

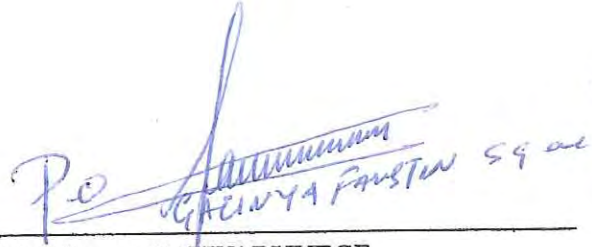
1.3 Minutes of Meetings on Inception Report

MINUTES OF MEETINGS  
BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) STUDY TEAM  
AND  
RWANDAN AUTHORITIES CONCERNED  
ON  
INCEPTION REPORT  
FOR  
THE STUDY ON IMPROVEMENT OF RURAL WATER SUPPLY  
IN THE EASTERN PROVINCE

RWAMAGANA, 10 November 2008



Mr. Shoji FUJII  
Team Leader/Water Supply Plan  
JICA Study Team




Mr. Vincent GATWABUYEGE  
Permanent Secretary  
Ministry of Infrastructure (MININFRA),  
Republic of Rwanda


Witness



Dr. Katsuhito YOSHIDA  
Leader of Advisory Mission  
Visiting Senior Advisor  
JICA



Mr. Charles GASANA  
Executive Secretary  
Eastern Province  
Republic of Rwanda



Mr. Hiroshi MURAKAMI  
Resident Representative  
JICA Rwanda Office

JICA Rwanda Office



**Introduction:** A meeting for the Study on Improvement of Rural Water Supply in the Eastern Province of the Republic of Rwanda (hereinafter referred to as “the Project”) was held on 7 November 2008, at the conference room of AVEGA in Rwamagana. Issues below were confirmed and agreed upon in the meeting.

**Issues:**

**1. Inception Report**

The Study Team presented the Inception Report, which describes the outline, study concepts and conditions of the Study. The Inception Report was generally accepted by the Rwandan side.

**2. Project Objectives**

Both sides confirmed and agreed to the following main objectives for this study.

- (1) Formulation of a water supply plan to raise the water coverage rate of the Eastern Province to 100% by year 2020.
- (2) Preparation of preliminary designs targeted for year 2015 for priority projects selected from the water supply plan

**3. Study Area**

Both sides confirmed and agreed that the study area will be the 7 districts (Nyagatare, Gatsibo, Kayonza, Rwamagana, Kirehe, Ngoma and Bugesera) of the Eastern Province as shown on the map of Annex-1.

**4. Counterpart Agencies for the Study**

Both sides confirmed and agreed that the counterpart agencies for this study are the following, to provide necessary assistance to the Study Team and coordinate all activities of the study.

- MININFRA
- Eastern Province
- 7 Districts of the Eastern Province

**5. Study Counterparts**

The Study Team requested the following water and sanitation related staffs to be allocated as counterpart personnel for this study. The allocated counterparts are expected to be involved in the study through such activities as collecting required information, assisting in site surveys and participating in seminars. The Rwandan side agreed to allocate these engineers as provided in the Minutes of Meeting on the Scope of Work for this study, signed on 18 December 2007 in Kigali.

- |                              |   |
|------------------------------|---|
| • From MININFRA and MINIRENA | 1 or 2 water and sanitation engineer(s)   |
| • From Eastern Province      | 1 staff in charge of water and sanitation   |
| • From the 7 Districts       | 1 or 2 staff(s) from each District in charge of water and sanitation (from Infrastructure Unit) |



## 6. Water Sources for the Study

Both sides agreed that water sources to be considered mainly for this study will be springs, surface waters and groundwater. Rainwater harvesters, which contain dust and debris, will be considered as alternative water resources or water used for sanitation activities, because they may present problems as drinking water sources.

## 7. Steering Committee

Both sides agreed on forming a steering committee by the Rwandan side to mutually share study results and provide feedbacks on the progress of the study in conformity with the Minutes of Meeting on the Scope of Work for this study, signed on 18 December 2007 in Kigali. The Rwandan side explained that tentatively the committee would be formed by the following members.

Co-chairpersons:	Permanent Secretary of MININFRA Executive Secretary of Eastern Province
Rwandan Members:	Representative from MINIRENA Mayors of Districts of Nyagatare, Gatsibo, Kayonza, Rwamagana, Ngoma, Kirehe and Bugesera Representatives from MINALOC, MINEDUC, MINISANTE, PNEAR, etc.
Japanese Members:	Study Team Resident Representative of JICA Rwanda Office

## 9. Office Space for Study Team

The Rwandan side agreed to promptly prepare appropriate office spaces as follows for the Study Team at Kigali and Rwamagana to be used throughout the study period, in accordance with the Minutes of Meeting on the Scope of Work for this study, signed on 18 December 2007 in Kigali.

- Space adequate for 5 or 6 persons and office equipments (Copy machine, printer, etc)
- Desks and chairs for the Team
- Wireless network or internet connection
- Other furniture necessary, etc

## 10. Measures to be Taken by the Rwandan Government

Undertakings of the Rwandan government agreed previously in the Scope of Work for the study signed on 18 December 2007 in Kigali between former MINITERE and JICA were confirmed by the Rwandan side as listed in Annex-2.

## ANNEXES

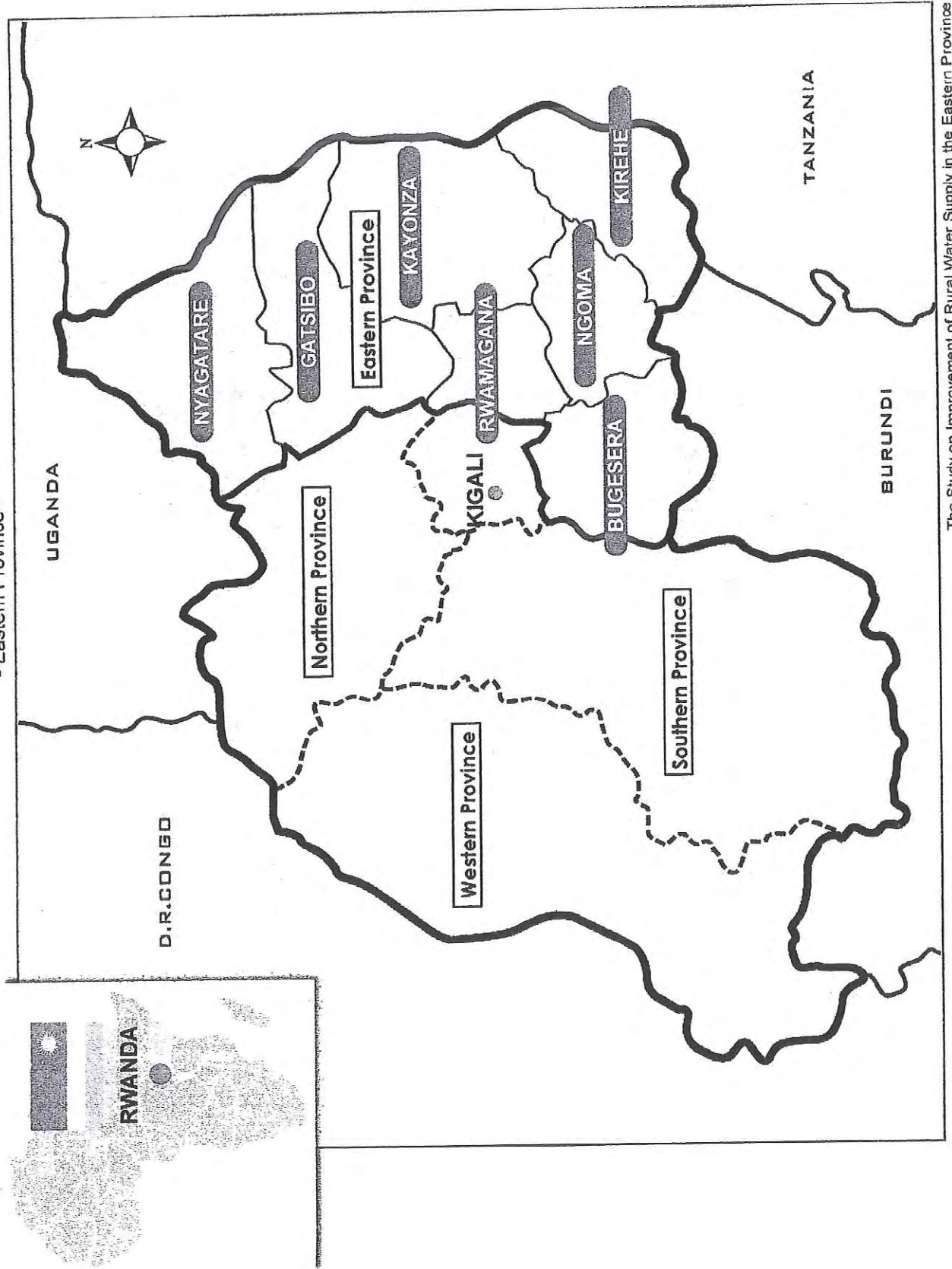
Annex-1 Map of target area

Annex-2 Undertakings of the Rwandan Government



ANNEX-1 MAP OF TARGET AREA

Project Target Area Map  
- Eastern Province -



## ANNEX-2 UNDERTAKINGS OF THE RWANDAN GOVERNMENT

1. The Rwandan Government shall accord privileges, exemptions and other benefits to the Japanese study team in accordance with the Agreement on Technical Cooperation between the Government of Japan and the Government of the Republic of Rwanda, signed on January 14, 2005.
2. The Rwandan Government shall bear claims, if any arises, against the members of the Japanese study team resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the Japanese study team.
3. MININFRA, the Eastern Province and the 7 target Districts (Nyagatare, Gatsibo, Kayonza, Rwamagana, Ngoma, Kirehe, Bugesera) shall act as counterpart agencies to the Japanese study team and also as coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.
4. MININFRA, the Eastern Province and the 7 target Districts (Nyagatare, Gatsibo, Kayonza, Rwamagana, Ngoma, Kirehe, Bugesera) shall, at its own expense, provide the Japanese study team with the following, in cooperation with other organizations concerned:
  - (1) security-related information on as well as measures to ensure the safety of the Japanese study team,
  - (2) information on as well as support in obtaining medical service,
  - (3) available data, information and studies related to the Study,
  - (4) counterpart personnel,
  - (5) suitable office space with necessary office equipment and furniture, and
  - (6) credentials or identification cards.



1.4 Minutes of Meetings on Progress Report

MINUTES OF MEETINGS  
BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) STUDY TEAM  
AND  
RWANDAN AUTHORITIES CONCERNED  
ON  
PROGRESS REPORT  
FOR  
THE STUDY ON IMPROVEMENT OF RURAL WATER SUPPLY  
IN THE EASTERN PROVINCE

RWAMAGANA, 18 March 2009

*for* 平直貴  
Mr. FUJII Shoji  
Team Leader/Water Supply Plan  
JICA Study Team



Ms. MUKASINE Marie Claire  
Permanent Secretary  
Ministry of Infrastructure (MININFRA),  
Republic of Rwanda

Witness

Mr. GASANA Charles  
Executive Secretary  
Eastern Province  
Republic of Rwanda

村上博  
Mr. Hiroshi MURAKAMI  
Resident Representative  
JICA Rwanda Office



### **Introduction:**

A meeting on the Progress Report for the Study on Improvement of Rural Water Supply in the Eastern Province of the Republic of Rwanda (hereinafter referred to as “the Study”) was held on 18 March 2009, at the conference room of AVEGA in Rwamagana. Issues below were confirmed and agreed upon in the meeting.

### **Issues:**

#### **1. Progress Report**

The Study Team presented the Progress Report, which describes the present conditions in socio-economic aspects, environmental aspects, water resources and water supply facilities as well as water resources potential. The Progress Report was generally accepted by the Rwandan side.

#### **2. Design Criteria for Study**

Both sides confirmed and agreed on the design criteria to be used for the Study as follows.

Parameter	Criteria	
	This Study	Out of Scope
Water Supply Target	Domestic water for rural residents (drinking, cooking, bathing, washing clothes, garden watering, etc.)	Industrial use, livestock watering*, agricultural use and other larger consumers
Target Water Sources	Spring, groundwater from borehole, surface water (lakes and rivers)	Rainwater and valley dams
Unit Water Supply Rate for Rural Area	20 liters/capita/day (l/c/d)**	
Distance to Fetch Water for Rural Area	Maximum 500m**	
Water Quality	WHO Guidelines for Drinking Water Quality (adopted by Rwandan government)	

N.B.: \* Water demand for livestock will be calculated only if the Rwandan side provides all data necessary for the calculation (refer to 3. below).

\*\*These are conditions used in EDPRS for determining accessibility to rural water supply.

#### **3. Information to be Provided from the Rwandan Side to the Study Team**

During the Second Seminar held on 18 March 2009, the Rwandan side promised to provide the following information:

- Officially authorized population growth rate for each district (Nyagatare, Gatsibo, Kayonza, Rwamagana, Ngoma, Kirehe, Bugesera) of the Eastern Province to be used for future population projections,



- Latest official rate of accessibility to sanitation (sanitation coverage rate) in rural areas for each district (Nyagatare, Gatsibo, Kayonza, Rwamagana, Ngoma, Kirehe, Bugesera) of the Eastern Province and definition of sanitary toilet used to determine these accessibility rates
- Official present total number of livestock (by type) in Eastern Province; Official present growth rate of livestock (for each type) in Eastern Province; Official unit water supply rate (or water consumption rate) of livestock (for each type) in the Eastern Province
- Latest official data on amount of each principal produce distributed in the market of the Eastern Province.

Information should be submitted to the Study team from the Rwandan side through E-mail or other means (since the Study team is not in Rwanda to collect the information) by the end of April 2009, but if the needed information is not received by the deadline, the Study team will proceed with the Study using information already collected by the Study team.

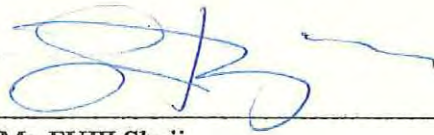




1.5 Minutes of Meetings on Interim Report

MINUTES OF MEETINGS  
BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) STUDY TEAM  
AND  
RWANDAN AUTHORITIES CONCERNED  
ON  
INTERIM REPORT  
FOR  
THE STUDY ON IMPROVEMENT OF RURAL WATER SUPPLY  
IN THE EASTERN PROVINCE

RWAMAGANA, 15 July 2009



Mr. FUJII Shoji  
Team Leader/Water Supply Plan  
JICA Study Team


Ms. MUKASINE Marie Claire  
Permanent Secretary  
Ministry of Infrastructure (MININFRA),  
Republic of Rwanda

Witness


Ms. MUKANTABANA Aline  
Acting Executive Secretary  
Eastern Province  
Republic of Rwanda



Mr. Hiroshi MURAKAMI  
Resident Representative  
JICA Rwanda Office



### Introduction:

A meeting on the Interim Report for the Study on Improvement of Rural Water Supply in the Eastern Province of the Republic of Rwanda (hereinafter referred to as “the Study”) was held on 15 June 2009, at the conference room of AVEGA in Rwamagana. Issues below were confirmed and agreed upon in the meeting.

### Issues:

#### 1. Interim Report

The Study Team presented the Interim Report, which describes the master plan for water supply of Eastern Province and selection of priority projects. The Team explained that preliminary designing for the priority projects would be carried out in the next stage of the study to be presented in the Draft Final Report scheduled for November 2009. The Interim Report was generally accepted by the Rwandan side with some corrections on data such as number of cells and imidugudu.

#### 2. Master Plan for Water Supply of Eastern Province

The Study Team explained that water resources in Eastern Province are available to meet the demands. However, since the locations of sources are not evenly distributed through the province, transporting bulk amounts from water rich areas to water poor areas is the most important issue in the future for Eastern Province. To satisfy the demands in water supply of the residents of the Eastern Province for 2020, the Study Team explained that 81 piped schemes and 11 handpump schemes for a total of 92 schemes are needed to be implemented. Both sides confirmed and agreed on the contents of the master plan for each of the target districts.

#### 3. Selection of Priority Projects for Preliminary Designing

From the master plan, 10 projects were selected as having highest priority for early implementation. The Study Team explained the procedure to select the prioritized secteurs and then choose the most appropriate projects having possibility for earliest implementation. Both sides confirmed and agreed on the selection procedure and the following 10 priority projects.

Project No.	District	Prioritized Secteur	Water Source		Scheme Type
			Name	Type	
1	Nyagatare	Katabagemu	Rwobe-Gashure	Spring	Gravity
2	Gatsibo	Kageyo	Nyakagezi 1, 2	Spring	Gravity
3	Gatsibo	Remera	Kibira-Mpasha	Spring	Pumped
4	Gatsibo	Rwimbogo	—	Groundwater	Handpump
5	Kayonza	Mukarange	Kazabanaza	Groundwater	Pumped
6	Ngoma	Gashanda	Cyerwa	Spring	Pumped
7	Ngoma	Rukira	Gisuma	Spring	Gravity + Pumped
8	Kirehe	Kigina	Rwakiriba	Spring	Pumped
9	Kirehe	Mahama	Mayizi	Spring	Gravity
10	Kirehe	Mushikiri	(New Source)	Spring	Pumped

#### **4. Provision of Information having Consistency**

The JICA Study Team has requested the Rwandan side many times to submit information such as accessibility rates of clean water for each secteur, but data from the province, districts and secteurs do not have consistency. During the seminar, the Rwandan agreed to provide information having consistency between the province, districts and secteurs.

#### **5. Population Growth Rate**

The JICA Study Team requested the Rwandan side to submit population growth rate predictions for Eastern Province to be used for this study, and as a result, information from NISR (National Institute of Statistics of Rwanda) was submitted to the Study Team. According to this information, the population growth rate prediction from the present to 2020 is 2.16%. This figure was approved by the representative of MININFRA during the seminar. Also the person in charge of demography of NISR confirmed that this figure is the only one available at this time and that the director general of NISR is ready to approve this data.

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1.6 Minutes of Meetings on First Draft Final Report

MINUTES OF MEETING  
BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
AND  
RWANDAN AUTHORITIES CONCERNED  
ON  
FIRST DRAFT FINAL REPORT  
FOR  
THE STUDY ON IMPROVEMENT OF RURAL WATER SUPPLY  
IN THE EASTERN PROVINCE

RWAMAGANA, 24 November 2009



Mr. FUJII Shoji  
Team Leader/Water Supply Plan  
JICA Study Team



Ms. MUKASINE Marie Claire  
Permanent Secretary  
Ministry of Infrastructure (MININFRA),  
Republic of Rwanda



Dr. YOSHIDA Katsuhito  
Team Leader  
JICA Monitoring Team



Mr. MUGIRANEZA Yussuf  
Executive Secretary  
Eastern Province  
Republic of Rwanda



Witness:



Mr. Hiroshi MURAKAMI  
Resident Representative  
JICA Rwanda Office



## **Introduction:**

The 4<sup>th</sup> steering committee meeting on the Study on Improvement of Rural Water Supply in the Eastern Province of the Republic of Rwanda (hereinafter referred to as “the Study”) was held on 24 November 2009, at the conference room of AVEGA in Rwamagana. Both sides confirmed that the following issues were discussed in the meeting.

## **Issues:**

### **1. First Draft Final Report**

The Study Team (hereinafter referred to as “the Team”) presented the First Draft Final Report (hereinafter referred to as “the Report”), which describes the master plan (hereinafter referred to as “M/P”) for water supply of the Eastern Province and preliminary designing of 10 priority projects to be urgently commenced.


The Team added that, even though the M/P intends to achieve the goal for 100% coverage in year 2020, many difficulties are expected in its implementation, such as human resources for planning; coordination and supervision of the construction works; and sustainable operation and maintenance of the facilities after completion. Therefore, the Team expressed its intension to continue to refine the Report and add further recommendations on implementation of the plan, such as necessary actions to be taken by the Rwandan side and concerns to which the Rwandan side should pay attention, and requested the Rwandan side to examine the Report and raise comments, if any, so that the Team can make the revisions.

The Rwandan side generally understood the Report and requirements for counterpart budget allocation. Also, the Rwandan side understood the above-mentioned intentions, and confirmed that the Ministry of Infrastructure (MININFRA) is responsible for collecting the comments from the authorities concerned in Rwanda and forwarding them to JICA Rwanda office in writing by 7<sup>th</sup> December 2009.

Both sides also confirmed that the revised Report will be submitted to the Rwandan side before the Team finalizes the report in order to confirm the Rwandan side accepts the contents of the Report.

### **2. Implementation of Projects in the M/P**

The Rwandan side expressed its desire to request the Japanese government to support the 10 priority projects and to seek funds from donors to implement the other projects mentioned in the study to achieve the coverage of 100% by 2020.

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### 3. Legal Procedures and Land Acquisition

For the 10 priority projects, the Study intends that facilities mentioned in the M/P might be constructed on private property. JICA monitoring team headed by Dr. Katsuhito Yoshida asked if there are any concerns on land acquisitions and requested the Rwandan side to inform the team on the recognition of the Rwandan government on its legal procedures and the necessity of compensations in writing by 7<sup>th</sup> December 2009. The Rwandan side agreed to reply as requested.

### 4. Consideration on Target Year of Priority Projects

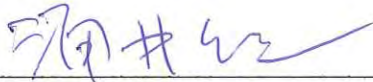
The Rwandan side commented on why the design target year for the priority projects is set at 2015, and how the goals of the master plan which sets 2020 as the target year can be achieved. The Team explained that the target year of 2015 for the priority projects was agreed by both sides through the Minutes of Meetings on the Scope of Work for the Study signed on 18 December 2007 between the Preparatory Study Team and the Rwandan side consisting of MINITERE and Eastern Province, then again in the Minutes of Meetings on the Inception Report for the Study signed on 10 November 2008 between the Study Team and the Rwandan side consisting of MININFRA and Eastern Province. However, both sides agreed on the importance of additional information to be included to cover the demands until 2020.

(End)

1.7 Minutes of Meetings on Second Draft Final Report

MINUTES OF MEETING  
BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY  
AND  
RWANDAN AUTHORITIES CONCERNED  
ON  
SECOND DRAFT FINAL REPORT  
FOR  
THE STUDY ON IMPROVEMENT OF RURAL WATER SUPPLY  
IN  
THE EASTERN PROVINCE

RWAMAGANA, 15 September 2010



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Mr. WAKUI Junji  
Leader of the Monitoring Mission  
JICA



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Ms. MUKASINE Marie Claire  
Permanent Secretary  
Ministry of Infrastructure (MININFRA),  
Republic of Rwanda



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Mr. FUJII Shoji  
Leader/Water Supply Planning  
JICA Study Team



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Mr. MUGIRANEZA Yussuf  
Executive Secretary  
Eastern Province  
Republic of Rwanda

## **Introduction:**

The 5<sup>th</sup> steering committee meeting on the Study on Improvement of Rural Water Supply in the Eastern Province (hereinafter referred to as “the Study”) of the Republic of Rwanda (hereinafter referred to as “Rwanda”) was held on 15<sup>th</sup> September 2010, at the conference room of AVEGA in Rwamagana. Both sides confirmed that the following issues were discussed in the meeting.

## **Issues:**

### **1. Second Draft Final Report**

The Study Team (hereinafter referred to as “the Team”) presented the Second Draft Final Report (hereinafter referred to as “the Report”), which describes the Master Plan (hereinafter referred to as “M/P”) for water supply of the Eastern Province and preliminary designing of 10 priority projects to be urgently commenced. The Rwandan side generally agreed with the Report. However, some parts of the report still need to be examined for the smoother management, operation and maintenance of the water supply facilities of the M/P, the Study team will prepare improved version of the Report by the end of September 2010.

Both sides confirmed that the Ministry of Infrastructure (hereinafter referred to as “MININFRA”) is responsible for collecting the comments on the improved version of the Report from the authorities concerned in Rwanda and forwarding them to JICA Rwanda office in writing by 15<sup>th</sup> October 2010. Executive Secretary of the Eastern Province will coordinate the collection process of comments from the districts. Then the Team will send Final Report by the end of October 2010, reflecting the comments from Rwandan side.

The Rwandan side promised to authorize the M/P as their own policy and make the best use of it autonomously. Furthermore, the Rwandan side will introduce it to other funding organizations or development partners for the successive implementation of the M/P.

### **2. Recommendations**

The Team suggested some necessary or effective measures for the Rwandan side to achieve the goal for 100% coverage in year 2020 as stated below. The Rwandan side understood the recommendations and agreed to take them into consideration.

#### **2-1 Successive Implementations of the Projects**

Rwandan side must consider the timing of request for the project, design and construction of the water supply facilities for successive implementation of the M/P. In addition, capacity strengthening of the districts is necessary to supervise continuously the implementation of the Projects. Furthermore, it is recommended to recruit staff especially for water supply and sanitation in all districts and for secteurs in the future.



## 2-2 Improvement of Financial Sustainability of Pumped Schemes

Some of the pumped schemes including Priority Project in Remera (Gatsibo district) are not financially feasible enough due to the expensive fuel cost for pumping up. Rwandan side should think on fuel cost subsidy or promotion of power extensions. There is another idea to consider tender lots combining low paying schemes (pumped) with high paying schemes (gravity) when contracting to private operators.

## 2-3 Sustainable Usage of Water Supply Facilities

### (1) Economical Empowerments of People

It is important that estimated amount of water is sold to ensure sustainable management, operation and maintenance of water supply facilities. Sanitation and hygiene educations to the people including Pura-Sani Project initiatives are effective to motivate people to buy necessary amount of water to be utilized. People should be economically empowered and social welfare support considered to assist vulnerable people in procuring safe water.

### (2) Utilization of Pura-Sani Project

Pura-Sani Project which is being implemented in 4 districts of Rwamagana, Kayonza, Ngoma, Kirehe is highly recommended for the reinforcement of supervision, management and operation of the water supply facilities. Achievement and experiences of Pura-Sani Project should be utilized correctly for sustainable usage of the water supply facilities which would be constructed based on the M/P.

### (3) Establishment of District Water Funds

It is recommended to establish water funds in each district to cope with urgent and large repairs of the water supply facilities.

## 2-4 Administrative Reforms and Capacity Development

For proper and effective implementation of this project, the establishment of proposed reforms in water supply and sanitation sector should be accelerated.

## 2-5 Others

Other recommendations are stated in the report.

## 3. Implementation of Projects in the M/P

The Rwandan side promised to take initiative to ensure the full implementation of M/P both by allocating its own budget as well as by seeking funds from development partners. Especially, the Rwandan side requested JICA to support high priority projects as grant aid project phase III.

## **D2. 東部県の水源地一覧**

2.1 ニヤガタレ郡

2.2 ガツィボ郡

2.3 カヨンザ郡

2.4 ルワマガナ郡

2.5 ンゴマ郡

2.6 キレヘ郡

2.7 ブゲセラ郡

記号一覧

**District (郡)**

Eastern Province	Ny	Nyagatare	ニャガタレ
	Ga	Gatsibo	ガツイボ
	Ka	Kayonza	カヨンザ
	Rw	Rwamagana	ルワマガナ
	Ng	Ngoma	ンゴマ
	Ki	Kirehe	キレヘ
	Bu	Bugesera	ブゲセラ
Northern Province	Gi	Gicumbi	ギチュンビ

**Secteur (セクトール)**

<i>Nyagatare District</i>	
Ny01	Gatunda
Ny02	Karama
Ny03	Karangazi
Ny04	Katabagemu
Ny05	Kiyombe
Ny06	Matimba
Ny07	Mimuli
Ny08	Mukama
Ny09	Musheri
Ny10	Nyagatare
Ny11	Rukomo
Ny12	Rwempasha
Ny13	Rwimiyaga
Ny14	Tabagwe

<i>Gatsibo District</i>	
Ga01	Gasange
Ga02	Gatsibo
Ga03	Gitoki
Ga04	Kabarore
Ga05	Kageyo
Ga06	Kiramuruzi
Ga07	Kiziguro
Ga08	Muhura
Ga09	Murambi
Ga10	Ngarama
Ga11	Nyagihanga
Ga12	Remera
Ga13	Rugarama
Ga14	Rwimbogo

<i>Kayonza District</i>	
Ka01	Gahini
Ka02	Kabare
Ka03	Kabarondo
Ka04	Mukarange
Ka05	Murama
Ka06	Murundi
Ka07	Mwiri
Ka08	Ndego
Ka09	Nyamirama
Ka10	Rukara
Ka11	Ruramira
Ka12	Rwinkwavu

<i>Rwamagana District</i>	
Rw01	Fumbwe
Rw02	Gahengeri
Rw03	Gishari
Rw04	Karenge
Rw05	Kigabiro
Rw06	Muhazi
Rw07	Munyaga
Rw08	Munyiginya
Rw09	Musha
Rw10	Muyumbu
Rw11	Mwulire
Rw12	Nyakariro
Rw13	Nzige
Rw14	Rubona

<i>Ngoma District</i>	
Ng01	Gashanda
Ng02	Jarama
Ng03	Karembo
Ng04	Kazo
Ng05	Kibungo
Ng06	Mugesera
Ng07	Murama
Ng08	Mutenderi
Ng09	Remera
Ng10	Rukira
Ng11	Rukumberi
Ng12	Rurenge
Ng13	Sake
Ng14	Zaza

<i>Kirehe District</i>	
Ki01	Gahara
Ki02	Gatore
Ki03	Kigarama
Ki04	Kigina
Ki05	Kirehe
Ki06	Mahama
Ki07	Mpanga
Ki08	Musaza
Ki09	Mushikiri
Ki10	Nasho
Ki11	Nyamugali
Ki12	Nyarubuye

<i>Bugesera District</i>	
Bu01	Gashora
Bu02	Juru
Bu03	Kamabuye
Bu04	Mareba
Bu05	Mayange
Bu06	Musenyi
Bu07	Mwogo
Bu08	Ngeruka
Bu09	Ntarama
Bu10	Nyamata
Bu11	Nyarugenge
Bu12	Rilima
Bu13	Ruhuha
Bu14	Rweru
Bu15	Shyara

**Water Source (水源)**

Ss	Spring
Sb	Borehole using groundwater
Sl	Lake
Sr	River

**Water Supply Scheme (給水施設)**

Ps	Piped scheme (either gravity or pumped)
Hp	Handpump
Sp	Protected spring
EW	Existing water scheme
MP	Master plan water scheme
PP	Priority project water scheme

## D2. 東部県の水源一覧

### 2.1 ニヤガタレ郡 (1/4)

No	Source Code No.	Name of Source	Type	Latitude			Longitude			Location				Discharge (lit/s)	*Note
				°	'	"	°	'	"	District	Secteur	Cell	Umudugudu		
1	Gi00Sr01	Gihengeri (Gicumbi) Filt. Plant	River	-01	31	16.99896	30	10	38.97380	Gicumbi	Gihengeri				
2	Ny06Sr01	Intake (Nyabweshongwezi)	River	-01	03	49.26951	30	24	56.09981	Nyagatare	Matimba				
3	Ny06Sr02	Filt Plant & Tank	River	-01	04	42.02179	30	24	58.74796	Nyagatare	Matimba				
4	Ny09Sr01	Ntoma-Kijijojo	River	-01	09	53.63265	30	20	46.31541	Nyagatare	Musheri				
5	Ny09Sr02	Filt Plant & Tank	River	-01	10	01.77474	30	21	42.46326	Nyagatare	Musheri				
1	Gi00Ss01	Gihengeri	Spring	-01	26	55.89476	30	10	57.69911	Gicumbi	Ghengeri				
*2	Ny05Sr01	Ngoma-B IntakePlant	River	-01	24	43.75728	30	05	26.73229	Nyagatare	Kiyombe			11.8	Improvement Planned
3	Ny05Sr02	Tovu Plant	Spring & River	-01	23	26.17955	30	07	52.93548	Nyagatare	Kiyombe				
4	Ny05Sr03	Kiyombe Intake Plant	Spring & River	-01	26	04.74537	30	06	34.10277	Nyagatare	Kiyombe				
5	Ny05Ss01	Intake F. Cyaganju-Cyondo-Muhambo	Spring	-01	28	51.78550	30	07	59.62403	Nyagatare	Kiyombe	Kabungo	Kabindi	14.22	
1	Ny01Ss01		Spring	-01	25	43.48327	30	10	09.56509	Nyagatare	Gatunda	Nyangara	Ramiro		
2	Ny01Ss02		Spring	-01	26	33.38191	30	09	55.38955	Nyagatare	Gatunda	Nyangara	Ryanyabukwende		
3	Ny01Ss03		Spring	-01	26	11.27461	30	09	53.92034	Nyagatare	Gatunda	Nyangara	Ryanyabukwende		
*4	Ny02Ss01		Spring	-01	22	10.05262	30	08	15.09377	Nyagatare	Karama	Ndego	Rubanda		Replacement Planned
5	Ny02Ss02		Spring	-01	22	08.24303	30	09	09.07145	Nyagatare	Karama	Ndego	Kababanda		
6	Ny04Ss01		Spring	-01	28	14.03103	30	17	08.87905	Nyagatare	Karagazi	Katabegemu	Kagogo		
7	Ny05Ss02	Tovu	Spring	-01	29	18.30075	30	08	23.33905	Nyagatare	Kiyombe	Kabungo	Mataba		
8	Ny05Ss03		Spring	-01	29	19.57533	30	08	22.95281	Nyagatare	Kiyombe	Kabungo	Mataba		
9	Ny05Ss04		Spring	-01	25	46.98083	30	06	23.12697	Nyagatare	Kiyombe	Kabungo	Bitare		
10	Ny05Ss05		Spring	-01	23	26.59022	30	07	52.71429	Nyagatare	Kiyombe	Tovu	Gashuro		
11	Ny05Ss06		Spring	-01	23	31.30112	30	07	42.84953	Nyagatare	Kiyombe	Tovu	Gashuro		
12	Ny05Ss07	Gishuro	Spring	-01	28	02.61981	30	08	25.02703	Nyagatare	Kiyombe	Kajumba	Gishoro		
13	Ny05Ss08		Spring	-01	23	06.45002	30	06	42.66609	Nyagatare	Kiyombe	Karambo	Rwakashande		
14	Ny05Ss09		Spring	-01	24	04.84922	30	07	20.82642	Nyagatare	Kiyombe	Karambo	Rugarama		
15	Ny07Ss01		Spring	-01	28	15.16229	30	14	08.71769	Nyagatare	Mimuli	Bibare	Nyaruziba		
16	Ny07Ss02		Spring	-01	28	32.37855	30	11	03.25068	Nyagatare	Mimuli	Gakoma	Rusororo		
17	Ny07Ss03		Spring	-01	27	06.41915	30	12	30.98647	Nyagatare	Mimuli	Mahoro	Cyambwana		
18	Ny08Ss02		Spring	-01	26	51.24059	30	11	01.19456	Nyagatare	Mukama	Kagina	Cyabahurura		
19	Ny13Ss01		Spring	-01	16	32.89271	30	10	17.80071	Nyagatare	Rwimiyaga	Gishuro	Nyagatare		
20	Ny13Ss02		Spring	-01	19	18.85922	30	10	12.72168	Nyagatare	Rwimiyaga	Shonga	Nyakanoni		
21	Ny13Ss03		Spring	-01	18	42.12798	30	10	29.29130	Nyagatare	Rwimiyaga	Shonga	Nyakanoni		
22	Ny13Ss04		Spring	-01	19	00.45498	30	10	48.68045	Nyagatare	Rwimiyaga	Shonga	Nyakigando		
23	Ny13Ss05		Spring	-01	18	41.20101	30	12	02.04638	Nyagatare	Rwimiyaga	Nyagatoma	Mutungisa		
24	Ny13Ss06		Spring	-01	19	45.45171	30	10	25.64135	Nyagatare	Rwimiyaga	Shonga	Moshonga		
25	Ny13Ss07		Spring	-01	17	14.10432	30	12	28.04020	Nyagatare	Rwimiyaga	Tabagwe	Tabagwe		
1	Ny03Sb01	Karangazi Hp01	Groundwater	-01	23	38.84876	30	23	00.87835	Nyagatare	Karangazi	Mbare	Kajumu		
2	Ny03Sb02	Karangazi Hp02	Groundwater	-01	23	00.64498	30	24	53.97671	Nyagatare	Karangazi	Kamate	Bugarama		
3	Ny03Sb03	Karangazi Hp03	Groundwater	-01	23	30.81772	30	23	19.20233	Nyagatare	Karangazi	Mbare	Mbare		
4	Ny03Sb04	Karangazi Hp04	Groundwater	-01	22	04.72887	30	25	57.65198	Nyagatare	Karangazi	Kamate	Kamate		
5	Ny03Sb05	Karangazi Hp05	Groundwater	-01	25	11.69406	30	23	42.06129	Nyagatare	Karangazi	Kizirakome	Rwiyemera		
6	Ny03Sb06	Karangazi Hp06	Groundwater	-01	24	30.00871	30	24	54.31919	Nyagatare	Karangazi	Ndama	Akanyeli		
7	Ny03Sb07	Karangazi Hp07	Groundwater	-01	24	42.85445	30	25	37.50635	Nyagatare	Karangazi	Ndama	Ndama		

## D2. 東部県の水源一覧

### 2.1 ニャガタレ郡 (2/4)

8	Ny03Sb08	Karangazi Hp08	Groundwater	-01	25	22.19642	30	27	21.78339	Nyagatare	Karangazi	Ndama	Rwaharamba		
9	Ny03Sb09	Karangazi Hp09	Groundwater	-01	24	51.80793	30	28	07.31181	Nyagatare	Karangazi	Nyamirama	Akayange		
10	Ny03Sb10	Karangazi Hp10	Groundwater	-01	24	14.45146	30	23	07.82581	Nyagatare	Karangazi	Rwirabo	Karangazi		
11	Ny03Sb11	Karangazi Hp11	Groundwater	-01	23	15.01576	30	23	43.41614	Nyagatare	Karangazi	Rwisirabo	Gakoma		
12	Ny03Sb12	Karangazi Hp12	Groundwater	-01	20	42.36390	30	27	13.02755	Nyagatare	Karangazi				
13	Ny04Sb01	Katabagemu Hp01	Groundwater	-01	25	22.00541	30	21	56.44297	Nyagatare	Katabagemu	Mbare	Mbare		
14	Ny04Sb02	Katabagemu Hp02	Groundwater	-01	28	15.83851	30	17	06.60175	Nyagatare	Katabagemu	Bayigaburire	Agasasa		
15	Ny04Sb03	Katabagemu Hp03	Groundwater	-01	29	10.69065	30	16	04.11990	Nyagatare	Katabagemu	Bayigaburire	Byimana		
16	Ny04Sb04	Katabagemu Hp04	Groundwater	-01	25	45.90148	30	20	35.32482	Nyagatare	Katabagemu	Kaduha	Nbiyonza		
17	Ny04Sb05	Katabagemu Hp05	Groundwater	-01	27	36.16702	30	17	02.25446	Nyagatare	Katabagemu	Katabagemu	Nyabwunyu		
18	Ny04Sb06	Katabagemu Hp06	Groundwater	-01	27	42.40085	30	19	37.51162	Nyagatare	Katabagemu	Nyakiganda	Byimana		
19	Ny04Sb07	Katabagemu Hp07	Groundwater	-01	28	35.79857	30	18	17.38290	Nyagatare	Katabagemu	Rubira	Igitego		
20	Ny04Sb08	Katabagemu Hp08	Groundwater	-01	28	15.53102	30	18	51.08218	Nyagatare	Katabagemu	Rubira	Isangano		
21	Ny04Sb09	Katabagemu Hp09	Groundwater	-01	26	28.85327	30	18	26.57748	Nyagatare	Katabagemu	Rutoma	Kabeza		
22	Ny04Sb10	Katabagemu Hp10	Groundwater	01	29	59.09111	30	19	02.85761	Nyagatare	Katabagemu	Rubira	Igitego		
23	Ny06Sb01	Matimba Hp01	Groundwater	-01	10	16.65667	30	25	18.65370	Nyagatare	Matimba	Bwera	Ntoma		
24	Ny06Sb02	Matimba Hp02	Groundwater	-01	03	53.14185	30	27	13.24059	Nyagatare	Matimba	Kimbogo	Kabeza		
25	Ny06Sb03	Matimba Hp03	Groundwater	-01	08	44.37654	30	25	45.19761	Nyagatare	Matimba	Bwera	Bwera		
26	Ny06Sb04	Matimba Hp04	Groundwater	-01	08	01.44286	30	26	42.15627	Nyagatare	Matimba	Bwera	Rugaga		
27	Ny06Sb05	Matimba Hp05	Groundwater	-01	03	32.16007	30	27	48.28868	Nyagatare	Matimba	Kagitumba	Muvumba		
28	Ny06Sb06	Matimba Hp06	Groundwater	-01	05	47.31776	30	26	27.12195	Nyagatare	Matimba	Kanyonza	Gakoma		
29	Ny06Sb07	Matimba Hp07	Groundwater	-01	04	18.41027	30	26	58.27567	Nyagatare	Matimba	Kimbogo	Kagera		
30	Ny06Sb08	Matimba Hp08	Groundwater	-01	07	11.50589	30	26	12.25933	Nyagatare	Matimba	Matimba	Rwinyana		
31	Ny06Sb09	Matimba Hp09	Groundwater	-01	03	57.17442	30	24	32.50881	Nyagatare	Matimba	Rwentanga	Kagezi II		
32	Ny06Sb10	Matimba Hp10	Groundwater	-01	03	23.31703	30	27	03.26629	Nyagatare	Matimba	Kagitumba	Muvumba		
33	Ny06Sb11	Matimba Hp11	Groundwater	-01	07	21.02184	30	25	01.49296	Nyagatare	Matimba	Matimba	Matimba IV		
34	Ny06Sb12	Matimba Hp12	Groundwater	-01	05	02.97280	30	24	29.49253	Nyagatare	Matimba	Rwentanga	Kagezi III		
35	Ny06Sb13	Matimba Hp13	Groundwater	-01	04	36.44186	30	24	19.34956	Nyagatare	Matimba	Rwentanga	Kagezi I		
36	Ny09Sb01	Musheri Hp01	Groundwater	-01	08	46.65535	30	22	52.63397	Nyagatare	Musheri	Musheri	Kiyaza		
37	Ny09Sb02	Musheri Hp02	Groundwater	-01	07	45.74650	30	21	00.88956	Nyagatare	Musheri	Kijogo	Kibirizi		
38	Ny09Sb03	Musheri Hp03	Groundwater	-01	04	57.61827	30	23	07.30650	Nyagatare	Musheri	Nyagatare	Gikunyu		
39	Ny09Sb04	Musheri Hp04	Groundwater	-01	05	00.33159	30	22	11.75097	Nyagatare	Musheri	Nyamiyonga	Nyamiyonga		
40	Ny09Sb05	Musheri Hp05	Groundwater	-01	07	41.42245	30	25	03.52192	Nyagatare	Musheri	Rugarama I	Karuca		
41	Ny09Sb06	Musheri Hp06	Groundwater	-01	06	53.06061	30	25	08.26118	Nyagatare	Musheri	Rugarama II	Rebero		
42	Ny09Sb07	Musheri Hp07	Groundwater	-01	06	03.12395	30	24	36.39835	Nyagatare	Musheri	Rugarama	Rwenyana		
43	Ny09Sb08	Musheri Hp08	Groundwater	-01	07	17.88516	30	22	49.75197	Nyagatare	Musheri	Kibirizi	Kibirizi		
44	Ny09Sb09	Musheri Hp09	Groundwater	-01	09	17.43128	30	21	31.73761	Nyagatare	Musheri	Kijojo	Kibirizi		
45	Ny09Sb10	Musheri Hp10	Groundwater	-01	09	48.92055	30	23	31.12079	Nyagatare	Musheri	Kijojo	Kagwegwe		
46	Ny09Sb11	Musheri Hp11	Groundwater	-01	06	40.02085	30	21	23.62299	Nyagatare	Musheri	Nyamiyonga	Cyenore		
47	Ny09Sb12	Musheri Hp12	Groundwater	-01	07	03.55965	30	24	21.23881	Nyagatare	Musheri	Rugarama II	Rwenyana		
48	Ny10Sb01	Nyagatare Hp01	Groundwater	-01	18	08.18821	30	21	58.71091	Nyagatare	Nyagatare	Barija	Barija		
49	Ny10Sb08	Nyagatare Hp08	Groundwater	-01	16	28.37161	30	19	55.98436	Nyagatare	Nyagatare	Nsheke	Nsheke		
50	Ny10Sb09	Nyagatare Hp09	Groundwater	-01	16	54.64576	30	22	09.56209	Nyagatare	Nyagatare	Nsheke	Nyegeza		
51	Ny10Sb10	Nyagatare Hp10	Groundwater	-01	16	38.28918	30	21	37.79431	Nyagatare	Nyagatare	Nsheke	Nyegeza		
52	Ny12Sb01	Rwempasha Hp01	Groundwater	-01	15	29.47241	30	19	34.71743	Nyagatare	Rwempasha	Cyenjojo	Cyenjojo		
53	Ny12Sb02	Rwempasha Hp02	Groundwater	-01	10	59.82029	30	20	54.91977	Nyagatare	Rwempasha	Gasinga	Gasinga		
54	Ny12Sb03	Rwempasha Hp03	Groundwater	-01	11	57.36976	30	23	43.14577	Nyagatare	Rwempasha	Gasinga	Rwibishorogoto		

## D2. 東部県の水源一覧

### 2.1 ニヤガタレ郡 (3/4)

55	Ny12Sb04	Rwempasha Hp04	Groundwater	-01	14	47.21797	30	22	34.76232	Nyagatare	Rwemphasha	Kabare	Gituro		
56	Ny12Sb05	Rwempasha Hp05	Groundwater	-01	14	42.21618	30	23	41.33045	Nyagatare	Rwemphasha	Kabare	Gituro		
57	Ny12Sb06	Rwempasha Hp06	Groundwater	-01	09	08.83477	30	18	55.95843	Nyagatare	Rwemphasha	Kazaza	Rukiri		
58	Ny12Sb07	Rwempasha Hp07	Groundwater	-01	13	24.21540	30	16	34.42148	Nyagatare	Rwemphasha	Ryeru	Ryeru		
59	Ny12Sb08	Rwempasha Hp08	Groundwater	-01	14	19.81437	30	18	52.82990	Nyagatare	Rwemphasha	Cyenjojo	Cyenjojo		
60	Ny12Sb09	Rwempasha Hp09	Groundwater	-01	12	03.64613	30	17	26.54431	Nyagatare	Rwemphasha	Cyeru	Cyeru		
61	Ny12Sb10	Rwempasha Hp10	Groundwater	-01	12	33.61821	30	17	35.54366	Nyagatare	Rwemphasha	Cyeru	Cyeru		
62	Ny12Sb11	Rwempasha Hp11	Groundwater	-01	12	46.53787	30	23	30.01368	Nyagatare	Rwemphasha	Gasinga	Nyendo		
63	Ny12Sb12	Rwempasha Hp12	Groundwater	-01	14	12.22479	30	21	40.26412	Nyagatare	Rwemphasha	Kabare	Gituro		
64	Ny12Sb13	Rwempasha Hp13	Groundwater	-01	08	05.35654	30	19	53.60447	Nyagatare	Rwemphasha	Kazaza	Gakindo		
65	Ny12Sb14	Rwempasha Hp14	Groundwater	-01	11	15.48224	30	20	10.85000	Nyagatare	Rwemphasha	Kazaza	Kazaza		
66	Ny12Sb15	Rwempasha Hp15	Groundwater	-01	14	48.62774	30	15	53.53818	Nyagatare	Rwemphasha	Mishenyi	Mishenyi		
67	Ny12Sb16	Rwempasha Hp16	Groundwater	-01	14	27.96400	30	16	07.15307	Nyagatare	Rwemphasha	Mishenyi	Mishenyi		
68	Ny12Sb17	Rwempasha Hp17	Groundwater	-01	09	48.71385	30	18	59.31870	Nyagatare	Rwemphasha	Rugarama	Bubare		
69	Ny12Sb18	Rwempasha Hp18	Groundwater	-01	14	16.55066	30	17	56.67089	Nyagatare	Rwemphasha	Rukorota	Bukonje		
70	Ny12Sb19	Rwempasha Hp19	Groundwater	-01	14	18.65566	30	19	35.39334	Nyagatare	Rwemphasha	Rukorota	Rukorota		
71	Ny12Sb20	Rwempasha Hp20	Groundwater	-01	13	12.95656	30	20	00.96231	Nyagatare	Rwemphasha	Rukorota	Rukorota		
72	Ny12Sb21	Rwempasha Hp21	Groundwater	-01	12	16.00575	30	19	04.30118	Nyagatare	Rwemphasha	Rwempasha	Uwinkiko		
73	Ny12Sb22	Rwempasha Hp22	Groundwater	-01	11	43.17551	30	17	55.08731	Nyagatare	Rwemphasha	Rugarama	Rugarama		
74	Ny13Sb01	Rwimiyaga Hp01	Groundwater	-01	12	54.33988	30	25	21.32750	Nyagatare	Rwimiyaga	Rwimiyaga	Rebero		
75	Ny13Sb02	Rwimiyaga Hp02	Groundwater	-01	18	18.62539	30	25	00.06509	Nyagatare	Rwimiyaga	Gacundezi	Gacundezi II		
76	Ny13Sb03	Rwimiyaga Hp03	Groundwater	-01	18	11.03581	30	25	50.56572	Nyagatare	Rwimiyaga	Gacundezi	Gacundezi II		
77	Ny13Sb04	Rwimiyaga Hp04	Groundwater	-01	18	03.73591	30	24	36.83256	Nyagatare	Rwimiyaga	Gacundezi	Gacundezi II		
78	Ny13Sb05	Rwimiyaga Hp05	Groundwater	-01	17	28.02820	30	25	25.80786	Nyagatare	Rwimiyaga	Gacundezi	Rukundo I		
79	Ny13Sb06	Rwimiyaga Hp06	Groundwater	-01	17	45.52478	30	25	30.90620	Nyagatare	Rwimiyaga	Gacundezi	Gacundezi I		
80	Ny13Sb07	Rwimiyaga Hp07	Groundwater	-01	14	27.19152	30	25	40.71665	Nyagatare	Rwimiyaga	Kabeza			
81	Ny13Sb08	Rwimiyaga Hp08	Groundwater	-01	15	47.00762	30	25	31.60143	Nyagatare	Rwimiyaga	Kabeza	Gatovu		
82	Ny13Sb09	Rwimiyaga Hp09	Groundwater	-01	14	27.15290	30	26	03.00259	Nyagatare	Rwimiyaga	Kabeza	Rukiri I		
83	Ny13Sb10	Rwimiyaga Hp10	Groundwater	-01	15	49.28643	30	25	42.30022	Nyagatare	Rwimiyaga	Kabeza	Rukiri II		
84	Ny13Sb11	Rwimiyaga Hp11	Groundwater	-01	18	29.49799	30	26	35.91007	Nyagatare	Rwimiyaga	Kirebe	Rukindo		
85	Ny13Sb12	Rwimiyaga Hp12	Groundwater	-01	18	24.18722	30	28	06.34772	Nyagatare	Rwimiyaga	Kirebe	Rukindo		
86	Ny13Sb14	Rwimiyaga Hp14	Groundwater	-01	19	02.71447	30	28	21.89381	Nyagatare	Rwimiyaga	Kirebe	Gatebe I		
87	Ny13Sb15	Rwimiyaga Hp15	Groundwater	-01	19	38.57668	30	33	01.43363	Nyagatare	Rwimiyaga	Kirebe	Gatebe II		
88	Ny13Sb16	Rwimiyaga Hp16	Groundwater	-01	16	36.63922	30	28	32.01324	Nyagatare	Rwimiyaga	Kirebe	Kirebe		
89	Ny13Sb17	Rwimiyaga Hp17	Groundwater	-01	18	26.06047	30	26	40.93117	Nyagatare	Rwimiyaga	Kirebe	Rukindo		
90	Ny13Sb18	Rwimiyaga Hp18	Groundwater	-01	12	34.02376	30	26	07.81125	Nyagatare	Rwimiyaga	Ntoma	Gashweno		
91	Ny13Sb19	Rwimiyaga Hp19	Groundwater	-01	12	41.16916	30	25	34.90376	Nyagatare	Rwimiyaga	Ntoma	Gashweno		
92	Ny13Sb20	Rwimiyaga Hp20	Groundwater	-01	18	22.91263	30	22	25.64710	Nyagatare	Rwimiyaga	Nyarupfubire	Kamagiri		
93	Ny13Sb21	Rwimiyaga Hp21	Groundwater	-01	14	59.42309	30	23	42.21880	Nyagatare	Rwimiyaga	Nyarupfubire	Nyakagando II		
94	Ny13Sb22	Rwimiyaga Hp22	Groundwater	-01	13	23.77123	30	23	58.96222	Nyagatare	Rwimiyaga	Nyarupfubire	Rwimiyaga		
95	Ny13Sb23	Rwimiyaga Hp23	Groundwater	-01	17	08.96735	30	22	34.26021	Nyagatare	Rwimiyaga	Nyarupfubire	Kamagiri		
96	Ny13Sb24	Rwimiyaga Hp24	Groundwater	-01	14	34.49142	30	24	00.85479	Nyagatare	Rwimiyaga	Nyarupfubire	Nyakanganso II		
97	Ny13Sb25	Rwimiyaga Hp25	Groundwater	-01	16	58.96378	30	23	33.56707	Nyagatare	Rwimiyaga	Nyarupfubire	Nyarupfubire		
98	Ny13Sb26	Rwimiyaga Hp26	Groundwater	-01	13	49.86161	30	23	05.56480	Nyagatare	Rwimiyaga	Nyarupfubire	Rwimiyaga		
99	Ny13Sb27	Rwimiyaga Hp27	Groundwater	-01	13	09.98253	30	29	41.65167	Nyagatare	Rwimiyaga	Rutungo	Gahagati I		
100	Ny13Sb28	Rwimiyaga Hp28	Groundwater	-01	11	59.03059	30	28	55.97932	Nyagatare	Rwimiyaga	Rutungo	Gahagati II		
101	Ny13Sb29	Rwimiyaga Hp29	Groundwater	-01	12	41.53609	30	29	25.95140	Nyagatare	Rwimiyaga	Rutungo	Gahagati II		

## D2. 東部県の水源一覧

### 2.1 ニヤガタレ郡 (4/4)

102	Ny13Sb30	Rwimiyaga Hp30	Groundwater	-01	11	41.66918	30	27	06.77050	Nyagatare	Rwimiyaga	Rutungu	Bwera		
103	Ny14Sb1	Tabagwe Hp01	Groundwater	-01	17	18.33362	30	14	04.54179	Nyagatare	Tabagwe	Nyabitekeri	Kangoma		
104	Ny14Sb2	Tabagwe Hp02	Groundwater	-01	18	26.58189	30	26	11.51756	Nyagatare	Tabagwe	Nyabitekeri	Kabirizi I		
105	Ny14Sb3	Tabagwe Hp03	Groundwater	-01	18	59.79837	30	15	25.42005	Nyagatare	Tabagwe	Nyabitekeri II			
106	Ny14Sb4	Tabagwe Hp04	Groundwater	-01	15	18.52256	30	14	04.34867	Nyagatare	Tabagwe	Tabagwe	Kararama		
107	Ny14Sb5	Tabagwe Hp05	Groundwater	-01	17	32.45062	30	18	55.80394	Nyagatare	Tabagwe	Gitengure	Nshuli		
108	Ny14Sb6	Tabagwe Hp06	Groundwater	-01	17	35.73365	30	17	01.40021	Nyagatare	Tabagwe	Gitengure	Gitengure		
109	Ny14Sb7	Tabagwe Hp07	Groundwater	-01	18	50.14242	30	13	18.07734	Nyagatare	Tabagwe	Nkoma	Mutugo		
110	Ny14Sb8	Tabagwe Hp08	Groundwater	-01	17	48.40226	30	14	59.32966	Nyagatare	Tabagwe	Nyabitekeri	Kamata		
111	Ny14Sb9	Tabagwe Hp09	Groundwater	-01	17	45.50547	30	14	12.34380	Nyagatare	Tabagwe	Nyabitekeri	Munini		
112	Ny14Sb10	Tabagwe Hp10	Groundwater	-01	19	15.47964	30	12	32.38538	Nyagatare	Tabagwe	Nyagatoma	Runyeri		
113	Ny14Sb11	Tabagwe Hp11	Groundwater	-01	19	25.86944	30	11	17.18482	Nyagatare	Tabagwe	Gashonga	Rwubuzizi		
114	Ny14Sb12	Tabagwe Hp12	Groundwater	-01	17	50.75831	30	18	20.54040	Nyagatare	Tabagwe	Gitengure	Nshuli		
115	Ny14Sb13	Tabagwe Hp13	Groundwater	-01	16	58.01750	30	15	15.30061	Nyagatare	Tabagwe	Gitengure	Nyagasigati		
116	Ny14Sb14	Tabagwe Hp14	Groundwater	-01	16	23.39125	30	16	56.63017	Nyagatare	Tabagwe	Gitengure	Bitibyoma		
117	Ny14Sb15	Tabagwe Hp15	Groundwater	-01	19	53.87170	30	14	42.81798	Nyagatare	Tabagwe	Nkoma	Bibare		
118	Ny14Sb16	Tabagwe Hp16	Groundwater	-01	17	47.97740	30	15	38.78388	Nyagatare	Tabagwe	Nyabitekeri	Kabeza		



D2. 東部県の水源一覧

2.2 ガツィボ郡 (1/7)

No	Source Code No.	Name of Source	Type	Latitude			Longitude			Location				Discharge (lit/s)	Note
				°	'	"	°	'	"	District	Secteur	Cell	Umudugudu		
1	Ga01Ss03		Spring	-01	45	09.03367	30	19	12.25010	Gatsibo	Gasange	Gakoni			
2	Ga01Ss04		Spring	-01	44	49.14181	30	18	55.54564	Gatsibo	Gasange	Nyakagezi			
3	Ga01Ss05		Spring	-01	46	47.98606	30	18	45.93767	Gatsibo	Gasange	Gasigati		4	
4	Ga01Ss06		Spring	-01	45	25.51035	30	17	58.15549	Gatsibo	Gasange			3	
5	Ga01Ss07		Spring	?	?	?	?	?	?	Gatsibo	Gasange			4	
6	Ga02Ss01		Spring	-01	35	27.13882	30	16	58.09788	Gatsibo	Gatsibo	Nyabicwamba	Rucumbo		
7	Ga02Ss02		Spring	-01	36	04.66185	30	14	59.15586	Gatsibo	Gatsibo	Nyagahanga	Nyakagarama		
8	Ga02Ss03		Spring	-01	37	45.19963	30	13	21.57280	Gatsibo	Gatsibo	Nyagahanga	Rugarama		
9	Ga02Ss04		Spring	-01	35	33.37657	30	13	43.89736	Gatsibo	Gatsibo	Gatsibo	Hanika		
10	Ga02Ss05		Spring	-01	36	21.69495	30	14	09.83325	Gatsibo	Gatsibo	Gatsibo	Nyarukoni		
11	Ga02Ss06		Spring	-01	36	23.16266	30	14	01.39395	Gatsibo	Gatsibo	Gatsibo	Nyarukoni		
12	Ga02Ss07		Spring	-01	36	18.87541	30	13	40.69159	Gatsibo	Gatsibo	Gatsibo	Nyarukoni		
13	Ga02Ss08		Spring	-01	36	12.73423	30	13	21.86248	Gatsibo	Gatsibo	Gatsibo	Yarukoni		
14	Ga02Ss09		Spring	-01	35	54.42654	30	16	44.32849	Gatsibo	Gatsibo	Kaduha	Ryabakame		
15	Ga02Ss10		Spring	-01	35	04.50527	30	15	45.46580	Gatsibo	Gatsibo	Nyabicwamba	Gatoma		
16	Ga02Ss11		Spring	-01	36	55.33629	30	12	41.15298	Gatsibo	Gatsibo	Nyagahanga	Kizinga		
17	Ga02Ss12		Spring	-01	36	56.95849	30	12	39.78184	Gatsibo	Gatsibo	Nyagahanga	Kizinga		
18	Ga02Ss13		Spring	-01	35	49.28958	30	12	53.86022	Gatsibo	Gatsibo	Nyagahanga	Mangarama		
19	Ga02Ss14		Spring	-01	36	47.03217	30	13	16.84138	Gatsibo	Gatsibo	Nyagahanga	Nyagahanga		
20	Ga02Ss15		Spring	-01	37	24.13034	30	13	21.49525	Gatsibo	Gatsibo	Nyagahanga	Nyagahanga		
21	Ga02Ss16		Spring	-01	38	19.55551	30	13	49.24676	Gatsibo	Gatsibo	Nyagahanga	Nyakibande		
22	Ga02Ss17		Spring	-01	37	52.44159	30	13	33.48825	Gatsibo	Gatsibo	Nyagahanga	Rugarama		
23	Ga02Ss18		Spring	-01	35	59.48626	30	13	14.44671	Gatsibo	Gatsibo	Gatsibo	Nyarukoni		
24	Ga02Ss19		Spring	-01	38	01.24812	30	14	02.75212	Gatsibo	Gatsibo	Manishya	Manishya		
25	Ga02Ss20		Spring	-01	38	42.43408	30	14	39.02621	Gatsibo	Gatsibo	Manishya	Nyagaruhanga		
26	Ga02Ss21		Spring	-01	36	37.92389	30	13	23.95933	Gatsibo	Gatsibo	Manishya	Nyarukoni		
27	Ga02Ss22		Spring	-01	37	48.23401	30	14	36.69611	Gatsibo	Gatsibo	Manishya	Rugarama		
28	Ga02Ss23		Spring	-01	36	49.36016	30	14	08.03875	Gatsibo	Gatsibo	Mugera	Kabuga		
29	Ga02Ss24		Spring	-01	36	07.46540	30	17	09.23662	Gatsibo	Gatsibo	Mugera	Kamasapfu		
30	Ga02Ss25		Spring	-01	36	04.70470	30	14	59.21681	Gatsibo	Gatsibo	Mugera	Kavumu		
31	Ga02Ss26		Spring	-01	36	22.46954	30	14	13.29642	Gatsibo	Gatsibo	Mugera	Nyarukoni		
32	Ga02Ss27		Spring	-01	34	25.26348	30	15	12.30726	Gatsibo	Gatsibo	Nyabicwamba	Rutovu		
33	Ga02Ss28		Spring	-01	35	51.62632	30	12	27.01667	Gatsibo	Gatsibo	Nyagahanga	Karama		
34	Ga02Ss29		Spring	-01	38	47.51915	30	13	38.49003	Gatsibo	Gatsibo	Nyagahanga	Nyakibande		
35	Ga03Ss01		Spring	-01	40	28.38673	30	19	40.35469	Gatsibo	Gitoki	Cyabusheshe	Biunga		
36	Ga03Ss02		Spring	-01	40	03.25259	30	21	27.57409	Gatsibo	Gitoki	Cyabusheshe	Nyarunazi		
37	Ga03Ss03		Spring	-01	38	10.83498	30	20	07.02473	Gatsibo	Gitoki	Karubungo	Gisharara		
38	Ga03Ss04		Spring	-01	38	10.70553	30	20	06.87899	Gatsibo	Gitoki	Karubungo	Gisharara		
39	Ga03Ss05		Spring	-01	36	59.03814	30	20	29.55690	Gatsibo	Gitoki	Karubungo	Rwamuhinga		
40	Ga03Ss06		Spring	-01	37	52.42138	30	17	53.83837	Gatsibo	Gitoki	Mpondwa	Bwiza		

D2. 東部県の水源一覧

2.2 ガツィボ郡 (2/7)

41	Ga03Ss07		Spring	-01	40	07.50393	30	17	33.72261	Gatsibo	Gitoki	Mpondwa	Gahama		
42	Ga03Ss08		Spring	-01	38	51.86312	30	18	24.64086	Gatsibo	Gitoki	Mpondwa	Nyaruhanga		
43	Ga03Ss09		Spring	-01	38	41.68031	30	20	00.93786	Gatsibo	Gitoki	Nyamirama	Akagarama		
44	Ga03Ss10		Spring	-01	37	32.83609	30	21	00.05462	Gatsibo	Gitoki	Nyamirama	Rukiri		
45	Ga03Ss11		Spring	-01	38	57.82265	30	20	08.03710	Gatsibo	Gitoki	Nyamirama	Akagarama		
46	Ga03Ss12		Spring	-01	37	37.48754	30	22	03.49242	Gatsibo	Gitoki	Nyamirama	Kitenko		
47	Ga03Ss13		Spring	-01	37	42.60127	30	22	12.45375	Gatsibo	Gitoki	Nyamirama	Kitenko		
48	Ga03Ss14		Spring	-01	37	56.45817	30	21	32.00285	Gatsibo	Gitoki	Nyamirama	Minago		
49	Ga03Ss15		Spring	-01	38	31.88646	30	20	02.73387	Gatsibo	Gitoki	Nyamirama	Nyamuraza		
50	Ga03Ss16		Spring	-01	36	12.74539	30	17	42.23735	Gatsibo	Gitoki	Rubira	Gikuyu		
51	Ga03Ss17		Spring	-01	35	59.85138	30	17	39.75758	Gatsibo	Gitoki	Rubira	Kavumu		
52	Ga03Ss18		Spring	-01	36	55.11813	30	17	42.51888	Gatsibo	Gitoki	Rubira	Nyakarama		
53	Ga04Ss01		Spring	-01	37	03.62532	30	14	01.55847	Gatsibo	Kabarore	Karenge	Nyarubuye		
54	Ga04Ss02		Spring	-01	37	04.11084	30	24	02.44681	Gatsibo	Kabarore	Karenge	Nyarubuye		
55	Ga05Ss01	Nyakagezi I	Spring	-01	37	21.42607	30	15	41.81615	Gatsibo	Kageyo				3
56	Ga05Ss02	Nyakagezi II	Spring	?	?	?	?	?	?	Gatsibo	Kageyo				1.7
57	Ga05Ss03	Nyakabingo	Spring	?	?	?	?	?	?	Gatsibo	Kageyo				3
58	Ga05Ss05		Spring	-01	39	32.16827	30	14	52.80224	Gatsibo	Kageyo	Kintu	Gakeri		
59	Ga05Ss06		Spring	-01	40	05.75167	30	14	38.78180	Gatsibo	Kageyo	Kintu	Rutoma		
60	Ga05Ss07		Spring	-01	40	06.21516	30	14	37.44927	Gatsibo	Kageyo	Kintu	Rutoma		
61	Ga05Ss08		Spring	-01	40	17.82161	30	15	28.95412	Gatsibo	Kageyo	Kintu	Rutoma		
62	Ga05Ss09		Spring	-01	40	26.18367	30	15	34.09109	Gatsibo	Kageyo	Kintu	Rutoma		
63	Ga05Ss10		Spring	-01	40	48.75929	30	16	16.44210	Gatsibo	Kageyo	Nyagisozi	Kageyo		
64	Ga05Ss11		Spring	-01	40	45.70800	30	16	04.17904	Gatsibo	Kageyo	Nyagisozi	Kashango		
65	Ga05Ss12		Spring	-01	40	34.14017	30	15	51.22075	Gatsibo	Kageyo				
66	Ga05Ss13	NKG (Gahama)	Spring	-01	39	59.30150	30	15	27.15812	Gatsibo	Kageyo				(2.28)
67	Ga05Ss14		Spring	-01	40	44.12443	30	16	22.73778	Gatsibo	Kageyo				
68	Ga05Ss15		Spring	-01	39	30.19091	30	16	52.06985	Gatsibo	Kageyo				
69	Ga05Ss16		Spring	-01	38	34.65832	30	16	18.06792	Gatsibo	Kageyo				
70	Ga05Ss17		Spring	-01	39	44.61027	30	16	36.97578	Gatsibo	Kageyo				
71	Ga05Ss18		Spring	-01	37	18.80538	30	15	34.87564	Gatsibo	Kageyo				
72	Ga05Ss19		Spring	-01	37	27.58204	30	17	48.40267	Gatsibo	Kageyo				
73	Ga05Ss20	NKG (Kaniya)	Spring	-01	38	34.12664	30	15	22.73780	Gatsibo	Kageyo				(2.28)
74	Ga05Ss21	NKG (Nyakagera)	Spring	-01	38	34.03853	30	15	24.11287	Gatsibo	Kageyo				(2.28)
75	Ga05Ss22		Spring	-01	38	36.27630	30	16	34.99299	Gatsibo	Kageyo	Busetsa	Rugarama		
76	Ga05Ss23		Spring	-01	31	46.11866	30	16	58.10934	Gatsibo	Kageyo	Gituza	Gisiza		
77	Ga06Ss01		Spring	-01	47	11.50163	30	26	39.37052	Gatsibo	Kiramuruzi	Kagina			
78	Ga06Ss02		Spring	-01	47	32.66868	30	24	43.64001	Gatsibo	Kiramuruzi	Kidobogo			
79	Ga07Ss01		Spring	-01	44	33.29880	30	23	22.82965	Gatsibo	Kiziguro	Ndatemwa	Akabagendo		
80	Ga07Ss02		Spring	-01	44	17.98446	30	24	55.95165	Gatsibo	Kiziguro	Ndatemwa	Mataba		
81	Ga07Ss03	Akabuye	Spring	-01	44	20.43708	30	26	44.46525	Gatsibo	Kiziguro	Mbogo	Akabuye		

D2. 東部県の水源一覧

2.2 ガツィボ郡 (3/7)

82	Ga07Ss04		Spring	-01	44	00.77756	30	25	05.87797	Gatsibo	Kiziguro	Ndatemwa	Karambo		
83	Ga07Ss05		Spring	-01	44	50.29328	30	25	05.93591	Gatsibo	Kiziguro	Ndatemwa	Mishunzi		
84	Ga07Ss06		Spring	-01	46	42.24741	30	24	38.40226	Gatsibo	Kiziguro	Rubona	Rubira		
85	Ga07Ss07		Spring	-01	45	40.27702	30	24	28.45935	Gatsibo	Kiziguro	Agakomeye	Akingondo		
86	Ga07Ss08		Spring	-01	45	52.90761	30	24	12.89546	Gatsibo	Kiziguro	Agakomeye	Akingondo		
87	Ga07Ss09		Spring	-01	45	50.72174	30	24	13.36739	Gatsibo	Kiziguro	Agakomeye	Akingondo		
88	Ga07Ss10		Spring	-01	45	49.34969	30	24	12.04785	Gatsibo	Kiziguro	Agakomeye	Akingondo		
89	Ga07Ss11		Spring	-01	45	01.67101	30	25	09.06685	Gatsibo	Kiziguro	Agakomeye	Bishenyi		
90	Ga07Ss12		Spring	-01	45	18.28317	30	24	52.01685	Gatsibo	Kiziguro	Agakomeye	Bishenyi		
91	Ga07Ss13		Spring	-01	44	30.66213	30	23	21.20413	Gatsibo	Kiziguro	Ndatemwa	Akabagendo		
92	Ga07Ss14		Spring	-01	44	00.80351	30	25	05.85262	Gatsibo	Kiziguro	Ndatemwa	Akarambo		
93	Ga07Ss15		Spring	-01	43	56.83310	30	25	09.11845	Gatsibo	Kiziguro	Ndatemwa	Akarambo		
94	Ga07Ss16		Spring	-01	45	18.98504	30	24	39.65935	Gatsibo	Kiziguro	Ndatemwa	Bishenyi		
95	Ga07Ss17		Spring	-01	45	16.36345	30	23	49.66776	Gatsibo	Kiziguro	Ndatemwa	Gorora		
96	Ga07Ss18		Spring	-01	44	00.78208	30	25	05.86892	Gatsibo	Kiziguro	Ndatemwa	Karambo		
97	Ga07Ss19		Spring	-01	43	56.91759	30	25	09.25212	Gatsibo	Kiziguro	Ndatemwa	Karambo		
98	Ga07Ss20		Spring	-01	45	09.89486	30	25	25.51033	Gatsibo	Kiziguro	Ndatemwa	Mishunzi		
99	Ga07Ss21		Spring	-01	44	56.41757	30	24	25.59334	Gatsibo	Kiziguro	Ndatemwa	Rukungu		
100	Ga07Ss22		Spring	-01	47	11.48835	30	26	39.36479	Gatsibo	Kiziguro	Rubona	Rubindi		
101	Ga07Ss23		Spring	-01	47	12.63862	30	26	43.67617	Gatsibo	Kiziguro	Rubona	Rubindi		
102	Ga07Ss24		Spring	-01	46	57.23164	30	24	22.97808	Gatsibo	Kiziguro	Rubona	Rubira		
103	Ga07Ss25		Spring	-01	45	20.14949	30	25	58.07805	Gatsibo	Kiziguro	Mbogo	Ryamuhuzi		
104	Ga08Ss01	Kibira-Mpasha	Spring	-01	43	20.60427	30	15	19.80149	Gatsibo	Muhura			4.6	
105	Ga08Ss02	Cyahafi-Gakenke	Spring	-01	44	45.69041	30	18	44.55988	Gatsibo	Muhura				
106	Ga08Ss03		Spring	-01	43	21.99291	30	16	47.02796	Gatsibo	Muhura	Gatare			
107	Ga08Ss04	Rwasama	Spring	-01	43	53.84036	30	17	51.49198	Gatsibo	Muhura	Rwasama		7	
108	Ga09Ss02	Byimana	Spring	-01	47	31.21637	30	20	59.43272	Gatsibo	Murambi	Byimana			
109	Ga09Ss03		Spring	-01	47	29.19314	30	20	03.69494	Gatsibo	Murambi	Rwimondo	Kadogo		
110	Ga09Ss04		Spring	-01	47	27.54741	30	20	29.02552	Gatsibo	Murambi	Ngaruye			
111	Ga09Ss05		Spring	-01	50	02.85495	30	19	54.85461	Gatsibo	Murambi	Nyakariba			
112	Ga10Ss01		Spring	-01	33	40.73022	30	15	34.07178	Gatsibo	Ngarama	Nyarubungo	Rwiri		
113	Ga10Ss02		Spring	-01	31	39.68321	30	16	27.58507	Gatsibo	Ngarama	Kigasha	Cyabahima		
114	Ga10Ss03		Spring	-01	33	39.12734	30	15	22.63913	Gatsibo	Ngarama	Ngarama	Kabeho		
115	Ga10Ss04		Spring	-01	32	51.07932	30	14	03.61482	Gatsibo	Ngarama	Ngarama	Rugarama		
116	Ga10Ss05		Spring	-01	33	46.60104	30	15	46.21897	Gatsibo	Ngarama	Nyarubungo	Rwiri		
117	Ga10Ss06		Spring	-01	33	35.92156	30	15	28.52926	Gatsibo	Ngarama	Nyarubungo	Rwiri		
118	Ga11Ss01	Mashyoza	Spring	?	?	?	?	?	?	Gatsibo	Nyagihanga			10	
119	Ga11Ss02	Gahama-Ngarama	Spring	?	?	?	?	?	?	Gatsibo	Nyagihanga			5	
120	Ga11Ss04	Gatoki-Byimana	Spring	?	?	?	?	?	?	Gatsibo	Nyagihanga				
121	Ga11Ss05	Mpashani-Bugamba	Spring	?	?	?	?	?	?	Gatsibo	Nyagihanga				
122	Ga11Ss07		Spring	-01	34	16.72490	30	12	10.55538	Gatsibo	Nyagihanga	Nyamirama	Rugarama		

## D2. 東部県の水源一覧

## 2.2 ガツィボ郡 (4/7)

123	Ga11Ss08		Spring	-01	32	31.35462	30	10	34.49797	Gatsibo	Nyagihanga	Murambi	Birembo		
124	Ga11Ss09		Spring	-01	31	17.72165	30	10	48.78546	Gatsibo	Nyagihanga	Murambi	Kabeza		
125	Ga11Ss10		Spring	-01	32	16.26146	30	10	42.59448	Gatsibo	Nyagihanga	Murambi	Kabeza		
126	Ga11Ss11		Spring	-01	32	42.61286	30	10	38.24055	Gatsibo	Nyagihanga	Murambi	Kagarama		
127	Ga11Ss12	Gashure	Spring	-01	32	44.51840	30	10	32.69079	Gatsibo	Nyagihanga	Murambi	Kagarama		
128	Ga11Ss13		Spring	-01	34	33.51026	30	10	56.24015	Gatsibo	Nyagihanga	Murambi	Kanyinya		
129	Ga11Ss14	Kaniya	Spring	-01	35	17.77828	30	11	06.42930	Gatsibo	Nyagihanga	Murambi	Kanyinya		
130	Ga11Ss15		Spring	-01	33	48.85179	30	10	05.39372	Gatsibo	Nyagihanga	Murambi	Rukoma		
131	Ga11Ss16		Spring	-01	32	29.16332	30	10	53.41911	Gatsibo	Nyagihanga	Murambi	Umugamba		
132	Ga11Ss17		Spring	-01	35	58.39514	30	12	32.97198	Gatsibo	Nyagihanga	Nyamirama	Burembo		
133	Ga11Ss18	Rwobe 1	Spring	-01	35	48.53641	30	11	36.31537	Gatsibo	Nyagihanga	Nyamirama	Butumba		
134	Ga11Ss19		Spring	-01	36	04.62262	30	11	06.15440	Gatsibo	Nyagihanga	Nyamirama	Kabuga		
135	Ga11Ss20		Spring	-01	37	15.33316	30	11	31.33441	Gatsibo	Nyagihanga	Nyamirama	Rugogwe		
136	Ga11Ss21	Rwobe 2	Spring	-01	37	00.43976	30	11	25.66244	Gatsibo	Nyagihanga	Nyamirama	Rugogwe		
137	Ga11Ss22		Spring	-01	36	38.65895	30	11	24.62956	Gatsibo	Nyagihanga	Nyamirama	Rugogwe		
138	Ga11Ss23		Spring	-01	33	45.53738	30 13	13	58.46578	Gatsibo	Nyagihanga	Gitinda	Isangano		
139	Ga11Ss24		Spring	-01	32	25.42406	30 13	13	52.12031	Gatsibo	Nyagihanga	Gitinda	Kabuye		
140	Ga11Ss25		Spring	-01	32	44.61767	30 13	13	42.30926	Gatsibo	Nyagihanga	Gitinda	Kabuye		
141	Ga11Ss26		Spring	-01	34	29.33859	30 13	13	36.26373	Gatsibo	Nyagihanga	Gitinda	Kinarama		
142	Ga11Ss27		Spring	-01	33	30.84766	30 12	12	50.18462	Gatsibo	Nyagihanga	Gitinda	Mayangerweza		
143	Ga11Ss28		Spring	-01	34	49.31917	30 13	13	36.23476	Gatsibo	Nyagihanga	Gitinda	Nyabukingi		
144	Ga11Ss29		Spring	-01	31	52.49575	30 13	13	24.63856	Gatsibo	Nyagihanga	Mayange	Mataba		
145	Ga11Ss30	Karama	Spring	-01	32	53.63000	30 13	13	10.08282	Gatsibo	Nyagihanga	Mayange	Rweza	3	
146	Ga11Ss31		Spring	-01	31	30.36400	30 12	12	42.28213	Gatsibo	Nyagihanga	Nyagitabire	Byimana		
147	Ga11Ss32		Spring	-01	30	42.88327	30 12	12	21.24935	Gatsibo	Nyagihanga	Nyagitabire	Kamurara		
148	Ga12Ss02		Spring	-01	40	36.51976	30	17	46.20806	Gatsibo	Remera	Kigabiro	Byimana		
149	Ga12Ss03		Spring	-01	40	21.20120	30	18	45.31757	Gatsibo	Remera	Nyagakombe	Runyinya		
150	Ga12Ss04		Spring	-01	45	11.01495	30	19	57.37029	Gatsibo	Remera	Rwarenga	Nyarubuye		
151	Ga12Ss05		Spring	-01	45	19.10664	30	19	17.85813	Gatsibo	Remera	Rwarenga	Nyarubuye		
152	Ga12Ss06		Spring	-01	44	45.27218	30	21	02.10380	Gatsibo	Remera	Rwarenga	Nyarubuye		
153	Ga12Ss07		Spring	-01	42	17.78204	30	18	10.94600	Gatsibo	Remera	Butiruka	Kerekezo		
154	Ga12Ss08		Spring	-01	42	53.23719	30	18	26.67857	Gatsibo	Remera	Butiruka	Kerekezo		
155	Ga12Ss09		Spring	-01	41	50.30572	30	24	48.96104	Gatsibo	Remera	Kanyangese			
156	Ga12Ss10		Spring	-01	39	23.62366	30	18	09.18862	Gatsibo	Remera	Kigabiro	Byimana		
157	Ga12Ss11		Spring	-01	41	27.65920	30	19	18.53345	Gatsibo	Remera	Kigabiro	Nyagakombe		
158	Ga12Ss12		Spring	-01	39	17.46135	30	18	38.03336	Gatsibo	Remera	Kigabiro	Kanyinya		
159	Ga12Ss13		Spring	-01	40	28.46519	30	19	40.28559	Gatsibo	Remera	Rwakarugu	Akabuga		
160	Ga13Ss02		Spring	-01	41	40.69141	30	26	06.31669	Gatsibo	Rugarama	Matunguru	Nyabagendwa		
161	Ga13Ss03		Spring	-01	41	27.05479	30	23	06.64627	Gatsibo	Rugarama	Matare	Gitsimba		
162	Ga13Ss04		Spring	-01	41	15.40971	30	23	55.67920	Gatsibo	Rugarama	Gihuta	Gashenyi		
163	Ga13Ss05		Spring	-01	41	39.01095	30	23	47.97375	Gatsibo	Rugarama	Gihuta	Nyagahanga		

D2. 東部県の水源一覧

2.2 ガツィボ郡 (5/7)

164	Ga13Ss06		Spring	-01	41	17.72714	30	22	25.14469	Gatsibo	Rugarama	Matare	Gakenyero		
165	Ga13Ss07		Spring	-01	42	07.72566	30	23	10.58590	Gatsibo	Rugarama	Matare	Kabana		
166	Ga13Ss08		Spring	-01	40	18.43959	30	21	51.31053	Gatsibo	Rugarama	Matare	Nyagatare		
167	Ga13Ss09		Spring	-01	40	00.26709	30	22	10.13964	Gatsibo	Rugarama	Matare	Nyarusambu		
168	Ga13Ss10		Spring	-01	40	39.02609	30	22	55.52261	Gatsibo	Rugarama	Matare	Matare		
169	Ga13Ss11		Spring	-01	40	42.13530	30	22	41.27043	Gatsibo	Rugarama	Matare	Matare		
170	Ga13Ss12		Spring	-01	40	46.53842	30	23	24.47116	Gatsibo	Rugarama	Matare	Rwankuba		
171	Ga13Ss13		Spring	-01	42	45.05558	30	21	59.88502	Gatsibo	Rugarama	Bugarama	Akabare		
172	Ga13Ss14		Spring	-01	43	15.26573	30	25	17.42196	Gatsibo	Rugarama	Kanyangese			
173	Ga13Ss15		Spring	-01	41	03.60109	30	26	19.65790	Gatsibo	Rugarama	Kanyangese	Agakire		
174	Ga13Ss16		Spring	-01	43	52.01961	30	25	39.02293	Gatsibo	Rugarama	Kanyangese	Akazinga		
175	Ga13Ss17		Spring	-01	43	54.50270	30	25	48.11250	Gatsibo	Rugarama	Kanyangese	Akazinga		
176	Ga13Ss18		Spring	-01	41	47.55951	30	25	44.04282	Gatsibo	Rugarama	Kanyangese	Cyamirita		
177	Ga13Ss19		Spring	-01	42	50.56037	30	25	03.02766	Gatsibo	Rugarama	Kanyangese	Kanyange		
178	Ga13Ss20		Spring	-01	42	10.37471	30	24	53.72867	Gatsibo	Rugarama	Kanyangese	Kanyangese		
179	Ga13Ss21		Spring	-01	40	10.31683	30	24	53.99934	Gatsibo	Rugarama	Kanyangese	Munini		
180	Ga13Ss22		Spring	-01	43	34.40805	30	25	13.06592	Gatsibo	Rugarama	Kanyangese	Rugarama		
181	Ga13Ss23		Spring	-01	40	29.74822	30	26	00.70356	Gatsibo	Rugarama	Kanyangese	Rugazi		
182	Ga13Ss24		Spring	-01	42	19.54787	30	26	48.61912	Gatsibo	Rugarama	Matiunguru	Nyamata		
183	Ga13Ss25		Spring	-01	41	56.66628	30	26	00.12692	Gatsibo	Rugarama	Matunguru	Kabasaza		
184	Ga13Ss26		Spring	-01	41	00.69223	30	26	29.20824	Gatsibo	Rugarama	Matunguru	Nyabagendwa		
185	Ga13Ss27		Spring	-01	40	16.26580	30	27	00.71833	Gatsibo	Rugarama	Matunguru	Rambura		
186	Ga13Ss28		Spring	-01	40	31.96608	30	26	50.83274	Gatsibo	Rugarama	Matunguru	Rambura		
187	Ga13Ss29		Spring	-01	42	59.19913	30	25	33.70582	Gatsibo	Rugarama	Nyangese	Kanyangese		
188	Ga13Ss30		Spring	-01	41	16.29897	30	21	30.15736	Gatsibo	Rugarama	Remera	Akajevuba		
189	Ga13Ss31		Spring	-01	41	11.16864	30	21	05.37113	Gatsibo	Rugarama	Remera	Akajevuba		
190	Ga13Ss32		Spring	-01	42	01.27428	30	22	23.03878	Gatsibo	Rugarama	Remera	Kanyiranzage		
191	Ga13Ss33		Spring	-01	41	19.59919	30	22	14.91511	Gatsibo	Rugarama	Remera	Kanyiranzage		
192	Ga14Ss01		Spring	-01	39	16.40976	30	25	38.14816	Gatsibo	Rwimbogo	Nyamatete	Rutembo		
193	Ga14Ss02		Spring	-01	38	36.00925	30	26	10.86253	Gatsibo	Rwimbogo	Nyamatete	Kiyovu		
194	Ga14Ss03		Spring	-01	37	56.28466	30	26	21.65789	Gatsibo	Rwimbogo	Nyamatete	Nyamatete		
195	Ga14Ss04		Spring	-01	39	41.68904	30	26	04.08405	Gatsibo	Rwimbogo	Nyamatete	Rwimbogo		
196	Ga14Ss05		Spring	-01	39	12.41219	30	25	45.25495	Gatsibo	Rwimbogo	Nyamatete	Umurego		
1	Ga11Sr01	Intake (Mutaraga River)	River	-01	34	00.90200	30	12	16.97500	Gatsibo	Nyagihanga				
2	Ga11Sr02	Plant	River	-01	34	00.37200	30	13	06.25400	Gatsibo	Nyagihanga				
1	Ga01Sb01	Gasange Hp01	Groundwater	-01	48	15.16332	30	18	37.28201	Gatsibo	Gasange				
2	Ga01Sb02	Gasange Hp02	Groundwater	-01	48	25.52567	30	18	53.67631	Gatsibo	Gasange				
3	Ga01Sb03	Gasange Hp03	Groundwater	-01	48	03.52548	30	18	31.71053	Gatsibo	Gasange				
4	Ga01Sb04	Gasange Hp04	Groundwater	-01	48	20.72455	30	18	13.59204	Gatsibo	Gasange				
5	Ga03Sb01	Gitoki Hp01	Groundwater	-01	38	15.11377	30	23	04.73439	Gatsibo	Gitoki	Bukomane	Bukomane		

D2. 東部県の水源一覧

2.2 ガツィボ郡 (6/7)

6	Ga03Sb02	Gitoki Hp02	Groundwater	-01	36	17.49341	30	19	14.67801	Gatsibo	Gitoki	Rubira	Burehe		
7	Ga04Sb01	Kabarore Hp01	Groundwater	-01	34	13.73276	30	23	01.87170	Gatsibo	Kabarore	Simbwa	Simbwa		
8	Ga04Sb02	Kabarore Hp02	Groundwater	-01	37	06.95723	30	23	11.36863	Gatsibo	Kabarore	Karenge	Nyarubuye		
9	Ga04Sb03	Kabarore Hp03	Groundwater	-01	36	14.66089	30	19	52.69530	Gatsibo	Kabarore	Marimba	Rutenderi		
10	Ga04Sb04	Kabarore Hp04	Groundwater	-01	33	38.05522	30	20	06.36300	Gatsibo	Kabarore	Simbwa	Kibondo		
11	Ga04Sb05	Kabarore Hp05	Groundwater	-01	32	44.12401	30	21	26.16341	Gatsibo	Kabarore	Marimba	Simbwa		
12	Ga04Sb06	Kabarore Hp06	Groundwater	-01	36	17.44301	30	19	14.68766	Gatsibo	Kabarore	Karenge	Kanteri		
13	Ga04Sb07	Kabarore Hp07	Groundwater	-01	36	19.41645	30	25	55.08682	Gatsibo	Kabarore	Karenge	Karenge		
14	Ga04Sb08	Kabarore Hp08	Groundwater	-01	36	41.09316	30	23	45.24111	Gatsibo	Kabarore	Nyabikiri	Nyarubuye		
15	Ga04Sb09	Kabarore Hp09	Groundwater	-01	36	34.76187	30	23	40.84464	Gatsibo	Kabarore	Nyabikiri	Kabeza		
16	Ga04Sb10	Kabarore Hp10	Groundwater	-01	36	43.74070	30	23	52.30233	Gatsibo	Kabarore	Nyabikiri	Kabeza		
17	Ga04Sb11	Kabarore Hp11	Groundwater	-01	36	35.95770	30	23	02.47249	Gatsibo	Kabarore	Nyabikiri	Kabeza		
18	Ga04Sb12	Kabarore Hp12	Groundwater	-01	36	43.90455	30	23	16.42353	Gatsibo	Kabarore	Nyabikiri	Kabeza		
19	Ga04Sb13	Kabarore Hp13	Groundwater	-01	35	46.02164	30	24	58.78417	Gatsibo	Kabarore	Nyabikiri	Ngarama		
20	Ga04Sb14	Kabarore Hp14	Groundwater	-01	35	26.89410	30	23	45.03864	Gatsibo	Kabarore	Nyabikiri	Ngarama		
21	Ga04Sb15	Kabarore Hp15	Groundwater	-01	35	10.38242	30	26	14.93795	Gatsibo	Kabarore	Nyabikiri	Nyabikiri		
22	Ga04Sb16	Kabarore Hp16	Groundwater	-01	36	09.47595	30	25	25.65306	Gatsibo	Kabarore	Nyabikiri	Nyabikiri		
23	Ga06Sb01	Kiramuruzi Hp01	Groundwater	-01	48	05.58401	30	25	48.58625	Gatsibo	Kiramuruzi				
24	Ga06Sb02	Kiramuruzi Hp02	Groundwater	-01	47	55.66011	30	25	46.36659	Gatsibo	Kiramuruzi				
25	Ga06Sb03	Kiramuruzi Hp03	Groundwater	-01	47	00.19903	30	24	06.68276	Gatsibo	Kiramuruzi				
26	Ga06Sb04	Kiramuruzi Hp04	Groundwater	-01	47	46.10796	30	23	19.71319	Gatsibo	Kiramuruzi				
27	Ga06Sb05	Kiramuruzi Hp05	Groundwater	-01	49	24.27550	30	25	29.67386	Gatsibo	Kiramuruzi				
28	Ga06Sb06	Kiramuruzi Hp06	Groundwater	-01	48	57.98445	30	24	21.83657	Gatsibo	Kiramuruzi				
29	Ga07Sb01	Kizuguro Hp01	Groundwater	-01	46	56.22953	30	24	23.54778	Gatsibo	Kizuguro	Rubona	Rubira		
30	Ga07Sb02	Kizuguro Hp02	Groundwater	-01	44	30.61445	30	23	21.34263	Gatsibo	Kizuguro	Ndatemwa	Akagagendo		
31	Ga07Sb03	Kizuguro Hp03	Groundwater	-01	45	22.29311	30	26	05.91868	Gatsibo	Kizuguro	Mbogo	Akabuya		
32	Ga07Sb04	Kizuguro Hp04	Groundwater	-01	45	29.35794	30	22	56.52925	Gatsibo	Kizuguro	Agakomeye	Akabingo		
33	Ga07Sb05	Kizuguro Hp05	Groundwater	-01	46	50.18581	30	23	30.88181	Gatsibo	Kizuguro	Agakomeye	Isangano		
34	Ga07Sb06	Kizuguro Hp06	Groundwater	-01	45	18.77291	30	21	49.94451	Gatsibo	Kizuguro	Murambi	Ryampungu		
35	Ga07Sb07	Kizuguro Hp07	Groundwater	-01	46	28.51001	30	26	33.58329	Gatsibo	Kizuguro	Rubona	Rubindi		
36	Ga07Sb08	Kizuguro Hp08	Groundwater	-01	46	18.99678	30	26	42.84516	Gatsibo	Kizuguro	Rubona	Rubindi		
37	Ga09Sb01	Murambi Hp01	Groundwater	-01	45	19.14104	30	21	50.14850	Gatsibo	Murambi				
38	Ga09Sb02	Murambi Hp02	Groundwater	-01	48	57.97359	30	21	52.28065	Gatsibo	Murambi				
39	Ga09Sb03	Murambi Hp03	Groundwater	-01	48	43.55484	30	21	41.25989	Gatsibo	Murambi				
40	Ga09Sb04	Murambi Hp04	Groundwater	-01	48	29.68618	30	21	20.07624	Gatsibo	Murambi				
41	Ga09Sb05	Murambi Hp05	Groundwater	-01	49	30.84275	30	21	37.99165	Gatsibo	Murambi				
42	Ga09Sb06	Murambi Hp06	Groundwater	-01	47	54.77055	30	22	10.77633	Gatsibo	Murambi				
43	Ga09Sb07	Murambi Hp07	Groundwater	-01	46	12.54962	30	20	46.98469	Gatsibo	Murambi				
44	Ga09Sb08	Murambi Hp08	Groundwater	-01	47	41.75252	30	21	44.85432	Gatsibo	Murambi				
45	Ga13Sb01	Rugarama Hp01	Groundwater	-01	41	08.74922	30	27	27.00998	Gatsibo	Rugarama	Matungiro	Nyenyeri		
46	Ga13Sb02	Rugarama Hp02	Groundwater	-01	40	44.82630	30	26	41.88499	Gatsibo	Rugarama	Matunguru	Kabeza		

## D2. 東部県の水源一覧

### 2.2 ガツィボ郡 (7/7)

47	Ga13Sb03	Rugarama Hp03	Groundwater	-01	42	53.97738	30	26	32.15300	Gatsibo	Rugarama	Matunguru	Nyaamirambo		
48	Ga13Sb04	Rugarama Hp04	Groundwater	-01	42	04.33763	30	26	48.30439	Gatsibo	Rugarama	Matunguru	Nyamata		
49	Ga13Sb05	Rugarama Hp05	Groundwater	-01	40	13.25465	30	27	07.77411	Gatsibo	Rugarama	Matunguru	Rambura		
50	Ga13Sb06	Rugarama Hp06	Groundwater	-01	40	32.34869	30	27	49.99175	Gatsibo	Rugarama	Matunguru	Tungiro		
51	Ga14Sb01	Rwimbogo Hp01	Groundwater	-01	39	37.71079	30	24	26.34650	Gatsibo	Rwimbogo	Kiburara	Isangano		
52	Ga14Sb02	Rwimbogo Hp02	Groundwater	-01	39	55.36187	30	24	39.49791	Gatsibo	Rwimbogo	Kiburara	Kiburara		
53	Ga14Sb03	Rwimbogo Hp03	Groundwater	-01	40	04.38053	30	24	56.22202	Gatsibo	Rwimbogo	Kiburara	Kiburara		
54	Ga14Sb04	Rwimbogo Hp04	Groundwater	-01	39	21.19911	30	24	04.87166	Gatsibo	Rwimbogo	Kiburara	Rubirizi		
55	Ga14Sb05	Rwimbogo Hp05	Groundwater	-01	39	49.51036	30	26	07.56020	Gatsibo	Rwimbogo	Kiburara	Rugando		
56	Ga14Sb06	Rwimbogo Hp06	Groundwater	-01	40	01.96654	30	29	53.20049	Gatsibo	Rwimbogo	Munini	Marengo		
57	Ga14Sb07	Rwimbogo Hp07	Groundwater	-01	40	27.67538	30	35	41.35551	Gatsibo	Rwimbogo	Munini	Mucucu		
58	Ga14Sb08	Rwimbogo Hp08	Groundwater	-01	36	07.50070	30	33	43.07010	Gatsibo	Rwimbogo	Munini	Gikobwa		
59	Ga14Sb09	Rwimbogo Hp09	Groundwater	-01	36	14.47230	30	30	40.76571	Gatsibo	Rwimbogo	Munini	Munini		
60	Ga14Sb10	Rwimbogo Hp10	Groundwater	-01	37	23.64754	30	26	58.58225	Gatsibo	Rwimbogo	Nyamatete	Gashenyi		
61	Ga14Sb11	Rwimbogo Hp11	Groundwater	-01	35	55.60457	30	27	53.87223	Gatsibo	Rwimbogo	Nyamatete	Kidugudu		
62	Ga14Sb12	Rwimbogo Hp12	Groundwater	-01	37	42.16766	30	26	16.36642	Gatsibo	Rwimbogo	Nyamatete	Nyamatete		
63	Ga14Sb13	Rwimbogo Hp13	Groundwater	-01	37	18.45264	30	29	53.62535	Gatsibo	Rwimbogo	Rwikiniro	Akamahoro		
64	Ga14Sb14	Rwimbogo Hp14	Groundwater	-01	39	36.24308	30	27	41.04913	Gatsibo	Rwimbogo	Rwikiniro	Byimana		
65	Ga14Sb15	Rwimbogo Hp15	Groundwater	-01	36	17.50427	30	29	52.93013	Gatsibo	Rwimbogo	Rwikiniro	Ndama II		
66	Ga14Sb16	Rwimbogo Hp16	Groundwater	-01	39	19.44173	30	27	55.39787	Gatsibo	Rwimbogo	Rwikiniro	Byimana		
67	Ga14Sb17	Rwimbogo Hp17	Groundwater	-01	39	47.01913	30	27	08.64345	Gatsibo	Rwimbogo	Rwikiniro	Kabusunzu		
68	Ga14Sb18	Rwimbogo Hp18	Groundwater	-01	38	48.21437	30	27	24.55676	Gatsibo	Rwimbogo	Rwikiniro	Karambo		
69	Ga14Sb19	Rwimbogo Hp19	Groundwater	-01	36	28.89829	30	29	42.65619	Gatsibo	Rwimbogo	Rwikiniro	Ndama II		
70	Ga14Sb20	Rwimbogo Hp20	Groundwater	-01	36	46.45281	30	27	57.30975	Gatsibo	Rwimbogo	Nyamatete	Rwiminazi		

## D2. 東部県の水源一覧

### 2.3 カヨンザ郡 (1/3)

No	Source Code No.	Name of Source	Type	Latitude			Longitude			Location				Discharge (lit/s)	Note
				°	'	"	°	'	"	District	Secteur	Cell	Umudugudu		
1	Ka01Ss01	Nyabombe	Spring	-01	49	45.18969	30	33	25.96397	Kayonza	Gahini	Gahini	Nyabombe		Rehab. planned
2	Ka01Ss02		Spring	-01	49	37.65443	30	34	09.38860	Kayonza	Gahini	Gahini			
3	Ka01Ss03		Spring	-01	49	44.97786	30	30	26.30774	Kayonza	Gahini	Cyatokwe			
4	Ka02Ss01	Kamushikuzi I	Spring	-02	05	14.66745	30	38	56.93955	Kayonza	Kabare	Gahini	Kamushikuzi 1		
5	Ka02Ss02	Kamushikuzi II	Spring	-02	05	12.27458	30	38	33.20914	Kayonza	Kabare	Gahini	Kamushikuzi 2		
6	Ka02Ss03	Kanyetonga I	Spring	-02	01	57.33388	30	39	19.07552	Kayonza	Kabare	Gahini	Kanyetango 1		
7	Ka02Ss04	Kanyetonga II	Spring	-02	01	54.35170	30	39	15.18869	Kayonza	Kabare	Gahini	Kanyetango 2		
8	Ka02Ss05	Nyabugogo	Spring	-02	03	56.71283	30	38	34.66598	Kayonza	Kabare	Gahini	Nyabugogo		
9	Ka02Ss06	Gikombe	Spring	-02	05	57.26649	30	38	57.74793	Kayonza	Kabare	Gahini	Gikombe		
10	Ka02Ss07		Spring	-02	04	25.45045	30	39	38.74590	Kayonza	Kabare	Gahini	Gahama		
*11	Ka02Ss08	Kiburara	Spring	-01	59	49.52679	30	38	56.91239	Kayonza	Kabare	Gahini	Kiburara		Rehab. planned
12	Ka02Ss09		Spring	-02	01	50.66071	30	39	12.90023	Kayonza	Kabare	Gahini			
New	Ka02Ss10	Source to Exploit	Spring	-02	06	08.30497	30	37	45.78420	Kayonza	Kabare				Development planned
New	Ka02Ss11	Source to Exploit	Spring	-02	06	14.18933	30	38	00.69700	Kayonza	Kabare				Development planned
New	Ka02Ss12	Source to Exploit	Spring	-02	02	21.56950	30	38	49.82345	Kayonza	Kabare				Development planned
16	Ka03Ss01	Mubugazire	Spring	-02	01	00.19840	30	32	45.84832	Kayonza	Kabarondo	Kabarondo			
17	Ka05Ss01		Spring	-02	04	10.03231	30	35	22.42623	Kayonza	Murama	Murama	Kaguruka		
18	Ka05Ss02	Gicaca	Spring	-02	05	30.78836	30	35	12.80648	Kayonza	Murama	Murama	Gicaca		
19	Ka05Ss03	Kabonobono	Spring	-02	03	23.57058	30	35	49.96470	Kayonza	Murama				
20	Ka05Ss04		Spring	-02	02	16.02177	30	36	43.16628	Kayonza	Murama	Nyaruriba			
21	Ka05Ss05		Spring	-02	04	15.75075	30	35	32.36401	Kayonza	Murama	Kidimba			
New	Ka05Ss06	Source to Exploit	Spring	-01	59	11.98301	30	36	54.62132	Kayonza	Murama				Development planned
23	Ka06Ss01		Spring	-01	44	18.38941	30	29	33.36686	Kayonza	Murundi	Murundi	Kayongo		
24	Ka06Ss02		Spring	-01	45	00.59377	30	30	05.06766	Kayonza	Murundi	Murundi	Nyamga		
25	Ka06Ss03		Spring	-01	43	09.62515	30	28	02.95396	Kayonza	Murundi	Murundi	Gisagora		
New	Ka06Ss04	Source to Exploit	Spring	-01	43	39.75806	30	27	10.40747	Kayonza	Murundi				Development planned
New	Ka06Ss05	Source to Exploit	Spring	-01	43	16.58661	30	32	02.70886	Kayonza	Murundi				Development planned
28	Ka07Ss01		Spring	-02	02	27.01869	30	40	20.50850	Kayonza	Ndego	Ndego			
29	Ka07Ss02		Spring	-02	00	58.76359	30	40	37.09501	Kayonza	Ndego				
30	Ka08Ss01		Spring	-01	54	19.00323	30	33	29.95309	Kayonza	Mwiri	Mwiri			
33	Ka08Ss02	Rwazana	Spring	-01	50	43.82455	30	35	31.98411	Kayonza	Mwiri	Mwiri			
34	Ka08Ss03	Migera	Spring	-01	54	25.93922	30	33	35.75632	Kayonza	Mwiri	Mwiri			
37	Ka08Ss06		Spring	-01	50	43.82455	30	35	31.98411	Kayonza	Mwiri				
38	Ka09Ss01		Spring	-01	56	33.57130	30	31	40.37191	Kayonza	Nyamirama	Nyamirama			
39	Ka09Ss02		Spring	-01	56	49.05432	30	32	44.11417	Kayonza	Nyamirama	Nyamirama			
40	Ka09Ss03		Spring	-01	55	10.61188	30	30	55.83232	Kayonza	Nyamirama	Nyamirama			
40	Ka09Ss04		Spring	-01	56	17.64411	30	33	11.85814	Kayonza	Nyamirama	Nyamirama			Development planned
40	Ka09Ss05		Spring	-01	56	17.36439	30	33	14.42511	Kayonza	Nyamirama	Nyamirama			
42	Ka09Ss06		Spring	-01	57	04.22623	30	29	24.69642	Kayonza	Nyamirama	Nyamirama			
43	Ka09Ss07		Spring	-01	57	29.83563	30	28	40.08622	Kayonza	Nyamirama	Nyamirama			
44	Ka09Ss08	Karongi	Spring	-01	56	37.10870	30	31	29.98150	Kayonza	Nyamirama	Nyamirama			
45	Ka09Ss09	Gatare	Spring	-01	58	04.21142	30	33	22.88825	Kayonza	Nyamirama				
46	Ka10Ss01	Cyatokwe	Spring	-01	47	31.58390	30	29	30.81317	Kayonza	Rukara	Rukara	Cyatokwe		Rwasaburo Plant



## D2. 東部県の水源地一覧

### 2.3 カヨンザ郡 (2/3)

47	Ka10Ss02		Spring	-01	48	08.71254	30	30	50.16337	Kayonza	Rukara	Rukara			
48	Ka10Ss03		Spring	-01	47	24.12678	30	29	33.04309	Kayonza	Rukara	Rukara			
49	Ka11Ss01		Spring	-02	00	50.68474	30	30	41.86478	Kayonza	Ruramira	Ruramira			
50	Ka11Ss02		Spring	-02	00	32.11436	30	29	09.35040	Kayonza	Ruramira	Ruramira			
51	Ka11Ss03		Spring	-01	59	28.04199	30	29	43.43350	Kayonza	Ruramira	Ruramira			
52	Ka11Ss04		Spring	-01	59	28.28685	30	31	18.77884	Kayonza	Ruramira	Ruramira			
53	Ka11Ss05		Spring	-02	00	08.49724	30	30	29.93774	Kayonza	Ruramira	Ruramira			
54	Ka11Ss06		Spring	-02	00	14.13076	30	28	48.04213	Kayonza	Ruramira	Ruramira			
55	Ka11Ss07		Spring	-02	00	23.12497	30	29	38.48693	Kayonza	Ruramira	Ruramira			
*56	Ka11Ss08		Spring	-01	59	52.39249	30	29	18.19374	Kayonza	Ruramira	Ruramira			Rehab. planned
57	Ka11Ss09		Spring	-01	58	37.73055	30	31	29.03974	Kayonza	Ruramira	Ruramira			
*58	Ka11Ss10		Spring	-01	59	21.43400	30	29	03.10149	Kayonza	Ruramira	Ruramira			Rehab. planned
59	Ka11Ss11		Spring	-02	01	13.01102	30	30	35.94589	Kayonza	Ruramira	Ruramira			
60	Ka12Ss01		Spring	-01	55	06.47612	30	34	34.64043	Kayonza	Rwinkwavu	Rwinkwavu			
61	Ka12Ss02	Migere	Spring	-01	55	01.56335	30	34	10.81587	Kayonza	Rwinkwavu			1.3	
62	Ka12Ss03	Migera	Spring	-01	54	58.60591	30	34	01.03077	Kayonza	Rwinkwavu				
63	Ka04Sb01	Kazabazana	Groundwater	-01	54	39.87699	30	31	16.31712	Kayonza	Mukarange	Kazabanaza			
64	Ka12Sb01	Nyankora	Groundwater	-01	56	06.08442	30	40	17.83380	Kayonza	Rwinkwavu				Source of Piped system
1	Ka01Sb01	Gahini Hp01	Groundwater	-01	49	47.17248	30	33	17.37983	Kayonza	Gahini				Source of Piped system
2	Ka01Sb02	Gahini Hp02	Groundwater	-01	49	05.17512	30	33	12.81438	Kayonza	Gahini				
3	Ka01Sb03	Gahini Hp03	Groundwater	-01	45	12.76510	30	35	31.69081	Kayonza	Gahini				
4	Ka01Sb04	Gahini Hp04	Groundwater	-01	49	59.36251	30	33	04.82740	Kayonza	Gahini				
5	Ka01Sb05	Gahini Hp05	Groundwater	-01	49	42.78868	30	34	28.11089	Kayonza	Gahini				
6	Ka03Sb01	Kabarondo Hp01	Groundwater	-02	01	03.48655	30	34	24.71290	Kayonza	Kabarondo	Gashikiro			
7	Ka03Sb02	Kabarondo Hp02	Groundwater	-01	59	31.52175	30	34	09.42964	Kayonza	Kabarondo	Mwenge			
8	Ka03Sb03	Kabarondo Hp03	Groundwater	-02	00	13.80426	30	34	31.81516	Kayonza	Kabarondo				
9	Ka06Sb01	Murundi Hp01	Groundwater	-01	39	00.22517	30	35	14.68547	Kayonza	Murundi				
10	Ka06Sb02	Murundi Hp02	Groundwater	-01	39	51.15730	30	31	52.47142	Kayonza	Murundi				
11	Ka06Sb03	Murundi Hp03	Groundwater	-01	40	24.04427	30	31	55.86700	Kayonza	Murundi				
12	Ka06Sb04	Murundi Hp04	Groundwater	-01	41	52.13945	30	27	54.71894	Kayonza	Murundi				
13	Ka06Sb05	Murundi Hp05	Groundwater	-01	42	26.55296	30	28	11.70044	Kayonza	Murundi				
14	Ka06Sb06	Murundi Hp06	Groundwater	-01	42	30.17213	30	26	51.91391	Kayonza	Murundi				
15	Ka06Sb07	Murundi Hp07	Groundwater	-01	42	59.16775	30	34	15.41724	Kayonza	Murundi				
16	Ka06Sb08	Murundi Hp08	Groundwater	-01	43	20.05629	30	29	36.89883	Kayonza	Murundi				
17	Ka06Sb09	Murundi Hp09	Groundwater	-01	43	28.73428	30	29	42.94889	Kayonza	Murundi				
18	Ka06Sb10	Murundi Hp10	Groundwater	-01	43	34.45362	30	30	04.16513	Kayonza	Murundi				
19	Ka06Sb11	Murundi Hp11	Groundwater	-01	43	39.75051	30	27	10.40144	Kayonza	Murundi				
20	Ka06Sb12	Murundi Hp12	Groundwater	-01	44	11.09253	30	30	09.72786	Kayonza	Murundi				
21	Ka06Sb13	Murundi Hp13	Groundwater	-01	44	24.76355	30	29	17.44360	Kayonza	Murundi				
22	Ka06Sb14	Murundi Hp14	Groundwater	-01	44	25.63077	30	32	29.47695	Kayonza	Murundi				
23	Ka08Sb01	Mwiri Hp01	Groundwater	-01	50	14.50003	30	38	46.38318	Kayonza	Mwiri				
24	Ka08Sb02	Mwiri Hp02	Groundwater	-01	50	25.49786	30	39	09.72554	Kayonza	Mwiri				
25	Ka08Sb03	Mwiri Hp03	Groundwater	-01	50	38.75609	30	39	35.73415	Kayonza	Mwiri				
26	Ka08Sb04	Mwiri Hp04	Groundwater	-01	51	13.58511	30	38	55.16104	Kayonza	Mwiri				
27	Ka08Sb05	Mwiri Hp05	Groundwater	-01	51	21.79538	30	38	55.77208	Kayonza	Mwiri				
28	Ka08Sb06	Mwiri Hp06	Groundwater	-01	52	13.74803	30	35	59.33429	Kayonza	Mwiri				

## D2. 東部県の水源地一覧

### 2.3 カヨンザ郡 (3/3)

29	Ka08Sb07	Mwiri Hp07	Groundwater	-01	52	39.83117	30	38	05.89396	Kayonza	Mwiri				
30	Ka08Sb08	Mwiri Hp08	Groundwater	-01	52	41.33086	30	36	17.46817	Kayonza	Mwiri				
31	Ka08Sb09	Mwiri Hp09	Groundwater	-01	53	12.73352	30	36	36.60989	Kayonza	Mwiri				
32	Ka08Sb10	Mwiri Hp10	Groundwater	-01	53	20.86203	30	33	45.70165	Kayonza	Mwiri				
33	Ka08Sb11	Mwiri Hp11	Groundwater	-01	53	32.18061	30	33	42.72037	Kayonza	Mwiri				
34	Ka08Sb12	Mwiri Hp12	Groundwater	-01	53	33.90510	30	33	39.20560	Kayonza	Mwiri				
35	Ka08Sb13	Mwiri Hp13	Groundwater	-01	54	40.52876	30	40	48.24009	Kayonza	Mwiri				
36	Ka10Sb01	Rukara Hp01	Groundwater	-01	40	50.68173	30	28	59.93434	Kayonza	Rukara				
37	Ka10Sb02	Rukara Hp02	Groundwater	-01	42	04.65296	30	29	03.48018	Kayonza	Rukara				Development planned
38	Ka10Sb03	Rukara Hp03	Groundwater	-01	45	29.26501	30	27	32.88834	Kayonza	Rukara				Development planned
39	Ka10Sb04	Rukara Hp04	Groundwater	-01	45	57.89672	30	27	33.87898	Kayonza	Rukara				
40	Ka10Sb05	Rukara Hp05	Groundwater	-01	45	59.79200	30	27	36.52622	Kayonza	Rukara				
41	Ka10Sb06	Rukara Hp06	Groundwater	-01	46	04.13386	30	27	41.18341	Kayonza	Rukara				
42	Ka10Sb07	Rukara Hp07	Groundwater	-01	46	07.62448	30	27	48.31976	Kayonza	Rukara				
43	Ka10Sb08	Rukara Hp08	Groundwater	-01	46	09.25725	30	27	56.19932	Kayonza	Rukara				
44	Ka10Sb09	Rukara Hp09	Groundwater	-01	47	13.14797	30	26	55.48963	Kayonza	Rukara				
45	Ka10Sb10	Rukara Hp10	Groundwater	-01	47	36.82617	30	26	56.14955	Kayonza	Rukara				
46	Ka10Sb11	Rukara Hp11	Groundwater	-01	47	59.75031	30	27	03.06834	Kayonza	Rukara				
47	Ka10Sb12	Rukara Hp12	Groundwater	-01	48	00.81277	30	27	25.97438	Kayonza	Rukara				
48	Ka10Sb13	Rukara Hp13	Groundwater	-01	48	50.54756	30	26	39.21784	Kayonza	Rukara				
49	Ka10Sb14	Rukara Hp14	Groundwater	-01	49	09.98167	30	27	45.52889	Kayonza	Rukara				
50	Ka10Sb15	Rukara Hp15	Groundwater	-01	49	26.43270	30	27	28.77641	Kayonza	Rukara				
51	Ka10Sb16	Rukara Hp16	Groundwater	-01	49	58.70893	30	26	54.93411	Kayonza	Rukara				
52	Ka11Sb01	Ruramira Hp01	Groundwater	-02	02	05.15641	30	29	06.75808	Kayonza	Ruramira				
53	Ka11Sb02	Ruramira Hp02	Groundwater	-02	01	29.19100	30	29	13.31658	Kayonza	Ruramira				
54	Ka11Sb03	Ruramira Hp03	Groundwater	-01	59	41.13003	30	28	29.54736	Kayonza	Ruramira				
55	Ka11Sb04	Ruramira Hp04	Groundwater	-02	00	35.79026	30	29	05.04565	Kayonza	Ruramira				
56	Ka12Sb02	Rwinkwavu Hp01	Groundwater	-01	54	14.79474	30	36	29.32146	Kayonza	Rwinkwavu				
57	Ka12Sb03	Rwinkwavu Hp02	Groundwater	-01	54	40.72098	30	40	48.17521	Kayonza	Rwinkwavu				
58	Ka12Sb04	Rwinkwavu Hp03	Groundwater	-01	55	24.37705	30	40	30.91429	Kayonza	Rwinkwavu				
59	Ka12Sb05	Rwinkwavu Hp04	Groundwater	-01	55	56.99757	30	35	10.63661	Kayonza	Rwinkwavu				
60	Ka12Sb06	Rwinkwavu Hp05	Groundwater	-01	56	16.60187	30	36	13.92414	Kayonza	Rwinkwavu				
61	Ka12Sb07	Rwinkwavu Hp06	Groundwater	-01	57	09.29742	30	36	38.39473	Kayonza	Rwinkwavu				
62	Ka12Sb08	Rwinkwavu Hp07	Groundwater	-01	57	30.48318	30	36	37.06010	Kayonza	Rwinkwavu				
63	Ka12Sb09	Rwinkwavu Hp08	Groundwater	-01	57	37.94542	30	37	47.50540	Kayonza	Rwinkwavu				
64	Ka12Sb10	Rwinkwavu Hp09	Groundwater	-01	57	44.63911	30	35	22.64771	Kayonza	Rwinkwavu				
65	Ka12Sb11	Rwinkwavu Hp10	Groundwater	-01	57	46.12673	30	37	14.34354	Kayonza	Rwinkwavu				
66	Ka12Sb12	Rwinkwavu Hp11	Groundwater	-01	57	48.91579	30	35	05.42028	Kayonza	Rwinkwavu				
67	Ka12Sb13	Rwinkwavu Hp12	Groundwater	-01	58	00.84270	30	34	54.95052	Kayonza	Rwinkwavu				
68	Ka12Sb14	Rwinkwavu Hp13	Groundwater	-01	58	08.67157	30	35	58.51233	Kayonza	Rwinkwavu				
69	Ka12Sb15	Rwinkwavu Hp14	Groundwater	-01	58	24.79278	30	34	47.32684	Kayonza	Rwinkwavu				
70	Ka12Sb16	Rwinkwavu Hp15	Groundwater	-01	58	41.41068	30	34	48.66238	Kayonza	Rwinkwavu				
71	Ka12Sb17	Rwinkwavu Hp16	Groundwater	-01	58	57.33033	30	34	46.87150	Kayonza	Rwinkwavu				
72	Ka12Sb18	Rwinkwavu Hp17	Groundwater	-01	59	09.85410	30	34	42.53356	Kayonza	Rwinkwavu				
73	Ka12Sb19	Rwinkwavu Hp18	Groundwater	-01	59	31.82652	30	34	09.47611	Kayonza	Rwinkwavu				

## D2. 東部県の水源一覧

### 2.4 ルワマガナ郡

No	Source Code No.	Name of Source	Type	Latitude			Longitude			Location			Discharge (lit/s)	Note
				°	'	"	°	'	"	Secteur	Cell	Umudugudu		
1	Rw01Ss01		Spring	-01	50	40.40273	30	15	49.48962	Fumbwe				
2	Rw01Ss02		Spring	-01	53	35.49381	30	16	52.40750	Fumbwe				
3	Rw01Ss03		Spring	-01	53	37.27503	30	16	52.27202	Fumbwe				
4	Rw01Ss04		Spring	-01	53	01.81445	30	16	05.17240	Fumbwe				
5	Rw02Ss01	Mugomero	Spring	-01	57	56.76970	30	18	54.05923	Gahengeri				
6	Rw02Ss02		Spring	-01	56	23.51553	30	17	04.30122	Gahengeri				
7	Rw02Ss03		Spring	-01	57	05.52194	30	16	25.93209	Gahengeri				
8	Rw02Ss04		Spring	-01	56	12.03641	30	17	57.69653	Gahengeri				
9	Rw02Ss05		Spring	-01	55	56.06275	30	16	41.19996	Gahengeri				
10	Rw02Ss06		Spring	-01	53	38.24515	30	17	21.70608	Gahengeri				
11	Rw02Ss07		Spring	-01	53	43.29522	30	17	42.51043	Gahengeri				
12	Rw02Ss08		Spring	-01	55	05.88439	30	18	55.48378	Gahengeri				
13	Rw02Ss09		Spring	-01	57	06.48422	30	18	57.06132	Gahengeri				
New	Rw02Ss10	Source to exploit	Spring	-01	56	23.61994	30	17	30.88798	Gahengeri				Development planned
14	Rw05Ss01		Spring	-01	56	28.98171	30	26	23.20978	Kigabiro				
15	Rw08Ss01		Spring	-01	56	40.58273	30	21	16.25459	Munyiginya	Nyakagezi			
16	Rw08Ss02		Spring	-01	55	42.67990	30	21	38.39630	Munyiginya	Ngaruye			
17	Rw08Ss03		Spring	-01	54	48.71067	30	22	18.02131	Munyiginya	Gakatsi			
18*	Rw09Ss02	Kagarama	Spring	-01	55	51.26224	30	21	19.26454	Musha				Rehab. Planned
19	Rw10Ss01		Spring	-01	59	37.26644	30	15	20.42430	Muyumbu				
20	Rw10Ss02		Spring	-02	00	02.79225	30	15	14.02240	Muyumbu				
21	Rw10Ss03		Spring	-01	59	12.00406	30	15	56.40358	Muyumbu				
22	Rw10Ss04		Spring	-01	59	11.03303	30	16	38.13027	Muyumbu				
23	Rw10Ss05		Spring	-01	57	24.00072	30	16	20.32500	Muyumbu				
24	Rw10Ss06		Spring	-01	59	53.15139	30	17	32.14084	Muyumbu				
25	Rw11Ss01	Rwakibogo	Spring	-01	58	46.06304	30	25	23.39115	Mwulire				
26	Rw11Ss02	Byimana	Spring	-02	00	37.98911	30	21	58.04978	Mwulire				
27	Rw11Ss03	Mugatara	Spring	-01	58	41.62673	30	21	05.12430	Mwulire				
28	Rw13Ss01		Spring	-01	59	49.82884	30	20	12.96013	Nziqe				
29	Rw14Ss01		Spring	-02	01	26.01027	30	23	38.81477	Rubona				
30	Rw14Ss02		Spring	-02	01	22.89985	30	23	58.60374	Rubona				
31	Rw14Ss03		Spring	-01	59	41.13999	30	23	06.72804	Rubona				
32	Rw14Ss04		Spring	-02	01	29.35274	30	25	01.63358	Rubona				
33	Rw14Ss05		Spring	-02	02	08.91649	30	25	17.96873	Rubona				
34	Rw14Ss06		Spring	-02	02	49.98477	30	22	52.12281	Rubona				
1	Rw04SI01	Intake (Mugesera)	Lake	-02	05	57.80662	30	18	25.10284	Karenge				
2	Rw04SI02	Treatment Plant	Lake	-02	05	27.00594	30	18	12.82077	Karenge				
3	Rw06SI01	Plant (Muhazi Lake)	Lake	-01	54	05.46921	30	25	48.81618	Muhazi				
1	Rw07Sb01	Munyaga Hp01	Groundwater	-02	03	41.61484	30	27	03.25814	Munyaga				
2	Rw07Sb02	Munyaga Hp02	Groundwater	-02	04	21.61252	30	26	21.58335	Munyaga				
3	Rw07Sb03	Munyaga Hp03	Groundwater	-02	04	16.35666	30	26	45.36144	Munyaga				
4	Rw07Sb04	Munyaga Hp04	Groundwater	-02	02	00.43012	30	25	43.36600	Munyaga				
5	Rw07Sb05	Munyaga Hp05	Groundwater	-02	02	19.02356	30	25	35.74202	Munyaga				

## D2. 東部県の水源一覧

### 2.5 ンゴマ郡 (1/4)

No.	Code No.	Name of Source	Type	Latitude			Longitude			Location				Discharge (m <sup>3</sup> /s)	Note
				°	'	"	°	'	"	District	Secteur	Cell	Umudugud		
*1	Ng01Ss03	Cyerwa	Spring	-02	11	02.28717	30	27	04.80823	Ngoma	Gashanda				Replacement planned
2	Ng01Ss04	Kwamuhire	Spring	-02	08	32.26505	30	30	21.05490	Ngoma	Gashanda				
3	Ng01Ss05		Spring	-02	08	29.67363	30	29	50.04360	Ngoma	Gashanda				
4	Ng01Ss06		Spring	-02	10	46.34036	30	26	28.65121	Ngoma	Gashanda				
5	Ng01Ss07		Spring	-02	10	03.42086	30	29	21.62100	Ngoma	Gashanda				
6	Ng01Ss08		Spring	-02	09	07.20783	30	28	51.66854	Ngoma	Gashanda				
7	Ng01Ss09		Spring	-02	09	01.02319	30	28	52.64922	Ngoma	Gashanda				
8	Ng01Ss10		Spring	-02	12	25.47682	30	27	26.92790	Ngoma	Gashanda				
9	Ng01Ss11		Spring	-02	12	53.53853	30	26	15.86190	Ngoma	Gashanda				
10	Ng01Ss12		Spring	-02	07	38.91440	30	28	44.37679	Ngoma	Gashanda				
11	Ng01Ss13		Spring	-02	12	11.19446	30	27	50.77237	Ngoma	Gashanda				
12	Ng01Ss14		Spring	-02	10	45.24079	30	28	13.74599	Ngoma	Gashanda				
13	Ng01Ss15		Spring	-02	11	08.30071	30	28	40.99720	Ngoma	Gashanda				
14	Ng01Ss16		Spring	-02	11	59.10370	30	28	23.67955	Ngoma	Gashanda				
15	Ng02Ss01		Spring	-02	17	02.53476	30	23	12.61486	Ngoma	Jarama				
16	Ng02Ss02		Spring	-02	15	54.02940	30	21	24.66221	Ngoma	Jarama				
17	Ng02Ss03		Spring	-02	15	32.40279	30	25	37.02687	Ngoma	Jarama				
18	Ng03Ss02		Spring	-02	05	06.80630	30	26	06.49593	Ngoma	Karembo				
19	Ng03Ss03		Spring	-02	06	08.56516	30	27	15.65035	Ngoma	Karembo				
20	Ng03Ss04		Spring	-02	05	56.19679	30	25	33.73147	Ngoma	Karembo				
21	Ng03Ss05		Spring	-02	10	35.08062	30	26	20.19742	Ngoma	Karembo				
22	Ng03Ss06		Spring	-02	10	55.22052	30	27	01.78591	Ngoma	Karembo				
23	Ng03Ss07		Spring	-02	09	23.83749	30	27	22.87210	Ngoma	Karembo				
24	Ng03Ss08		Spring	-02	06	06.83645	30	26	36.19553	Ngoma	Karembo				
25	Ng03Ss09		Spring	-02	08	13.47819	30	27	22.34706	Ngoma	Karembo				
26	Ng04Ss01	Fagoma	Spring	-02	14	08.35224	30	29	44.35262	Ngoma	Kazo				
27	Ng04Ss02	Nyayagezi 1	Spring	-02	10	47.21272	30	30	42.57590	Ngoma	Kazo				
28	Ng04Ss03	Nyayagezi 2	Spring	-02	12	19.07734	30	28	27.16083	Ngoma	Kazo				
29	Ng04Ss04		Spring	-02	11	51.33277	30	29	29.36447	Ngoma	Kazo				
30	Ng04Ss05		Spring	-02	13	25.41916	30	28	48.02945	Ngoma	Kazo				
31	Ng04Ss06		Spring	-02	11	39.48944	30	29	15.56823	Ngoma	Kazo				
32	Ng04Ss07		Spring	-02	13	29.12373	30	28	57.05867	Ngoma	Kazo				
33	Ng04Ss08		Spring	-02	12	13.03935	30	28	30.46045	Ngoma	Kazo				
34	Ng04Ss09	Rwarutene	Spring	-02	14	08.11507	30	29	46.77838	Ngoma	Kazo				
35	Ng04Ss10		Spring	-02	10	42.08390	30	29	50.17697	Ngoma	Kazo				
*36	Ng04Ss11	Rwamugende 1	Spring	-02	10	13.20415	30	30	53.42708	Ngoma	Kazo				Ng04Ss11 and 12 to be integrated
*37	Ng04Ss12	Rwamugende 2	Spring	-02	10	12.95219	30	30	58.15427	Ngoma	Kazo				
38	Ng04Ss13	Nyamuhainuli	Spring	-02	11	32.86576	30	30	45.22405	Ngoma	Kazo				
New	Ng04Ss14	Source to exploit	Spring	-02	11	01.65055	30	30	29.48595	Ngoma	Kazo				Development planned
*39	Ng05Ss02	Nyamuganda	Spring	-02	10	04.92508	30	33	40.37307	Ngoma	Kibungo				Works on-going
40	Ng05Ss03		Spring	-02	07	03.49275	30	34	49.53534	Ngoma	Kibungo				
41	Ng05Ss04		Spring	-02	06	32.73220	30	34	36.34742	Ngoma	Kibungo				

## D2. 東部県の水源一覧

### 2.5 ンゴマ郡 (2/4)

42	Ng05Ss05		Spring	-02	06	06.17049	30	35	52.07845	Ngoma	Kibungo				
43	Ng05Ss06		Spring	-02	09	22.47208	30	31	56.27375	Ngoma	Kibungo				
44	Ng05Ss07	Source Plant	Spring	-02	09	10.61849	30	31	53.04535	Ngoma	Kibungo				Rwasaburo Plant
45	Ng06Ss01		Spring	-02	05	38.01946	30	25	18.27684	Ngoma	Mugesera				
46	Ng06Ss02		Spring	-02	06	27.67128	30	24	21.01732	Ngoma	Mugesera				
47	Ng06Ss03		Spring	-02	07	01.00362	30	24	09.41569	Ngoma	Mugesera				
48	Ng06Ss04		Spring	-02	07	22.86017	30	23	35.25505	Ngoma	Mugesera				
49	Ng06Ss05		Spring	-02	06	20.51561	30	23	23.92288	Ngoma	Mugesera				
50	Ng06Ss06		Spring	-02	08	19.87073	30	24	48.35936	Ngoma	Mugesera				
51	Ng06Ss07		Spring	-02	07	12.87049	30	22	32.09275	Ngoma	Mugesera				
52	Ng07Ss01		Spring	-02	15	03.13861	30	32	52.32173	Ngoma	Murama				
53	Ng07Ss02		Spring	-02	12	19.83020	30	35	52.27278	Ngoma	Murama				
54	Ng07Ss03		Spring	-02	12	20.61155	30	33	47.91824	Ngoma	Murama				
55	Ng07Ss04		Spring	-02	14	04.94731	30	33	04.42275	Ngoma	Murama				
56	Ng07Ss05		Spring	-02	15	28.29266	30	34	43.79789	Ngoma	Murama				
57	Ng07Ss06		Spring	-02	14	06.38997	30	35	03.43961	Ngoma	Murama				
58	Ng07Ss07		Spring	-02	12	47.50627	30	34	25.37464	Ngoma	Murama				
59	Ng07Ss08		Spring	-02	12	44.97913	30	34	20.58438	Ngoma	Murama				
60	Ng07Ss09		Spring	-02	12	44.14751	30	33	29.95580	Ngoma	Murama				
61	Ng07Ss10		Spring	-02	11	47.01203	30	32	24.15441	Ngoma	Murama				
62	Ng07Ss11		Spring	-02	14	23.52476	30	32	52.68383	Ngoma	Murama				
63	Ng07Ss12		Spring	-02	13	15.90563	30	33	04.15480	Ngoma	Murama				
64	Ng07Ss13		Spring	-02	14	08.38423	30	35	03.76489	Ngoma	Murama				
65	Ng08Ss01	Shyagashya	Spring	-02	14	54.40600	30	30	40.77718	Ngoma	Mutenderi				
66	Ng08Ss02		Spring	-02	15	26.95924	30	29	02.09999	Ngoma	Mutenderi				
67	Ng08Ss03		Spring	-02	15	02.37790	30	30	41.05087	Ngoma	Mutenderi				
68	Ng08Ss04		Spring	-02	14	58.20140	30	30	39.75878	Ngoma	Mutenderi				
69	Ng08Ss05		Spring	-02	16	45.25634	30	29	55.76354	Ngoma	Mutenderi				
70	Ng08Ss06		Spring	-02	16	32.81736	30	30	45.93316	Ngoma	Mutenderi				
New	Ng08Ss07	Source to exploit	Spring	-02	15	09.02953	30	30	42.55298	Ngoma	Mutenderi				Develoment planned
71	Ng09Ss01		Spring	-02	05	31.54062	30	33	10.89556	Ngoma	Remera				
72	Ng09Ss02		Spring	-02	05	27.73919	30	33	12.00841	Ngoma	Remera				
73	Ng09Ss03		Spring	-02	03	54.99347	30	32	11.42937	Ngoma	Remera				
74	Ng09Ss04		Spring	-02	03	36.64625	30	33	40.62593	Ngoma	Remera				
75	Ng10Ss03		Spring	-02	10	25.20077	30	34	47.79817	Ngoma	Rukira				
76	Ng10Ss04		Spring	-02	11	54.06872	30	34	49.83467	Ngoma	Rukira				
77	Ng10Ss05		Spring	-02	08	13.14143	30	35	48.88293	Ngoma	Rukira				
78	Ng10Ss06		Spring	-02	11	31.92611	30	33	56.50213	Ngoma	Rukira				
79	Ng10Ss07		Spring	-02	09	15.21804	30	35	18.84749	Ngoma	Rukira				
80	Ng10Ss08		Spring	-02	08	49.91613	30	35	30.88786	Ngoma	Rukira				
81	Ng10Ss09		Spring	-02	08	30.14044	30	39	00.22770	Ngoma	Rukira				
82	Ng10Ss10		Spring	-02	10	29.67208	30	34	38.64765	Ngoma	Rukira				
83	Ng10Ss11		Spring	-02	09	49.44085	30	35	02.70575	Ngoma	Rukira				
84	Ng10Ss12	Nyakayanja 1	Spring	-02	09	32.59333	30	38	48.02228	Ngoma	Rukira				

## D2. 東部県の水源一覧

### 2.5 ンゴマ郡 (3/4)

85	Ng10Ss13	Nyakayanja 2	Spring	-02	09	33.91589	30	38	48.72686	Ngoma	Rukira				
86	Ng10Ss14	Gasovo	Spring	-02	07	27.80251	30	39	07.10364	Ngoma	Rukira				
New	Ng10Ss15	Source to exploit	Spring	-02	07	48.14657	30	37	27.30576	Ngoma	Rukira				Develoment planned
87	Ng12Ss01		Spring	-02	07	19.01107	30	28	27.50301	Ngoma	Rurenge				
88	Ng12Ss02		Spring	-02	07	30.22525	30	30	44.50619	Ngoma	Rurenge				
89	Ng12Ss03		Spring	-02	07	11.63754	30	29	27.73805	Ngoma	Rurenge				
90	Ng12Ss04		Spring	-02	05	32.04243	30	27	47.01439	Ngoma	Rurenge				
91	Ng12Ss05		Spring	-02	07	09.40400	30	31	31.60099	Ngoma	Rurenge				
92	Ng12Ss06		Spring	-02	05	07.51450	30	27	16.45964	Ngoma	Rurenge				
93	Ng12Ss07	Rwasaburo	Spring	-02	09	10.61849	30	31	53.04535	Ngoma	Rurenge				
94	Ng12Ss08		Spring	-02	09	22.47208	30	31	56.27375	Ngoma	Rurenge				
95	Ng12Ss09	Gitobe	Spring	-02	05	50.21795	30	31	28.30770	Ngoma	Rurenge				
96	Ng12Ss10		Spring	-02	06	55.36394	30	31	03.71822	Ngoma	Rurenge				
New	Ng12Ss11	Source to exploit	Spring	-02	05	49.04695	30	31	29.58975	Ngoma	Rurenge				Develoment planned
New	Ng12Ss12	Source to exploit	Spring	-02	08	25.79792	30	30	29.10885	Ngoma	Rurenge				Develoment planned
97	Ng13Ss02		Spring	-02	12	54.23345	30	23	40.21881	Ngoma	Sake				
98	Ng13Ss03		Spring	-02	13	01.62750	30	24	30.45119	Ngoma	Sake				
99	Ng13Ss04		Spring	-02	14	22.42851	30	23	59.45286	Ngoma	Sake				
100	Ng13Ss05	Rwahita	Spring	-02	11	57.47335	30	25	21.76805	Ngoma	Sake				
101	Ng13Ss06	Gaseta	Spring	-02	11	56.01530	30	25	27.13615	Ngoma	Sake				
102	Ng14Ss02		Spring	-02	06	54.58362	30	24	56.34212	Ngoma	Zaza				
103	Ng14Ss03		Spring	-02	06	48.07672	30	24	46.72961	Ngoma	Zaza				
104	Ng14Ss04		Spring	-02	05	50.47172	30	25	24.32114	Ngoma	Zaza				
105	Ng14Ss05		Spring	-02	07	31.52730	30	25	56.35748	Ngoma	Zaza				
106	Ng14Ss06		Spring	-02	09	05.87108	30	24	53.57599	Ngoma	Zaza				
107	Ng14Ss07		Spring	-02	06	04.87870	30	25	34.97075	Ngoma	Zaza				
108	Ng14Ss08		Spring	-02	09	11.93321	30	25	31.95659	Ngoma	Zaza				
109	Ng14Ss09		Spring	-02	09	07.38526	30	25	14.55867	Ngoma	Zaza				
110	Ng14Ss10		Spring	-02	09	07.24494	30	25	13.96362	Ngoma	Zaza				
111	Ng14Ss11		Spring	-02	07	24.30223	30	25	54.93383	Ngoma	Zaza				
112	Ng14Ss12		Spring	-02	05	57.45358	30	24	26.56980	Ngoma	Zaza				
113	Ng14Ss13		Spring	-02	07	20.70267	30	25	14.38607	Ngoma	Zaza				
114	Ng14Ss14		Spring	-02	07	54.83526	30	26	21.34950	Ngoma	Zaza				
115	Ng14Ss15		Spring	-02	10	08.54968	30	26	18.25869	Ngoma	Zaza				
116	Ng14Ss16		Spring	-02	10	08.51890	30	26	04.30825	Ngoma	Zaza				
117	Ng14Ss17		Spring	-02	11	36.97799	30	24	09.70839	Ngoma	Zaza				
118	Ng14Ss18		Spring	-02	11	50.57840	30	24	50.62338	Ngoma	Zaza				
1	Ng04Sb01	Kazo Hp01	Groundwater	-02	13	16.86700	30	28	36.72656	Ngoma	Kazo				
2	Ng07Sb01	Murama Hp01	Groundwater	-02	14	54.05145	30	33	10.25102	Ngoma	Murama				
3	Ng07Sb02	Murama Hp02	Groundwater	-02	16	35.88675	30	32	58.69677	Ngoma	Murama				
4	Ng07Sb03	Murama Hp03	Groundwater	-02	16	28.28570	30	32	55.89142	Ngoma	Murama				
5	Ng07Sb04	Murama Hp04	Groundwater	-02	14	33.11611	30	33	10.65399	Ngoma	Murama				
6	Ng07Sb05	Murama Hp05	Groundwater	-02	13	02.50619	30	33	30.66129	Ngoma	Murama				
7	Ng07Sb06	Murama Hp06	Groundwater	-02	14	13.35463	30	33	18.36353	Ngoma	Murama				

## D2. 東部県の水源一覧

### 2.5 ンゴマ郡 (4/4)

8	Ng07Sb07	Murama Hp07	Groundwater	-02	12	23.90199	30	33	40.81694	Ngoma	Murama				
9	Ng07Sb08	Murama Hp08	Groundwater	-02	13	27.80237	30	33	24.16374	Ngoma	Murama				
10	Ng07Sb09	Murama Hp09	Groundwater	-02	14	02.83990	30	33	20.90546	Ngoma	Murama				
11	Ng07Sb10	Murama Hp10	Groundwater	-02	15	24.33041	30	33	01.93634	Ngoma	Murama				
12	Ng07Sb11	Murama Hp11	Groundwater	-02	15	44.90754	30	32	55.67385	Ngoma	Murama				
13	Ng07Sb12	Murama Hp12	Groundwater	-02	13	41.90180	30	33	20.23270	Ngoma	Murama				
14	Ng12Sb01	Rurenge Hp01	Groundwater	-02	06	46.83140	30	30	28.37773	Ngoma	Rurenge				
15	Ng12Sb02	Rurenge Hp02	Groundwater	-02	05	07.23870	30	27	17.43067	Ngoma	Rurenge				
16	Ng12Sb03	Rurenge Hp03	Groundwater	-02	06	36.76115	30	29	59.27439	Ngoma	Rurenge				
17	Ng12Sb04	Rurenge Hp04	Groundwater	-02	05	50.99103	30	29	23.64091	Ngoma	Rurenge				
18	Ng12Sb05	Rurenge Hp05	Groundwater	-02	05	21.47218	30	29	08.38118	Ngoma	Rurenge				

## D2. 東部県の水源一覧

### 2.6 キレヘ郡 (1/2)

No.	Source Code No.	Name of Source	Type	Latitude			Longitude			Location			Discharge (lit/s)	Note
				°	'	"	°	'	"	Secteur	Cell	Umudugudu		
1	Ki01Ss02		Spring	-02	22	21.91444	30	32	17.06815	Gahara				
2	Ki01Ss04	Gashongora (Rubona)	Spring	-02	18	59.40256	30	31	59.27464	Gahara			3	
3	Ki02Ss01		Spring	-02	20	47.42159	30	34	06.81589	Gatore				
4	Ki02Ss03		Spring	-02	20	47.41586	30	34	04.81138	Gatore				
5	Ki02Ss04		Spring	-02	19	49.26983	30	33	25.62541	Gatore				
6	Ki02Ss05		Spring	-02	22	49.48762	30	33	15.18612	Gatore				
7	Ki02Ss06	Gahezi (Gatore 1&2)	Spring	-02	17	39.51887	30	35	15.32548	Gatore				
8	Ki02Ss07		Spring	-02	15	46.10609	30	35	14.36109	Gatore				
9	Ki03Ss01	Gashanga II-	Spring	-02	28	48.48862	30	42	19.81986	Kigarama				Gashanga 2
10	Ki03Ss02	Gashanga I	Spring	-02	28	50.65608	30	42	33.64175	Kigarama				Gashanga-1
11	Ki03Ss03	Nyakagera	Spring	-02	20	13.77512	30	41	04.57525	Kigarama				Nyakagera
12	Ki03Ss04		Spring	-02	21	10.60312	30	39	35.45201	Kigarama				
13	Ki03Ss05		Spring	-02	18	31.78722	30	43	01.75278	Kigarama				
14	Ki03Ss06	Nyagashankara	Spring	-02	21	46.49098	30	40	54.54905	Kigarama				Nyagashakara
15	Ki03Ss07		Spring	-02	20	09.66169	30	40	13.06134	Kigarama				
16	Ki04Ss01	Muguruka	Spring	-02	17	10.09537	30	42	05.80092	Kigina	Muguruka			
17	Ki04Ss02	Kabugwe, Gasebura	Spring	-02	17	17.54343	30	42	53.31153	Kigina	Gasebura			
18	Ki04Ss03	Ruhama	Spring	-02	17	58.09119	30	42	14.05616	Kigina				
19	Ki04Ss04	Gasarasi	Spring	-02	13	49.18699	30	41	33.60406	Kigina				
20	Ki04Ss05		Spring	-02	16	10.71760	30	44	07.90135	Kigina	Gahama			
21	Ki04Ss06		Spring	-02	16	08.79275	30	44	07.03020	Kigina				
22	Ki04Ss07		Spring	-02	17	13.07604	30	43	29.75038	Kigina				
23	Ki04Ss08		Spring	-02	15	57.35557	30	40	53.12178	Kigina				
*24	Ki04Ss09	Rwakiriba	Spring	-02	14	19.66751	30	41	10.62832	Kigina	Koheve			Replacement planned
25	Ki05Ss01		Spring	-02	16	01.36189	30	38	08.08284	Kirehe				
26	Ki05Ss02		Spring	-02	13	51.28595	30	39	00.61786	Kirehe				
27	Ki05Ss03		Spring	-02	15	02.95937	30	38	58.78534	Kirehe				
28	Ki05Ss04		Spring	-02	15	33.25251	30	37	48.67317	Kirehe				
29	Ki05Ss05		Spring	-02	14	28.10440	30	37	18.72825	Kirehe				
30	Ki05Ss06		Spring	-02	14	51.15617	30	37	29.84316	Kirehe				
33	Ki07Ss01	Kertav	Spring	-02	07	50.27010	30	47	37.15670	Mpanga	Keretav			
34	Ki07Ss02	Kayanga	Spring	-02	05	58.52237	30	47	56.54736	Mpanga	Kayanga			
35	Ki07Ss03	Gakirarugo	Spring	-02	09	32.45482	30	48	53.06124	Mpanga	Gakirarugo			
36	Ki07Ss04	Nyagahanga	Spring	-02	11	32.93063	30	49	13.39999	Mpanga	Nyagahanga			
37	Ki07Ss05	Nyagatovu	Spring	-02	11	26.80695	30	48	11.51017	Mpanga				
38	Ki07Ss06	Rwakiriba	Spring	-02	11	51.43053	30	48	02.06514	Mpanga				
39	Ki07Ss07		Spring	-02	10	53.86114	30	48	21.88911	Mpanga	Nyakagera			
40	Ki07Ss08		Spring	-02	06	07.75678	30	45	36.64166	Mpanga	Kansinzi			
41	Ki07Ss09		Spring	-02	10	06.01831	30	47	20.90543	Mpanga	Kamarobe			
42	Ki07Ss10		Spring	-02	10	29.26743	30	49	39.97167	Mpanga				
New	Ki07Ss11	Source to exploit								Mpanga				Development planned
?	Ki08Ss01	Gashyuha	Spring	?	?	?	?	?	?	Musaza				
43	Ki08Ss03	Nyamigano	Spring	-02	19	46.03659	30	35	42.81024	Musaza				
*44	Ki08Ss04		Spring	-02	20	40.60811	30	36	59.25672	Musaza				Replacement planned



## D2. 東部県の水源一覧

### 2.6 キレヘ郡 (2/2)

45	Ki08Ss05		Spring	-02	19	42.46027	30	35	34.95573	Musaza				
46	Ki08Ss06		Spring	-02	19	46.53328	30	35	43.90378	Musaza				
47	Ki08Ss07	Nyabuogo	Spring	-02	21	51.81111	30	35	02.44957	Musaza				
48	Ki09Ss01		Spring	-02	10	09.05963	30	43	37.87647	Mushikiri				
49	Ki09Ss02		Spring	-02	09	57.24105	30	43	47.28710	Mushikiri				
50	Ki09Ss03		Spring	-02	10	34.81055	30	42	41.91057	Mushikiri				
51	Ki09Ss04		Spring	-02	09	00.13333	30	40	28.10019	Mushikiri				
52	Ki09Ss05		Spring	-02	08	36.71855	30	39	34.84278	Mushikiri				
53	Ki09Ss06		Spring	-02	11	31.30723	30	38	07.52280	Mushikiri				
54	Ki09Ss07		Spring	-02	11	57.48240	30	37	17.51100	Mushikiri				
55	Ki09Ss08		Spring	-02	13	11.71012	30	36	05.48242	Mushikiri				
56	Ki09Ss09		Spring	-02	14	06.72431	30	35	03.56302	Mushikiri				
57	Ki09Ss10		Spring	-02	14	49.96909	30	35	39.85281	Mushikiri				
New	Ki09Ss11	Source to exploit								Mushikiri				Development planned
*58	Ki10Ss05		Spring	-02	08	25.60938	30	43	41.20324	Nasho				Replacement planned
*59	Ki10Ss06		Spring	-02	09	02.00478	30	43	35.30316	Nasho				Replacement planned
60	Ki10Ss07	Kabahimba1	Spring	-02	08	08.01593	30	40	27.36633	Nasho				
61	Ki10Ss08	Kireranyana1	Spring	-02	08	14.48723	30	42	20.93542	Nasho				
62	Ki10Ss09	Kabahimba2	Spring	-02	08	25.60938	30	43	41.20324	Nasho				
63	Ki10Ss10	Kireranyana2	Spring	-02	08	26.24185	30	42	11.51966	Nasho				
64	Ki10Ss11	Nyakijima	Spring	-02	08	10.88315	30	41	18.67626	Nasho				
65	Ki10Ss12	Gikombe	Spring	-02	07	45.58727	30	40	09.25539	Nasho				
67	Ki11Ss02		Spring	-02	15	38.55000	30	44	43.26507	Nyamugali				
68	Ki11Ss03		Spring	-02	14	07.30151	30	44	04.18773	Nyamugali				
*69	Ki11Ss04		Spring	-02	15	37.43323	30	44	42.00798	Nyamugali				Ki11Ss04, 05 and 06 planned for integration
*70	Ki11Ss05		Spring	-02	15	36.80469	30	44	41.98777	Nyamugali				
*71	Ki11Ss06		Spring	-02	15	36.66951	30	44	41.69145	Nyamugali				
*72	Ki12Ss01	Kamombo	Spring	-02	13	05.30461	30	47	56.48400	Nyarubuye				Rehabilitation planned
*73	Ki12Ss02	Nyakagera	Spring	-02	12	34.66536	30	48	20.20022	Nyarubuye				Rehabilitation planned
74	Ki12Ss04	Mayizi	Spring	-02	14	37.91726	30	45	57.68953	Nyarubuye				
75	Ki12Ss05		Spring	-02	09	36.17086	30	43	36.77991	Nyarubuye				
76	Ki12Ss06		Spring	-02	14	37.98395	30	45	14.51746	Nyarubuye				
77	Ki12Ss07		Spring	-02	12	23.92553	30	47	41.38178	Nyarubuye				
78	Ki12Ss08		Spring	-02	09	47.82076	30	44	10.96259	Nyarubuye				
79	Ki12Ss09		Spring	-02	09	47.81956	30	44	11.75709	Nyarubuye				
80	Ki12Ss10		Spring	-02	10	08.96368	30	44	40.27806	Nyarubuye				
81	Ki12Ss11		Spring	-02	10	23.26294	30	44	46.61598	Nyarubuye				
82	Ki12Ss12		Spring	-02	10	08.96368	30	44	40.27806	Nyarubuye				
83	Ki12Ss13		Spring	-02	10	23.26294	30	44	46.61598	Nyarubuye				
84	Ki12Ss14		Spring	-02	11	51.39312	30	48	01.94595	Nyarubuye				
85	Ki12Ss15	Kamsare	Spring	-02	09	19.72677	30	45	39.23248	Nyarubuye				
New	Ki12Ss16	Source to exploit	Spring	-02	13	12.35643	30	45	26.23736	Nyarubuye				Development planned
New	Ki12Ss17	Source to exploit	Spring	-02	10	49.52049	30	45	08.70170	Nyarubuye				Development planned
1	Ki02Sb01	Gatore Hp01	Groundwater	-02	17	25.18853	30	34	00.05160	Gatore				
2	Ki02Sb02	Gatore Hp02	Groundwater	-02	19	19.80770	30	33	43.05139	Gatore				

## D2. 東部県の水源一覧

### 2.7 ブゲセラ郡 (1/2)

No	Source Code	Name of Source	Type	Latitude			Longitude			Location				Discharge (lit/s)	Note
				°	'	"	°	'	"	District	Secteur	Cell	Umudugudu		
1	Rw04SI02	Karenge Plant	Lake	-02	05	27.00594	30	18	12.82077	Rwamagana	Karenge				
2	Bu11SI01	Cyohoha South Lake	Lake	-02	20	26.44132	30	00	08.95217	Bugesera	Nyarugenge			500+500	
1	Bu06Ss01		Spring	-02	10	32.92311	30	02	01.60334	Bugesera	Musenyi				
2	Bu06Ss02		Spring	-02	10	24.38846	30	03	03.33143	Bugesera	Musenyi				
3	Bu06Ss03		Spring	-02	11	21.47143	30	02	11.47444	Bugesera	Musenyi				
4	Bu06Ss04		Spring	-02	09	22.54601	30	00	04.99052	Bugesera	Musenyi				
5	Bu06Ss05		Spring	-02	09	57.64449	29	59	46.23474	Bugesera	Musenyi				
6	Bu06Ss06		Spring	-02	10	23.88997	30	03	03.28527	Bugesera	Musenyi				
7	Bu09Ss01		Spring	-02	10	23.88997	30	03	03.28527	Bugesera	Ntarama				
8	Bu010Ss01		Spring	-02	08	03.35965	30	06	47.13408	Bugesera	Nyamata				
9	Bu010Ss02		Spring	-02	08	03.35966	30	03	36.14417	Bugesera	Nyamata				
10	Bu010Ss03		Spring	-02	08	03.35967	30	04	56.02153	Bugesera	Nyamata				
11	Bu010Ss04		Spring	-02	08	03.35968	30	04	56.27500	Bugesera	Nyamata				
1	Bu02Sb01	Juru Hp01	Groundwater	-02	08	11.73348	30	13	30.62314	Bugesera	Juru				
2	Bu02Sb02	Juru Hp02	Groundwater	-02	04	27.86444	30	14	03.74517	Bugesera	Juru				
3	Bu02Sb03	Juru Hp03	Groundwater	-02	04	21.84788	30	12	04.66495	Bugesera	Juru				
4	Bu05Sb01	Mayange Hp01	Groundwater	-02	12	23.45812	30	06	38.65887	Bugesera	Mayange				
5	Bu05Sb02	Mayange Hp02	Groundwater	-02	12	46.67948	30	06	38.90178	Bugesera	Mayange				
6	Bu05Sb03	Mayange Hp03	Groundwater	-02	11	00.80075	30	07	07.83916	Bugesera	Mayange				
7	Bu05Sb04	Mayange Hp04	Groundwater	-02	10	58.91060	30	07	08.15388	Bugesera	Mayange				
8	Bu05Sb05	Mayange Hp05	Groundwater	-02	12	54.57171	30	05	28.08533	Bugesera	Mayange				
9	Bu05Sb06	Mayange Hp06	Groundwater	-02	12	57.59916	30	05	28.91181	Bugesera	Mayange				
10	Bu05Sb07	Mayange Hp07	Groundwater	-02	13	38.55246	30	06	07.70038	Bugesera	Mayange				
11	Bu05Sb08	Mayange Hp08	Groundwater	-02	13	58.38549	30	06	05.35127	Bugesera	Mayange				
12	Bu05Sb09	Mayange Hp09	Groundwater	-02	13	59.50739	30	06	43.30459	Bugesera	Mayange				
13	Bu05Sb10	Mayange Hp10	Groundwater	-02	14	08.13589	30	07	20.77542	Bugesera	Mayange				
14	Bu06Sb01	Musenyi Hp01	Groundwater	-02	12	43.78963	30	05	24.36084	Bugesera	Musenyi				
15	Bu06Sb02	Musenyi Hp02	Groundwater	-02	11	02.56327	30	01	55.66222	Bugesera	Musenyi				
16	Bu06Sb03	Musenyi Hp03	Groundwater	-02	10	09.78383	30	01	52.46700	Bugesera	Musenyi				
17	Bu06Sb04	Musenyi Hp04	Groundwater	-02	10	27.36853	30	00	46.17497	Bugesera	Musenyi				
18	Bu06Sb05	Musenyi Hp05	Groundwater	-02	09	44.79664	30	00	41.19068	Bugesera	Musenyi				
19	Bu06Sb06	Musenyi Hp06	Groundwater	-02	08	30.11720	30	00	43.75343	Bugesera	Musenyi				
20	Bu06Sb07	Musenyi Hp07	Groundwater	-02	11	29.34586	29	59	38.67503	Bugesera	Musenyi				
21	Bu06Sb08	Musenyi Hp08	Groundwater	-02	11	00.33304	29	59	42.22239	Bugesera	Musenyi				
22	Bu07Sb01	Mwogo Hp01	Groundwater	-02	04	13.62885	30	09	33.51670	Bugesera	Mwogo				
23	Bu07Sb02	Mwogo Hp02	Groundwater	-02	05	51.17721	30	07	02.35911	Bugesera	Mwogo				
24	Bu09Sb01	Ntarama Hp01	Groundwater	-02	06	25.95342	30	02	20.56039	Bugesera	Ntarama				
25	Bu09Sb02	Ntarama Hp02	Groundwater	-02	06	25.75185	30	02	22.25079	Bugesera	Ntarama				
26	Bu09Sb03	Ntarama Hp03	Groundwater	-02	05	07.31688	30	02	27.30628	Bugesera	Ntarama				

## D2. 東部県の水源地一覧

### 2.7 ブゲセラ郡 (2/2)

27	Bu09Sb04	Ntarama Hp04	Groundwater	-02	06	29.27839	30	04	27.91154	Bugesera	Ntarama				
28	Bu09Sb05	Ntarama Hp05	Groundwater	-02	06	32.40088	30	04	33.52769	Bugesera	Ntarama				
29	Bu09Sb06	Ntarama Hp06	Groundwater	-02	04	30.58320	30	04	37.47697	Bugesera	Ntarama				
30	Bu09Sb07	Ntarama Hp07	Groundwater	-02	05	03.79454	30	03	41.60340	Bugesera	Ntarama				
31	Bu09Sb08	Ntarama Hp08	Groundwater	-02	07	59.79540	30	06	09.29512	Bugesera	Ntarama				
32	Bu09Sb09	Ntarama Hp09	Groundwater	-02	05	45.06378	30	06	26.69062	Bugesera	Ntarama				
33	Bu09Sb10	Ntarama Hp10	Groundwater	-02	07	13.91212	30	04	28.30170	Bugesera	Ntarama				
34	Bu09Sb11	Ntarama Hp11	Groundwater	-02	08	50.51057	30	04	46.32001	Bugesera	Ntarama				
35	Bu09Sb12	Ntarama Hp12	Groundwater	-02	08	00.38743	30	03	51.87040	Bugesera	Ntarama				
36	Bu09Sb13	Ntarama Hp13	Groundwater	-02	09	02.81316	30	02	48.01770	Bugesera	Ntarama				
37	Bu09Sb14	Ntarama Hp14	Groundwater	-02	09	20.44282	30	02	13.94124	Bugesera	Ntarama				
38	Bu10Sb01	Nyamata Hp01	Groundwater	-02	10	53.41244	30	08	58.18437	Bugesera	Nyamata				
39	Bu10Sb02	Nyamata Hp02	Groundwater	-02	08	06.72324	30	06	51.55892	Bugesera	Nyamata				
40	Bu10Sb03	Nyamata Hp03	Groundwater	-02	08	24.26026	30	07	28.33181	Bugesera	Nyamata				
41	Bu10Sb04	Nyamata Hp04	Groundwater	-02	08	35.81965	30	07	33.94886	Bugesera	Nyamata				
42	Bu10Sb05	Nyamata Hp05	Groundwater	-02	10	57.77904	30	07	06.20157	Bugesera	Nyamata				
43	Bu10Sb06	Nyamata Hp06	Groundwater	-02	09	37.69529	30	04	22.98580	Bugesera	Nyamata				
44	Bu10Sb07	Nyamata Hp07	Groundwater	-02	09	01.02560	30	04	55.26655	Bugesera	Nyamata				
45	Bu12Sb01	Rilima Hp01	Groundwater	-02	10	13.08556	30	12	54.34271	Bugesera	Rilima				

### **D3. 東部県の既存給水施設一覧**

3.1 ニヤガタレ郡

3.2 ガツイボ郡

3.3 カヨンザ郡

3.4 ルワマガナ郡

3.5 ンゴマ郡

3.6 キレヘ郡

3.7 ブゲセラ郡







D3. 東部県の既存給水施設一覧

3.2 ガツイボ郡 (2/2)

Scheme Code	Actual / Future		Intake	Source Code	Called name	Facility	Treatment		Transmission				Distribution			Public Distribution		Private Distribution		Service Area		Served	Note	Project Executed		Project Rehabilitated		Water Service Provider					Water Fee Collection					
	Situation of work plan	Type					Source type	Plant_Tank	Power Type	Pump_House	Pump Tank	Receiving Tank	Pipe (km)	Tank	BP Tank	Pipe (km)	HandPump	Tap Stand	Tap Stand	Tap in House	District			Secteur	Population	Fund	Completion	Fund	Completion	Provider Type	Name	Contract year	Free / Metered	Flat / FRW	Flat rate /FR	Volumetric rate/m <sup>3</sup> /FR		
GaEWHp- 39	Operating		Groundwater	Ga09Sb03	Murambi Hp03												Murambi											Nil	Nil	Nil	Free							
GaEWHp- 40	Operating		Groundwater	Ga09Sb04	Murambi Hp04												Murambi												Nil	Nil	Nil	Free						
GaEWHp- 41	Operating		Groundwater	Ga09Sb05	Murambi Hp05												Murambi												Nil	Nil	Nil	Free						
GaEWHp- 42	Operating		Groundwater	Ga09Sb06	Murambi Hp06												Murambi												Nil	Nil	Nil	Free						
GaEWHp- 43	Operating		Groundwater	Ga09Sb07	Murambi Hp07												Murambi												Nil	Nil	Nil	Free						
GaEWHp- 44	Operating		Groundwater	Ga09Sb08	Murambi Hp08												Rugarama												Nil	Nil	Nil	Free						
GaEWHp- 45	Operating		Groundwater	Ga13Sb01	Rugarama Hp01												Rugarama												Nil	Nil	Nil	Free						
GaEWHp- 46	Operating		Groundwater	Ga13Sb02	Rugarama Hp02												Rugarama												Nil	Nil	Nil	Free						
GaEWHp- 47	Operating		Groundwater	Ga13Sb03	Rugarama Hp03												Rugarama												Nil	Nil	Nil	Free						
GaEWHp- 48	Operating		Groundwater	Ga13Sb04	Rugarama Hp04												Rugarama												Nil	Nil	Nil	Free						
GaEWHp- 49	Operating		Groundwater	Ga13Sb05	Rugarama Hp05												Rugarama												Nil	Nil	Nil	Free						
GaEWHp- 50	Operating		Groundwater	Ga13Sb06	Rugarama Hp06												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 51	Operating		Groundwater	Ga14Sb01	Rwinbogo Hp01												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 52	Operating		Groundwater	Ga14Sb02	Rwinbogo Hp02												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 53	Operating		Groundwater	Ga14Sb03	Rwinbogo Hp03												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 54	Operating		Groundwater	Ga14Sb04	Rwinbogo Hp04												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 55	Operating		Groundwater	Ga14Sb05	Rwinbogo Hp05												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 56	Not Operating		Groundwater	Ga14Sb06	Rwinbogo Hp06												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 57	Operating		Groundwater	Ga14Sb07	Rwinbogo Hp07												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 58	Operating		Groundwater	Ga14Sb08	Rwinbogo Hp08												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 59	Operating		Groundwater	Ga14Sb09	Rwinbogo Hp09												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 60	Operating		Groundwater	Ga14Sb10	Rwinbogo Hp10												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 61	Operating		Groundwater	Ga14Sb11	Rwinbogo Hp11												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 62	Not Operating		Groundwater	Ga14Sb12	Rwinbogo Hp12												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 63	Operating		Groundwater	Ga14Sb13	Rwinbogo Hp13												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 64	Operating		Groundwater	Ga14Sb14	Rwinbogo Hp14												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 65	Not Operating		Groundwater	Ga14Sb15	Rwinbogo Hp15												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 66	Operating		Groundwater	Ga14Sb16	Rwinbogo Hp16												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 67	Operating		Groundwater	Ga14Sb17	Rwinbogo Hp17												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 68	Not Operating		Groundwater	Ga14Sb18	Rwinbogo Hp18												Rwinbogo												Nil	Nil	Nil	Free						
GaEWHp- 69	Operating		Groundwater	Ga14Sb19	Rwinbogo Hp19												Rwinbogo												Nil	Nil	Nil	Free						













