50 2,5	00 50	* 50	2,500		*		0
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*				*	(	)	48,000	5,400	25	*	30 7	50 15	* 20	300		*		0
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars				*	(	)	225,000	480	20	*	15 3	00 30	* 40	1,200	10	* 3	30	300
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita				*	(	)	110,000	440	50	* 1	00 5,0	00 40	* 80	3,200		*		0
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert				*		)	340,000	2,070	40	*	30 1,2	00 20	* 17	340	5	*	30	150
85	Rurenge	Muhurire	Gitobe	NABAHIRE				*	(	)	165,000	5,160	80	*	60 4,8	00 60	* 100	6,000		*		0
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	Tomato	25	Rotation	*		300,000	355,000	327	110	*	80 8,8	00	*	0		*		0
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie				*	(	)	50,000	50	17	*	30 5	10 20	* 15	300		*		0
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI				*		)	428,000	21	30	*	50 1,5	00 20	* 40	800		*		0
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	Sweet pepper	2	Rotation	*	(	50,000	146,000	120	20	*	40 8	00 20	* 30	600	18	*	16	288
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	Eggplant	12	Rotation	*	(	480,000	565,000	198	20	* .	40 8	00 40	* 50	2,000	30	*	50 1	1,500
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	Sorghum	2	1	20 *	100 2,00	50,000	255,000	4,078	80	* 1	00 8,0	00 15	* 10	150	4	*	10	40
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent				*	(	)	246,000	150	50	* 1	00 5,0	00 50	* 100	5,000		*		0
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne				*		)	60,000	680	50	*	50 2,5	00 30	* 40	1,200	20	*	30	600
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI				*	(	)	792,000	200	20	*	30 6	00	*	0		*		0
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	Vegetables	4.5	3	4 *	25 10	90,000	290,000	1,620	10	*	85 8	50 10	* 90	900	26	*	17	442
96	Rurenge	Muhurire	Gitobe	VUNUHAWE				3 *	15 4:	5	168,000	270	20	*	40 8	00 30	* 60	1,800	20	*	30	600
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric				*	(	)	101,000	320	32	*	13 4	16 20	* 40	800		*		0
98	Rurenge	Muhurire	Gitobe	MUHASHYI				*	(	)	80,000	425	50	* '	70 3,5	00 30	* 70	2,100		*		0
99	Rurenge	Muhurire	Gitobe	KAWERA				*	(	)	52,000	60	20	*	40 8	00 15	* 20	300		*		0
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	Carrot	9	2	3 *	7 2	36,000	83,000	257	12	*	30 3	60 40	* 12	480	20	*	30	600
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	Cabbage	7	Rotation	*	(	35,000	143,000	340	20	*	30 6	00 20	* 30	600	21	*	30	630
102	Rurenge	Muhurire	Gitobe	RWAGATERA				*	(	)	20,000	105	30	*	50 1,5	_	*	0		*		0
103	Rurenge	Muhurire	Gitobe	BAZIRA				*	(	)	135,000	750	50	*	70 3,5	00 50	* 70	3,500		*		0
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard				*	(	)	230,000	80	50	* 1	00 5,0	00 30	* 50	1,500	30	*	20	600
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien				*		)	150,000	60			00 5,0				20	* 1		2,000
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*				4 *	17 6	3	381,000	1,278	70		20 1,4	_			30		50 1	
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*				*		)	420,000	1,875	75		30 17,2					*		0
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent				*		)	0	504	20			00 20			20	*	30	600
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne				*	(	)	50,000	160	20			00 30			30			1,200
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin				*	(	)	300,000	530	30		60 1,8	_				*		0
111	Rurenge			MUTONI Angelique				*		)	133,000	588	20				* 100		6	*	98	588
		,			1			l		1	-22,000	230					100	-,000	·			2 30

No.	Sector	Cell	Village	Name of householder	Q11. Crop (6) cultivated in the marshland	Q11. Crop (6) number of bags produced in the marshland	Q11. Nos of plot for Crop (6) cultivated in the marshland	Q11. Size of plot of crop (6) (m2)	income of crop (6)	Total income of crop in Marshland	Total plot in Marshland	Q12. outsid	Size o			Q12. Si outside (					of plot C narshlar	
112	Rurenge	Musya	Karama	NIZEYIMANA Valens				* (	)	88,000	630	45	* :	30	1,350	35 *	120	4,200	20	*	70 1,	400
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*				* (	)	460,000	1,300	20		30	600	*		0		*		0
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*				* (	)	247,500	700	50			4,000	40 *	50	2,000		*		0
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde				* (	)	80,000	307	46	*	50	2,300	28 *	17	476	27	*	65 1,	755
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse				* (	)	172,500	123	74	*	32	2,368	40 *	20	800		*		0
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA				* (	)	150,000	400	50	*	50	2,500	30 *	40	1,200		*		0
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain				7 * 10 70	)	150,000	304	30	* ′	70	2,100	40 *	30	1,200	40	*	10	400
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste				* (	)	43,000	150	20	* 4	40	800	20 *	30	600		*		0
120	Rurenge	Muhurire	Gitobe	NIBATETE				* (	)	487,500	352	40	*	80	3,200	5 *	10	50		*		0
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin				* (	)	80,000	56	60	*	50	3,000	40 *	80	3,200	40	*	40 1,0	600
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel				* (	)	127,000	225	25	* /	40	1,000	10 *	50	500	50	* 1	100 5,0	000
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique				* (	)	28,000	200	30	*	50	1,500	40 *	60	2,400		*		0
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul				* (	)	60,000	500	50	* ′	70	3,500	20 *	100	2,000		*		0
125	Rurenge	Muhurire	Gitobe	BITWAYIKI				* (	)	114,000	1,200	80	*	50	4,000	30 *	20	600	20	*	30	600
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre				* (	)	40,000	150	15	* ′	25	375	*		0		*		0
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred				* (	)	12,000	455	40	*	30	1,200	30 *	60	1,800	20	*	50 1,0	000
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin				* (	)	54,000	440	70	*	82	5,740	70 *	90	6,300	5	*	40	200
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata				* (	)	110,000	452	50	* 2	20	1,000	20 *	30	600		*		0
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien				* (	)	128,000	335	40	* 10	00	4,000	40 *	70	2,800	60	*	60 3,0	600
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais				* (	)	125,000	480	20	*	30	600	100 *	40	4,000	30	*	40 1,2	200
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène				* (	)	97,500	150	50	*	10	500	*		0		*		0
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien				* (	)	30,000	75	20	*	50	1,000	15 *	30	450	20	*	40	800
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie				* (	)	78,625	735	20	*	30	600	30 *	15	450	25	*	40 1,0	000
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*				* (	)	80,000	40	40	* 2	20	800	50 *	30	1,500		*		0
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph				* (	)	220,000	408	20	* 4	40	800	20 *	50	1,000		*		0
137	Rurenge	Muhurire	Nyamata	NGENDAHAYO				* (	)	725,000	111	100	*	50	5,000	100 *	50	5,000	100	* 1	100 10,0	000
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele				* (	)	150,000	32	10	* 4	40	400	20 *	50	1,000		*		0
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*				* (	)	160,000	272	50	* 10	00	5,000	50 *	100	5,000	30	*	60 1,3	800
140	Rurenge	,		INGABIRE Marie Michel				* (	)	370,000	352	30	* (	60	1,800	20 *	36	720	20	*	30	600
141		Muhurire	Gitobe	UWIZEYIMANA Alphonse				* (	)	80,000	200	20	*		1,000	20 *	70	1,400		*		0
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi				* (	)	18,000	200	20	*	30	600	40 *	60	2,400	35	*	75 2,0	625
143	Rurenge	Rujambara		IYAKAREMYE Eric				* (	)	120,000	4,300	120	*	30	3,600	*		0		*		0
144		,	, ,	GISAGARA				* (	)	60,000	800	80			3,200	20 *	50	1,000	12	*	20 2	240

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	Q12. Size of plot D outside of marshland	Q12. Size of plot E outside of marshland	Total plot size outside of marshland	Total farmland	Percentag e rate of plot in marshland	Q13. Times to cultivate outside of marshland	Q14. Times to cultivate outside of marshland (within 60m from the marshland)	Q15. Years to stay in the area	Q16. Kind of domestic water, rainy season	Q17. Kind of domestic water, dry season	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*	* 0	* 0	20,850	21,075	1%	2	2	44	1;5	5	Yes	Yes
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille	* 0	* 0	5,450	5,716	5%	2	N/A	42	1;5	5	No	Yes
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph	* 0	* 0	10,700	10,996	3%	2	N/A	32		5	No	Yes
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	12 * 60 720	* 0	5,620	6,545	14%	2	N/A	64	1;2	2	No	Yes
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	* 0	* 0	6,800	9,600	29%	2	2	37	1;5	5	Yes	Yes
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette	* 0	* 0	6,272	6,823	8%	2	2	54	1;5;7	5;7	Yes	Yes
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	* 0	* 0	19,600	20,077	2%	2	2	50	1;5	5	No	Yes
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	* 0	* 0	3,640	3,892	6%	2	N/A	50	1;5	5	No	Yes
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	* 0	* 0	7,300	7,750	6%	2	N/A	54	1;5	5	Yes	Yes
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	* 0	* 0	13,120	16,200	19%	2	N/A	59	7	7	No	Yes
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	* 0	* 0	6,400	6,996	9%	2	N/A	46	1;5	5	Yes	Yes
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	* 0	* 0	3,840	5,360	28%	2	2	33	1;5	5	No	Yes
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	* 0	* 0	7,830	7,910	1%	2	N/A	65	1;5	5	No	Yes
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	* 0	* 0	8,800	9,005	2%	2	N/A	45	1;5	5	No	Yes
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	* 0	* 0	3,100	3,280	5%	2	2	37	,	4	No	Yes
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	* 0	* 0	2,650	3,280	19%	2	2	25	1;5	5	No	Yes
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	40 * 50 2,000	4 * 25 100	5,300	5,492	3%	2	N/A	48	1;5	5	No	Yes
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	* 0	* 0	3,900	4,500	13%	2	2	29	1;7	7	No	Yes
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	* 0	* 0	22,700	22,881	1%	2	N/A	62	1;5	5	No	Yes
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	* 0	* 0	9,200	9,808	6%	2	N/A	42	1;5	5	No	Yes
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	* 0	* 0	5,500	6,320	13%	2	N/A	37	1;4	4	Yes	Yes
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	* 0	* 0	19,600	19,990	2%	2	2	57	1;7	7	No	Yes
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	4 * 25 100	* 0	2,725	3,220	15%	2	N/A	18	4	5	No	Yes
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	6 * 25 150	3 * 25 75	2,225	2,671	17%	2	N/A	31	1;5	5	Yes	Yes
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	* 0	* 0	7,700	8,592	10%	2	2	44	1;4	4	No	Yes
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	* 0	* 0	2,970	3,810	22%	2	2	22	1;5	5	No	Yes
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	* 0	* 0	6,900	9,030	24%	2	2	43	1;5	5	Yes	Yes
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	* 0	* 0	3,200	3,400	6%	2	N/A	27	1;4	4	Yes	Yes
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene	* 0	* 0	3,160	3,508	10%	2	N/A	34	1;5	5	Yes	Yes
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	* 0	* 0	5,200	5,730	9%	2	2	44	1;5	5	No	Yes
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie	* 0	* 0	2,100	2,142	2%	2	N/A	70	1	5	No	Yes
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	100 * 100 10,000	* 0	30,600	30,920	1%	2	N/A	20	4;5	4;5	Yes	Yes
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	* 0	* 0	800	1,330	40%	N/A	N/A	20	5	5	No	Yes
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Francoise	* 0	* 0	6,700	6,904	3%	2	N/A	21	1;5	5	No	Yes
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse	* 0	* 0	10,000	10,804	7%	2	N/A	32	1;5	5	No	No

<b>5</b> 44 0	.5 (1) 62	/ J / MIII	#HT / ME 451	F) (Rurenge)												
No.	Sector	Cell	Village	Name of householder	Q12. Size of plot D outside of marshland	Q12. Size of plot E outside of marshland	Total plot size outside of marshland	Total farmland	Percentag e rate of plot in marshland	Q13. Times to cultivate outside of marshland	Q14. Times to cultivate outside of marshland (within 60m from the marshland)	Q15. Years to stay in the area	Q16. Kind of domestic water, rainy season	Q17. Kind of domestic water, dry season	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	* 0	* 0	17,200	17,737	3%	2	2	65	4	1	Yes	Yes
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	* 0	* 0	2,800	3,265	14%	2	N/A	50	1;5	5	No	Yes
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	* 0	* 0	6,950	7,365	6%	2	2	53	1;5	5	No	Yes
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	* 0	* 0	3,900	4,114	5%	2	N/A	61	1;5	5	No	No
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	* 0	* 0	2,430	2,860	15%	2	2	31	1;5	5	No	Yes
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	* 0	* 0	4,000	4,468	10%	2	2	53	1;5	5	No	Yes
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	* 0	* 0	16,400	16,456	0.3%	2	2	73	1;5	5	No	Yes
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	* 0	* 0	30,000	30,112	0.4%	2	N/A	61	1	5	No	Yes
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	* 0	* 0	14,000	14,275	2%	2	N/A	60	1;5	5	Yes	Yes
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	50 * 80 4,000	* 0	6,750	7,950	15%	2	N/A	50	1;5	5	No	Yes
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	* 0	* 0	21,700	22,122	2%	2	N/A	61	1;5	5	No	No
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	* 0	* 0	80,000	80,600	1%	2	2	53	1;4	4;5	No	Yes
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	* 0	* 0	2,160	2,294	6%	2	N/A	31	1;5	5	Yes	Yes
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	18 * 50 900	* 0	3,500	3,806	8%	2	N/A	54	1;4	4	Yes	Yes
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	* 0	* 0	3,600	3,742	4%	2	N/A	29	1;5	5	No	Yes
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	* 0	* 0	9,100	9,225	1%	2	2	45	1;5	5	No	Yes
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	20 * 60 1,200	* 0	19,700	19,945	1%	2	N/A	50	5	5	No	Yes
53		Muhurire	Gitobe	MUNYANEZA Usiel	* 0	* 0	5,400	6,300	14%	2	N/A	34	1;4	4	Yes	Yes
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina	* 0	* 0	1,750	1,996	12%	2	N/A	34	1;5	5	Yes	Yes
55		Rujambara	Nyabaganza	NAHIMANA Theogene	* 0	* 0	4,020	4,245	5%	2	N/A	34	1;4	4;2	No	Yes
56		Rujambara	, ,	UMUHIRE Theodette	* 0	* 0	3,900	4,815	19%	2	2	18	1;5	5	No	Yes
57		Rujambara		NTIRENGANA Alphonse	* 0	* 0	11,200	11,420	2%	2	2	36	,	5	Yes	Yes
58		Rujambara	-	MUKANYUZAHAYO	* 0	* 0	2,450	4,972	51%	2	2	12	,	4	No	Yes
59		Rujambara	Nyabaganza	MUGIRANEZA Gilbert	* 0	* 0	3,200	3,340	4%	2	N/A	35	1;5	5	No	Yes
60		Rujambara	, ,	BICAMUMPAKA Claude*	* 0	* 0	4,100	4,549	10%	N/A	N/A	38	1	5	No	Yes
61		Rujambara		MUKANDOLI Jeanette	* 0	* 0	16,000	16.094	1%	2	N/A	28		5	No	Yes
62		Rujambara	Akarambaraye	NTEZIYAREMYE Valens	* 0	* 0	2,860	2,944		2.	2.	26	,	5	No	Yes
63		Rujambara		HABINEZA Evariste	* 0	* 0	9,000	9,468	5%	2.	N/A	35	5	1;5	No	Yes
64		Rujambara	-	MUKAGATARE Clementine	* 0	* 0	1,800	2,615	31%	2	N/A	29		5	No	Yes
65		Rujambara	Nyabaganza	IRAFASHA Valens	* 0	* 0	13,300	13,580	2%	2	N/A	26	,	5	No	Yes
66		Muhurire	Gitobe	BUTATI Jean de Dieu	* 0	* 0	5,100	5,600	9%	2	N/A	43	1;5	5	Yes	Yes
67		Rujambara		MUKARUZIGA Angelique	* 0	* 0	4,450	5,365	17%		IV/A	44	4	4	No	Yes
68		Rujambara		MUKANKUSI Juliette*	* 0	* 0	10,000	10,420	4%	2	2	54		5	No	Yes
69		Rujambara	, ,	BARIGIRA Emmanuel	* 0	* 0	10,000	10,420	1%	2	N/A	30	,	5	Yes	Yes
70		Rujambara	Nyabaganza	NSANZINEZA Joseph	* 0	* 0	1,650	1,690	2%	2	N/A	35		5	No	Yes
71		Rujambara	, ,	MPAGAZEHE Gerrard	* 0	* 0	3,800	5,722		2	1N/A	34	,	2;5	No	Yes
72		Rujambara	Nyabaganza	NIKOYAGENYE Constatin	* 0	* 0	2,800	3,304		2	2	21	,	5	No	Yes
73		3	, ,	MURWANASHYAKA J.D.	* 0	* 0	2,800	2,260	15%	2	2	20		1;4	No No	Yes
13	Rurenge	Rujambara	nyabaganza	MUKWANASHTAKA J.D.	. 0	0	2,180	2,260	4%		2	20	I	1;4	NO	res

No.	Sector	Cell	Village	Name of householder	Q12. Size of plot D outside of marshland	Q12. Size of plot E outside of marshland	Total plot size outside of marshland	Total farmland	marshland	Q13. Times to cultivate outside of marshland	Q14. Times to cultivate outside of marshland (within 60m from the marshland)		Q16. Kind of domestic water, rainy season	Q17. Kind of domestic water, dry season	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area
74		Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	* 0		-,	6,608		2	2	28		4	Yes	Yes
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	* 0	* 0	5,270	5,936	11%	2	3	54		5	No	Yes
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*	* 0	* 0	0,700	7,563		2	2	57	,	4	Yes	Yes
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	* 0	* 0	2,000	2,564	22%	2	N/A	31	,-	5	Yes	Yes
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	* 0	* 0	1,375	1,520	10%	2	N/A	31	1;5	5	Yes	Yes
79	Rurenge	Muhurire	Gitobe	BARAME Silas	* 0	* 0	5,600	5,642	1%	2	2	50	1;4	4	Yes	Yes
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*	* 0	* 0	5,000	7,500	33%	2	2	18	1;5	1;5	No	Yes
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	* 0	* 0	1,050	6,450	84%	2	2	36	1;4	4	Yes	Yes
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	* 0	* 0	1,800	2,280	21%	2	2	47	1;4	4	Yes	Yes
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	* 0	* 0	8,200	8,640	5%	2	N/A	38	1;5	5	Yes	Yes
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	* 0	* 0	1,690	3,760	55%	2	2	33	1;7	7	No	Yes
85	Rurenge	Muhurire	Gitobe	NABAHIRE	* 0	* 0	10,800	15,960	32%	2	2	56	1;4	4	Yes	Yes
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	* 0	* 0	8,800	9,127	4%	N/A	N/A	50	1;5	5	No	Yes
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	* 0	* 0	810	860	6%	2	2	25	1	5	Yes	Yes
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	* 0	* 0	2,300	2,321	1%	2	2	25	1	4	Yes	Yes
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	* 0	* 0	1,688	1,808	7%	2	2	35	1;4	4	Yes	Yes
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	15 * 40 600	20 * 50 1,000	5,900	6,098	3%	2	N/A	34	1;4	4	Yes	Yes
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	12 * 20 240	31 * 18 558	8,988	13,066	31%	2	2	29	1;4	4	Yes	Yes
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent	* 0	* 0	10,000	10,150	1%	2	2	59	1	7	No	Yes
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	* 0	* 0	4,300	4,980	14%	2	N/A	77	1;4	4	Yes	Yes
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	* 0	* 0	600	800	25%	2	N/A	31	1;4;5	4;5	No	
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	* 0	* 0	2,192	3,812	42%	2	2	29	1;5	5	Yes	Yes
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	* 0	* 0	3,200	3,470	8%	2	2	59	1;4;5	4;5	Yes	Yes
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	* 0	* 0	1,216	1,536	21%	2	2	38	1;4	4	Yes	Yes
98	Rurenge	Muhurire	Gitobe	MUHASHYI	* 0	* 0	5,600	6,025	7%	2	N/A	59	1;4	5	Yes	Yes
99	Rurenge	Muhurire	Gitobe	KAWERA	* 0	* 0	1,100	1,160	5%	2	N/A	23	1;4	4	Yes	Yes
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	* 0	* 0	1,440	1,697	15%	2	N/A	25	1;4	4;5	Yes	Yes
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	40 * 70 2,800	30 * 20 600	5,230	5,570	6%	2	2	41	1;4	4	Yes	Yes
102	Rurenge	Muhurire	Gitobe	RWAGATERA	* 0	* 0	1,500	1,605	7%	2	N/A	20	1;4	4;5	No	Yes
103	Rurenge	Muhurire	Gitobe	BAZIRA	* 0	* 0	7,000	7,750	10%	2	N/A	38	1;4	4	Yes	Yes
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	* 0	* 0	7,100	7,180	1%	2	2	85	1	4	Yes	Yes
105	Ū	Muhurire	Gitobe	BAMAZIKI Fabien	* 0	* C	10,000	10,060	1%	2	N/A	51	1;4	4	Yes	Yes
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	50 * 60 3,000	30 * 40 1,200	7,400	8,678	15%	2	2	48	1;4;5	4;5	Yes	Yes
107		Rujambara	Nyabaganza	RUSAGARA Isdor*	* 0	* C	18,000	19,875	9%	2	2	46	1;5	5	No	No
108		Muhurire	Nyamata	NSABIMANA Innocent	20 * 30 600	* 0	2,400	2,904	17%	2	N/A	29	1;4	4;5	Yes	Yes
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	10 * 15 150	20 * 30 600	3,950	4,110	4%	2	N/A	43	1;4;5	4;5	Yes	Yes
110		Muhurire	Gitobe	MUNYEMANA Faustin	* 0	* 0		3,830	14%	2	2	37	1	4	Yes	Yes
111	U			MUTONI Angelique	* 0	* 0		6,776		N/A	2	30		5	No	Yes

No.	Sector	Cell	Village	Name of householder	Q12 outsic		of plo marsh		c	Size of plot utside of narshland	E Total p size outside marshla	of f	Total armland	Percentag e rate of plot in marshland	Q13. Times to cultivate outside of marshland	Q14. Times to cultivate outside of marshland (within 60m from the marshland)	Q15. Years to stay in the area	Q16. Kind of domestic water, rainy season	of domestic water,	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	20	*	60	1,200	50	* 35 1,7	50 9,9	00	10,530	6%	2	N/A	35	1;2	2	No	Yes
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*		*		0		*	0 (	00	1,900	68%	2	2	20	1;5;7	5;7	No	Yes
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*		*		0		*	0 6,0	00	6,700	10%	2	N/A	34	1;5	5	No	Yes
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde	20	*	15	300		*	0 4,8	31	5,138	6%	2	N/A	34	1;2	2	No	Yes
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse		*		0		*	0 3,	68	3,291	4%	2	2	21	1	4	Yes	Yes
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA		*		0		*	0 3,7	00	4,100	10%	2	N/A	45	1;4;5	4;5	Yes	Yes
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	50	*	30	1,500	20	* 117 2,3	10 7,5	40	7,844	4%	2	N/A	34	1;4	4;5	Yes	Yes
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste		*		0		*	0 1,4	00	1,550	10%	2	N/A	31	1;5	5	No	Yes
120	Rurenge	Muhurire	Gitobe	NIBATETE		*		0		*	0 3,2	50	3,602	10%	2	2	35	1;4	4	Yes	Yes
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	100	*	100 1	0,000		*	0 17,8	00	17,856	0.3%	2	N/A	58	1;4	4	Yes	Yes
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	60	*	100	6,000		*	0 12,5	00	12,725	2%	2	2	64	1;4	4	Yes	Yes
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique		*		0		*	0 3,9	00	4,100	5%	2	N/A	4	1;4	4;5	No	Yes
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul		*		0		*	0 5,5	00	6,000	8%	2	N/A	32	1;4;5	4;5	Yes	Yes
125	Rurenge	Muhurire	Gitobe	BITWAYIKI		*		0		*	0 5,2	00	6,400	19%	2	N/A	43	1;4;5	4;5	No	Yes
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre		*		0		*	0 3	75	525	29%	2	N/A	40	1;4	4;5	No	Yes
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred		*		0		*	0 4,0	00	4,455	10%	2	N/A	50	1;5	5	No	Yes
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	20	*	30	600		*	0 12,8	40	13,280	3%	2	N/A	42	1;5	5	No	Yes
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata		*		0		*	0 1,0	00	2,052	22%	2	N/A	20	1;4	4	No	Yes
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien		*		0		*	0 10,4	00	10,735	3%	2	2	49	1;5	5	No	Yes
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	20	*	12	240		*	0 6,0	40	6,520	7%	N/A	0	46	1;4	4	Yes	Yes
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène		*		0		*	0 5	00	650	23%	2	2	33	1	5	Yes	Yes
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien		*		0		*	0 2,2	50	2,325	3%	2	2	30	4;1	5	No	Yes
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	30	*	50	1,500		*	0 3,5	50	4,285	17%	2	N/A	63	1;5	5	No	Yes
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*		*		0		*	0 2,3	00	2,340	2%	2	1	26	1;5	5	No	Yes
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph		*		0		*	0 1,8	00	2,208	18%	2	N/A	54	1;4	4	Yes	Yes
137	Rurenge	Muhurire	Nyamata	NGENDAHAYO		*		0		*	0 20,0	00	20,111	1%	2	N/A	37	1;4;5	4;5	No	Yes
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele		*		0		*	0 1,4	00	1,432	2%	2	N/A	31	1;5	5	No	Yes
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*		*		0		*	0 11,8	00	12,072	2%	2	2	55	1;5	5	No	Yes
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel		*		0		*	0 3,	20	3,472	10%	2	N/A	34	1;5	5	No	Yes
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse		*		0		*	0 2,4		2,600	8%	2	2	29	1;4;5	4;5	Yes	Yes
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi		*		0		*	0 5,0	25	5,825	3%	2	N/A	58	1;5	5	No	Yes
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric		*		0		*	0 3,0	00	7,900	54%	2	N/A	25	5;7	5	No	Yes
144	Rurenge	Rujambara	Mashyoza	GISAGARA		*		0		*	0 4,4	40	5,240	15%	2	2		1;5	5	No	Yes

<sup>\*</sup> The persons have hillside farmlands to be submered.

Q16 & Q17\*: 1. Rain water 2. Canal water 3. River water 4. Piped water (public water) 5. Tubewell (deep), public 6. Tubewell (deep), private 7. Shallow well

JC41 C	,.o (1) C.	/ //M=		₱)(Rurenge)														
No.	Sector	Cell	Village	Name of householder	Q20.Official Land ownership certificate in the affected area in the marshland	Q21. Official land tile of your private land near marshland			t size n shland	ear		Plot size		Q21. Plot size marshland (		Q21. Plot size marshland		Q22. Want to continue farming after the project (Yes or No)
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*	No	Yes	270	*	75	20,250		*	0	*	0	*	0	Yes
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille	No	No		*		0		*	0	*	0	*	0	Yes
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph	No	No		*		0		*	0	*	0	*	0	Yes
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	No	No		*		0		*	0	*	0	*	0	Yes
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	No	No		*		0		*	0	*	0	*	0	Yes
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette	No	No		*		0		*	0	*	0	*	0	Yes
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	No	Yes	25	*	80	2,000		*	0	*	0	*	0	Yes
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	No	No	100	*	50	5,000		*	0	*	0	*	0	Yes
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	No	No		*		0		*	0	*	0	*	0	Yes
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	No	No	164	*	20	3,280		*	0	*	0	*	0	Yes
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	No	No		*		0		*	0	*	0	*	0	Yes
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	No	No		*		0		*	0	*	0	*	0	Yes
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	No	No		*		0		*	0	*	0	*	0	Yes
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	No	No		*		0		*	0	*	0	*	0	Yes
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	No	No		*		0		*	0	*	0	*	0	Yes
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	No	Yes	60	*	40	2,400		*	0	*	0	*	0	Yes
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	No	No		*		0		*	0	*	0	*	0	Yes
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	No	No		*		0		*	0	*	0	*	0	Yes
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	No	No		*		0		*	0	*	0	*	0	Yes
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	No	No		*		0		*	0	*	0	*	0	Yes
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	No	Yes	75	*	50	3,750	80	* 50	4,000	*	0	*	0	Yes
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	No	No		*		0		*	0	*	0	*	0	Yes
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	No	No		*		0		*	0	*	0	*	0	Yes
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	No	No		*		0		*	0	*	0	*	0	Yes
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	No	Yes	40	*	60	2,400		*	0	*	0	*	0	Yes
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	Yes	Yes	30	*	75	2,250		*	0	*	0	*	0	Yes
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	No	Yes	50	*	50	2,500	40	* 60	2,400	*	0	*	0	Yes
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	No	No		*		0		*	0	*	0	*	0	Yes
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene	No	No		*		0		*	0	*	0	*	0	Yes
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	No	No		*		0		*	0	*	0	*	0	Yes
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie	No	No		*		0		*	0	*	0	*	0	No
32		Muhurire	Gitobe	RUKERATABARO Stanislas	No	Yes	100	*	100	10,000	100	* 100	10,000	20 * 30	600 1	00 * 100	10,000	Yes
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	No	No		*		0		*	0	*	0	*	0	Yes
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Francoise	No	No		*		0		*	0	*	0	*	0	Yes
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse	No	No		*		0		*	0	aje	0	*	0	Yes

<b>9</b> 410	.5 (1) = .	/ / / M =	.相不(2225)	+ ) (Rulelige)	1													
No.	Sector	Cell	Village	Name of householder	Q20.Official Land ownership certificate in the affected area in the marshland	Q21. Official land tile of your private land near marshland			t size n shland	near	Q21. Pl marsł	ot size nland (ı			lot size hland (r		Q21. Plot size near marshland (m2)	Q22. Want to continue farming after the project (Yes or No)
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	No	Yes	100	*	60	6,000	*		0	1	k	0	* 0	Yes
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	No	Yes	50	*	30	1,500	*		0	1	k	0	* 0	Yes
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	No	No	30	*	45	1,350	*		0	1	k	0	* 0	Yes
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	No	No		*		0	*		0	1	k	0	* 0	Yes
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	No	Yes	15	*	40	600	*		0	*	k	0	* 0	Yes
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	No	No		*		0	*		0	*	k	0	* 0	Yes
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	No	Yes	100	*	150	15,000	*		0	1	ķ	0	* 0	Yes
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	No	No		*		0	*		0	1	ķ	0	* 0	Yes
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	No	No		*		0	*		0	1	ķ	0	* 0	Yes
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	No	No		*		0	*		0	*	k	0	* 0	Yes
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	No	Yes	80	*	120	9,600	30 *	70	2,100	50 *	* 200 10	0,000	* 0	Yes
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	No	Yes	80	*	1,000	80,000	*		0	1	k	0	* 0	Yes
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	No	No		*		0	*		0	þ	ķ	0	* 0	Yes
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	No	No		*		0	*		0	1	k	0	* 0	Yes
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	No	No		*		0	*		0	þ	ķ	0	* 0	Yes
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	No	Yes	100	*	50	5,000	*		0	)	ķ	0	* 0	Yes
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	No	No		*		0	*		0	1	k	0	* 0	Yes
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel	No	No		*		0	*		0	1	k	0	* 0	Yes
54		Rujambara	Nyabaganza	UWERA Xaverina	No	No		*		0	*		0	>	k	0	* 0	
55		Rujambara	, ,	NAHIMANA Theogene	No	Yes	5	*	20	100	50 *	80	4,000	>	k	0	* 0	
56		Rujambara	Nyabaganza	UMUHIRE Theodette	No	No		*		0	*		0	3	k	0	* 0	
57	U	Rujambara	Akarambaraye		No	Yes	50	*	100	5,000	*		0	1	k	0	* 0	
58	U	Rujambara	Nyabaganza	MUKANYUZAHAYO	No	No		*		0	*		0	1	k	0	* 0	
59	_	Rujambara	Nyabaganza	MUGIRANEZA Gilbert	No	No		*		0	*		0	1	k	0	* 0	
60		Rujambara		BICAMUMPAKA Claude*	No	Yes	30	*	40	1,200	30 *	50	1,500	20 *	* 70	1 400	* 0	100
61		Rujambara		MUKANDOLI Jeanette	No	No	50	*		0	*		0	20		0	* 0	Yes
62		Rujambara		NTEZIYAREMYE Valens	No	Yes	80	*	20	1,600	60 *	15	900	3	k	0	* 0	
63		Rujambara	,	HABINEZA Evariste	No	No				1,000	00		,,,,	1	k	0	* 0	
64	Ü	Rujambara	Nyabaganza	MUKAGATARE Clementine	No	Yes	30	*	60	1,800	*		0	3	k	0	* 0	Yes
65	,	Rujambara	Nyabaganza	IRAFASHA Valens	No	No	50	*		10,000	50 *	50	2,500	25 3	* 35	875	* 0	
66		Muhurire	Gitobe	BUTATI Jean de Dieu	No	No	100	*	100	0	*		0		k	0.0	* 0	100
67		Rujambara	Nyabaganza	MUKARUZIGA Angelique	No	No		*		0	*		0	1		0	* 0	
68		Rujambara	Nyabaganza	MUKANKUSI Juliette*	No	Yes	100	*	100	10,000	*		0	1		0	* 0	1 1 1
69		Rujambara	Nyabaganza	BARIGIRA Emmanuel	No	No	100	*	100	10,000	*		0	1		0	* 0	
70		Rujambara	Nyabaganza	NSANZINEZA Joseph	No	No		*		0	*		0	*		0	* 0	
70		Rujambara	Nyabaganza	MPAGAZEHE Gerrard	No No	Yes	50	*	70	3,500	*		0	3		0	* 0	Yes
72					No No	Yes		*	32	1,920	40 *	25	1.000	1		0	* 0	1
		Rujambara	Nyabaganza	NIKOYAGENYE Constatin			60	*	32	1,920	40 *	23	,	1		0	* 0	
73	Kurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.	No	No		-1-		0	•		0	,		0	· 0	res

No.	Sector	Cell	Village	Name of householder	Q20.Official Land ownership certificate in the affected area in the marshland	Q21. Official land tile of your private land near marshland	Q21. Pl ma	ot size r rshland	near		ot size near land (m2)	Q21. Plot marshla		Q21. Plot size marshland (	(m2)	Q22. Want to continue farming after the project (Yes or No)
74		Rujambara		MUNYEHIRWE J. de Dieu	No	No		400	Ü	*	0	*	0	*	0	105
75		Rujambara	, ,	ZIMURINDA	No	Yes	50 *	100	5,000	*	0	*	0	*	0	100
76	Ü	Muhurire	Gitobe	MUKAGATERA Alphonsine*	No	Yes	124 *	32	3,968	*	0	*	0	*	0	
77		Rujambara	Nyabaganza	NTIRUSHWAMABOKO	No	No	*		0	*	0		0		0	
78		Rujambara		MURWANASHYAKA Etienne	No	No		100	5 000	*	0	*	0	*	0	100
79	Rurenge	Muhurire	Gitobe	BARAME Silas	No	Yes	50 *	100	5,000				0	*	0	
80		Rujambara	Kabeza	MUKANKUSI Esperance*	No	Yes	50 *	50	2,500	50 *	50 2,500	*	0	*	0	100
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	No	Yes	25 *	30	750	15 *	20 300		0		0	103
82		Muhurire	Gitobe	NDAGIJIMANA Wellars	No	Yes	30 *	40	1,200	10 *	30 300		15 300	*	0	
83		Rujambara	Nyabaganza	MUKANDENZI Emerita	No	No	*		0	*	0		0	*	0	100
84		Rujambara	Nyabaganza	NDENGEREHE Philbert	No	Yes	40 *	30	1,200	20 *	17 340		30 150	*	0	
85		Muhurire	Gitobe	NABAHIRE	No	Yes	60 *	100	6,000	80 *	60 4,800	*	0	*	0	103
86		Rujambara	Nyabaganza	MUKANDANGA Evanis	No	Yes	110 *	80	8,800	*	0		0	*	0	
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	No	No	*		0	*	0	*	0	*	0	100
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	No	No	*		0	*	0	*	0	*	0	Yes
89		Muhurire	Gitobe	NIYONZIZA Didas	No	No	*		0	*	0	*	0	*	0	103
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	No	No	*		0	*	0		0	*	0	
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	No	Yes	80 *	100	8,000	15 *	10 150		0	*	0	105
92		Rujambara	Nyabaganza	KAMASORO Vincent	No	No	*		0	*	0		0	*	0	100
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	No	Yes	25 *	60	1,500	*	0		0	*	0	
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	No	No	*		0	*	0	*	0	*	0	
95		Rujambara	Akarambaraye		No	Yes	20 *	17	340	*	0	*	0	妆	0	105
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	No	Yes	20 *	30	600	*	0	*	0	*	0	100
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	No	Yes	32 *	13	416	20 *	40 800	*	0	*	0	Yes
98	Rurenge	Muhurire	Gitobe	MUHASHYI	No	No	*		0	*	0	*	0	*	0	
99	Rurenge	Muhurire	Gitobe	KAWERA	No	No	*		0	*	0	*	0	*	0	Yes
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	No	No	*		0	*	0	*	0	*	0	103
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	No	Yes	20 *	30	600	20 *	30 600	21 *	30 630	40 * 70	2,800	Yes
102	Rurenge	Muhurire	Gitobe	RWAGATERA	No	No	*		0	*	0	*	0	*	0	Yes
103	Rurenge	Muhurire	Gitobe	BAZIRA	No	Yes	50 *	70	3,500	*	0	*	0	*	0	Yes
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	No	No	*		0	*	0	*	0	*	0	Yes
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien	No	No	*		0	*	0	*	0	*	0	Yes
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	No	Yes	70 *	20	1,400	*	0	*	0	*	0	Yes
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	No	Yes	75 *	250	18,750	*	0	*	0	*	0	Yes
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent	No	No	*		0	*	0	*	0	*	0	Yes
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	No	No	*		0	*	0	*	0	*	0	Yes
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	No	No	*		0	*	0	*	0	*	0	Yes
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angelique	No	Yes	6 *	98	588	*	0	*	0	*	0	No

資料 6.5 (1) センサス調査結果(湿地帯) (Rurenge)

2410	).o (.,	· ///	MH 2/ ( /AL-72)	# ) (Kurenge)												
No.	Sector	Cell	Village	Name of householder	Q20.Official Land ownership certificate in the affected area in the marshland	Q21. Official land tile of your private land near marshland		. Plot s marshl		ar	Q21. Plot siz marshland		Q21. Plot siz marshland		Q21. Plot size near marshland (m2)	Q22. Want to continue farming after the project (Yes or No)
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	No	No		*		0	*	0	*	0		) Yes
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*	No	Yes	20	*	30	600	*	0	*	0		0 Yes
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*	No	No		*		0	*	0	*	0		) Yes
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde	No	No		*		0	*	0	*	0	*	) Yes
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	No	No		*		0	*	0	*	0	*	O Yes
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	No	No		*		0	*	0	*	0	*	O Yes
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	No	No		*		0	*	0	*	0	*	) Yes
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste	No	No		*		0	*	0	*	0	*	0 Yes
120	Rurenge	Muhurire	Gitobe	NIBATETE	No	Yes	40	*	80	3,200	5 * 10	50	*	0	*	0 Yes
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	No	No		*		0	*	0	*	0	*	0 Yes
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	No	Yes	25	*	40	1,000	50 * 100	5,000	10 * 50	500	*	) Yes
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique	No	Yes	30	*	40	1,200	*	0	*	0	*	O Yes
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	No	No		*		0	*	0	*	0	*	) Yes
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	No	No		*		0	*	0	*	0	*	O Yes
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	No	Yes	15	*	25	375	*	0	*	0	*	O Yes
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	No	No		*		0	*	0	*	0	*	O Yes
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	No	No		*		0	*	0	*	0	*	O Yes
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata	No	Yes	50	*	20	1,000	30 * 20	600	*	0	*	O Yes
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	No	No		*		0	*	0	*	0	*	0 Yes
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	No	No		*		0	*	0	*	0	*	0 Yes
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	No	No		*		0	*	0	*	0	*	0 Yes
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien	No	Yes	15	*	30	450	*	0	*	0	*	0 Yes
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	No	No		*		0	*	0	*	0	*	0 Yes
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*	No	Yes	40	*	20	800	50 * 20	1,000	*	0	*	0 Yes
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	No	Yes	20	*	40	800	20 * 50	1,000	*	0	*	0 Yes
137	Rurenge	Muhurire	Nyamata	NGENDAHAYO	No	No		*		0	*	0	*	0	*	0 Yes
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele	No	Yes	10	*	40	400	20 * 50	1,000	*	0	*	0 Yes
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*	No	Yes	50	* ]	100	5,000	*	0	*	0	*	0 Yes
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	No	No		*		0	*	0	*	0	*	0 Yes
141	U	Muhurire	Gitobe	UWIZEYIMANA Alphonse	No	Yes	20	*	70	1,400	*	0	*	0	*	0 Yes
142				MUKABATABAZI Evanisi	No	No		*		0	*	0	*	0	*	0 Yes
143				IYAKAREMYE Eric	No	No		*		0	*	0	*	0		0 Yes
144		Rujambara	Mashyoza	GISAGARA	No	Yes	40	*	80	3,200	*	0	*	0	*	0 Yes
<u> </u>		juu		1	- 10	- 00				-,200			l	J	l	

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicapped person	Q5. Main income source	Q6. 1st crop name	Q6.1 st crop bags for sale	Q6.1 st crop price/bag (Rwf)	income from 1st crop	Q6. 2nd crop name
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	36	0783731511	3	3	0	Male	None	0	Labor	Sorghum	3	20,000	60,000	Sweet Potatoes
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas	31	0787197459	3	2	0	Male	Primary	0	Agriculture	Maize	1	30,000	30,000	Beans
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien	52	N/A	2	2	0	Male	None	0	Agriculture	Sorghum	2	30,000	60,000	Maize
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant	44	0783812682	2	2	0	Male	None	0	Agriculture	Sorghum	4	20,000	80,000	Beans
5	Remera	Ndekwe	Gikomero	MUJYAMBERE	54	0788987158	3	2	0	Male	Primary	0	Agriculture	Sorghum	15	20,000	300,000	Maize
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	37	0783496107	4	3	0	Male	Primary	0	Agriculture	Beans	1	30,000	30,000	Sorghum
7	Remera	Bugera	Nkenke	MUREKATETE Felicita	54	0782927525	4	2	0	Female	Primary	0	Agriculture	Sugarcane	3	50,000	150,000	Sweet Potatoes
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin	20	0787824751	1	0	0	Male	Primary	0	Agriculture	Sorghum	1	25,000	25,000	Beans
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison	36	N/A	3	3	0	Male	Primary	0	Agriculture	Sorghum	5	30,000	150,000	Maize
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene	31	0785127477	3	3	0	Male	Primary	0	Agriculture	Sorghum	20	20,000	400,000	Beans
11	Remera	Bugera	Gasebeya	HABINEZA Samuel	65	0783231511	3	5	0	Male	Primary	0	Agriculture	Sorghum	8	20,000	160,000	Beans
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*	37	0788657252	5	2	0	Male	Primary	0	Agriculture	Sorghum	12	30,000	360,000	Beans
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*	45	0788987158	1	2	0	Female	Primary	0	Agriculture	Tomato	15	10,000	150,000	Sorghum
14	Remera	Ndekwe	Gikomero	ZIMURINDA	74	0786973171	3	2	1	Male	None	1	Agriculture	Cabbage	15	5,000	75,000	Sweet Potatoes
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu	30	0784065070	1	3	0	Male	Primary	0	Agriculture	Sorghum	14	20,000	280,000	Beans
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE	22	N/A	2	1	1	Female	Primary	0	Agriculture	Sorghum	6	25,000	150,000	Beans

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	Q6.2nd crop bags for sale	Q6. 2nd crop price/bag (Rwf)	income from 2nd crop	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	income from 3rd crop	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	income from 4th crop	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	income from 5th crop
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	2	5,000	10,000	Beans	2	30,000	60,000	Cassava	2	25,000	50,000				-
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas	1	30,000	30,000	Cassava	2	10,000	20,000	Sorghum	3	20,000	60,000				-
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien	1	30,000	30,000	Sweet potatoes	4	20,000	80,000	Coffee	1	30,000	30,000	Beans	0.8	35,000	28,000
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant	1	30,000	30,000	Maize	0.5	15,000	7,500	Coffee	6	15,600	93,600	Cassava	3	20,000	60,000
5	Remera	Ndekwe	Gikomero	MUJYAMBERE	9	15,000	135,000	Beans	10	30,000	300,000	Cabbage	40	7,500	300,000				-
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	3	20,000	60,000	Maize	2	30,000	60,000	Cassava	1	10,000	10,000	Sweet potatoes	15	10,000	150,000
7	Remera	Bugera	Nkenke	MUREKATETE Felicita	11	12,000	132,000	Cabbage	80	5,000	400,000	Banana	10	5,000	50,000				-
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin	1	20,000	20,000	Maize	1	15,000	15,000	Coffee	1	12,600	12,600				-
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison	2	30,000	60,000	Beans	1	30,000	30,000	Sweet potatoes	3	10,000	30,000				-
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene	5	30,000	150,000	Maize	3	30,000	90,000	Coffee	4	15,600	62,400	Sweet potatoes	4	10,000	40,000
11	Remera	Bugera	Gasebeya	HABINEZA Samuel	1	30,000	30,000	Coffee	4	12,600	50,400	Banana	10	8,000	80,000	Cabbage	30	3,000	90,000
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*	6	35,000	210,000	Cassava	3	15,000	45,000	Maize	4	30,000	120,000	Sweet potatoes	11	10,000	110,000
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*	20	20,000	400,000	Beans	5	30,000	150,000	Maize	2	30,000	60,000	Cassava	5	15,000	75,000
14	Remera	Ndekwe	Gikomero	ZIMURINDA	8	6,000	48,000	Maize	1	30,000	30,000	Beans	3	30,000	90,000				-
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu	3	30,000	90,000	Cassava	5	20,000	100,000	Coffee	2	12,600	25,200	Sweet potatoes	4	10,000	40,000
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE	2	40,000	80,000	Cassava	2	30,000	60,000	Sweet potatoes	1	10,000	10,000				-

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	income from 6th crop	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)	income from 7th crop	Total GROSS farm income	Q7. Farm input :seed (Rwf)	Q7. Farm input: fertilizer (Rwf)	Q7 Farm input: pesticide (Rwf)	Net farm income	Q8 Other income source	Q9 Other income (Rwf)
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste				-				ı	180,000	60,000	30,000	0	90,000	Labor	100,000
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas				-				-	140,000	10,000	21,000	30,000	79,000	Livestock	30,000
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien	Banana	10	8,000	80,000				-	308,000	10	0	0	307,990	Livestock	30,000
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant	Potatoes	1	12,500	12,500	Banana	12	8,000	96,000	379,600	7,500	30,000	2,000	340,100	Livestock	70,000
5	Remera	Ndekwe	Gikomero	MUJYAMBERE				-				-	1,035,000	25,000	60,000	15,000	935,000	N/A	0
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	Cabbage	40	3,000	120,000	Eggplant	70	6,000	420,000	850,000	4,000	10,000	3,000	833,000	Livestock	50,000
7	Remera	Bugera	Nkenke	MUREKATETE Felicita				-				-	732,000	30,000	150,000	12,000	540,000	N/A	0
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin				-				-	72,600	30,000	10,000	8,000	24,600	Livestock	45,000
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison				-				-	270,000	34,000	42,000	30,000	164,000	N/A	0
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene				-				-	742,400	50,000	40,000	15,000	637,400	Livestock	60,000
11	Remera	Bugera	Gasebeya	HABINEZA Samuel	Sweet potatoes	3	10,000	30,000	Cassava	4	20,000	80,000	520,400	7,000	30,000	6,000	477,400	Livestock	100,000
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*				-				-	845,000	21,000	51,000	0	773,000	N/A	0
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*	Sweet potatoes	6	10,000	60,000				-	895,000	20,000	20,000	10,000	845,000	Livestock	40,000
14	Remera	Ndekwe	Gikomero	ZIMURINDA				-				-	243,000	10,000	25,000	3,000	205,000	Livestock	100,000
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu	Banana	7.5	8,000	60,000	Maize	2	30,000	60,000	655,200	31,000	51,000	6,000	567,200	Livestock	200,000
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE				-				-	300,000	30,000	0	0	270,000	Livestock	160,000

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	Total household net income	Q10. Times of cultivation in the marshland to be submerged	Q11. Crop (1) cultivated in the marshland		Q11. Nos of plot for Crop (1) cultivated in the marshland		income crop (1	cultivated in	of bags	Q11. Nos of plot for Crop (2) cultivated in the marshland	Size (	of plo	11. t of cro n2)	pp (2)
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	190,000	2	Sweet potatoes	20	3	4 * 30	20 100,0	00			4	*	30	120
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas	109,000	2	Sweet potatoes	2	1	24 * 4	96 20,0	0 Eggplant	2	1.0	25	*	4	100
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien	337,990	2	Sweet potatoes	3	3	10 * 5	50 60,0	00			10	*	5	50
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant	410,100	2	Sweet potatoes	12	3	4 * 15	60 120,0	00			4	*	15	60
5	Remera	Ndekwe	Gikomero	MUJYAMBERE	935,000	2	Cabbage	48	6	7 * 34	360,0	Sweet potatoes	13	Rotation	5	*	25	125
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	883,000	2	Sweet potatoes	15	3	30 * 3	90 150,0	00			70	*	4	280
7	Remera	Bugera	Nkenke	MUREKATETE Felicita	540,000	2	Sweet potatoes	11	4	14 * 45	132,0	00			5	*	39	195
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin	69,600	2	Sweet potatoes	7	1	5 * 30	50 70,0	00				*		0
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison	164,000	2	Sweet potatoes	5	1	6 * 20	20 50,0	Sunflower	1	1.0	65	*	85	5,525
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene	697,400	2	Sweet potatoes	6	3	3 * 12	36 60,0	00			4	*	28	112
11	Remera	Bugera	Gasebeya	HABINEZA Samuel	577,400	2	Sweet potatoes	10	5	5 * 15	75 100,0	00			5	*	15	75
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*	773,000		Sweet potatoes	11		*	0 110,0	00 Sorghum	5	1.0	180	*	20	3,600
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*	885,000	2	Sweet potatoes	10	3	10 * 45	50 100,0	00			10	*	30	300
14	Remera	Ndekwe	Gikomero	ZIMURINDA	305,000	2	Sweet potatoes	8	3	6 * 35	10 48,0	00			4	*	40	160
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu	767,200	2	Sorghum	2	1	20 * 24	80 40,0	00				*		0
16	Remera		Gikomero	NIKOYAGENYE	430,000	2	Sweet potatoes	2	1	12 * 15	80 20,0	00				*		0

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	income of crop (2)	(3)	Q11. Crop (3) number of bags produced in the marshland	plot for Crop (3)		Q11. plot of c (m2)	crop (3)	income of crop (3)	Q11. Crop (4) cultivated in the marshland	number of	Q11. Nos of plot for Crop (4) cultivated in the marshland	Size of p	Q11. lot of cr (m2)	op (4)	income of crop (4)	Q11. Crop (5) cultivated in the marshland
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste					4	* 30	120		Cabbage	15.0	Rotation	*		0	150,000	Carrot
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas	12,000	Cabbage	3.0	1.0	25	* 4	100	15,000				*		0		
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien					10	* 2	20					*		0		
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant					4	* 15	60					*		0		
5	Remera	Ndekwe	Gikomero	MUJYAMBERE	130,000	Eggplant	15	Rotation		*	0	90,000	Tomato	45.5	Rotation	*		0	455,000	
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien					60	* 4	240		Cabbage	30.0	Rotation	*		0	90,000	Eggplant
7	Remera	Bugera	Nkenke	MUREKATETE Felicita					6	* 40	240		Sugarcane	3.0		5 *	45	225	150,000	
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin						*	0					*		0		
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison	8,000					*	0					*		0		
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene						*	0					*		0		
11	Remera	Bugera	Gasebeya	HABINEZA Samuel					5	* 15	75		Cabbage	10.0	Rotation	*		0	30,000	
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*	150,000	Beans	2.0	1.0	180	* 20	3,600	70,000				*		0		
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*					5	* 20	100		Tomato	5.0	2.0	5 *	18	90	50,000	
14	Remera	Ndekwe	Gikomero	ZIMURINDA					4	* 45	180		Beans	2.0	2.0	80 *	20	1,600	60,000	
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu						*	0					*		0		
16	Remera		Gikomero	NIKOYAGENYE						*	0					*		0		

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	Q11. Crop (5) number of bags produced in the marshland	Q11. Nos of plot for Crop (5) cultivated in the marshland	Size of plot of crop	income of crop (5)	Q11. Crop (6) cultivated in the marshland	Q11. Crop (6) number of bags produced in the marshland	Q11. Nos of plot for Crop (6) cultivated in the marshland	Q11. Size of plot of crop (6) (m2)	income of crop (6)	Total income of crop in Marshland	Total plot in Marshlan d	Q12. Size o outside of m (m2	narshland
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	15.0	Rotation	* 0	105,000				* 0		355,000	360	70 * 4	10 2,800
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas			* 0					* 0		47,000	296	80 * 4	40 3,200
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien			* 0					* 0		60,000	120	50 * 3	30 1,500
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant			* 0					* 0		120,000	180	60 * 8	30 4,800
5	Remera	Ndekwe	Gikomero	MUJYAMBERE			8 * 27 216					10 * 35 350		1,035,000	929	60 * 11	10 6,600
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	70.0	Rotation	* 0	420,000				* 0		660,000	610	50 * 4	10 2,000
7	Remera	Bugera	Nkenke	MUREKATETE Felicita			7 * 48 336					6 * 45 270		282,000	1,896	62 * 4	19 3,038
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin			* 0					* 0		70,000	150	10 * 3	300
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison			* 0					* 0		58,000	5,645	65 * 6	55 4,225
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene			* 0					* 0		60,000	148	80 * 10	00 8,000
11	Remera	Bugera	Gasebeya	HABINEZA Samuel			* 0					* 0		130,000	225	30 * 5	50 1,500
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*			* 0					* 0		330,000	7,200	70 * 18	30 12,600
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*			5 * 25 125					* 0		150,000	1,065	70 * 10	00 7,000
14	Remera	Ndekwe	Gikomero	ZIMURINDA			30 * 8 240		Eggplant	5	3.0	30 * 4 120	30,000	138,000	2,510	50 * 10	00 5,000
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu			* 0					* 0		40,000	480	35 * 10	02 3,570
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE			* 0					* 0		20,000	180	100 * 10	00 10,000

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	Q12. S outside		arshlaı				of plot marshla 2)		outside	iize of p of mar (m2)		outside o	ze of plot E of marshland m2)	size outside of	percentage rate of plot in marshland		Q14. Times to cultivate outside of marshland (within 50m from the marshland)	Q15. Years to stay in the area
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	40	*	50 2,	,000		*		0		*	0	×	٠ (	4,800	7%	2	N/A	36
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas	19	* ′	20	380		*		0		*	0	×	٠ (	3,580	8%	2	2	27
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien	20	*	50 1,	,000		*		0		*	0	*	•	2,500	5%	2	N/A	52
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant	50	* '	70 3,	,500	60	*	70 4	,200		*	0	*	:	12,500	1%	2	N/A	. 44
5	Remera	Ndekwe	Gikomero	MUJYAMBERE		*		0		*		0		*	0	ä	: (	6,600	12%	2	2	54
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	110	*	60 6,	,600		*		0		*	0	1	٠ (	8,600	7%	2	2	37
7	Remera	Bugera	Nkenke	MUREKATETE Felicita		*		0		*		0		*	0	3	٠ (	3,038	38%	2	N/A	53
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin		*		0		*		0		*	0	ä	: (	300	33%	2	N/A	20
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison		*		0		*		0		*	0	1	٠ (	4,225	57%	2	2	18
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene	50	*	80 4,	,000	70	*	100 7	,000	20	* 60	1,200	40 *	50 2,000	22,200	1%	2	N/A	31
11	Remera	Bugera	Gasebeya	HABINEZA Samuel	30	*	60 1,	,800	30	*	50 1	,500		*	0	3	٠ (	4,800	4%	2	N/A	65
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*		*		0		*		0		*	0	r)	: (	12,600	36%	2	2	. 7
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*	50	*	80 4,	,000	10	*	20	200		*	0	r)	•	11,200	9%	2	N/A	45
14	Remera	Ndekwe	Gikomero	ZIMURINDA		*		0		*		0		*	0	×	• (	5,000	33%	2	2	74
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu	35	* ,	44 1,	,540	150	*	50 7	,500		*	0	k	:	12,610	4%	2	2	30
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE	60	* /	40 2,	,400		*		0		*	0	×	:	12,400	1%	2	N/A	22

<sup>\*</sup> The persons have hillside farmlands to be submered.

No.	Sector	Cell	Village	Name of householder	Q16. Kind of domestic water, rainy season*	Q17. Kind of domestic water, dry season*	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area	Q20.Official Land ownership certificate in the affected area in the marshland	Q21. Official land tile of your private land in hillside	Q21. Plot size in with land title		Q22. Want to continue farming after the project (Yes or No)
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	1;5	5	No	Yes	No	No	*	0	Yes
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas	5	4	No	Yes	No	No	*	0	No
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien	1;2;7	7	No	Yes	No	No	*	0	Yes
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant	1;5	5	No	Yes	No	No	*	0	No
5	Remera	Ndekwe	Gikomero	MUJYAMBERE	1;5	5	No	Yes	No	Yes	60 * 110	6,600	No
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	5	5	No	Yes	No	No	*	0	No
7	Remera	Bugera	Nkenke	MUREKATETE Felicita	2	2	No	Yes	No	No	*	0	No
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin	1;7	7	No	Yes	No	No	*	0	Yes
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison	1;7	2	No	Yes	No	Yes	65 * 85	5,525	Yes
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene	1;2;4	4;7	No	Yes	No	No	*	0	Yes
11	Remera	Bugera	Gasebeya	HABINEZA Samuel	1;4;5	4;5	No	Yes	No	No	*	0	Yes
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*	1;7	7	No	Yes	No	Yes	180 * 70	12,600	Yes
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*	1;4	4	No	Yes	No	No	*	0	Yes
14	Remera	Ndekwe	Gikomero	ZIMURINDA	7	7	No	Yes	No	No	*	0	Yes
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu	1;5	5	No	Yes	No	Yes	24 * 80	1,920	Yes
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE	1;4	4	No	Yes	No	No	*	0	Yes

<sup>\*</sup> The persons have hillside farmlands to be submered.

Q16 & Q17: \*1. Rain water 2. Canal water 3. River water 4. Piped water (public water) 5. Tubewell (deep), public 6. Tubewell (deep), private 7. Shallow well

## 資料 6.5 (2) センサス調査結果(丘陵地)(Rurenge)

No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Total number of family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicap ped person	Q5. Main income source	Q6. 1st crop name	Q6.1 1st crop bags for sale	Q6. 1st crop price/bag (Rwf)
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)	62	N/A	2	1	3	0	F	None	0	Agriculture	Sorghum	1.5	30,000
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	22	0782453636	1	2	3	0	M	Primary	0	Agriculture	Sorghum	5	30,000
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	55	N/A	4	3	7	0	M	None	1	Agriculture	Sorghum	8	22,000
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	27	0788396861	2	2	4	0	M	Primary	1	Agriculture	Sorghum	6	30,000
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	21	N/A	1	2	3	0	M	Primary	0	Agriculture	Beans	2	35,000
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel	48	0783872296	6	2	8	0	M	None	0	Agriculture	Sorghum	6	20,000
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	43	0787516518	3	2	5	0	M	Primary	0	Agriculture	Cabbage	20	12,500
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	39	0784386454	3	3	6	0	M	Secondary Low level	0	Agriculture	Sorghum	15	22,000
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA	35	0785775258	3	2	5	0	M	Primary	0	Agriculture	Maize	12	36,000
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	83	N/A	3	6	9	1	F	None	0	Agriculture	Maize	1	20,000
11	RURENGE	MUHURIRE	GITOBE	MUKAMPIGA Beate	`63	N/A	2	1	3	0	F	None	0	Agriculture	Sorghum	2	30,000
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve	62	N/A	1	2	3	0	F	None	0	Agriculture	Sorghum	3	20,000
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu	32	0784065070	7	5	12	0	M	None	0	Agriculture	Beans	5	50,000
14	RURENGE	MUHURIRE	GITOBE	MUKAGATARE Selaphine	47	N/A	4	5	9	1	М	None	0	Agriculture	Sorghum	6	30,000
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	59	0783933767	1	2	3	0	F	Primary	0	Agriculture	Sorghum	4	20,000

No.	Sector	Cell	Village	Name of householder	Q6. Income of 1st crop (Rwf)	Q6. 2nd crop name	Q6. 2nd crop bags for sale	Q6. 2nd crop price/bag (Rwf)	Q6.1 Income of 2nd crop (Rwf)	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	Q6.1 Income of 3rd crop (Rwf)	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	Q6.1 Income of 4th crop (Rwf)
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)	45,000	Cassava	2	25,000	50,000	Maize	1	30,000	30,000	Beans	0.5	40,000	20,000
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	150,000	Beans	2	40,000	80,000	Tomato	8	12,000	96,000				-
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	176,000	Beans	2	40,000	80,000	Sweet Potatoes	4	7,000	28,000				-
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	180,000	Beans	4	50,000	200,000	Cassava	10	20,000	200,000	Maize	8	30,000	240,000
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	70,000	Sorghum	5	28,000	140,000	Cassava	6	30,000	180,000	Sweet Potatoes	20	10,000	200,000
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel	120,000	Cassava	5	8,000	40,000	Potatoes	3	7,000	21,000	Sweet Potatoes	5	6,000	30,000
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	250,000	Sorghum	8	30,000	240,000	Beans	2.5	50,000	125,000	Cassava	5	30,000	150,000
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	330,000	Maize	17	35,000	595,000	Beans	5	50,000	250,000				-
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA	432,000	Sorghum	11	21,000	231,000				-				-
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	20,000	Beans	1.5	30,000	45,000	Sweet Potatoes	3	10,000	30,000	Cassava	3	15,000	45,000
11	RURENGE	MUHURIRE	GITOBE	MUKAMPIGA Beate	60,000	Beans	1	25,000	25,000	Sweet Potatoes	3	6,000	18,000				-
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve	60,000	Cassava	4	20,000	80,000	Maize	1	30,000	30,000	Beans	1	30,000	30,000
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu	250,000	Sorghum	8	20,000	160,000	Maize	6	35,000	210,000				-
14	RURENGE	MUHURIRE	GITOBE	MUKAGATARE Selaphine	180,000	Beans	3	35,000	105,000	Maize	2	20,000	40,000				-
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	80,000	Beans	1	30,000	30,000	Maize	2	30,000	60,000	Cassava	15	25,000	375,000

No.	Sector	Cell	Village	Name of householder	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	Q6.1 Income of 5th crop (Rwf)	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	Q6.1 Income of 6th crop (Rwf)	Total GROSS farm income	Q7. Farminpu t :seed (Rwf)	Q7. Farm input: fertilizer (Rwf)	Q7 Farm input: pesticide (Rwf)	Q7 Farm input: labor (Rwf)	Total Net farm income
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)				-				0	145,000	10,000	0	0	0	135,000
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael				-				0	326,000	5,000	15,000	35,000	0	271,000
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel				-				0	284,000	20,000	0	0	10,000	254,000
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	Sweet potatoes	10	15,000	150,000	Potatoes	10	12,000	120,000	1,090,000	72,000	112,000	10,000	150,000	746,000
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	•			-				0	590,000	24,000	21,000	20,000	60,000	465,000
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel				-				0	211,000	4,500	21,000	0	60,000	125,500
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	Sweet	2	20,000	40,000	Tomato	30	7,000	210,000	1,015,000	5,000	19,500	30,000	26,000	934,500
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	,			-				0	1,175,000	25,200	238,000	27,000	80,000	804,800
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA				-				0	663,000	24,000	150,000	6,000	50,000	433,000
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta				-				0	140,000	0	0	0	0	140,000
11	RURENGE	MUHURIRE	GITOBE	MUKAMPIGA Beate				-				0	103,000	0	0	0	0	103,000
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve				-				0	200,000	12,000	0	0	0	188,000
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu				-				0	620,000	29,300	78,000	0	0	512,700
14	RURENGE	MUHURIRE	GITOBE	MUKAGATARE Selaphine				-				0	325,000	5,000	26,650	0	0	293,350
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese								0	545,000	20,000	26,000	0	30,000	469,000

No.	Sector	Cell	Village	Name of householder	Q8 Other income source	Q9 Other income (Rwf)	Q10. Times of cultivation in the hillside to be submerged	Total household net income	Q10. Times of cultivation in the hillside to be submerged	Q11. Crop (1) cultivated in the hillside to be affected	(1)	Q11. UPI Plot Number at hillside for crop 1			.1. of crop or sqm	o (1)	Q11. Crop (2) cultivated in the hillside to be affected	(2) number of bags
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)	N/A	0	2	135,000	2	Cassava	1	2,336	20	*	25	500		
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	N/A	0	2	271,000	2	Sorghum	2	2,263	15	*	50	750	Tomato	4
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	N/A	0	2	254,000	2	Sorghum	8	??	200	*	50	10,000	Beans	2
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	N/A	0	2	746,000	2	Potatoes	15	1,330	50	*	100	5,000		
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	N/A	0	3	465,000	3	Beans	2	1,330	30	*	60	1,800	Sweet potatoes	20
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel	N/A	0	2	125,500	2	Sorghum	6	3,610	50	*	120	6,000		
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	Livestock	160,000	3	1,094,500	3	Sorghum	2	1,262	30	*	50	1,500		
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	Trading	200,000	2	1,004,800	2	Sorghum	15		50	*	200	10,000	Maize	17
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA	N/A	0	2	433,000	2	Maize	12		200	*	50	10,000	Sorghum	11
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	N/A	0	2	140,000	2	Maize	1	2,494	20	*	30	600	Beans	1
11	RURENGE	MUHURIRE	GITOBE	MUKAMPIGA Beate	N/A	0	2	103,000	2	Sorghum	1	1,393	30	*	40	1,200	Beans	0.5
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve	N/A	0	2	188,000	2	Tomato	5	2,337	20	*	25	500		
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu	Carpentry	250,000	2	762,700	2	Beans	2		42	*	45	1,890	Beans	1
14	RURENGE	MUHURIRE	GITOBE	MUKAGATARE Selaphine	N/A	0	2	293,350	2	Beans	1	2,654	15	*	30	450	Sorghum	1
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	N/A	0	2	469,000	2	Sorghum	2	2112	100	*	100	10,000	Beans	1

No.	Sector	Cell	Village		Q11. UPI Plot Number at hillside for crop 2	Size of p	Q11. plot of c 2) or sq		Q11. Crop (3) cultivated in the hillside to be affected	•	Q11. UPI Plot	Size of pl (m2	Q11. ot of crop (3) ) or sqm	Q11. Crop (4) cultivated in the hillside	Q11. Crop (4) number of bags produced in hillside	Q11. UPI	Q11. Size of plot of cro (4) (m2) or sqm	р
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)		*		0				*	0				*	0
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	2,263	15 *	40	600				*	0				*	0
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	Rotation	*		0				*	0				*	0
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin		*		0				*	0				*	0
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	Rotation			0				*	(				*	0
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel		*		0				*	(				*	0
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald		*		0				*	(				*	0
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	Rotation			0				*	(				*	0
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA	Rotation			0				*	(				*	0
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	Rotation	*		0	Sweet potatoes	1.5	Rotation	*	0	Cassava	1	Rotation	*	0
11	RURENGE	MUHURIRE	GITOBE	MUKAMPIGA Beate	1,393	30 *	40	1,200	•			*	0				*	0
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve		*		0				*	0				*	0
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu		45 *	40	1,800				*	0				*	0
14	RURENGE	MUHURIRE	GITOBE	MUKAGATARE Selaphine	2,654	15 *	30	450	Maize	1	2,654	15 *	30 450				*	0
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	2114	100 *	180	18,000				*	C				*	0

No.	Sector	Cell	Village	Name of householder	Q12. Size o of subme	•		outsid	Size of le of sub m2) or s	plot B omerged	Q12. Size of plot C outside of submerged (m2) or sqm	Q12. Size of plot D outside of submerged (m2) or sqm	Total farmland	Q13. Years to stay in the area	Q14. Kind of domestic water, rainy season*	Q15. Kind of domestic water, dry season*	Q16. Availabilit y of Electricity , (Yes or No)	Q17. Cultivate in the submerge d area
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)	50 *	40	2,000	*	:	0	* (	* 0	2,500	42	3	3	Yes	No
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	*		0	*		0	* (	* 0	1,350	22	1;5	5	Yes	No
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	*		0	*	:	0	* (	* 0	10,000	3	4	4;5	Yes	No
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	*		0	*	:	0	* (	* 0	5,000	27	1;5	5	Yes	No
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	40 *	70	2,800	*	:	0	* (	* 0	4,600	21	1;5	5	No	No
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel	20 *	20	400	30 *	10	300	* (	* 0	6,700	48	1;5	5	No	Yes
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	300 *	200	60,000	*	:	0	* (	* 0	61,500	43	7	7	No	Yes
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	75 *	90	6,750	*	:	0	* (	* 0	16,750	6	5	5	Yes	No
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA	*		0	*	:	0	* (	* 0	10,000	6	5	5	No	No
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	20 *	30	600	10 *	100	1,000	21 * 60 1,260	* 0	3,460	83	1;5	5	No	Yes
11	RURENGE	MUHURIRE	GITOBE	MUKAMPIGA Beate	60 *	70	4,200	40 *	50	2,000	* (	* 0	8,600	63	4	4;5	Yes	Yes
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve	100 *	30	3,000	*		0	* (	* 0	3,500	62	5	5	Yes	No
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu	145 *	130	18,850	175 *	130	22,750	* (	* 0	45,290	32	5	5	No	Yes
14	RURENGE	MUHURIRE	GITOBE	MUKAGATARE Selaphine	40 *	60	2,400	30 *	100	3,000	* (	* 0	6,750	47	1;4	4;5	Yes	Yes
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	100 *	180	18,000	*	:	0	* (	* 0	46,000	44	1;2	2	No	Yes

No.	Sector	Cell	Village	Name of householder	Q18 Want to continue farming activity when the Project comes	Q19 cultivate in the area which will be submerged in the reservoir	Q20.Official Land ownership certify ate in the affected area in the marshland	Q21. Official land ownership certify ate in the affected area in the Hillside	Q22. Want to continue farming after the project (Yes or No)	Q23 Other technical assistant from the Government apart of Techinical assastant
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)	Yes	Yes	N/A	No	Yes	
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	Yes	Yes	No	Yes	No	Loan for business
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	Yes	Yes	N/A	No	Yes	
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	Yes	Yes	N/A	N/A	Yes	Business
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	Yes	Yes	N/A	No	Yes	Start a Business (trading)
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel	Yes	Yes	No	No	Yes	Livestock
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	Yes	Yes	No	N/A	Yes	Access to loan for business
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	Yes	Yes	N/A	Yes	Yes	Mechanics
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA	Yes	Yes	N/A	No	No	Mechanics
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	Yes	Yes	No	Yes	Yes	
11	RURENGE	MUHURIRE	GITOBE	MUKAMPIGA Beate	Yes	Yes	No	Yes	Yes	
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve	Yes	Yes	Yes	No	Yes	
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu	Yes	Yes	No	Yes	Yes	Carpentry
14	RURENGE	MUHURIRE	GITOBE	MUKAGATARE Selaphine	Yes	Yes	No	Yes	Yes	
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	Yes	Yes	No	Yes	Yes	Pesticides

<sup>\*</sup>Q14 & Q15:

1. Rain water 2. Canal water 3. River water 4. Piped water (public water)

<sup>5.</sup> Tubewell (deep), public 6. Tubewell (deep), private 7. Shallow well

#### 資料 6.5 (2) センサス調査結果(丘陵地)(Remera)

No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	of family	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Education al status of head of family	handicapp	7	Q6. 1st crop name	Q6.1 1st crop bags for sale	Q6.1 1st crop price/bag (Rwf)	Q6.1 Income of 1st crop (Rwf)	Q6. 2nd crop name	Q6. 2nd crop bags for sale
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	53	0783636074	0	3	3	0	F	None	0	Agriculture	Sorghum	10	28,000	280,000	Cassava	2
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU	33	N/A	2	6	8	0	F	None	0	Agriculture	Sorghum	5	20,000	100,000		
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste	40	N/A	5	3	8	0	M	None	1	Agriculture	Beans	2	25,000	50,000	Cassava	5
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA	74	0787030530	3	2	5	1	M	None	0	Agriculture	Sorghum	12	20,000	240,000	Beans	3
5	REMERA	BUGERA	NKENKE	SEROMBA	72	N/A	1	3	4	1	M	None	1	Agriculture	Beans	3	30,000	90,000	Sorghum	16
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE	31	N/A	3	1	4	0	M	None	0	Agriculture	Sorghum	7	20,000	140,000	Beans	4
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO	27	0784815507	3	7	10	0	M	Secondary	0	Agriculture	Sorghum	21	20,000	420,000	Beans	3
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA	29	0783435927	4	1	5	0	M	Primary	0	Agriculture	Sorghum	90	20,000	1,800,000	Beans	40
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel	57	0783318241	6	2	8	0	M	Primary	0	Agriculture	Sorghum	20	20,000	400,000	Beans	6
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah	44	N/A	2	2	4	0	M	Primary	0	Agriculture	Sorghum	4	20,000	80,000	Beans	1
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis			3	4	7											

<sup>11\*:</sup> Due to absence, survey was not conducted.

#### 資料 6.5 (2) センサス調査結果 (丘陵地) (Remera)

No.	Sector	Cell	Village	Name of householder	Q6. 2nd crop price/bag (Rwf)	Q6.1 Income of 2nd crop (Rwf)	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	Q6.1 Income of 3rd crop (Rwf)	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	Q6.1 Income of 4th crop (Rwf)	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	Q6.1 Income of 5th crop (Rwf)	Q6. 6th crop name	Q6. 6th crop bags for sale
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	25,000	50,000	Beans	3	30,000	90,000	Maize	4	20,000	80,000	Tomatoes	10	21,000	210,000	Cabbage	20
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU						-				-				-		
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste	20,000	100,000	Sorghum	4	25,000	100,000	Seet Potatoes	4	10,000	40,000				-		
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA	30,000	90,000	Cassava	10	30,000	300,000	Maize	1	20,000	20,000				-		
5	REMERA	BUGERA	NKENKE	SEROMBA	20,000	320,000	Coffee	55	12,000	660,000	Maize	16	30,000	480,000				-		
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE	30,000	120,000	Potatoes	3	15,000	45,000	Maize	2	25,000	50,000				-		
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO	30,000	90,000	Maize	6	30,000	180,000	Cassava	15	15,000	225,000				-		
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA	30,000	1,200,000	Cassava	120	25,000	3,000,000	Maize	120	30,000	3,600,000				-		
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel	30,000	180,000	Maize	4	30,000	120,000	Cassava	40	25,000	1,000,000				-		
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah	30,000	30,000	Maize	2	30,000	60,000	Cassava	15	25,000	375,000				-		
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis																

<sup>11\*:</sup> Due to absence, survey was not conducted.

### 資料 6.5 (2) センサス調査結果(丘陵地)(Remera)

No.	Sector	Cell	Village	Name of householder	Q6. 6th crop price/bag (Rwf)	Q6.1 Income of 6th crop (Rwf)	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)		Q7. Farm input :seed (Rwf)	Q7. Farm input: fertilizer (Rwf)	Q7 Farm input: pesticide (Rwf)	Q7 Farm input: labour (Rwf)	Total farm net income	Q8 Other income source	Q9 Other income (Rwf)	Total househol d net income	Times of	be
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	7,500	150,000	Coffee	2	25,000	50,000	50,000	30,000	35,000	15,000	780,000	Livestock	30,000	810,000	2	Sorghum
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU							20,000	25,000	3,000	40,000	12,000	N/A	0	12,000	2	Sorghum
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste							20,000	0	0	0	270,000	Labour	15,000	285,000	2	Beans
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA							30,000	25,000	3,000	30,000	562,000	Livestock	50,000	612,000	2	Sorghum
5	REMERA	BUGERA	NKENKE	SEROMBA							40,000	25,000	5,000	50,000	1,430,000	N/A	0	1,430,000	2	Beans
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE							30,000	26,000	0	40,000	259,000	N/A	0	259,000	2	Sorghum
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO							20,000	30,000	5,000	45,000	815,000	N/A	0	815,000	2	Sorghum
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA							200,000	140,000	50,000	200,000	9,010,000	N/A	0	9,010,000	2	Sorghum
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel							30,000	52,000	25,000	70,000	1,523,000	Livestock	60,000	1,583,000	2	Sorghum
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah							15,000	8,000	6,000	20,000	496,000	N/A	0	496,000	2	Sorghum
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis																

<sup>11\*:</sup> Due to absence, survey was not conducted.

#### 資料 6.5 (2) センサス調査結果 (丘陵地) (Remera)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (1) number of bags produced in hillside	Q11. UPI Plot Number at hillside	Size	of pl	Q11. ot of cro ) or sqm	op (1)	(2) cultivated in the	of bags produced	Q11. UPI Plot Number	(m	Q11. plot of c n2) or sq	rop (2)	(3) cultivated in the	Q11. Crop (3) number of bags produced in the hillside		Size of plo	(11. of crop ( or sqm	Q11. Crop (4) 3) cultivated in the hillside
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	10	1647		*		809	Cassava	5	1647	:	k	809	Beans	4	1647	*	80	9 Cabbage
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU	6	1609	30	*	50	1,500	Beans	1	1612	40	* 50	2,000				*		0
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste	3	2114	100	*	80	8,000	Sorghum	6	2114	100	<sup>k</sup> 80	8,000	Maize	1	Rotation	0 *	0	0 Sweet Potatoes
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA	14	2108	50	*	100	5,000	Beans	4	Rotation	20	* 30	600	Cassava	14	2319	20 *	30 6	00
5	REMERA	BUGERA	NKENKE	SEROMBA	4	1636		*		4,487	Cassava	10	Rotation	:	k	0	Maize	17	Rotation	*		0
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE	2		54	*	68	3,672	Sorghum	2		54	* 68	3,672	Beans	1		54 *	68 3,6	22
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO	6	2504	21	*	200	4,200	Beans	1	2501	21	* 200	4,200				*		0
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA	10	1605	50	*	180	9,000	Beans	10	Rotation	:	k	0	Cassava	30	Rotation	*		0 Maize
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel	12		100	*	110	11,000	Beans	4		100	* 110	11,000				*		0
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah	2	2112	100	*	100	10,000	Beans	1	2114	100	* 180	18,000				*		0
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis																		

<sup>11\*:</sup> Due to absence, survey was not conducted.

資料 6.5 (2) センサス調査結果(丘陵地)(Remera)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (4) number of bags produced in hillside	Q11. UPI Plot Number at hillside for crop 4	Q11. Size of plot of crop (4) (m2) or sqm	Q11. Crop (5) cultivated in the hillside	number of bags produced	Q11. UPI	(m2) or sam			•				plot B outside ed (m2) or sqn	
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	20	1629	* 892	Tomato	10	Rotation	* 0	20	*	35	700	28	*	20 560	4,579
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU			* 0				* 0	60	*	40	2,400	30	*	80 2,400	8,300
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste	1	2114	* 0	Soya	1	Rotation	* 0	0	*	0	0	0	*	0 (	16,000
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA			* 0				* 0	50	*	100	5,000	30	*	20 600	11,800
5	REMERA	BUGERA	NKENKE	SEROMBA			* 0				* 0		*		0		*	(	4,487
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE			* 0				* 0	54	*	68	3,672		*	(	14,688
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO			* 0				* 0	100	*	150	15,000		*	(	23,400
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA	20	rotation	* 0				* 0	250	*	280	70,000		*	(	79,000
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel			* 0				* 0	100	*	110	11,000		*	(	33,000
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah			* 0				* 0	100	*	180	18,000		*	(	46,000
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis															

<sup>11\*:</sup> Due to absence, survey was not conducted.

資料 6.5 (2) センサス調査結果(丘陵地)(Remera)

No.	Sector	Cell	Village	Name of householder	Q13. Years to stay in the area	of domestic	Q15. Kind of domestic water, dry season*	Q16. Availabilit y of Electricity , (Yes or No)	Q17. Cultivate in the submerge d area	Q18 Want to continue farming activity when the Project comes	Q19 cultivate in the area which will be submerged in the reservoir	,	Q21. Official land ownership certify ate in the affected area in the Hillside	Q22. Want to continue farming after the project (Yes or No)	Q23 Other technical assistant from the Government apart of Technical assistant
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	32	1;4;5	4,5	No	Yes	Yes	Yes	Yes	Yes	Yes	Land Compensation
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU	33	1;4	4	No	Yes	Yes	Yes	No	Yes	No	Social assistance
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste	40	1,5	5	No	Yes	Yes	Yes	No	No	Yes	Compensation
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA	74	1;4	4	No	Yes	Yes	Yes	No	Yes	No	Social assistance
5	REMERA	BUGERA	NKENKE	SEROMBA	50	1;4	4	Yes	Yes	Yes	Yes	No	Yes	No	Seeds
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE	31	1,2	2	No	No	Yes	Yes	No	Yes	No	Fertilizers
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO	27	1;4	4	No	Yes	Yes	Yes	No	Yes	No	Social assistance
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA	29	1;4	4,5	No	Yes	Yes	Yes	No	Yes	Yes	Agriculture Input
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel	57	1;4	4,5	No	No	Yes	Yes	No	Yes	No	Agriculture Input
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah	44	1;2	2	No	Yes	Yes	Yes	No	Yes	Yes	Pesticides
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis											

<sup>11\*:</sup> Due to absence, survey was not conducted.

\*Q14 & Q15 1. Rain water 2. Canal water 3. River water 4. Piped water (public water) 5. Tubewell (deep), public 6. Tubewell (deep), private 7. Shallow well

# 資料-6.6 住民協議参加者リスト

### 資料-6.6(1) 第1回住民協議参加者リスト

No	Names	Organization	Position	Contact		
1.	HABIMANA Anastase	Bugera	Farmer	0788591827		
2.	TURATSINZE Siste	Ndekwe	Farmer	0786973171		
3.	SINGIRANKABO J. Claude	Ndekwe	Executive Secretary of the Cell.	0787157813		
4.	UFITIKIREZI Colette (Fe)	Bugera	Executive Secretary of the Cell.	0787157810		
5.	MUNYURANGABO Félicien	Bugera	Farmer	0784281474		
6.	NIYIGENA J.M V	Bugera	Farmer	0784393007		
7.	NSABIYUMVA Eric	Muhurire	Farmer	0784919635		
8.	NDAGIJIMANA Wellars	Muhurire	Farmer	0784350035		
9.	NTEZIMANA Emmanuel	Muhurire	Farmer	0783872296		
10.	MANIRAGENA J. Damascéne	Ndekwe	Farmer	0785127477		
11.	UBONYEBENSHI Joseph	Ndekwe	Farmer	0725334050		
				0731076695		
12.	MUKAGIRUKWAYO Everusi (Fe)	Rujambarara	Farmer	0787685803		
13.	MUKANKURANGA Ernestina (Fe)	Rujambarara	Farmer			
14.	MUTABAZI	Rujambarara	Farmer			
15.	NIYITEGEKA Philemon	Bugera	Farmer	0728096007		
16.	NTAWIRINGIRA Elie	Ndekwe	Farmer	0783672297		
17.	MURAGIJEMWABO Arcade	Rurenge	Executive Secretary of Rurenge Sector	0787236665		
18.	NZAHABWANAYO Gaspard	Rujambara	Executive Secretary of Rujambara Cell	0784190535		
19.	MANAGUSA African	Muhurire	S.E.D of Cell	0788650593		
20.	NTAKAVURO Emmanuel	Rurenge	Farmer	0788770385		
21.	MUKARUKUNDO Victoire	Remera Sector	Executive Secretary of Remera Sector	0783696013		

資料-6.6(2) 第2回住民協議参加者リスト

	Name	Institution	Position	Mobile Number	
1	Mr. NZABIRINDA Damien	Rurenge Sector	Agronomist	0788656113	
2	Mr. NZABONIMPA Eraste	Remera Sector	Agronomist	0788500754	
3	Mr. RURANGIRWA Shabani	Remera Sector	Acting Executive Secretary	0788568785	
4	Mr. UWIMANA J.M.V	Rurenge Sector	Acting Executive Secretary	0783468668	
5	Mr. NZAHABWANAYO Gaspard	Rujambara Cell	SEDO	0784190535	
6	Mr. KARIKUMUTIMA J Paul	Mbonwa Village	Village Head	0783747921	
7	Mr. BASHIR Amur	Nyamata Village	Village Head	0725112503	
8	Mr. SINGIRANKABO Jean Claude	Ndekwe Cell	Executive Secretary	0787157813	
9	Mr. KAYITANA Eric	Rukore Village	Village Head	0785573038	
10	Mr. NDAYISABYE Jean Bosco	Ndekwe Village	Village Head	0783587643	
11	Mr. HABIMANA Anastase	Gasebeya Village	Village Head	0788591827	
12	Mr. MVUYEKURE Faustin	Ruhuha Village	Village Head	0786966766	
13	Mr. MUTSINZI Jean Pierre	Cyakabiri Village	Village Head	0783774216	
14	Mr. NYATANYI Benjamin	Rugando Village	Village Head	0784902998	
15	Mr. MAKERERA Alexandre	Rwikubo Cell	Executive Secretary	0787236663	
16	Mr. TUMUSHIME Joseph	Rugera Cell	SEDO	0788806106	
17	Ms. NFITIMANA Regina	Muhurire Cell	Executive Secretary	0787236668	
18	Mr. NSABIYUMVA Eric	Gitobe Village	Village Head	0784919635	
19	Mr. RWABARINDA Jean de Dieu	Gisunzu Village	Village Head	0786966849	
20	Ms. MUKAMUREGO Philomene	Kiyanja Village	Village Head	0785975689	
21	Mr. RUTAGUNGIRA Theogene	Mashyoza Village	Village Head	0737820599	
22	Mr. HABINEZA Theoneste	Urusagara Village	Village Head	0783162688	
23	Mr. HABIYAKARE Jean Baptist	Nyabaganza Village	Village Head	0786966873	
24	Ms. MUKAYUHI Beatrice	Akarambaraye Village	Village Head	0782926966	
25	Mr. NIZEYIMANA Emmanuel	Kabeza Village	Village Head	0786966875	
26	MANIRAGENA Damascene	Gikomero Village	Village Head	0785127477	
27	Mr. MAJYAMBERE Silas	Nkenke Village	Village Head	0722412030	
28	Ms. UFITIKIREZI Colleta	Bugera Cell	Executive Secretary	0787157810	
29	Mr. UWUHOREYE Venuste	Kivugangoma Village	Village Head	0786966883	
30	Mr. MANIRAFASHA Emmanuel	GCS Ltd	Technical Assistant	0788889545	
31	Mr. BIGAGAZA Jean	GCS Ltd	Team Leader	0788306659	
32	Mr. HABAKUBAHO Theogene	LWH/RSSP	Safeguard Specialist	0788643282	
33	Mr. NGARUKIYE Blaise	IM T/F	Irrigation Engineer	0788600560	
34	Mr. NIYONGABIRE Janvier	Ngoma District	Agronomist	0788277622	
35	Mr. TATSUYA leizumi	JICA Study Team	Team Leader	0782857832	
36	Mr. NTEZIREMBO Valens	JICA Study Team	Administrative Assistant	0788358759	
37	Ms RIE Kitao	JICA Study Team	Environmental and Social Consideration	0782859375	
38	Mr. IMPETA Fred JICA Study Team Field Manager			0788598136	

# 資料-6.6(3) 第3回住民協議参加者リスト

### Jica Representatives:

Name	Institution		
1. Mr. MATSUMOTO	Senior advisor, JICA headquarters		
2. Mr. Tatsuki NODA	Program Manager, JICA Rwanda		
3. Mr. Pascal FURAHA	Program coordinator, JICA Rwanda		
4. Mr. Jules NZABONIMAA	Assistant to Irrigation advisor		
5. Mr. Tatsuya IEIZUMI	Team Leader of the Consultant Team		

### The Rwandan Government Officers and Representatives of Beneficiaries:

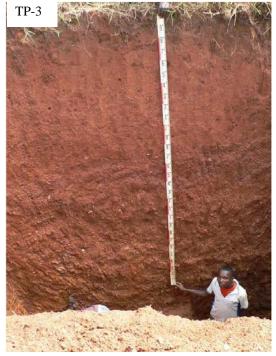
Name	Institution			
1. Blaise NGARUKIYE MINAGRI,	GFI Contract Manager in Mechanization and Irrigation			
	Task Force			
2. Mr. Janvier NIYONGABIRE	Ngoma district,District agronomist			
3. Mr. Africa MANAGUSA	Rurenge sector, SEDO of cell			
4. Mr. Gaspard NZAHABWANAYO	Rurenge sector, SEDO of cell			
5. Mr. Jean Claude SINGIRANKABO	Remera Sector, Executive secretary of cell			
6. Ms. Collette UFITIKIREZI	Remera Sector, Executive secretary of cell			
7. Mr. Anastase HABIMANA	Remera Sector, Head of village			
8. Mr. Justin TURATSINZE	Remera Sector, Farmers mobilize			
9. Mr. Etienne MUTABAZI	Remera Sector, Member of sector council			
10. Mr. Arcade MURAGIJEMUNGU	Rurenge sector, Executive Secretary			
11. Mr. Emmanuel NTEZIMANA	Rurenge sector, Representative of farmers			
12. Mr. Emmanuel NTAKAVURO	Rurenge sector, Representative of farmers			
13. Mr. Eric NSABIYUMVA	Rurenge Sector, Head of village			
14. Mr. Wellars NDAGIJIMANA	Rurenge sector, Representative of farmers			
15. Ms. Ernestine MUKANKURANGA	Rurenge sector, Representative of farmers			
16. Ms. Eveus MUKAGIRUKWAYO	Rurenge sector, Representative of farmers			

# 資料7 その他関連資料

# 資料-7.1 堤敷掘削調査における土層の状況









<u> 堤敷調査テストピットの状況(TP-1~TP-4)</u>





<u> 堤敷調査テストピットの状況 (TP-5~TP-7)</u>

# 資料-7.2 テストピット内の現場透水試験結果

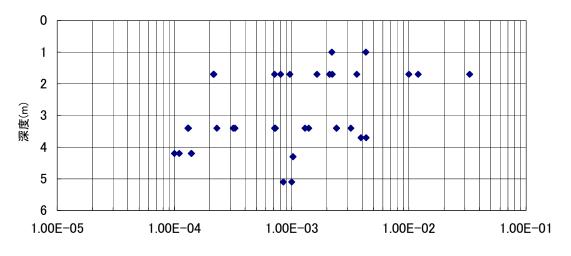
$$k = \frac{Q}{2\pi h^2} \left[ \ln \left\{ \frac{h}{r_0} + \left( \frac{h^2}{r_0^2} + 1 \right)^{1/2} \right\} - \left( \frac{r_0^2}{h^2} + 1 \right)^{1/2} + \frac{r_0}{h} \right]$$

ここに、Q: 定常流量(cm³/s)

h:試験孔内水深(cm) r<sub>0</sub>:試験孔の半径(cm)

### 現場透水試験結果総括表

Pit/		test denth	Permeability coefficient	mean value		
Bore hole	Hole No.	(m)	(cm/sec)	(cm/sec)	ground condition	
Dore Hole	N0.1	1.7	3.60E-03	(CIII/ Sec)	earth	
	No.2	1.7	3.30E-02		earth	
	No.3	3.4	2.30E-04		earth	
TP-1	No.4	3.4	3.20E-03		earth	
	No.5	5.1	8.50E-04		earth	
	No.6	5.1	1.00E-03		earth	
TD 0	No.1	1.0	2.20E-03		earth	
TP-2	No.2	1.0	4.30E-03		earth	
	N0.1	1.7	1.20E-02		earth	
	No.2	1.7	1.00E-02		earth	
TP-3	No.3	3.4	1.40E-03		earth~highly	
117-3	No.4	3.4	1.30E-03		weathered	
	No.5	4.2	1.10E-04		highly weathered	
	No.6	4.2	1.00E-04		highly weathered	
	N0.1	1.7	2.15E-04		earth	
	No.2	1.7	2.17E-04		earth	
TP-4	No.3	3.4	2.42E-03		earth	
117-4	No.4	3.4	2.42E-03	9.77E-04	earth	
	No.5	3.7	3.91E-03	9.77E-04	highly weathered	
	No.6	3.7	4.32E-03		highly weathered	
	N0.1	1.7	8.05E-04		earth	
TP-5	No.2	1.7	2.22E-03		earth	
11 3	No.3	3.4	1.30E-04		earth, water	
	No.4	3.4	1.32E-04		earth, water	
	N0.1	1.7	2.11E-03		earth	
	No.2	1.7	1.64E-03		earth	
TP-6	No.3	3.4	7.27E-04		earth	
"	No.4	3.4	7.14E-04		earth	
	No.5	4.3	1.03E-03		highly weathered	
	No.6	4.3	1.03E-03		highly weathered	
	N0.1	1.7	7.14E-04		earth	
	No.2	1.7	9.66E-04		earth	
TP-7	No.3	3.4	3.28E-04		earth	
'' '	No.4	3.4	3.18E-04		earth	
	No.5	4.2	1.40E-04		earth	
	No.6	4.2	1.39E-04		earth	



透水係数(cm/sec) **ピット法現場透水試験結果分布図** 



試験孔掘削



周辺への散水・試験孔注水



細粒礫注入、スティック建て込み



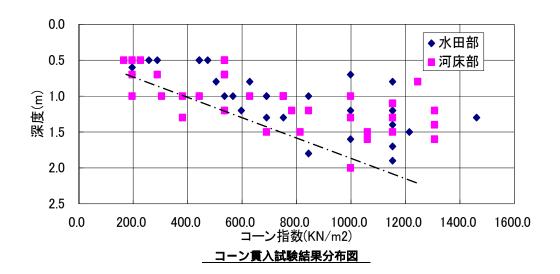
計測

### 現場透水試験実施状況

# 資料-7.3 コーン貫入試験結果

# 水田コーン貫入試験結果

	試験位置	深度(m)	読み	q <sub>c</sub> (KN/m2)		試験位置	深度(m)	読み	q <sub>c</sub> (KN/m2)
	ダム軸地点・水田	2.0	300	998.5	7		1.0	150	535.6
		1.0	100	381.2		三叉分岐•水田	1.2	300	998.5
	ダム軸地点・川・左岸	1.5	240	813.3			1.3	450	1461.5
1		1.6	400	1307.2			0.5	40	196.0
	ダム軸地点・川・右岸	1.0	75	304.1		三叉分岐・河床	1.0	300	998.5
		1.2	150	535.6			1.2	400	1307.2
		1.6	320	1060.2		二叉公岐下沟100~-	0.5	120	443.0
2	上流堤敷	1.0	150	535.6		三叉分岐下流100m· 水田	1.0	200	689.9
2	上 川 炬 敖	1.1	400	1307.2	(8)	ЖШ	1.2	350	1152.8
	SpringNo4脇•水田	0.5	70	288.6	0	二叉公岐下沟100~-	0.5	150	535.6
		0.7	300	998.5		三叉分岐下流100m· 河床	1.0	220	751.6
3		1.0	40	196.0		州外	1.1	350	1152.8
	SpringNo4脇•河床	1.3	100	381.2			0.5	120	443.0
		1.5	320	1060.2		合流点上流450m·	0.8	180	628.1
	SpringNo4下流100m	0.5	60	257.8		水田	1.0	250	844.2
	右岸水田	0.8	350	1152.8	9		1.2	350	1152.8
4		0.5	50	226.9		合流点上流450m· 河床	0.5	150	535.6
4	SpringNo4下流100m 河床	1.0	120	443.0			1.0	220	751.6
		1.5	200	689.9			1.1	350	1152.8
		2.0	300	998.5		合流点上流250m· 水田	0.5	130	473.8
	SpringNo.5下流100m 水田	0.7	40	196.0	10		1.0	160	566.4
		0.8	140	504.7			1.3	220	751.6
		1.2	150	535.6			1.4	350	1152.8
		1.6	300	998.5		合流点上流250m· 河床	0.7	150	535.6
<b>⑤</b>	SpringNo.5下流100m 河床	0.7	70	288.6			1.0	220	751.6
		1.0	180	628.1			1.3	350	1152.8
		1.2	230	782.5	100	合流点·水田	0.5	120	443.0
		1.3	300	998.5			1.0	200	689.9
		1.4	400	1307.2			1.7	350	1152.8
	SpringNo.6脇・水田	0.5	40	196.0	10	合流点·河床	0.7	40	196.0
		1.0	120	443.0			1.2	250	844.2
		1.3	200	689.9			1.5	350	1152.8
<b>6</b>		1.5	370	1214.6	11)	SpringNo.9脇•水田	0.6	40	196.0
	SpringNo.6脇•河床	0.5	30	165.2			1.2	170	597.3
		0.7	150	535.6			1.8	250	844.2
		0.8	380	1245.4			1.9	350	1152.8

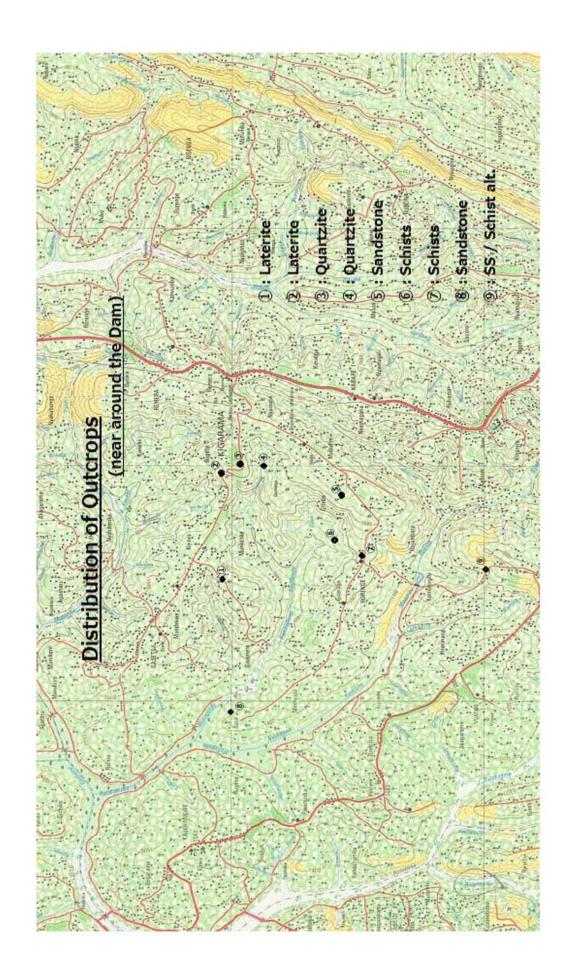




コーン貫入試験実施状況

# 資料-7.4 露頭写真





資料-7.5 既存の湧水地点写真

