

Annexe - 6 Autres données pertinentes

ANNEXE AU CHAPITRE 1

Les participants inscrivent de la 1ère réunion de la consultation publique

Non	Noms	Organisation	Position	Contact
1.	HABIMANA Anastase	Bugera	Farmer	0788591827
2.	TURATSINZE Siste	Ndekwe	Farmer	0786973171
3.	SINGIRANKABO J. Claude	Ndekwe	Executive Secretary of the Cell.	0787157813
4.	UFITIKIREZI Colette (Fe)	Bugera	Executive Secretary of the Cell.	0787157810
5.	MUNYURANGABO Félicien	Bugera	Farmer	0784281474
6.	NIYIGENA J.M V	Bugera	Farmer	0784393007
7.	NSABIYUMVA Eric	Muhurire	Farmer	0784919635
8.	NDAGIJIMANA Wellars	Muhurire	Farmer	0784350035
9.	NTEZIMANA Emmanuel	Muhurire	Farmer	0783872296
10.	MANIRAGENA J. Damascène	Ndekwe	Farmer	0785127477
11.	UBONYEBENSHI Joseph	Ndekwe	Farmer	0725334050 0731076695
12.	MUKAGIRUKWAYO Everusi (Fe)	Rujambarara	Farmer	0787685803
13.	MUKANKURANGA Ernestina (Fe)	Rujambarara	Farmer	-----
14.	MUTABAZI	Rujambarara	Farmer	-----
15.	NIYITEGEKA Philemon	Bugera	Farmer	0728096007
16.	NTAWIRINGIRA Elie	Ndekwe	Farmer	0783672297
17.	MURAGIJEMWABO Arcade	Rurenge	Executive Secretary of Rurenge Sector	0787236665
18.	NZAHABWANAYO Gaspard	Rujambara	Executive Secretary of Rujambara Cell	0784190535
19.	MANAGUSA African	Muhurire	S.E.D of Cell	0788650593
20.	NTAKAVURO Emmanuel	Rurenge	Farmer	0788770385
21.	MUKARUKUNDO Victoire	Remera Sector	Executive Secretary of Remera Sector	0783696013

Les participants inscrivent de la 2e réunion de la consultation publique

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

Les participants inscrivent de la 3e réunion de la consultation publique

Jica Representatives:

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

The Rwandan Government Officers and Representatives of Beneficiaries:

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

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicapped person	Q5. Main income source	Q6. 1st crop name	Q6.1 st crop bags for sale	Q6.1 st crop price/bag (Rwf)	income from 1st crop
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*	44	0783736410	2	1	0	Male	Secondary Low level	0	Carpentry	Sorghum	5	20,000	100,000
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille	42	0786536250	3	3	0	Female	Primary	0	Agriculture	Eggplant	10	7,000	70,000
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph	32	0784819425	2	1	0	Male	Primary	0	Agriculture	Eggplant	3	12,000	36,000
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	64	N/A	4	2	0	Male	None	0	Agriculture	Sorghum	2	22,000	44,000
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	37	0788481571	3	4	0	Male	Primary	0	Agriculture	Beans	4	30,000	120,000
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette	54	0782926965	2	7	0	Female	Primary	2	Agriculture	Sorghum	3	20,000	60,000
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	84	0725383436	2	1	1	Female	None	0	Agriculture	Sorghum	10	30,000	300,000
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	50	0782453960	4	3	0	Male	Primary	1	Agriculture	Cabbage	8	5,000	40,000
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	54	0784537669	3	2	0	Male	Primary	0	Agriculture	Maize	10	30,000	300,000
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	59	0727293436	3	4	0	Female	None	1	Agriculture	Sorghum	8	24,500	196,000
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	46	0783046129	3	4	0	Male	Primary	0	Agriculture	Cabbage	15	7,000	105,000
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	33	N/A	2	3	0	Female	None	0	Agriculture	Sorghum	3	25,000	75,000
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	65	0788624319	1	4	0	Female	None	1	Agriculture	Beans	9	25,000	225,000
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	45	0788227524	5	1	0	Male	Primary	0	Agriculture	Beans	4	25,000	100,000
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	37	0788957794	4	1	0	Male	Primary	0	Agriculture	Beans	3	30,000	90,000
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	25	N/A	2	1	0	Male	Primary	0	Agriculture	Sorghum	5	20,000	100,000
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	48	0783872296	6	2	0	Male	None	0	Agriculture	Cabbage	8	10,000	80,000
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	29	N/A	1	3	0	Male	None	0	Agriculture	Sorghum	3	15,000	45,000
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	62	N/A	3	4	0	Male	None	0	Agriculture	Coffee	7	15,000	105,000
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	42	N/A	4	2	0	Male	None	0	Agriculture	Sorghum	3	20,000	60,000
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	37	0788957794	3	2	0	Male	Primary	0	Agriculture	Cabbage	10	15,000	150,000
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	57	0782493784	4	2	1	Female	Primary	0	Agriculture	Sorghum	3	25,000	75,000
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	67	0783370085	4	2	2	Male	Primary	0	Agriculture	Tomato	12.5	8,000	100,000
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	31	0783385727	2	2	0	Male	Primary	0	Agriculture	Sorghum	3	20,000	60,000
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	44	0783370526	5	3	0	Male	Primary	0	Agriculture	Cabbage	20	6,000	120,000
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	40	0784184501	3	2	0	Female	Secondary Low level	0	Agriculture	Beans	5	40,000	200,000
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	43	0788770385/072	7	10	0	Male	Secondary Low level	0	Agriculture	Cabbage	20	6,500	130,000
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	27	0788957794	2	2	0	Male	Primary	0	Agriculture	Sorghum	5	20,000	100,000
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene	34	0786735219	3	2	0	Male	Primary	0	Agriculture	Eggplant	20	15,000	300,000
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	44	N/A	3	5	0	Male	None	0	Agriculture	Sorghum	8	20,000	160,000
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie	70	N/A	2	3	1	Female	None	1	Agriculture	Sorghum	2	21,000	42,000
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	53	N/A	2	6	1	Male	Primary	0	Agriculture	Maize	4	35,000	140,000
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	21	078697344	2	1	0	Male	Primary	0	Agriculture	Sorghum	6	20,000	120,000
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Françoise	40	N/A	2	3	0	Female	Primary	0	Agriculture	Sweet pota	1	6,000	6,000
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse	32	N/A	2	2	0	Male	None	0	Agriculture	Sorghum	10	20,000	200,000
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	65	N/A	0	1	0	Female	None	0	Agriculture	Sorghum	3	25,000	75,000

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

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicapped person	Q5. Main income source	Q6. 1st crop name	Q6.1 st crop bags for sale	Q6.1 st crop price/bag (Rwf)	income from 1st crop
73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.	20	0784919607	1	1	0	Male	None	0	Agriculture	Cabbage	2	5,400	10,800
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	28	N/A	1	0	0	Male	None	0	Agriculture	Sorghum	10	20,000	200,000
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	74	N/A	3	2	1	Male	None	0	Agriculture	Sorghum	30	20,000	600,000
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*	57	N/A	0	4	0	Female	None	0	Agriculture	Sorghum	1	20,000	20,000
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	31	0785500072	3	1	0	Male	None	0	Agriculture	Sorghum	4	25,000	100,000
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	31	0784394096	4	3	0	Male	Primary	0	Agriculture	Beans	1	30,000	30,000
79	Rurenge	Muhurire	Gitobe	BARAME Silas	50	N/A	4	2	0	Male	None	0	Agriculture	Maize	0.5	20,000	10,000
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*	55	0726139419	3	1	0	Female	Secondary Low level	0	Agriculture	Beans	1	25,000	25,000
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	36	0783085391	2	1	0	Male	Primary	0	Agriculture	Sorghum	3	25,000	75,000
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	47	0784350035	2	2	0	Male	Primary	0	Agriculture	Maize	2	30,000	60,000
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	38	0787030269	5	5	0	Male	Primary	0	Agriculture	Cabbage	7	5,000	35,000
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	33	N/A	2	1	0	Male	Primary	0	Agriculture	Beans	1	30,000	30,000
85	Rurenge	Muhurire	Gitobe	NABAHIRE	56	N/A	1	3	0	Male	None	0	Agriculture	Tomato	30	5,000	150,000
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	50	0722885910	2	3	2	Male	Secondary Low level	0	Agriculture	Tomato	25	12,000	300,000
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	25	0726621379	2	3	0	Male	None	0	Agriculture	Sorghum	1	18,000	18,000
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	25	072252990	3	1	0	Male	None	0	Agriculture	Sorghum	1	18,000	18,000
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	36	N/A	1	5	0	Male	None	0	Agriculture	Sorghum	4	18,000	72,000
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	34	0786402161	4	2	0	Male	Primary	0	Agriculture	Beans	3	30,000	90,000
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	49	0727354218	1	5	0	Female	Secondary Low level	0	Agriculture	Beans	1	30,000	30,000
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent	59	N/A	1	3	0	Male	None	0	Agriculture	Sorghum	5	20,000	100,000
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	77	N/A	0	4	1	Female	None	0	Agriculture	Beans	0.5	15,000	7,500
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	31	N/A	3	1	0	Male	None	0	Agriculture	Beans	0.5	6,000	3,000
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	29	0789316103	3	1	0	Male	Primary	0	Agriculture	Sorghum	15	22,000	330,000
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	59	N/A	3	3	0	Male	Primary	0	Agriculture	Sorghum	6	20,000	120,000
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	38	0784919635	3	5	0	Male	Primary	0	Agriculture	Sorghum	1	20,000	20,000
98	Rurenge	Muhurire	Gitobe	MUHASHYI	59	N/A	2	6	0	Male	Primary	0	Agriculture	Carrot	5	5,000	25,000
99	Rurenge	Muhurire	Gitobe	KAWERA	23	N/A	2	2	0	Female	Primary	0	Agriculture	Carrot	2	20,000	40,000
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	25	N/A	1	3	0	Male	None	0	Agriculture	Coffee	2	15,600	31,200
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	41	0783427275	4	5	0	Male	Primary	0	Agriculture	Sorghum	4	20,000	80,000
102	Rurenge	Muhurire	Gitobe	RWAGATERA	50	0786011853	1	1	0	Male	None	0	Agriculture	Sorghum	1	25,000	25,000
103	Rurenge	Muhurire	Gitobe	BAZIRA	38	0786859378	2	4	0	Male	Primary	0	Agriculture	Sorghum	3	20,000	60,000
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	85	0784350149	3	2	1	Male	Primary	0	Agriculture	Carrot	1	10,000	10,000
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien	51	0782675713	4	4	0	Male	Primary	1	Agriculture	Sorghum	3	18,000	54,000
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	48	N/A	4	5	0	Male	None	0	Agriculture	Maize	5	20,000	100,000
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	46	0787360616	4	3	0	Male	Secondary Up	0	Education	Sorghum	6	20,000	120,000
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent	29	N/A	2	1	0	Male	Primary	0	Agriculture	Sorghum	6	20,000	120,000

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicapped person	Q5. Main income source	Q6. 1st crop name	Q6.1 st crop bags for sale	Q6.1 st crop price/bag (Rwf)	income from 1st crop
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	43	0783602117	2	2	0	Male	Primary	0	Agriculture	Sorghum	9	22,000	198,000
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	37	N/A	4	2	0	Male	Primary	1	Agriculture	Sorghum	3	20,000	60,000
111	Rurenge	Rujambarara	Akarambaraye	MUTONI Angelique	30	N/A	2	1	0	Male	Primary	0	Agriculture	Sorghum	2	26,000	52,000
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	35	N/A	2	4	0	Male	Primary	0	Agriculture	Sorghum	2	35,000	70,000
113	Rurenge	Rujambarara	Kabeza	MUKAGAJU Annonciata*	35	0786743495	3	5	0	Male	Secondary Up	0	Agriculture	Sorghum	8	20,000	160,000
114	Rurenge	Rujambarara	Akarambaraye	NDARIKE Pierre*	34	0728330383	3	3	0	Male	Primary	0	Agriculture	Sorghum	3	19,000	57,000
115	Rurenge	Rujambarara	Nyabaganza	MUKANKWIRO Berthilde	50	N/A	1	2	0	Female	None	0	Agriculture	Sorghum	1	25,000	25,000
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	50	N/A	4	4	0	Male	None	0	Agriculture	Eggplant	4	5,000	20,000
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	45	N/A	3	4	0	Male	None	1	Agriculture	Sorghum	1	20,000	20,000
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	34	0783898500	3	3	0	Male	Primary	0	Agriculture	Sorghum	24	20,000	480,000
119	Rurenge	Rujambarara	Nyabaganza	HABINEZA Vedaste	31	N/A	2	1	0	Male	None	0	Agriculture	Coffee	1.5	15,000	22,500
120	Rurenge	Muhurire	Gitobe	NIBATETE	35	N/A	4	2	0	Male	None	1	Agriculture	Cassava	1	25,000	25,000
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	58	N/A	4	2	0	Male	Primary	0	Agriculture	Beans	7	32,000	224,000
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	64	N/A	3	1	0	Male	None	0	Agriculture	Beans	2	30,000	60,000
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique	21	0782508002	0	2	1	Female	None	0	Agriculture	Beans	2	18,000	36,000
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	32	0782926978	3	5	0	Male	Primary	0	Agriculture	Sorghum	5	22,000	110,000
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	43	0782058300	3	3	0	Male	Primary	0	Agriculture	Beans	5	45,000	225,000
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	40	0782184602	3	3	0	Male	None	0	Agriculture	Beans	1	6,000	6,000
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	50	0783358684	2	5	0	Male	Primary	0	Agriculture	Sorghum	2	20,000	40,000
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	42	0726318640	4	2	0	Male	Primary	0	Agriculture	Beans	1	30,000	30,000
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata	34	N/A	2	3	0	Female	None	0	Agriculture	Beans	1	30,000	30,000
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	49	0783356358	4	2	0	Male	Primary	0	Agriculture	Beans	2	30,000	60,000
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	46	N/A	5	3	0	Male	Primary	0	Agriculture	Maize	5	25,000	125,000
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	33	0786301465	3	1	0	Male	Primary	0	Agriculture	Beans	1	30,000	30,000
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien	30	0783689188	2	2	0	Male	Primary	0	Agriculture	Beans	2	20,000	40,000
134	Rurenge	Rujambarara	Akarambaraye	MUKAFASHAHO Euphrasie	63	N/A	0	1	0	Female	None	0	Agriculture	Beans	1	15,000	15,000
135	Rurenge	Rujambarara	Nyabaganza	NYAMURIMA Valens*	26	0784282343	2	1	0	Male	Primary	0	Agriculture	Rice	5	25,000	125,000
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	54	N/A	7	4	0	Male	Primary	0	Agriculture	Coffee	3	20,000	60,000
137	Rurenge	Muhurire	Nyamata	NGENDAHAHO	37	0788868805	4	2	0	Male	Primary	0	Agriculture	Beans	5	35,000	175,000
138	Rurenge	Rujambarara	Nyabaganza	KAGABO Fidele	31	N/A	3	3	0	Male	None	1	Agriculture	Sorghum	6	20,000	120,000
139	Rurenge	Rujambarara	Nyabaganza	MUKANKURANA Ernestine*	55	N/A	0	2	0	Female	Primary	0	Agriculture	Beans	2	35,000	70,000
140	Rurenge	Rujambarara	Akarambaraye	INGABIRE Marie Michel	34	0733979725	4	2	0	Male	Secondary Low level	0	Agriculture	Cassava	6		-
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	29	0727319360	1	3	0	Male	Primary	0	Agriculture	Beans	2	30,000	60,000
142	Rurenge	Rujambarara	Akarambaraye	MUKABATABAZI Evanisi	58	N/A	1	3	1	Male	None	0	Agriculture	Beans	1		-
143	Rurenge	Rujambarara	Nyabaganza	IYAKAREMYE Eric	26	0787668513	3	2	0	Male	None	0	Agriculture	Tree tomat	3	40,000	120,000
144	Rurenge	Rujambarara	Mashyoza	GISAGARA	41	N/A	1	0	0	Male	Primary	0	Agriculture	Sorghum	4	20,000	80,000

* The persons have hillside farmlands to be submered.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

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

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q6. 2nd crop name	Q6.2nd crop bags for sale	Q6. 2nd crop price/bag (Rwf)	income from 2nd crop	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	income from 3rd crop	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	income from 4th crop
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	Sorghum	1	20,000	20,000	Beans	1	30,000	30,000	Cassava	1.5	10,000	15,000
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	Sweet potatoes	1	5,000	5,000	Eggplant	6	12,500	75,000				-
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	Beans	1	30,000	30,000	Coffee	7	13,000	91,000	Sweet potatoes	2	10,000	20,000
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	Sorghum	3	20,000	60,000	Maize	1.5	36,000	54,000	Cabbage	30	5,000	150,000
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	Eggplant	20	12,000	240,000	Sorghum	2	20,000	40,000	Banana	100	4,000	400,000
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	Sweet potatoes	3	24,000	72,000	Sorghum	6	120,000	720,000	Cabbage	8	5,000	40,000
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	Cabbage	10	6,000	60,000	Celery	1	12,000	12,000	Carrot	5	9,000	45,000
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	Sweet potatoes	3	5000	15,000	Tomato	5	9,000	45,000	Eggplant	4	6,000	24,000
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	Beans	1	30,000	30,000	Carrot	7	4,000	28,000	Cabbage	8	7,500	60,000
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	Sorghum	3	20,000	60,000	Beans	1	30,000	30,000	Cassava	2	7,000	14,000
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	Eggplant	10	4,000	40,000	Sorghum	4	20,000	80,000	Beans	2	30,000	60,000
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	Sweet potatoes	6	10,000	60,000				-				-
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	Potatoes	1	10,000	10,000	Sweet potatoes	1	10,000	10,000	Eggplant	3	15,000	45,000
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	Beans	3	30,000	90,000	Tomato	20	13,000	260,000	Sorghum	5	20,000	100,000
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	Eggplant	15	10,000	150,000	Sorghum	4	20,000	80,000	Cassava	2	25,000	50,000
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	Sorghum	6	25,000	150,000	Beans	3	40,000	120,000	Cassava	5	25,000	125,000
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel	Cassava	0.5	20,000	10,000	Cabbage	4	7,500	30,000	Tomato	5	8,000	40,000
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina	Cabbage	18	8,000	144,000	Eggplant	5	15,000	75,000	Sweet potatoes	3	10,000	30,000
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene	Sorghum	2	23,000	46,000	Sweet potatoes	3	7,000	21,000	Cabbage	10	4,000	40,000
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	Eggplant	7	10,000	70,000	Sorghum	6	20,000	120,000	Beans	1	30,000	30,000
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse	Eggplant	2	18,000	36,000	Pili Pili	1	80,000	80,000	Banana	10	3,000	30,000
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO	Cabbage	8	5,000	40,000	Eggplant	4	4,800	19,200	Rice	6	30,000	180,000
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert	Beans	3	30,000	90,000	Maize	2	20,000	40,000	Sweet potatoes	2	10,000	20,000
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	Sorghum	5	20,000	100,000	Beans	2	30,000	60,000	Cassava	4	20,000	80,000
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette	Cassava	2	15,000	30,000	Potatoes	2	25,000	50,000	Sweet Potatoes	4	5,000	20,000
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens	Cabbage	9	12,000	108,000	Sweet potatoes	12	10,000	120,000	Beans	6	50,000	300,000
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste	Cabbage	5	4,000	20,000	Sorghum	4	20,000	80,000	Maize	2	30,000	60,000
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine	Eggplant	5	8,000	40,000	Sorghum	3	15,000	45,000	Beans	1	20,000	20,000
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens	Beans	5	3,000	15,000	Eggplant	10	5,000	50,000	Sweet potatoes	3	5,000	15,000
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	Eggplant	5	2,500	12,500	Cabbage	2	7,500	15,000	Maize	1	15,000	7,500
67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique	Celery	15	10,000	150,000	Eggplant	20	5,000	100,000	Maize	2	25,000	50,000
68	Rurenge	Rujambara	Nyabaganza	MUKANKUSI Juliette*	Sweet potatoes	1	6,000	6,000	Beans	1	25,000	25,000	Potatoes	2	10,000	20,000
69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel	Eggplant	4	12,000	48,000	Sorghum	5	25,000	125,000	Beans	2	50,000	100,000
70	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Joseph	Eggplant	15	12,000	180,000	Carrot	6	7,000	42,000	Cabbage	30	9,000	270,000
71	Rurenge	Rujambara	Nyabaganza	MPAGAZEHE Gerrard	Sweet Papper	30	7,000	210,000	Eggplant	40	12,500	500,000	Sorghum	2	23,000	46,000
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin	Beans	1	30,000	30,000	Eggplant	3	15,000	45,000	Sweet potatoes	4	9,000	36,000

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q6. 2nd crop name	Q6.2nd crop bags for sale	Q6. 2nd crop price/bag (Rwf)	income from 2nd crop	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	income from 3rd crop	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	income from 4th crop
73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.	Sweet potatoes	2	13,500	27,000	Sorghum	5	24,000	120,000	Cassava	2	20,000	40,000
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	Cabbage	50	10,000	500,000	Maize	3	30,000	90,000	Sweet potatoes	5	10,000	50,000
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	Maize	2	35,000	70,000	Beans	3	30,000	90,000	Cabbage	10	6,000	60,000
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*	Beans	0.5	30,000	15,000	Maize	1.5	20,000	30,000	Sweet potatoes	1	11,000	11,000
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	Sweet potatoes	1	14,000	14,000	Banana	10	10,000	100,000	Eggplant	20	6,000	120,000
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	Sorghum	2	20,000	40,000	Sweet potatoes	2	10,000	20,000	Cabbage	4	5,000	20,000
79	Rurenge	Muhurire	Gitobe	BARAME Silas	Sorghum	3	18,000	54,000				-				-
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*	Sorghum	15	20,000	300,000	Sweet potatoes	1	5,000	5,000	Cabbage	5	6,000	30,000
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	Sweet potatoes	1	12,000	12,000	Maize	1	21,000	21,000				-
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	Sweet potatoes	7	10,000	70,000	Eggplant	4	5,000	20,000	Potatoes	3	7,000	21,000
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	Sorghum	3	20,000	60,000	Beans	2	30,000	60,000	Cassava	4	10,000	40,000
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	Sorghum	8	20,000	160,000	Cabbage	20	2,000	40,000	Eggplant	10	5,000	50,000
85	Rurenge	Muhurire	Gitobe	NABAHIRE	Sweet potatoes	3	5,000	15,000	Maize	1	30,000	30,000	Beans	1	30,000	30,000
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	Sorghum	5	18,000	90,000	Beans	2	25,000	50,000	Maize	1	20,000	20,000
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	Beans	1	35,000	35,000	Cassava	2	30,000	60,000	Carrot	1	15,000	15,000
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	Beans	1	35,000	35,000	Sweet potatoes	1	15,000	15,000	Cabbage	60	6,000	360,000
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	Beans	2	35,000	70,000	Carrot	2	18,000	36,000	Sweet Pepper	2	25,000	50,000
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	Maize	3	20,000	60,000	Sorghum	8	30,000	240,000	Cabbage	3	15,000	45,000
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	Maize	0.5	10,000	5,000	Potatoes	1	10,000	10,000	Sorghum	3	25,000	75,000
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent	Beans	2	30,000	60,000	Sweet potatoes	3	12,000	36,000	Cabbage	20	6,000	120,000
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	Sorghum	1	20,000	20,000	Cabbage	2	6,000	12,000	Eggplant	2	7,000	14,000
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	Sweet potatoes	10	12,000	120,000	Cabbage	20	30,000	600,000				-
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	Beans	4	35,000	140,000	Sweet potatoes	10	8,000	80,000	Eggplant	8	15,000	120,000
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	Beans	2	30,000	60,000	Sweet potatoes	5	12,000	60,000	Cabbage	24	4,000	96,000
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	Cabbage	4	5,000	20,000	Carrot	2	6,000	12,000	Beans	1	30,000	30,000
98	Rurenge	Muhurire	Gitobe	MUHASHYI	Sorghum	1	30,000	30,000	Beans	1	35,000	35,000	Coffee	6	12,600	75,600
99	Rurenge	Muhurire	Gitobe	KAWERA	Sorghum	2	20,000	40,000	Beans	1.0	30,000	30,000	Coffee	2	15,600	31,200
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	Sorghum	1	20,000	20,000	Maize	0.5	30,000	15,000	Cabbage	3	7,000	21,000
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	Beans	1	30,000	30,000	Cabbage	5	5,000	25,000	Carrot	3	6,000	18,000
102	Rurenge	Muhurire	Gitobe	RWAGATERA	Sweet potatoes	1	10,000	10,000				-				-
103	Rurenge	Muhurire	Gitobe	BAZIRA	Cabbage	2	6,000	12,000	Tomato	5	8,000	40,000	Beans	2	30,000	60,000
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	Maize	3	30,000	90,000	Beans	2	35,000	70,000	Sorghum	6	20,000	120,000
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien	Maize	1	15,000	15,000	Cabbage	2	5,000	10,000	Beans	1	30,000	30,000
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	Sorghum	5	20,000	100,000	Cabbage	16	3,000	48,000	Tomato	10	3,000	30,000
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	Beans	1	30,000	30,000				-				-
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent	Beans	2	30,000	60,000	Maize	2	30,000	60,000				-

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q6. 2nd crop name	Q6.2nd crop bags for sale	Q6. 2nd crop price/bag (Rwf)	income from 2nd crop	Q6. 3rd crop name	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	income from 3rd crop	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	income from 4th crop
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	Beans	4	30,000	120,000	Sweet potatoes	3	10,000	30,000	Tomato	12	30,000	360,000
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	Maize	1	18,000	18,000	Beans	1		-	Tomato	5	8,000	40,000
111	Rurenge	Rujambarara	Akarambaraye	MUTONI Angélique	Beans	1	30,000	30,000	Tomato	3	15,000	45,000	Cabbage	3	15,000	45,000
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	Beans	1	40,000	40,000	Tomato	20	24,000	480,000	Cabbage	3	5,000	15,000
113	Rurenge	Rujambarara	Kabeza	MUKAGAJU Annonciata*	Beans	2	30,000	60,000	Cabbage	10	5,000	50,000	Sweet potatoes	15	10,000	150,000
114	Rurenge	Rujambarara	Akarambaraye	NDARIKE Pierre*	Beans	1	30,000	30,000	Sweet potatoes	5	7,500	37,500	Cabbage	40	5,000	200,000
115	Rurenge	Rujambarara	Nyabaganza	MUKANKWIRO Berthilde	Coffee	2	15,600	31,200				-				-
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	Sorghum	1	20,000	20,000	Beans	0.5	35,000	17,500	Cassava	2	30,000	60,000
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	Tomato	5	20,000	100,000				-				-
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	Beans	8	30,000	240,000	Maize	12	25,000	300,000	Potatoes	3	15,000	45,000
119	Rurenge	Rujambarara	Nyabaganza	HABINEZA Vedaste	Beans	2	35,000	70,000	Sorghum	3	20,000	60,000	Eggplant	2	10,000	20,000
120	Rurenge	Muhurire	Gitobe	NIBATETE	Beans	1	30,000	30,000	Cabbage	30	10,000	300,000	Carrot	15	5,000	75,000
121	Rurenge	Muhurire	Gitobe	BUZYANA Celestin	Sorghum	18	20,000	360,000	Maize	10	30,000	300,000	Coffee	4	17,000	68,000
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	Sorghum	3	20,000	60,000	Cabbage	2	5,000	10,000	Sweet potatoes	5	7,000	35,000
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angélique	Sorghum	1	20,000	20,000	Eggplant	1	18,000	18,000				-
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	Maize	2	30,000	60,000	Beans	2	35,000	70,000	Carrot	4	10,000	40,000
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	Sorghum	3	35,000	105,000	Eggplant	6	30,000	180,000	Tomato	10	20,000	200,000
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	Sorghum	1	20,000	20,000	Cabbage	3	10,000	30,000				-
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	Beans	0.5	35,000	17,500	Maize	1	35,000	35,000	Cassava	3	5,000	15,000
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	Sorghum	5	25,000	125,000	Coffee	2	15,600	31,200	Cabbage	2	8,000	16,000
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata	Sorghum	4	20,000	80,000	Cabbage	3	5,000	15,000				-
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	Maize	3	24,000	72,000	Sorghum	6	24,000	144,000	Cabbage	4	5,000	20,000
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	Cabbage	8	4,000	32,000	Tomato	25	2,000	50,000	Cassava	5	16,000	80,000
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	Sorghum	4	45,000	180,000	Cabbage	10	15,000	150,000	Tomato	50	1,500	75,000
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felicien	Maize	3	15,000	45,000	Tomato	10	3,000	30,000				-
134	Rurenge	Rujambarara	Akarambaraye	MUKAFASHAHO Euphrasie	Sorghum	1.5	22,500	33,750	Soya	0.75	11,500	8,625	Maize	1	20,000	10,000
135	Rurenge	Rujambarara	Nyabaganza	NYAMURIMA Valens*	Sorghum	2	20,000	40,000	Beans	1	30,000	30,000				-
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	Sorghum	5	20,000	100,000	Tomato	6	5,000	30,000				-
137	Rurenge	Muhurire	Nyamata	NGENDAHAHO	Maize	4	27,000	108,000	Sorghum	8	32,000	256,000	Sweet potatoes	10	7,500	75,000
138	Rurenge	Rujambarara	Nyabaganza	KAGABO Fidele	Beans	1	30,000	30,000	Sweet potatoes	1	10,000	10,000	Cassava	2	25,000	50,000
139	Rurenge	Rujambarara	Nyabaganza	MUKANKURANA Ernestine*	Sorghum	7	25,000	175,000	Coffee	5	12,000	60,000	Cassava	10	7,000	70,000
140	Rurenge	Rujambarara	Akarambaraye	INGABIRE Marie Michel	Cabbage	5	10,000	50,000	Sweet pepper	10	20,000	200,000	Eggplant	10	20,000	200,000
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	Maize	4	21,000	84,000	Cabbage	6	10,000	60,000	Carrot	2	30,000	60,000
142	Rurenge	Rujambarara	Akarambaraye	MUKABATABAZI Evanisi	Sorghum	4	20,000	80,000	Coffee	5	60,000	300,000	Sweet potatoes	3	6,000	18,000
143	Rurenge	Rujambarara	Nyabaganza	IYAKAREMYE Eric	Sorghum	1	20,000	20,000				-				-
144	Rurenge	Rujambarara	Mashyoza	GISAGARA	Beans	1	30,000	30,000	Cassava	1	20,000	20,000	Maize	1	30,000	30,000

* The persons have hillside farmlands to be submerged.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	income from 5th crop	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	income from 6th crop	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)	income from 7th crop	Total GROSS farm income
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*				-				-				-	215,000
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille				-				-				-	154,000
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph				-				-				-	888,000
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	Cabbage	8	10,000	80,000	Sweet Potatoes	5	10,000	50,000				-	427,200
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	Cassava	10	20,000	200,000	Soya	1	30,000	30,000	Maize	5	20,000	100,000	740,000
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette				-				-				-	700,000
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	Eggplant	10	3,000	30,000	Cabbage	8	7,500	60,000				-	615,000
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*				-				-				-	210,000
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	Sweet potatoes	5	6,000	30,000				-				-	1,890,000
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA				-				-				-	734,000
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	Potatoes	6	9,000	54,000				-				-	418,500
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	Potatoes	1	10,000	10,000	Beans	2	35,000	70,000	Yams	1.5	5,250	7,875	212,875
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina				-				-				-	880,000
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	Coffee	3	15,000	45,000				-				-	499,000
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	Cabbage	3	2,000	6,000				-				-	301,000
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	Sweet potatoes	8	10,000	80,000				-				-	530,000
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	Coffee	3	12,600	37,800				-				-	277,800
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	Coffee	3	1,500	4,500				-				-	132,000
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	Cabbage	29	4,500	130,500	Sweet Potatoes	40	7,000	280,000				-	834,500
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle				-				-				-	180,000
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	Sweet potatoes	3	10,000	30,000	Maize	5	20,000	100,000				-	510,000
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	Sweet potatoes	2	6,000	12,000				-				-	427,000
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	Cassava	6	8,500	51,000	Sweet potatoes	3	10,000	30,000				-	396,000
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	Eggplant	10	10,000	100,000	Tomato	20	6,000	120,000				-	442,500
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph				-				-				-	230,000
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	Cabbage	10	7,000	70,000	Maize	1	30,000	30,000	Potatoes	1	10,000	10,000	760,000
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	Eggplant	5	12,000	60,000				-				-	355,000
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	Sweet potatoes	3	8,000	24,000				-				-	247,500
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene				-				-				-	470,000
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	Sweet potatoes	4	10,000	40,000				-				-	510,000
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie				-				-				-	69,000
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	Eggplant	25	4,000	100,000				-				-	555,000
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	Cabbage	1	8,000	8,000				-				-	181,000
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Françoise				-				-				-	168,000
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse				-				-				-	368,000
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	Sweet potatoes	1	10,000	10,000				-				-	249,000

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	income from 5th crop	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	income from 6th crop	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)	income from 7th crop	Total GROSS farm income
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	Carrot	10	4,000	40,000	Cabbage	8	10,000	80,000	Eggplant	3	20,000	60,000	275,000
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*				-				-				-	126,000
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*				-				-				-	159,000
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*				-				-				-	284,000
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien				-				-				-	830,000
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*				-				-				-	1,024,000
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia				-				-				-	152,000
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU				-				-				-	124,000
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne				-				-				-	238,000
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	Sweet potatoes	4	9,000	36,000				-				-	190,000
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	Sweet potatoes	10	6,000	60,000	Maize	1	30,000	30,000				-	310,000
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	Carrot	2	5,000	10,000	Coffee	1	12,000	12,000				-	182,000
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette				-				-				-	85,000
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	Cassava	3	15,000	45,000	Eggplant	6	15,000	90,000				-	615,000
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	Sweet potatoes	6	6,000	36,000				-				-	365,000
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	Eggplant	8	10,000	80,000				-				-	525,000
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel				-				-				-	100,000
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina				-				-				-	254,000
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene	Maize	1.5	28,000	42,000				-				-	299,000
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	Tomato	5	8,000	40,000	Sweet Potatoes	2	6,000	12,000	Cabbage	5	6,000	30,000	318,000
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse				-				-				-	170,000
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO				-				-				-	299,200
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert				-				-				-	171,000
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	Potatoes	6	7,000	42,000	Sweet pepper	30	10,000	300,000	Carrot	20	8,000	160,000	812,000
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette	Eggplant	7	15,000	105,000				-				-	265,000
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens	Eggplant	4	12,000	48,000				-				-	726,000
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste				-				-				-	190,000
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine	Maize	1	17,000	17,000				-				-	152,000
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens	Cabbage	10	10,000	100,000				-				-	555,000
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	Sweet potatoes	6	8,000	48,000				-				-	123,000
67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angeliq				-				-				-	540,000
68	Rurenge	Rujambara	Nyabaganza	MUKANKUSI Juliette*				-				-				-	156,000
69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel				-				-				-	336,000
70	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Joseph				-				-				-	532,000
71	Rurenge	Rujambara	Nyabaganza	MPAGAZEHE Gerrard	Tomato	25	10,000	250,000				-				-	1,034,400
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin	Carrot	3	12,000	36,000				-				-	267,000

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	income from 5th crop	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	income from 6th crop	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)	income from 7th crop	Total GROSS farm income
73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.				-				-				-	197,800
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	Carrot	2	2,000	4,000				-				-	844,000
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	Carrot	5	5,000	25,000	Sweet Potatoes	4	7,000	28,000				-	873,000
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*				-				-				-	76,000
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	Sweet Pepper	20	6,000	120,000	Celery	5	2,500	12,500	auliflower	5	3,000	15,000	481,500
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	Carrot	2	15,000	30,000				-				-	140,000
79	Rurenge	Muhurire	Gitobe	BARAME Silas				-				-				-	64,000
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*				-				-				-	360,000
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*				-				-				-	108,000
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars				-				-				-	171,000
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	Sweet potatoes	3	10,000	30,000	Eggplant	7	10,000	70,000				-	295,000
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	Sweet potatoes	15	6,000	90,000				-				-	370,000
85	Rurenge	Muhurire	Gitobe	NABAHIRE	Sorghum	6	20,000	120,000				-				-	345,000
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	Carrot	1	30,000	15,000	Cabbage	4	5,000	20,000	Eggplant	1	4,000	4,000	499,000
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	Cabbage	2	15,000	30,000				-				-	158,000
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	Carrot	4	8,000	32,000				-				-	460,000
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	Cabbage	9	9,000	81,000				-				-	309,000
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	Eggplant	10	40,000	400,000	Sweet Potatoes	2	10,000	20,000				-	855,000
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	Eggplant	3	16,000	48,000	Sweet pepper	6	7,000	42,000	Coffee	1	12,600	12,600	222,600
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent	Coffee	2	12,000	24,000				-				-	340,000
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	Coffee	2	10,000	20,000				-				-	73,500
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI				-				-				-	723,000
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*				-				-				-	670,000
96	Rurenge	Muhurire	Gitobe	VUNUHAWE				-				-				-	336,000
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric				-				-				-	82,000
98	Rurenge	Muhurire	Gitobe	MUHASHYI	Sweet potatoes	3	10,000	30,000	Cabbage	10	3,500	35,000				-	230,600
99	Rurenge	Muhurire	Gitobe	KAWERA	Cabbage	2	3,000	6,000				-				-	147,200
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	Carrot	4	4,000	16,000	Fresh Beans	3	2,500	7,500				-	110,700
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa				-				-				-	153,000
102	Rurenge	Muhurire	Gitobe	RWAGATERA				-				-				-	35,000
103	Rurenge	Muhurire	Gitobe	BAZIRA	Maize	1	20,000	20,000				-				-	192,000
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	Cabbage	40	4,000	160,000	Sweet Potatoes	1	12,000	12,000				-	462,000
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien				-				-				-	109,000
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	Carrot	10	10,000	100,000	Sweet Potatoes	20	12,000	240,000				-	618,000
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*				-				-				-	150,000
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent				-				-				-	240,000

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	income from 5th crop	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	income from 6th crop	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)	income from 7th crop	Total GROSS farm income
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne				-				-				-	708,000
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	Cabbage	24	5,000	120,000				-				-	238,000
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angélique				-				-				-	172,000
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	Carrot	2.5	7,000	17,500	Eggplant	8	6,000	48,000	Cassava	5	17,000	85,000	755,500
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*				-				-				-	420,000
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*				-				-				-	324,500
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde				-				-				-	56,200
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	Carrot	3	25,000	75,000	Cabbage	32	5,000	160,000				-	352,500
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA				-				-				-	120,000
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	Cassava	4		-	Sweet Potatoes	4	10,000	40,000	Tomato	25	3,000	75,000	1,180,000
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste	Sweet potatoes	2	6,000	12,000				-				-	184,500
120	Rurenge	Muhurire	Gitobe	NIBATETE				-				-				-	430,000
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	Banana	10	8,000	80,000	Tomato	10	5,000	50,000				-	1,082,000
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel				-				-				-	165,000
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angélique				-				-				-	74,000
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	Sweet potatoes	2	10,000	20,000				-				-	300,000
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	Banana	15	8,000	120,000	Cassava	3	15,000	45,000	Potatoes	2	15,000	30,000	905,000
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre				-				-				-	56,000
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	Sweet potatoes	1	12,000	12,000				-				-	119,500
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin				-				-				-	202,200
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata				-				-				-	125,000
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	Coffee	10	7,000	70,000				-				-	366,000
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais				-				-				-	287,000
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène				-				-				-	435,000
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien				-				-				-	115,000
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	Sweet potatoes	11.5	10,000	115,000	Cofee	2	50,000	100,000				-	282,375
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*				-				-				-	195,000
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph				-				-				-	190,000
137	Rurenge	Muhurire	Nyamata	NGENDAHAHO	Cabbage	20	10,000	200,000	Tomato	30	15,000	450,000				-	1,264,000
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele				-				-				-	210,000
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*	Sweet potatoes	4	15,000	60,000	Cabbage	20	5,000	100,000				-	535,000
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	Carrot	1	10,000	10,000	Sweet Potatoes	2	10,000	20,000				-	480,000
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	Sweet potatoes	2	10,000	20,000				-				-	284,000
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi				-				-				-	398,000
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric				-				-				-	140,000
144	Rurenge	Rujambara	Mashyoza	GISAGARA	Banana	2	8,000	16,000				-				-	176,000

* The persons have hillside farmlands to be submered.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q7. Farminput :seed (Rwf)	Q7. Farminput: fertilizer (Rwf)	Q7. Farminput: pesticide (Rwf)	Total farm net income	Q8 Other income source	Q9 Other income (Rwf)	Total household net income	Q10. Times of cultivation in the marshland to be submerged	Q11. Crop (1) cultivated in the marshland	Q11. Crop (1) number of bags produced in the marshland	Q11. Nos of plot for Crop (1) cultivated in the marshland	Q11. Size of plot of crop (1) (m2)
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*	17,000	26,000	7,000	165,000	Carpentry	360,000	525,000	2	Cabbage	20.5	1	3 * 75 225
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille	20,000	30,000	10,000	94,000	N/A	0	94,000	2	Eggplant	12	1	38 * 7 266
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph	90,000	50,000	24,000	724,000	N/A	0	724,000	2	Eggplant	3	5	40 * 5 180
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	36,000	42,000	13,000	336,200	Livestock	25,000	361,200	2	Sweet potatoes	5	3	12 * 60 720
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	64,500	60,000	3,000	612,500	N/A	0	612,500	2	Sweet potatoes	6	1	10 * 40 400
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette	15,000	31,250	4,000	649,750	N/A	0	649,750	2	Sweet potatoes	20	2	8 * 47 376
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	2,000	5,000	5,000	603,000	N/A	0	603,000	2	Sweet potatoes	10	3	7 * 28 196
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	2,000	5,000	5,000	198,000	N/A	0	198,000	2	Sweet potatoes	10	2	24 * 4 96
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	2,000	52,000	2,000	1,834,000	N/A	0	1,834,000	2	Sweet potatoes	5	1	9 * 50 450
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	57,000	26,000	8,000	643,000	N/A	0	643,000	2	Pili - Pili	13	2	42 * 16 672
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	8,000	6,000	0	404,500	N/A	0	404,500	2	Sweet potatoes	7	3	5 * 40 200
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	29,000	28,000	0	155,875	N/A	0	155,875	2	Sweet potatoes	2	1	20 * 10 200
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	60,000	90,000	40,000	690,000	N/A	0	690,000	3	Sweet potatoes	6	6	5 * 16 80
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	2,800	21,000	10,000	465,200	Livestock	60,000	525,200	2	Sweet potatoes	4	4	3 * 15 45
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	30,000	25,000	3,000	243,000	N/A	0	243,000	2	Sweet potatoes	17	2	6 * 15 90
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	10,000	60,000	40,000	420,000	N/A	0	420,000	2	Sweet potatoes	10	1	30 * 7 210
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	20,000	7,200	5,000	245,600	Livestock	100,000	345,600	2	Sweet potatoes	12	1	4 * 25 100
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	10,900	21,000	10,000	90,100	N/A	0	90,100	2	Sweet potatoes	20	1	10 * 60 600
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	11,400	21,000	2,000	800,100	Livestock	80,000	880,100	2	Sweet potatoes	50	5	3 * 7 21
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	4,000	13,000	1,000	162,000	N/A	0	162,000	2	Sweet potatoes	5	2	16 * 20 320
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	30,000	25,000	20,000	435,000	Trading	50,000	485,000	2	Sweet potatoes	17	3	2 * 10 20
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	10,000	60,000	23,000	334,000	N/A	0	334,000	2	Sweet potatoes	3	2	30 * 5 150
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	25,000	26,000	51,000	294,000	N/A	0	294,000	2	Sweet potatoes	2	3	5 * 22 110
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	20,000	15,000	50,000	357,500	Livestock	50,000	407,500	2	Cabbage	25	6	6 * 25 150
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	18,000	30,000	1,400	180,600	N/A	0	180,600	2	Cabbage	24	3	5 * 27 135
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	38,000	21,000	30,000	671,000	N/A	0	671,000	2	Sweet potatoes	6	4	7 * 25 175
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	8,000	20,000	10,000	317,000	Livestock	250,000	567,000	2	Sweet potatoes	10	3	15 * 70 1,050
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	40,000	25,000	3,000	179,500	N/A	0	179,500	2	Sweet potatoes	3	2	4 * 10 40
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene	2,000	10,000	4,000	454,000	N/A	0	454,000	2	Sweet potatoes	6	3	8 * 14 112
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	40,000	30,000	3,000	437,000	N/A	0	437,000	2	Sweet potatoes	10	3	20 * 5 100
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie	8,000	25,000	2,000	34,000	Livestock	100,000	134,000	2	Sweet potatoes	1	1	3 * 7 21
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	27,000	26,000	11,000	491,000	N/A	0	491,000	2	Sweet potatoes	9	3	6 * 23 138
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	15,000	26,000	500	139,500	N/A	0	139,500	2	Sweet potatoes	2	2	5 * 30 150
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Françoise	500	2,500	300	164,700	N/A	0	164,700	2	Sweet potatoes	1	3	4 * 17 68
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse	20,000	26,625	4,000	317,375	Livestock	50,000	367,375	3	Sweet potatoes	1	4	30 * 6 180
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	4,000	20,000	2,000	223,000	N/A	0	223,000	2	Sweet potatoes	3	3	6 * 40 240

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q7. Farminput :seed (Rwf)	Q7. Farminput: fertilizer (Rwf)	Q7 Farminput: pesticide (Rwf)	Total farm net income	Q8 Other income source	Q9 Other income (Rwf)	Total household net income	Q10. Times of cultivation in the marshland to be submerged	Q11. Crop (1) cultivated in the marshland	Q11. Crop (1) number of bags produced in the marshland	Q11. Nos of plot for Crop (1) cultivated in the marshland	Q11. Size of plot of crop (1) (m2)
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	40,000	21,000	8,000	206,000	N/A	0	206,000	2	Carrot	10	3	9 * 4 36
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	1,000	20,000	3,000	102,000	N/A	0	102,000	2	Sweet potatoes	5	4	40 * 6 240
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	2,000	15,000	3,000	139,000	Livestock	60,000	199,000	2	Sweet potatoes	2	3	13 * 4 52
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	800	1,000	500	281,700	N/A	0	281,700	2	Sweet potatoes	2	2	5 * 30 150
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	30,000	25,000	3,000	772,000	N/A	0	772,000	2	Sweet potatoes	23	3	7 * 26 182
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	500	600	350	1,022,550	N/A	0	1,022,550		Sweet potatoes	3	1	4 * 14 56
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	15,000	25,000	29,000	83,000	N/A	0	83,000	2	Carrot	5	2	4 * 10 40
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	1,000	6,000	1,500	115,500	N/A	0	115,500	2	Sweet potatoes	3	1	20 * 10 200
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	500	16,400	1,000	220,100	N/A	0	220,100	2	Sweet potatoes	6	2	6 * 40 240
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	4,000	0	30,000	156,000	N/A	0	156,000	2	Sweet potatoes	5	3	7 * 26 182
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	30,000	26,000	3,000	251,000	N/A	0	251,000	2	Sweet potatoes	10	3	5 * 40 200
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	4,000	5,000	4,000	169,000	Livestock	50,000	219,000	2	Cabbage	10	2	10 * 5 50
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	14,000	0	5,000	66,000	N/A	0	66,000	2	Sweet potatoes	3	2	8 * 30 240
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	20,000	15,000	35,000	545,000	Livestock	80,000	625,000	2	Eggplant	6	3	12 * 5 60
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	30,000	40,000	5,000	290,000	N/A	0	290,000	2	Sweet potatoes	6	1	5 * 25 125
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	10,000	26,000	10,000	479,000	Livestock	50,000	529,000	2	Sweet potatoes	5	2	6 * 20 120
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel	20,000	5,000	20,000	55,000	N/A	0	55,000	2	Sweet potatoes	4	1	15 * 30 450
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina	2,500	25,000	12,000	214,500	Trading	200,000	414,500	2	Sweet potatoes	6	3	5 * 12 60
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene	5,000	52,850	2,800	238,350	construction	60,000	298,350	2	Sweet potatoes	3	2	5 * 25 125
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	800	26,000	2,000	289,200	Livestock	100,000	389,200	2	Sweet potatoes	2	2	7 * 35 245
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse	6,000	5,000	2,000	157,000	N/A	0	157,000	2	Sweet potatoes	2	2	4 * 30 120
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO	30,000	60,000	3,000	206,200	Livestock	30,000	236,200	2	Sweet potatoes	3	1	3 * 24 72
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert	15,000	25,000	4,000	127,000	N/A	0	127,000	2	Sweet potatoes	2	1	4 * 35 140
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	20,000	25,000	10,000	757,000	Livestock	80,000	837,000	2	Sweet potatoes	10	3	5 * 28 140
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette	0	0	0	265,000	0	0	265,000	2	Sweet potatoes	8	3	8 * 4 32
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens	20,000	50,000	10,000	646,000	Livestock	80,000	726,000	2	Sweet potatoes	12	3	6 * 4 24
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste	20,000	15,000	3,000	152,000	N/A	0	152,000		Sweet potatoes	3	2	6 * 54 324
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine	0	20,000	10,000	122,000	N/A	0	122,000		Sweet potatoes	10	3	3 * 105 315
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens	2,000	30,000	4,000	519,000	Livestock	150,000	669,000	2	Sweet potatoes	5	3	2 * 30 60
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	5,000	5,000	3,000	110,000	N/A	0	110,000	2	Sweet potatoes	4	4	5 * 25 125
67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique	15,000	26,000	600	498,400	N/A	0	498,400	2	Sweet potatoes	10	4	8 * 35 280
68	Rurenge	Rujambara	Nyabaganza	MUKANKUSI Juliette*	0	0	0	156,000	N/A	0	156,000	2	Sweet potatoes	2	1	7 * 60 420
69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel	30,000	25,000	16,000	265,000	N/A	0	265,000	2	Eggplant	4	1	4 * 29 116
70	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Joseph	13,000	25,000	30,000	464,000	N/A	0	464,000	2	Tomato	20	2	5 * 8 40
71	Rurenge	Rujambara	Nyabaganza	MPAGAZEHE Gerrard	12,000	50,000	15,000	957,400	N/A	0	957,400	2	Sweet potatoes	8	7	11 * 27 297
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin	20,000	26,675	5,000	215,325	Livestock	20,000	235,325	3	Sweet potatoes	3	4	7 * 18 126

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q7. Farminput :seed (Rwf)	Q7. Farminput: fertilizer (Rwf)	Q7 Farminput: pesticide (Rwf)	Total farm net income	Q8 Other income source	Q9 Other income (Rwf)	Total household net income	Q10. Times of cultivation in the marshland to be submerged	Q11. Crop (1) cultivated in the marshland	Q11. Crop (1) number of bags produced in the marshland	Q11. Nos of plot for Crop (1) cultivated in the marshland	Q11. Size of plot of crop (1) (m2)
73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.	1,000	1,000	3,000	192,800	N/A	0	192,800	2	Sweet potatoes	11	2	3 * 20 60
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	20,000	6,000	4,000	814,000	Livestock	40,000	854,000	2	Sweet potatoes	15	4	10 * 5 50
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	6,000	26,625	6,000	834,375	Livestock	15,000	849,375	2	Sweet potatoes	10	1	6 * 37 222
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*				76,000	N/A	0	76,000	2	Sweet potatoes	2	1	35 * 17 595
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	19,000	40,000	5,200	417,300	N/A	0	417,300	2	Sweet potatoes	6	3	2 * 32 64
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	10,000	8,000	5,000	117,000	Trading	50,000	167,000	2	Cabbage	4	1	3 * 15 45
79	Rurenge	Muhurire	Gitobe	BARAME Silas	5,000	21,000	0	38,000	N/A	0	38,000		Sweet potatoes	4	2	7 * 3 21
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*	20,000		20,000	320,000	N/A	0	320,000		Sweet potatoes	5	1	25 * 100 2,500
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	10,000	21,000	3,000	74,000	N/A	0	74,000	2	Sweet potatoes	4	1	60 * 90 5,400
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	30,000	25,000	3,000	113,000	N/A	0	113,000	2	Sweet potatoes	20	2	6 * 55 330
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	15,000	25,000	10,000	245,000	Livestock	30,000	275,000	2	Cabbage	8	1	5 * 40 200
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	20,000	30,000	3,000	317,000	N/A	0	317,000	2	Sweet potatoes	40	1	20 * 19 380
85	Rurenge	Muhurire	Gitobe	NABAHIRE	5,000	30,000	3,000.0	307,000	N/A	0	307,000	2	Sweet potatoes	3	2	6 * 30 180
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	13,000	26,500	6,000	453,500	Livestock	70,000	523,500	2	Sweet potatoes	5	4	5 * 18 90
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	10,500	2,000	1,000	144,500	Livestock	15,000	159,500	2	Sweet potatoes	1	1	5 * 10 50
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	13,500	2,500	1,000.0	443,000	Taxi bike	200,000	643,000	2	Sweet potatoes	2	1	3 * 7 21
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	19,500	2,400	2,000	285,100	Livestock	300,000	585,100	2	Sweet potatoes	3	4	5 * 6 30
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	13,600	26,500	1,000	813,900	N/A	0	813,900	2	Sweet potatoes	5	5	3 * 18 54
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	13,000	26,500	2,000	181,100	N/A	0	181,100	2	Sweet potatoes	4	2	3 * 7 21
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent	10,000	10,000	5,000	315,000	N/A	0	315,000	2	Sweet potatoes	8	1	3 * 50 150
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	2,000	5,000	1,500	65,000	N/A	0	65,000		Sorghum	3	2	12 * 50 600
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	1,200	2,400	1,200	718,200	N/A	0	718,200	2	Sweet potatoes	16	4	7 * 8 56
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	30,000	70,000	20,000	550,000	N/A	0	550,000	2	Sweet potatoes	10	2	20 * 30 600
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	1,000	6,000	3,000	326,000	Livestock	200,000	526,000	2	Sweet potatoes	6	3	3 * 15 45
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	30,000	25,000	5,000	22,000	N/A	0	22,000	2	Sweet potatoes	8	2	4 * 35 140
98	Rurenge	Muhurire	Gitobe	MUHASHYI	4,000	5,000	15,000	206,600	N/A	0	206,600	2	Cabbage	10	3	5 * 15 75
99	Rurenge	Muhurire	Gitobe	KAWERA	10,000	3,000	3,500	130,700	N/A	0	130,700	2	Sweet potatoes	1	1	3 * 10 30
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	11,000	15,000	2,000	82,700	N/A	0	82,700	2	Sweet potatoes	2	2	5 * 15 75
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	15,000	25,000	5,000	108,000	N/A	0	108,000	2	Sweet potatoes	10	4	3 * 40 120
102	Rurenge	Muhurire	Gitobe	RWAGATERA				35,000	N/A	0	35,000	2	Sweet potatoes	2	1	7 * 15 105
103	Rurenge	Muhurire	Gitobe	BAZIRA	40,000	42,000	15,000	95,000	N/A	0	95,000	2	Sweet potatoes	10	1	15 * 50 750
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	12,800	26,530	1,800	420,870	Livestock	20,000	440,870	2	Sweet potatoes	3	2	4 * 10 40
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien	1,800	42,000	2,000	63,200	N/A	0	63,200	2	Sorghum	5	3	2 * 10 20
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	6,900	8,000	1,500	601,600	Livestock	220,000	821,600	2	Sweet potatoes	30	3	25 * 30 750
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	4,000	26,650		119,350	Education	648,000	767,350	2	Beans	10	1	75 * 25 1,875
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent	15,000			225,000	N/A	0	225,000		Sweet potatoes	0	1	21 * 24 504

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q7. Farminput :seed (Rwf)	Q7. Farminput: fertilizer (Rwf)	Q7 Farminput: pesticide (Rwf)	Total farm net income	Q8 Other income source	Q9 Other income (Rwf)	Total household net income	Q10. Times of cultivation in the marshland to be submerged	Q11. Crop (1) cultivated in the marshland	Q11. Crop (1) number of bags produced in the marshland	Q11. Nos of plot for Crop (1) cultivated in the marshland	Q11. Size of plot of crop (1) (m2)
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	4,000	3,000	6,800	694,200	N/A	0	694,200	2	Sweet potatoes	5	1	4 * 20 80
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	9,000	25,000	1,000	203,000	N/A	0	203,000	2	Sweet potatoes	13	1	10 * 53 530
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angélique	5,400	3,000	11,000	152,600	Construction	20,000	172,600	2	Sweet potatoes	4	1	6 * 98 588
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	10,000	30,000	30,000	685,500	N/A	0	685,500	2	Sweet potatoes	5	1	6 * 35 210
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*	30,000	25,000	5,000	360,000	N/A	0	360,000	2	Sweet potatoes	40	2	15 * 70 1,050
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*	1,000	3,000	1,000	319,500	N/A	0	319,500	2	Sweet potatoes	5	2	10 * 20 200
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde			1,000	55,200	N/A	0	55,200	2	Sweet potatoes	8	4	4 * 23 92
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	1,500	50,000	26,000	275,000	Livestock	10,000	285,000	2	Sweet potatoes	10	2	15 * 5 75
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	4,000	1,200	17,000	97,800	N/A	0	97,800	2	Sweet potatoes	3	1	10 * 20 200
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	50,000	52,000	30,000	1,048,000	Livestock	150,000	1,198,000	2	Sweet potatoes	8	4	6 * 6 36
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste			300	184,200	N/A	0	184,200	2	Sweet potatoes	3	1	5 * 15 75
120	Rurenge	Muhurire	Gitobe	NIBATETE	20,000	25,000	3,000	382,000	N/A	0	382,000	2	Sweet potatoes	15	2	5 * 32 160
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	10,000	12,000	6,000	1,054,000	Livestock	200,000	1,254,000	2	Sweet potatoes	3	2	4 * 7 28
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	20,000	15,000	3,000	127,000	Livestock	200,000	327,000	2	Sweet potatoes	16	2	5 * 25 125
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angélique	6,000	25,500	2,000	40,500	Trading	40,000	80,500	2	Sweet potatoes	1	1	5 * 20 100
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	1,500	2,400	6,000	290,100	Livestock	120,000	410,100	2	Sweet potatoes	4	1	5 * 50 250
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	0	40,000	100,000	765,000	N/A	0	765,000	2	Sweet potatoes	2	2	10 * 30 300
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	2,000	6,000	1,000	47,000	N/A	20,000	67,000	2	Sweet potatoes	1	1	5 * 15 75
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred				119,500	N/A	0	119,500	2	Sweet potatoes	1	5	3 * 31 93
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	10,000	30,000	3,000	159,200	N/A	0	159,200	2	Sweet potatoes	3	4	4 * 35 140
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata	20,000	25,000	3,000	77,000	N/A	0	77,000	2	Sweet potatoes	10	3	6 * 32 192
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	3,600	21,550	9,000	331,850	N/A	0	331,850		Cabbage	6	3	5 * 25 125
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	3,000	10,000	6,000	268,000	N/A	0	268,000	2	Sweet potatoes	20	1	12 * 20 240
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	17,500	7,500	3,000	407,000	Livestock	15,000	422,000	2	Sweet potatoes	6	1	5 * 30 150
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felicien	20,000	21,000	5,000	69,000	N/A	0	69,000	2	Tomato	10	1	5 * 15 75
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	0	0	0	282,375	N/A	0	282,375	2	Sweet potatoes	6	1	7 * 35 245
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*	30,000	20,000	3,000	142,000	Livestock	50,000	192,000	2	Sweet potatoes	10	1	5 * 8 40
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	30,000	25,000	3,000	132,000	Livestock	50,000	182,000	2	Sweet potatoes	20	2	8 * 26 208
137	Rurenge	Muhurire	Nyamata	NGENDAHAHO	800	12,000	3,000	1,248,200	Livestock	180,000	1,428,200	2	Sweet potatoes	10	3	3 * 26 65
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele	20,000	15,000	3,000	172,000	N/A	0	172,000	2	Sweet potatoes	15	1	4 * 8 32
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*	800	6,000	800	527,400	N/A	0	527,400		Sweet potatoes	4	2	4 * 14 56
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	1,400	3,000	2,400	473,200	Livestock	99,000	572,200	2	Sweet potatoes	2	3	4 * 32 128
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	1,000	6,000	1,000	276,000	N/A	0	276,000	2	Sweet potatoes	2	1	5 * 20 100
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi	0	0	0	398,000	N/A	0	398,000	2	Sweet potatoes	3	1	8 * 25 200
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric	10,000	7,000	3,000	120,000	N/A	0	120,000	2	Tree tomato	3	3	120 * 20 2,400
144	Rurenge	Rujambara	Mashyoza	GISAGARA	10,000	30,000	2,000	134,000	Construction	100,000	234,000	2	Sorghum	3	1	20 * 40 800

* The persons have hillside farmlands to be submerged.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	income of crop (1)	Q11. Crop (2) cultivated in the marshland	Q11. Crop (2) number of bags produced in the marshland	Q11. Nos of plot for Crop (2) cultivated in the marshland	Q11. Size of plot of crop (2) (m2)	income of crop (2)	Q11. Crop (3) cultivated in the marshland	Q11. Crop (3) number of bags produced in the marshland	Q11. Nos of plot for Crop (3) cultivated in the marshland	Q11. Size of plot of crop (3) (m2)	income of crop (3)
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*	102,500				* 0					* 0	
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille	84,000	Carrot	7	Rotation	* 0					* 0	
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph	36,000									9 * 8 72	
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	110,000	Cabbage	8	2	5 * 30 150	80,000				5 * 11 55	
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	60,000	Sorghum	6	1	20 * 100 2,000	120,000	Maize	3	rotation	* 0	60,000
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette	400,000	Cabbage	30		5 * 35 175	180,000				* 0	
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	100,000				5 * 17 85					7 * 28 196	
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	100,000				26 * 6 156		Cabbage	9	rotation	* 0	45,000
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	30,000	Cabbage	20	1	* 0	200,000				* 0	
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	286,000				80 * 25 2,000		Cabbage	2	2	44 * 6 264	12,000
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	28,000				10 * 30 300					12 * 8 96	
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	20,000	Maize	2		20 * 66 1,320	60,000	Sorghum	3	rotation	* 0	75,000
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	60,000	Eggplant	6		* 0	72,000	Cabbage	10	rotation	* 0	100,000
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	64,000				2 * 20 40					3 * 10 30	
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	170,000	Cabbage	3	2	6 * 15 90	6,000				* 0	
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	100,000	Eggplant	20	1	30 * 7 210	140,000	Carrot	30	1	30 * 7 210	360,000
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	120,000	Cabbage	9	1	23 * 4 92	90,000				* 0	
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	120,000				* 0					* 0	
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	350,000				8 * 20 160					* 0	
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	30,000				12 * 7 84		Cabbage	12	2	6 * 20 120	84,000
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	170,000				20 * 30 600					10 * 20 200	
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	18,000				30 * 8 240		Eggplant	4	rotation	* 0	40,000
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	20,000				5 * 22 110					5 * 22 110	
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	125,000				3 * 25 75					4 * 12 48	
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	144,000				4 * 34 136					5 * 35 175	
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	60,000	Cabbage	12	4	7 * 20 140	84,000				7 * 15 105	
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	100,000				4 * 60 240					5 * 90 450	
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	24,000				4 * 15 60		Cabbage	8	1	4 * 10 40	60,000
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZZWA Theogene	30,000				7 * 20 140					6 * 16 96	
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	100,000	Eggplant	9	2	5 * 20 100	180,000				3 * 10 30	
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie	8,000	Cabbage	2	1	3 * 7 21	8,000				* 0	
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	108,000				6 * 23 138					4 * 11 44	
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	16,000				6 * 30 180					8 * 25 200	
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Françoise	6,000				4 * 17 68					4 * 17 68	
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse	8,000				37 * 6 222					30 * 6 180	
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	30,000				15 * 7 105					32 * 6 192	

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	income of crop (1)	Q11. Crop (2) cultivated in the marshland	Q11. Crop (2) number of bags produced in the marshland	Q11. Nos of plot for Crop (2) cultivated in the marshland	Q11. Size of plot of crop (2) (m2)	income of crop (2)	Q11. Crop (3) cultivated in the marshland	Q11. Crop (3) number of bags produced in the marshland	Q11. Nos of plot for Crop (3) cultivated in the marshland	Q11. Size of plot of crop (3) (m2)	income of crop (3)
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	40,000				6 * 12 72					5 * 10 50	
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	25,000				7 * 25 175		Eggplant	6	Rotation	* 0	75,000
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	20,000				9 * 9 81					9 * 9 81	
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	20,000				4 * 70 280		Cabbage	34	Rotation	* 0	170,000
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	115,000				5 * 26 130					6 * 26 156	
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	72,000				* 0		Cabbage	9	Rotation	* 0	45,000
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	54,000				6 * 12 72		Sweet potatoes	5	Rotation	* 0	
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	45,000	Tomato	5	1	5 * 15 75	45,000	Eggplant	4	rotation	* 0	24,000
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	24,000				6 * 40 240		Carrot	8	1	6 * 40 240	32,000
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	45,000				3 * 60 180					3 * 20 60	
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	60,000				5 * 40 200					5 * 40 200	
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude	100,000				7 * 12 84		Sweet potatoes	6	Rotation	* 0	60,000
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	30,000				3 * 22 66		Eggplant	4	Rotation	* 0	60,000
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	90,000				14 * 3 42					8 * 5 40	
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	36,000	Cabbage	7	rotation	* 0	49,000	Eggplant	15		* 0	150,000
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	30,000				5 * 25 125		Cabbage	10	Rotation	* 0	50,000
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel	24,000	Cabbage	5	1	7 * 30 210	37,500	Tomato	5.5	0.5	8 * 30 240	44,000
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina	60,000				4 * 15 60					7 * 18 126	
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene	21,000				5 * 20 100					* 0	
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	12,000				10 * 67 670		Eggplant	7	Rotation	* 0	70,000
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse	24,000				4 * 25 100		Eggplant	2	Rotation	* 0	36,000
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO	22,500	Eggplant	5	1	40 * 50 2,000	24,000	Cabbage	9	1	15 * 30 450	45,000
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert	14,000	Cabbage	9	Rotation	* 0	27,000				* 0	
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	100,000				4 * 40 160					3 * 8 24	
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette	40,000				8 * 4 32					6 * 5 30	
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens	120,000				6 * 4 24					9 * 4 36	
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste	30,000				4 * 36 144		Eggplant	5	Rotation	* 0	30,000
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine	75,000				5 * 70 350					3 * 50 150	
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens	25,000				3 * 20 60					8 * 20 160	
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	32,000				5 * 25 125					5 * 25 125	
67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique	80,000				6 * 30 180					7 * 25 175	
68	Rurenge	Rujambara	Nyabaganza	MUKANKUSI Juliette*	12,000				* 0					* 0	
69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel	24,000	Cabbage	4	29	* 0	28,000				* 0	
70	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Joseph	80,000	Cabbage	35	Rotation	* 0	315,000	Eggplant	17	Rotation	* 0	204,000
71	Rurenge	Rujambara	Nyabaganza	MPAGAZEHE Gerrard	48,000				9 * 65 585					16 * 65 1,040	
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin	27,000				7 * 18 126					7 * 18 126	

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	income of crop (1)	Q11. Crop (2) cultivated in the marshland	Q11. Crop (2) number of bags produced in the marshland	Q11. Nos of plot for Crop (2) cultivated in the marshland	Q11. Size of plot of crop (2) (m2)	income of crop (2)	Q11. Crop (3) cultivated in the marshland	Q11. Crop (3) number of bags produced in the marshland	Q11. Nos of plot for Crop (3) cultivated in the marshland	Q11. Size of plot of crop (3) (m2)	income of crop (3)
73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.	148,500				2 * 10 20		Cabbage	3	Rotation	* 0	16,200
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	150,000				8 * 6 48					6 * 5 30	
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	70,000	Cabbage	10	1	6 * 37 222	60,000	Carrot	5	1	6 * 37 222	25,000
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*	22,000				* 0					* 0	
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	36,000				4 * 26 104					4 * 36 144	
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	20,000	Carrot	2	1	5 * 20 100	30,000				* 0	
79	Rurenge	Muhurire	Gitobe	BARAME Silas	20,000				7 * 3 21					* 0	
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*	25,000	Cabbage	7	Rotation	* 0	42,000				* 0	
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	48,000				* 0					* 0	
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	200,000				6 * 25 150		Eggplant	5	Rotation	* 0	25,000
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	40,000	Eggplant	7	1	6 * 40 240	70,000				* 0	
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	240,000	Cassava	4	3	40 * 30 1,200	100,000				20 * 17 340	
85	Rurenge	Muhurire	Gitobe	NABAHIRE	15,000				80 * 60 4,800		Tomato	30	1	6 * 30 180	150,000
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	25,000				5 * 18 90					6 * 21 126	
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	5,000	Carrot	1	Rotation	* 0	15,000	Cabbage	2	Rotation	* 0	30,000
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	30,000	Carrot	1	Rotation	* 0	8,000	Cabbage	65	Rotation	* 0	390,000
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	15,000				5 * 6 30					5 * 6 30	
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	25,000				4 * 18 72					2 * 18 36	
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	14,000				3 * 6 18		Eggplant	7	1	3 * 7 21	112,000
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent	96,000	Cabbage	25	Rotation	* 0	150,000				* 0	
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	60,000				4 * 20 80					* 0	
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	192,000				3 * 15 45					7 * 12 84	
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	80,000				6 * 20 120		Eggplant	8	3	30 * 20 600	120,000
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	72,000				3 * 15 45					3 * 15 45	
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	64,000				9 * 20 180		Carrot	2	Rotation	* 0	12,000
98	Rurenge	Muhurire	Gitobe	MUHASHYI	35,000				5 * 15 75					5 * 15 75	
99	Rurenge	Muhurire	Gitobe	KAWERA	6,000	Carrot	2	1	3 * 10 30	40,000	Cabbage	2	Rotation	* 0	6,000
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	12,000				4 * 10 40		Cabbage	5	3	4 * 12 48	35,000
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	90,000				3 * 20 60					4 * 15 60	
102	Rurenge	Muhurire	Gitobe	RWAGATERA	20,000				* 0					* 0	
103	Rurenge	Muhurire	Gitobe	BAZIRA	75,000	Tomato	3	Rotation	* 0	24,000	Cabbage	6	Rotation	* 0	36,000
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	36,000				4 * 10 40		Cabbage	46	Rotation	* 0	184,000
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien	90,000				2 * 10 20					2 * 10 20	
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	360,000				5 * 10 50					10 * 20 200	
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	300,000	Sorghum	6	Rotation	* 0	120,000				* 0	
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent	not yet				* 0					* 0	

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	income of crop (1)	Q11. Crop (2) cultivated in the marshland	Q11. Crop (2) number of bags produced in the marshland	Q11. Nos of plot for Crop (2) cultivated in the marshland	Q11. Size of plot of crop (2) (m2)	income of crop (2)	Q11. Crop (3) cultivated in the marshland	Q11. Crop (3) number of bags produced in the marshland	Q11. Nos of plot for Crop (3) cultivated in the marshland	Q11. Size of plot of crop (3) (m2)	income of crop (3)
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	50,000	Tomato		1	4 * 20 80					* 0	
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	130,000	Cabbage	26	Rotation	* 0	130,000	Tomato	5	Rotation	* 0	40,000
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angélique	28,000	Cabbage	4	Rotation	* 0	60,000	Tomato	3	Rotation	* 0	45,000
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	40,000	Cabbage	4	1	6 * 35 210	20,000	Carrot	4	1	6 * 35 210	28,000
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*	400,000				5 * 50 250		Cabbage	12	Rotation	* 0	60,000
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*	37,500				5 * 30 150		Cabbage	42		10 * 20 200	210,000
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde	80,000				3 * 15 45					5 * 16 80	
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	80,000				8 * 6 48		Carrot	3	Rotation	* 0	75,000
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	30,000	Tomato	6	1	10 * 20 200	120,000				* 0	
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	60,000				6 * 15 90					6 * 6 36	
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste	18,000	Eggplant	2.5	1	5 * 15 75	25,000				* 0	
120	Rurenge	Muhurire	Gitobe	NIBATETE	112,500				6 * 32 192		Carrot	15		* 0	75,000
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	30,000				4 * 7 28		Tomato	10		* 0	50,000
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	112,000				5 * 20 100		Cabbage	3		* 0	15,000
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angélique	10,000	Eggplant	1	1	5 * 20 100	18,000				* 0	
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	40,000	Carrot	2	1	50 * 5 250	20,000				* 0	
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	20,000				10 * 30 300		Eggplant	8	1	10 * 30 300	64,000
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	10,000	Cabbage	3	1	5 * 15 75	30,000				* 0	
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	12,000				4 * 28 112					4 * 26 104	
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	30,000				4 * 25 100					4 * 25 100	
129	Rurenge	Muhurire	Gitobe	MUSABYEYEUZU Annonciata	100,000				4 * 40 160					5 * 20 100	
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	48,000				3 * 30 90					3 * 20 60	
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	100,000	Tomato	13	1	20 * 12 240	25,000				* 0	
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	60,000	Tomato	25		* 0	37,500				* 0	
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felicien	30,000				* 0					* 0	
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	60,000	Soya	0.75	1	7 * 35 245	8,625	Maize	0.5	1	7 * 35 245	10,000
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*	80,000				* 0					* 0	
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	200,000				8 * 25 200		Eggplant	2	2	* 0	20,000
137	Rurenge	Muhurire	Nyamata	NGENDAHAYO	75,000				2.5 * 12 30					2 * 8 16	
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele	150,000				* 0					* 0	
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*	60,000				5 * 16 80		Cabbage	20	2	4 * 14 56	100,000
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	20,000				7 * 14 98					7 * 18 126	
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	20,000	Carrot	2	1	5 * 20 100		Cabbage	6	1	* 0	60,000
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi	18,000				* 0					* 0	
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric	120,000				40 * 30 1,200					35 * 20 700	
144	Rurenge	Rujambara	Mashyoza	GISAGARA	60,000				* 0					* 0	

* The persons have hillside farmlands to be submered.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

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

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

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

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

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73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.				* 0					* 0	
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu				40 * 7 280		Cabbage	5	Rotation	* 0	50,000
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA				* 0					* 0	
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*				* 0					* 0	
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	Cabbage	8	2	20 * 3 60	64,000				4 * 33 132	
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne				* 0					* 0	
79	Rurenge	Muhurire	Gitobe	BARAME Silas				* 0					* 0	
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*				* 0					* 0	
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*				* 0					* 0	
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars				* 0					* 0	
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita				* 0					* 0	
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert				5 * 30 150					* 0	
85	Rurenge	Muhurire	Gitobe	NABAHIRE				* 0					* 0	
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis				3 * 7 21		Cabbage	6	Rotation	* 0	30,000
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie				* 0					* 0	
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI				* 0					* 0	
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas				5 * 6 30		Cabbage	9	Rotation	* 0	81,000
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude				2 * 18 36		Cabbage	4	Rotation	* 0	60,000
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	Sweet pepper	7	1	3 * 6 18	49,000	Potatoes	3	1	20 * 100 2,000	30,000
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent				* 0					* 0	
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne				* 0					* 0	
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI				3 * 5 15		Cabbage	20	Rotation	* 0	600,000
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*				10 * 5 50					30 * 5 150	
96	Rurenge	Muhurire	Gitobe	VUNUHAWE	Cabbage	24	3	3 * 15 45	96,000				3 * 15 45	
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	Cabbage	5	Rotation	* 0	25,000				* 0	
98	Rurenge	Muhurire	Gitobe	MUHASHYI	Carrot	5	1	5 * 20 100	25,000	weet potatoes	2	1	5 * 20 100	20,000
99	Rurenge	Muhurire	Gitobe	KAWERA				* 0					* 0	
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura				4 * 7 28					3 * 15 45	
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa				5 * 20 100		Carrot	3	Rotation	* 0	18,000
102	Rurenge	Muhurire	Gitobe	RWAGATERA				* 0					* 0	
103	Rurenge	Muhurire	Gitobe	BAZIRA				* 0					* 0	
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	Carrot	1	Rotation	* 0	10,000				* 0	
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien	Maize	2	Rotation	* 0	30,000	Cabbage	6	Rotation	* 0	30,000
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	Cabbage	7	3	15 * 9 135	21,000				5 * 15 75	
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*				* 0					* 0	
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent				* 0					* 0	

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

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109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne				* 0					* 0	
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin				* 0					* 0	
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angelique				* 0					* 0	
112	Rurenge	Musya	Karama	NIZEYIMANA Valens				* 0					* 0	
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*				* 0					* 0	
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*				5 * 30 150					* 0	
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde				5 * 18 90					* 0	
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	Cabbage	3.5	Rotation	* 0	17,500				* 0	
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA				* 0					* 0	
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain				6 * 6 36		Cabbage	18	2	6 * 6 36	90,000
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste				* 0					* 0	
120	Rurenge	Muhurire	Gitobe	NIBATETE	Cabbage	30	Rotation	* 0	300,000				* 0	
121	Rurenge	Muhurire	Gitobe	BUZYANA Celestin				* 0					* 0	
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel				* 0					* 0	
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique				* 0					* 0	
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul				* 0					* 0	
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	Cabbage	6	1	10 * 30 300	30,000				* 0	
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre				* 0					* 0	
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred				4 * 26 104					3 * 14 42	
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin				4 * 25 100		Cabbage	3	Rotation	* 0	24,000
129	Rurenge	Muhurire	Gitobe	MUSABYEYEUZU Annonciata	Cabbage	2	Rotation	* 0	10,000				* 0	
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	Sweet potatoes	8	1	3 * 20 60	80,000				* 0	
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais				* 0					* 0	
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène				* 0					* 0	
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien				* 0					* 0	
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie				* 0					* 0	
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*				* 0					* 0	
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph				* 0					* 0	
137	Rurenge	Muhurire	Nyamata	NGENDAHAHOYO	Cabbage	20	Rotation	* 0	200,000	Tomatoes	30	Rotation	* 0	450,000
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele				* 0					* 0	
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*				5 * 16 80					* 0	
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	Cabbage	15	Rotation	* 0	150,000	Eggplant	10	Rotation	* 0	200,000
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse				* 0					* 0	
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi				* 0					* 0	
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric				* 0					* 0	
144	Rurenge	Rujambara	Mashyoza	GISAGARA				* 0					* 0	

* The persons have hillside farmlands to be submered.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (6) cultivated in the marshland	Q11. Crop (6) number of bags produced in the marshland	Q11. Nos of plot for Crop (6) cultivated in the marshland	Q11. Size of plot of crop (6) (m2)	income of crop (6)	Total income of crop in Marshland	Total plot in Marshland	Q12. Size of plot A outside of marshland	Q12. Size of plot B outside of marshland	Q12. Size of plot C outside of marshland
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*				* 0		102,500	225	270 * 75 20,250	20 * 30 600	* 0
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille				* 0		84,000	266	100 * 50 5,000	30 * 15 450	* 0
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph				* 0		36,000	296	30 * 40 1,200	50 * 70 3,500	50 * 120 6,000
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean				* 0		190,000	925	30 * 90 2,700	20 * 60 1,200	20 * 50 1,000
5	Rurenge	Rujambara	Nyabaganza	GATETE James*				* 0		380,000	2,800	30 * 60 1,800	50 * 60 3,000	50 * 40 2,000
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette				* 0		580,000	551	20 * 30 600	28 * 24 672	50 * 100 5,000
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*				* 0		145,000	477	80 * 70 5,600	25 * 80 2,000	100 * 120 12,000
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*				* 0		145,000	252	40 * 70 2,800	20 * 30 600	16 * 15 240
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin				* 0		230,000	450	40 * 50 2,000	30 * 60 1,800	50 * 70 3,500
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA				* 0		298,000	3,080	164 * 80 13,120	* 0	* 0
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic				* 0		154,000	596	30 * 40 1,200	50 * 80 4,000	40 * 30 1,200
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*				* 0		155,000	1,520	40 * 66 2,640	30 * 20 600	20 * 30 600
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina				* 0		232,000	80	87 * 90 7,830	* 0	* 0
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel				* 0		274,000	205	40 * 70 2,800	50 * 90 4,500	30 * 50 1,500
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien				* 0		176,000	180	30 * 40 1,200	15 * 60 900	25 * 40 1,000
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias				* 0		600,000	630	60 * 40 2,400	10 * 25 250	* 0
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel				* 0		210,000	192	20 * 60 1,200	20 * 50 1,000	20 * 50 1,000
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel				* 0		120,000	600	20 * 30 600	60 * 50 3,000	20 * 15 300
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David				* 0		350,000	181	100 * 200 20,000	30 * 70 2,100	20 * 30 600
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle				* 0		114,000	608	80 * 70 5,600	60 * 50 3,000	20 * 30 600
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*				* 0		350,000	820	75 * 10 750	80 * 50 4,000	75 * 10 750
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne				* 0		118,000	390	120 * 80 9,600	100 * 85 8,500	50 * 30 1,500
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore				* 0		220,000	495	30 * 60 1,800	10 * 30 300	15 * 35 525
24	Rurenge	Rujambara	Akarambaraye	RIZINDE				* 0		365,000	446	40 * 30 1,200	10 * 20 200	15 * 40 600
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph				5 * 35 175		199,000	892	50 * 100 5,000	60 * 40 2,400	15 * 20 300
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*				7 * 15 105		228,000	840	30 * 75 2,250	20 * 30 600	10 * 12 120
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	Cabbage	10	1	24 * 5 120	65,000	201,000	2,130	20 * 100 2,000	40 * 60 2,400	50 * 50 2,500
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène				* 0		154,000	200	40 * 80 3,200	* 0	* 0
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene				* 0		390,000	348	20 * 40 800	20 * 30 600	32 * 55 1,760
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal				* 0		280,000	530	70 * 40 2,800	30 * 40 1,200	20 * 60 1,200
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie				* 0		16,000	42	20 * 30 600	30 * 50 1,500	* 0
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas				* 0		228,000	320	100 * 100 10,000	100 * 100 10,000	20 * 30 600
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar				* 0		24,000	530	15 * 30 450	20 * 10 200	10 * 15 150
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Françoise				* 0		6,000	204	40 * 100 4,000	30 * 70 2,100	20 * 30 600
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse				* 0		148,000	804	100 * 100 10,000	* 0	* 0
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*				* 0		30,000	537	60 * 120 7,200	60 * 100 6,000	50 * 80 4,000

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

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37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	Onion	3	1	6 * 20 120	45,000	205,000	465	50 * 50 2,500	10 * 30 300	* 0
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*				* 0		146,000	415	100 * 50 5,000	20 * 30 600	30 * 45 1,350
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*				* 0		20,000	214	30 * 50 1,500	40 * 60 2,400	* 0
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*				* 0		190,000	430	27 * 40 1,080	25 * 30 750	15 * 40 600
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien				* 0		505,000	468	100 * 40 4,000	* 0	* 0
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*				* 0		117,000	56	20 * 30 600	100 * 150 15,000	20 * 40 800
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia				* 0		54,000	112	100 * 300 30,000	* 0	* 0
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU				* 0		114,000	275	70 * 100 7,000	40 * 70 2,800	60 * 70 4,200
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne				* 0		123,500	1,200	10 * 70 700	30 * 35 1,050	25 * 40 1,000
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine				* 0		45,000	422	80 * 120 9,600	30 * 70 2,100	50 * 200 10,000
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE				* 0		100,000	600	80 * 1,000 80,000	* 0	* 0
48	Rurenge	Muhurire	Gitobe	UWIRINGIYIMANA J. Claude				* 0		170,000	134	30 * 7 210	30 * 40 1,200	15 * 50 750
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette				* 0		90,000	306	20 * 30 600	20 * 40 800	20 * 60 1,200
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO				* 0		120,000	142	20 * 45 900	60 * 35 2,100	20 * 30 600
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel				* 0		235,000	125	100 * 50 5,000	30 * 70 2,100	40 * 50 2,000
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie				* 0		160,000	245	100 * 100 10,000	20 * 50 1,000	50 * 150 7,500
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel				* 0		105,500	900	60 * 90 5,400	* 0	* 0
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina				* 0		310,000	246	35 * 50 1,750	* 0	* 0
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene				* 0		21,000	225	80 * 50 4,000	5 * 4 20	* 0
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette				* 0		112,000	915	30 * 70 2,100	20 * 50 1,000	20 * 40 800
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse				* 0		140,000	220	50 * 100 5,000	50 * 100 5,000	30 * 40 1,200
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO				* 0		91,500	2,522	40 * 50 2,000	15 * 30 450	* 0
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert				* 0		41,000	140	30 * 40 1,200	40 * 50 2,000	* 0
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*				3 * 7 21		360,000	449	30 * 40 1,200	30 * 50 1,500	20 * 70 1,400
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette				* 0		160,000	94	100 * 80 8,000	100 * 80 8,000	* 0
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens				* 0		300,000	84	80 * 20 1,600	60 * 15 900	30 * 12 360
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste				* 0		80,000	468	100 * 50 5,000	100 * 40 4,000	* 0
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine				* 0		123,000	815	30 * 60 1,800	* 0	* 0
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens				* 0		85,000	280	100 * 100 10,000	50 * 50 2,500	25 * 32 800
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	Cabbage	3	Rotation	* 0	22,500	69,500	500	40 * 50 2,000	30 * 70 2,100	25 * 40 1,000
67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique				* 0		180,000	915	20 * 60 1,200	30 * 50 1,500	25 * 70 1,750
68	Rurenge	Rujambara	Nyabaganza	MUKANKUSI Juliette*				* 0		12,000	420	100 * 100 10,000	* 0	* 0
69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel				* 0		52,000	116	100 * 100 10,000	* 0	* 0
70	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Joseph				* 0		662,000	40	30 * 50 1,500	15 * 10 150	* 0
71	Rurenge	Rujambara	Nyabaganza	MPAGAZEHE Gerrard				* 0		108,000	1,922	25 * 50 1,250	15 * 70 1,050	50 * 30 1,500
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin	Cabbage	7	Rotation	* 0	70,000	205,000	504	60 * 30 1,800	40 * 25 1,000	* 0

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (6) cultivated in the marshland	Q11. Crop (6) number of bags produced in the marshland	Q11. Nos of plot for Crop (6) cultivated in the marshland	Q11. Size of plot of crop (6) (m2)	income of crop (6)	Total income of crop in Marshland	Total plot in Marshland	Q12. Size of plot A outside of marshland	Q12. Size of plot B outside of marshland	Q12. Size of plot C outside of marshland
73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.				* 0		164,700	80	20 * 4 80	10 * 30 300	40 * 45 1,800
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	Carrot	2		* 0	4,000	204,000	408	50 * 100 5,000	30 * 40 1,200	* 0
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA				* 0		155,000	666	100 * 50 5,000	9 * 30 270	* 0
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*				* 0		22,000	595	124 * 32 3,968	30 * 50 1,500	30 * 50 1,500
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	Eggplant	22	2	3 * 20 60	132,000	232,000	564	20 * 40 800	20 * 30 600	20 * 30 600
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne				* 0		50,000	145	15 * 25 375	25 * 40 1,000	* 0
79	Rurenge	Muhurire	Gitobe	BARAME Silas				* 0		20,000	42	50 * 100 5,000	20 * 30 600	* 0
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*				* 0		67,000	2,500	50 * 50 2,500	50 * 50 2,500	* 0
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*				* 0		48,000	5,400	25 * 30 750	15 * 20 300	* 0
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars				* 0		225,000	480	20 * 15 300	30 * 40 1,200	10 * 30 300
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita				* 0		110,000	440	50 * 100 5,000	40 * 80 3,200	* 0
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert				* 0		340,000	2,070	40 * 30 1,200	20 * 17 340	5 * 30 150
85	Rurenge	Muhurire	Gitobe	NABAHIRE				* 0		165,000	5,160	80 * 60 4,800	60 * 100 6,000	* 0
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	Tomato	25	Rotation	* 0	300,000	355,000	327	110 * 80 8,800	* 0	* 0
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie				* 0		50,000	50	17 * 30 510	20 * 15 300	* 0
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI				* 0		428,000	21	30 * 50 1,500	20 * 40 800	* 0
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	Sweet pepper	2	Rotation	* 0	50,000	146,000	120	20 * 40 800	20 * 30 600	18 * 16 288
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	Eggplant	12	Rotation	* 0	480,000	565,000	198	20 * 40 800	40 * 50 2,000	30 * 50 1,500
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	Sorghum	2	1	20 * 100 2,000	50,000	255,000	4,078	80 * 100 8,000	15 * 10 150	4 * 10 40
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent				* 0		246,000	150	50 * 100 5,000	50 * 100 5,000	* 0
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne				* 0		60,000	680	50 * 50 2,500	30 * 40 1,200	20 * 30 600
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI				* 0		792,000	200	20 * 30 600	* 0	* 0
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	Vegetables	4.5	3	4 * 25 100	90,000	290,000	1,620	10 * 85 850	10 * 90 900	26 * 17 442
96	Rurenge	Muhurire	Gitobe	VUNUHAWE				3 * 15 45		168,000	270	20 * 40 800	30 * 60 1,800	20 * 30 600
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric				* 0		101,000	320	32 * 13 416	20 * 40 800	* 0
98	Rurenge	Muhurire	Gitobe	MUHASHYI				* 0		80,000	425	50 * 70 3,500	30 * 70 2,100	* 0
99	Rurenge	Muhurire	Gitobe	KAWERA				* 0		52,000	60	20 * 40 800	15 * 20 300	* 0
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	Carrot	9	2	3 * 7 21	36,000	83,000	257	12 * 30 360	40 * 12 480	20 * 30 600
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	Cabbage	7	Rotation	* 0	35,000	143,000	340	20 * 30 600	20 * 30 600	21 * 30 630
102	Rurenge	Muhurire	Gitobe	RWAGATERA				* 0		20,000	105	30 * 50 1,500	* 0	* 0
103	Rurenge	Muhurire	Gitobe	BAZIRA				* 0		135,000	750	50 * 70 3,500	50 * 70 3,500	* 0
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard				* 0		230,000	80	50 * 100 5,000	30 * 50 1,500	30 * 20 600
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien				* 0		150,000	60	50 * 100 5,000	30 * 100 3,000	20 * 100 2,000
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*				4 * 17 68		381,000	1,278	70 * 20 1,400	30 * 10 300	30 * 50 1,500
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*				* 0		420,000	1,875	75 * 230 17,250	25 * 30 750	* 0
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent				* 0		0	504	20 * 30 600	20 * 30 600	20 * 30 600

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (6) cultivated in the marshland	Q11. Crop (6) number of bags produced in the marshland	Q11. Nos of plot for Crop (6) cultivated in the marshland	Q11. Size of plot of crop (6) (m2)	income of crop (6)	Total income of crop in Marshland	Total plot in Marshland	Q12. Size of plot A outside of marshland	Q12. Size of plot B outside of marshland	Q12. Size of plot C outside of marshland
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne				* 0		50,000	160	20 * 40 800	30 * 40 1,200	30 * 40 1,200
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin				* 0		300,000	530	30 * 60 1,800	50 * 30 1,500	* 0
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angélique				* 0		133,000	588	20 * 30 600	50 * 100 5,000	6 * 98 588
112	Rurenge	Musya	Karama	NIZEYIMANA Valens				* 0		88,000	630	45 * 30 1,350	35 * 120 4,200	20 * 70 1,400
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*				* 0		460,000	1,300	20 * 30 600	* 0	* 0
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*				* 0		247,500	700	50 * 80 4,000	40 * 50 2,000	* 0
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde				* 0		80,000	307	46 * 50 2,300	28 * 17 476	27 * 65 1,755
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse				* 0		172,500	123	74 * 32 2,368	40 * 20 800	* 0
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA				* 0		150,000	400	50 * 50 2,500	30 * 40 1,200	* 0
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain				7 * 10 70		150,000	304	30 * 70 2,100	40 * 30 1,200	40 * 10 400
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste				* 0		43,000	150	20 * 40 800	20 * 30 600	* 0
120	Rurenge	Muhurire	Gitobe	NIBATETE				* 0		487,500	352	40 * 80 3,200	5 * 10 50	* 0
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin				* 0		80,000	56	60 * 50 3,000	40 * 80 3,200	40 * 40 1,600
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel				* 0		127,000	225	25 * 40 1,000	10 * 50 500	50 * 100 5,000
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angélique				* 0		28,000	200	30 * 50 1,500	40 * 60 2,400	* 0
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul				* 0		60,000	500	50 * 70 3,500	20 * 100 2,000	* 0
125	Rurenge	Muhurire	Gitobe	BITWAYIKI				* 0		114,000	1,200	80 * 50 4,000	30 * 20 600	20 * 30 600
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre				* 0		40,000	150	15 * 25 375	* 0	* 0
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred				* 0		12,000	455	40 * 30 1,200	30 * 60 1,800	20 * 50 1,000
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin				* 0		54,000	440	70 * 82 5,740	70 * 90 6,300	5 * 40 200
129	Rurenge	Muhurire	Gitobe	MUSABYEYEUZU Annonciata				* 0		110,000	452	50 * 20 1,000	20 * 30 600	* 0
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien				* 0		128,000	335	40 * 100 4,000	40 * 70 2,800	60 * 60 3,600
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais				* 0		125,000	480	20 * 30 600	100 * 40 4,000	30 * 40 1,200
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène				* 0		97,500	150	50 * 10 500	* 0	* 0
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felicien				* 0		30,000	75	20 * 50 1,000	15 * 30 450	20 * 40 800
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie				* 0		78,625	735	20 * 30 600	30 * 15 450	25 * 40 1,000
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*				* 0		80,000	40	40 * 20 800	50 * 30 1,500	* 0
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph				* 0		220,000	408	20 * 40 800	20 * 50 1,000	* 0
137	Rurenge	Muhurire	Nyamata	NGENDAHAYO				* 0		725,000	111	100 * 50 5,000	100 * 50 5,000	100 * 100 10,000
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele				* 0		150,000	32	10 * 40 400	20 * 50 1,000	* 0
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*				* 0		160,000	272	50 * 100 5,000	50 * 100 5,000	30 * 60 1,800
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel				* 0		370,000	352	30 * 60 1,800	20 * 36 720	20 * 30 600
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse				* 0		80,000	200	20 * 50 1,000	20 * 70 1,400	* 0
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi				* 0		18,000	200	20 * 30 600	40 * 60 2,400	35 * 75 2,625
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric				* 0		120,000	4,300	120 * 30 3,600	* 0	* 0
144	Rurenge	Rujambara	Mashyoza	GISAGARA				* 0		60,000	800	80 * 40 3,200	20 * 50 1,000	12 * 20 240

* The persons have hillside farmlands to be submered.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q12. Size of plot D outside of marshland	Q12. Size of plot E outside of marshland	Total plot size outside of marshland	Total farmland	Percentage rate of plot in marshland	Q13. Times to cultivate outside of marshland	Q14. Times to cultivate outside of marshland (within 60m from the marshland)	Q15. Years to stay in the area	Q16. Kind of domestic water, rainy season	Q17. Kind of domestic water, dry season	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*	* 0	* 0	20,850	21,075	1%	2	2	44	1;5	5	Yes	Yes
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille	* 0	* 0	5,450	5,716	5%	2	N/A	42	1;5	5	No	Yes
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph	* 0	* 0	10,700	10,996	3%	2	N/A	32	1;5	5	No	Yes
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	12 * 60 720	* 0	5,620	6,545	14%	2	N/A	64	1;2	2	No	Yes
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	* 0	* 0	6,800	9,600	29%	2	2	37	1;5	5	Yes	Yes
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette	* 0	* 0	6,272	6,823	8%	2	2	54	1;5;7	5;7	Yes	Yes
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	* 0	* 0	19,600	20,077	2%	2	2	50	1;5	5	No	Yes
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	* 0	* 0	3,640	3,892	6%	2	N/A	50	1;5	5	No	Yes
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	* 0	* 0	7,300	7,750	6%	2	N/A	54	1;5	5	Yes	Yes
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	* 0	* 0	13,120	16,200	19%	2	N/A	59	7	7	No	Yes
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	* 0	* 0	6,400	6,996	9%	2	N/A	46	1;5	5	Yes	Yes
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	* 0	* 0	3,840	5,360	28%	2	2	33	1;5	5	No	Yes
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	* 0	* 0	7,830	7,910	1%	2	N/A	65	1;5	5	No	Yes
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	* 0	* 0	8,800	9,005	2%	2	N/A	45	1;5	5	No	Yes
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	* 0	* 0	3,100	3,280	5%	2	2	37	1;4	4	No	Yes
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	* 0	* 0	2,650	3,280	19%	2	2	25	1;5	5	No	Yes
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	40 * 50 2,000	4 * 25 100	5,300	5,492	3%	2	N/A	48	1;5	5	No	Yes
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	* 0	* 0	3,900	4,500	13%	2	2	29	1;7	7	No	Yes
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	* 0	* 0	22,700	22,881	1%	2	N/A	62	1;5	5	No	Yes
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	* 0	* 0	9,200	9,808	6%	2	N/A	42	1;5	5	No	Yes
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	* 0	* 0	5,500	6,320	13%	2	N/A	37	1;4	4	Yes	Yes
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	* 0	* 0	19,600	19,990	2%	2	2	57	1;7	7	No	Yes
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	4 * 25 100	* 0	2,725	3,220	15%	2	N/A	18	4	5	No	Yes
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	6 * 25 150	3 * 25 75	2,225	2,671	17%	2	N/A	31	1;5	5	Yes	Yes
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	* 0	* 0	7,700	8,592	10%	2	2	44	1;4	4	No	Yes
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	* 0	* 0	2,970	3,810	22%	2	2	22	1;5	5	No	Yes
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	* 0	* 0	6,900	9,030	24%	2	2	43	1;5	5	Yes	Yes
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	* 0	* 0	3,200	3,400	6%	2	N/A	27	1;4	4	Yes	Yes
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene	* 0	* 0	3,160	3,508	10%	2	N/A	34	1;5	5	Yes	Yes
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	* 0	* 0	5,200	5,730	9%	2	2	44	1;5	5	No	Yes
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie	* 0	* 0	2,100	2,142	2%	2	N/A	70	1	5	No	Yes
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	100 * 100 10,000	* 0	30,600	30,920	1%	2	N/A	20	4;5	4;5	Yes	Yes
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	* 0	* 0	800	1,330	40%	N/A	N/A	20	5	5	No	Yes
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Françoise	* 0	* 0	6,700	6,904	3%	2	N/A	21	1;5	5	No	Yes
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse	* 0	* 0	10,000	10,804	7%	2	N/A	32	1;5	5	No	No
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	* 0	* 0	17,200	17,737	3%	2	2	65	4	1	Yes	Yes

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q12. Size of plot D outside of marshland	Q12. Size of plot E outside of marshland	Total plot size outside of marshland	Total farmland	Percentage rate of plot in marshland	Q13. Times to cultivate outside of marshland	Q14. Times to cultivate outside of marshland (within 60m from the marshland)	Q15. Years to stay in the area	Q16. Kind of domestic water, rainy season	Q17. Kind of domestic water, dry season	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	* 0	* 0	2,800	3,265	14%	2	N/A	50	1;5	5	No	Yes
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	* 0	* 0	6,950	7,365	6%	2	2	53	1;5	5	No	Yes
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	* 0	* 0	3,900	4,114	5%	2	N/A	61	1;5	5	No	No
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	* 0	* 0	2,430	2,860	15%	2	2	31	1;5	5	No	Yes
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	* 0	* 0	4,000	4,468	10%	2	2	53	1;5	5	No	Yes
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	* 0	* 0	16,400	16,456	0.3%	2	2	73	1;5	5	No	Yes
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	* 0	* 0	30,000	30,112	0.4%	2	N/A	61	1	5	No	Yes
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	* 0	* 0	14,000	14,275	2%	2	N/A	60	1;5	5	Yes	Yes
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	50 * 80 4,000	* 0	6,750	7,950	15%	2	N/A	50	1;5	5	No	Yes
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	* 0	* 0	21,700	22,122	2%	2	N/A	61	1;5	5	No	No
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	* 0	* 0	80,000	80,600	1%	2	2	53	1;4	4;5	No	Yes
48	Rurenge	Muhurire	Gitobe	UWIRINGYIMANA J. Claude	* 0	* 0	2,160	2,294	6%	2	N/A	31	1;5	5	Yes	Yes
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	18 * 50 900	* 0	3,500	3,806	8%	2	N/A	54	1;4	4	Yes	Yes
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	* 0	* 0	3,600	3,742	4%	2	N/A	29	1;5	5	No	Yes
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	* 0	* 0	9,100	9,225	1%	2	2	45	1;5	5	No	Yes
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	20 * 60 1,200	* 0	19,700	19,945	1%	2	N/A	50	5	5	No	Yes
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel	* 0	* 0	5,400	6,300	14%	2	N/A	34	1;4	4	Yes	Yes
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina	* 0	* 0	1,750	1,996	12%	2	N/A	34	1;5	5	Yes	Yes
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene	* 0	* 0	4,020	4,245	5%	2	N/A	34	1;4	4;2	No	Yes
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	* 0	* 0	3,900	4,815	19%	2	2	18	1;5	5	No	Yes
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse	* 0	* 0	11,200	11,420	2%	2	2	36	1;5	5	Yes	Yes
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO	* 0	* 0	2,450	4,972	51%	2	2	12	1;4	4	No	Yes
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert	* 0	* 0	3,200	3,340	4%	2	N/A	35	1;5	5	No	Yes
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	* 0	* 0	4,100	4,549	10%	N/A	N/A	38	5	5	No	Yes
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette	* 0	* 0	16,000	16,094	1%	2	N/A	28	1;5	5	No	Yes
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens	* 0	* 0	2,860	2,944	3%	2	2	26	1;5	5	No	Yes
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste	* 0	* 0	9,000	9,468	5%	2	N/A	35	5	1;5	No	Yes
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine	* 0	* 0	1,800	2,615	31%	2	N/A	29	1;5	5	No	Yes
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens	* 0	* 0	13,300	13,580	2%	2	N/A	26	1;5	5	No	Yes
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	* 0	* 0	5,100	5,600	9%	2	N/A	43	1;5	5	Yes	Yes
67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique	* 0	* 0	4,450	5,365	17%			44	4	4	No	Yes
68	Rurenge	Rujambara	Nyabaganza	MUKANKUSI Juliette*	* 0	* 0	10,000	10,420	4%	2	2	54	1;5	5	No	Yes
69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel	* 0	* 0	10,000	10,116	1%	2	N/A	30	1	5	Yes	Yes
70	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Joseph	* 0	* 0	1,650	1,690	2%	2	N/A	35	1;5	5	No	Yes
71	Rurenge	Rujambara	Nyabaganza	MPAGAZEHE Gerrard	* 0	* 0	3,800	5,722	34%	2	2	34	2;5	2;5	No	Yes
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin	* 0	* 0	2,800	3,304	15%	2	2	21	1	5	No	Yes

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q12. Size of plot D outside of marshland	Q12. Size of plot E outside of marshland	Total plot size outside of marshland	Total farmland	Percentage rate of plot in marshland	Q13. Times to cultivate outside of marshland	Q14. Times to cultivate outside of marshland (within 60m from the marshland)	Q15. Years to stay in the area	Q16. Kind of domestic water, rainy season	Q17. Kind of domestic water, dry season	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area
73	Rurenge	Rujambara	Nyabaganza	MURWANASHYAKA J.D.	* 0	* 0	2,180	2,260	4%	2	2	20	1	1;4	No	Yes
74	Rurenge	Rujambara	Nyabaganza	MUNYEHIRWE J. de Dieu	* 0	* 0	6,200	6,608	6%	2	2	28	1;4	4	Yes	Yes
75	Rurenge	Rujambara	Nyabaganza	ZIMURINDA	* 0	* 0	5,270	5,936	11%	2	3	54	1	5	No	Yes
76	Rurenge	Muhurire	Gitobe	MUKAGATERA Alphonsine*	* 0	* 0	6,968	7,563	8%	2	2	57	1;4	4	Yes	Yes
77	Rurenge	Rujambara	Nyabaganza	NTIRUSHWAMABOKO	* 0	* 0	2,000	2,564	22%	2	N/A	31	1;5	5	Yes	Yes
78	Rurenge	Rujambara	Akarambaraye	MURWANASHYAKA Etienne	* 0	* 0	1,375	1,520	10%	2	N/A	31	1;5	5	Yes	Yes
79	Rurenge	Muhurire	Gitobe	BARAME Silas	* 0	* 0	5,600	5,642	1%	2	2	50	1;4	4	Yes	Yes
80	Rurenge	Rujambara	Kabeza	MUKANKUSI Esperance*	* 0	* 0	5,000	7,500	33%	2	2	18	1;5	1;5	No	Yes
81	Rurenge	Muhurire	Gitobe	HABUMUREMYI Abel*	* 0	* 0	1,050	6,450	84%	2	2	36	1;4	4	Yes	Yes
82	Rurenge	Muhurire	Gitobe	NDAGIJIMANA Wellars	* 0	* 0	1,800	2,280	21%	2	2	47	1;4	4	Yes	Yes
83	Rurenge	Rujambara	Nyabaganza	MUKANDENZI Emerita	* 0	* 0	8,200	8,640	5%	2	N/A	38	1;5	5	Yes	Yes
84	Rurenge	Rujambara	Nyabaganza	NDENGEREHE Philbert	* 0	* 0	1,690	3,760	55%	2	2	33	1;7	7	No	Yes
85	Rurenge	Muhurire	Gitobe	NABAHIRE	* 0	* 0	10,800	15,960	32%	2	2	56	1;4	4	Yes	Yes
86	Rurenge	Rujambara	Nyabaganza	MUKANDANGA Evanis	* 0	* 0	8,800	9,127	4%	N/A	N/A	50	1;5	5	No	Yes
87	Rurenge	Muhurire	Gitobe	NIYONSABA Elie	* 0	* 0	810	860	6%	2	2	25	1	5	Yes	Yes
88	Rurenge	Muhurire	Gitobe	NKUNDABAGENZI	* 0	* 0	2,300	2,321	1%	2	2	25	1	4	Yes	Yes
89	Rurenge	Muhurire	Gitobe	NIYONZIZA Didas	* 0	* 0	1,688	1,808	7%	2	2	35	1;4	4	Yes	Yes
90	Rurenge	Muhurire	Gitobe	UWINGABIYE J. Claude	15 * 40 600	20 * 50 1,000	5,900	6,098	3%	2	N/A	34	1;4	4	Yes	Yes
91	Rurenge	Muhurire	Gitobe	NYIRAMANA Anastasie	12 * 20 240	31 * 18 558	8,988	13,066	31%	2	2	29	1;4	4	Yes	Yes
92	Rurenge	Rujambara	Nyabaganza	KAMASORO Vincent	* 0	* 0	10,000	10,150	1%	2	2	59	1	7	No	Yes
93	Rurenge	Muhurire	Gitobe	MUHIMPUNDU Everyne	* 0	* 0	4,300	4,980	14%	2	N/A	77	1;4	4	Yes	Yes
94	Rurenge	Muhurire	Gitobe	NTAMFURAYISHYARI	* 0	* 0	600	800	25%	2	N/A	31	1;4;5	4;5	No	
95	Rurenge	Rujambara	Akarambaraye	UWIRAGIYE Pierre*	* 0	* 0	2,192	3,812	42%	2	2	29	1;5	5	Yes	Yes
96	Rurenge	Muhurire	Gitobe	VUNUHAWÉ	* 0	* 0	3,200	3,470	8%	2	2	59	1;4;5	4;5	Yes	Yes
97	Rurenge	Muhurire	Gitobe	NSABIYUMVA Eric	* 0	* 0	1,216	1,536	21%	2	2	38	1;4	4	Yes	Yes
98	Rurenge	Muhurire	Gitobe	MUHASHYI	* 0	* 0	5,600	6,025	7%	2	N/A	59	1;4	5	Yes	Yes
99	Rurenge	Muhurire	Gitobe	KAWERA	* 0	* 0	1,100	1,160	5%	2	N/A	23	1;4	4	Yes	Yes
100	Rurenge	Muhurire	Gitobe	MUKABAKUNZI Shefura	* 0	* 0	1,440	1,697	15%	2	N/A	25	1;4	4;5	Yes	Yes
101	Rurenge	Muhurire	Gitobe	NIZEYIMANA Costa	40 * 70 2,800	30 * 20 600	5,230	5,570	6%	2	2	41	1;4	4	Yes	Yes
102	Rurenge	Muhurire	Gitobe	RWAGATERA	* 0	* 0	1,500	1,605	7%	2	N/A	20	1;4	4;5	No	Yes
103	Rurenge	Muhurire	Gitobe	BAZIRA	* 0	* 0	7,000	7,750	10%	2	N/A	38	1;4	4	Yes	Yes
104	Rurenge	Muhurire	Gitobe	KARANGANWA Leonard	* 0	* 0	7,100	7,180	1%	2	2	85	1	4	Yes	Yes
105	Rurenge	Muhurire	Gitobe	BAMAZIKI Fabien	* 0	* 0	10,000	10,060	1%	2	N/A	51	1;4	4	Yes	Yes
106	Rurenge	Muhurire	Gitobe	NZEYIMANA Eugène*	50 * 60 3,000	30 * 40 1,200	7,400	8,678	15%	2	2	48	1;4;5	4;5	Yes	Yes
107	Rurenge	Rujambara	Nyabaganza	RUSAGARA Isdor*	* 0	* 0	18,000	19,875	9%	2	2	46	1;5	5	No	No
108	Rurenge	Muhurire	Nyamata	NSABIMANA Innocent	20 * 30 600	* 0	2,400	2,904	17%	2	N/A	29	1;4	4;5	Yes	Yes

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q12. Size of plot D outside of marshland	Q12. Size of plot E outside of marshland	Total plot size outside of marshland	Total farmland	Percentage rate of plot in marshland	Q13. Times to cultivate outside of marshland	Q14. Times to cultivate outside of marshland (within 60m from the marshland)	Q15. Years to stay in the area	Q16. Kind of domestic water, rainy season	Q17. Kind of domestic water, dry season	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	10 * 15 150	20 * 30 600	3,950	4,110	4%	2	N/A	43	1;4;5	4;5	Yes	Yes
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	* 0	* 0	3,300	3,830	14%	2	2	37	1	4	Yes	Yes
111	Rurenge	Rujambarara	Akarambaraye	MUTONI Angelique	* 0	* 0	6,188	6,776	9%	N/A	2	30	1;5	5	No	Yes
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	20 * 60 1,200	50 * 35 1,750	9,900	10,530	6%	2	N/A	35	1;2	2	No	Yes
113	Rurenge	Rujambarara	Kabeza	MUKAGAJU Annonciata*	* 0	* 0	600	1,900	68%	2	2	20	1;5;7	5;7	No	Yes
114	Rurenge	Rujambarara	Akarambaraye	NDARIKE Pierre*	* 0	* 0	6,000	6,700	10%	2	N/A	34	1;5	5	No	Yes
115	Rurenge	Rujambarara	Nyabaganza	MUKANKWIRO Berthilde	20 * 15 300	* 0	4,831	5,138	6%	2	N/A	34	1;2	2	No	Yes
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	* 0	* 0	3,168	3,291	4%	2	2	21	1	4	Yes	Yes
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	* 0	* 0	3,700	4,100	10%	2	N/A	45	1;4;5	4;5	Yes	Yes
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	50 * 30 1,500	20 * 117 2,340	7,540	7,844	4%	2	N/A	34	1;4	4;5	Yes	Yes
119	Rurenge	Rujambarara	Nyabaganza	HABINEZA Vedaste	* 0	* 0	1,400	1,550	10%	2	N/A	31	1;5	5	No	Yes
120	Rurenge	Muhurire	Gitobe	NIBATETE	* 0	* 0	3,250	3,602	10%	2	2	35	1;4	4	Yes	Yes
121	Rurenge	Muhurire	Gitobe	BUCYANA Celestin	100 * 100 10,000	* 0	17,800	17,856	0.3%	2	N/A	58	1;4	4	Yes	Yes
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	60 * 100 6,000	* 0	12,500	12,725	2%	2	2	64	1;4	4	Yes	Yes
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angelique	* 0	* 0	3,900	4,100	5%	2	N/A	4	1;4	4;5	No	Yes
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	* 0	* 0	5,500	6,000	8%	2	N/A	32	1;4;5	4;5	Yes	Yes
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	* 0	* 0	5,200	6,400	19%	2	N/A	43	1;4;5	4;5	No	Yes
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	* 0	* 0	375	525	29%	2	N/A	40	1;4	4;5	No	Yes
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	* 0	* 0	4,000	4,455	10%	2	N/A	50	1;5	5	No	Yes
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	20 * 30 600	* 0	12,840	13,280	3%	2	N/A	42	1;5	5	No	Yes
129	Rurenge	Muhurire	Gitobe	MUSABYEYEUZU Annonciata	* 0	* 0	1,600	2,052	22%	2	N/A	20	1;4	4	No	Yes
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	* 0	* 0	10,400	10,735	3%	2	2	49	1;5	5	No	Yes
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	20 * 12 240	* 0	6,040	6,520	7%	N/A	0	46	1;4	4	Yes	Yes
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	* 0	* 0	500	650	23%	2	2	33	1	5	Yes	Yes
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien	* 0	* 0	2,250	2,325	3%	2	2	30	4;1	5	No	Yes
134	Rurenge	Rujambarara	Akarambaraye	MUKAFASHAHO Euphrasie	30 * 50 1,500	* 0	3,550	4,285	17%	2	N/A	63	1;5	5	No	Yes
135	Rurenge	Rujambarara	Nyabaganza	NYAMURIMA Valens*	* 0	* 0	2,300	2,340	2%	2	1	26	1;5	5	No	Yes
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	* 0	* 0	1,800	2,208	18%	2	N/A	54	1;4	4	Yes	Yes
137	Rurenge	Muhurire	Nyamata	NGENDAHAHO	* 0	* 0	20,000	20,111	1%	2	N/A	37	1;4;5	4;5	No	Yes
138	Rurenge	Rujambarara	Nyabaganza	KAGABO Fidele	* 0	* 0	1,400	1,432	2%	2	N/A	31	1;5	5	No	Yes
139	Rurenge	Rujambarara	Nyabaganza	MUKANKURANA Ernestine*	* 0	* 0	11,800	12,072	2%	2	2	55	1;5	5	No	Yes
140	Rurenge	Rujambarara	Akarambaraye	INGABIRE Marie Michel	* 0	* 0	3,120	3,472	10%	2	N/A	34	1;5	5	No	Yes
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	* 0	* 0	2,400	2,600	8%	2	2	29	1;4;5	4;5	Yes	Yes
142	Rurenge	Rujambarara	Akarambaraye	MUKABATABAZI Evanisi	* 0	* 0	5,625	5,825	3%	2	N/A	58	1;5	5	No	Yes
143	Rurenge	Rujambarara	Nyabaganza	IYAKAREMYE Eric	* 0	* 0	3,600	7,900	54%	2	N/A	25	5;7	5	No	Yes
144	Rurenge	Rujambarara	Mashyoza	GISAGARA	* 0	* 0	4,440	5,240	15%	2	2	41	1;5	5	No	Yes

* The persons have hillside farmlands to be submered.

*1. Rain water 2. Canal water 3. River water 4. Piped water (public water) 5. Tubewell (deep), public 6. Tubewell

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q20.Official Land ownership certificate in the affected area in the marshland	Q21. Official land tile of your private land near marshland	Q21. Plot size near marshland	Q21. Plot size near marshland (m2)	Q21. Plot size near marshland (m2)	Q21. Plot size near marshland (m2)	Q21. Plot size near marshland (m2)	Q22. Want to continue farming after the project (Yes or No)
1	Rurenge	Rujambara	Akarambaraye	NSHIMYUMUREMYI Richard*	No	Yes	270 * 75 20,250	* 0	* 0	* 0	* 0	Yes
2	Rurenge	Rujambara	Kabeza	MUKAMWAMBUTSA Bellancille	No	No	* 0	* 0	* 0	* 0	* 0	Yes
3	Rurenge	Muhurire	Gitobe	MURENZI Joseph	No	No	* 0	* 0	* 0	* 0	* 0	Yes
4	Rurenge	Rujambara	Nyabaganza	SIMBURIBYAGO Jean	No	No	* 0	* 0	* 0	* 0	* 0	Yes
5	Rurenge	Rujambara	Nyabaganza	GATETE James*	No	No	* 0	* 0	* 0	* 0	* 0	Yes
6	Rurenge	Rujambara	Akarambaraye	NYIRANTWARI Violette	No	No	* 0	* 0	* 0	* 0	* 0	Yes
7	Rurenge	Rujambara	Nyabaganza	MUKAKABARE Genifa*	No	Yes	25 * 80 2,000	* 0	* 0	* 0	* 0	Yes
8	Rurenge	Rujambara	Nyabaganza	KAREGA Cyprien*	No	No	100 * 50 5,000	* 0	* 0	* 0	* 0	Yes
9	Rurenge	Rujambara	Nyabaganza	MUDAHERANWA Augustin	No	No	* 0	* 0	* 0	* 0	* 0	Yes
10	Rurenge	Rujambara	Akarambaraye	NYIRABUNEGERWA	No	No	164 * 20 3,280	* 0	* 0	* 0	* 0	Yes
11	Rurenge	Rujambara	Nyabaganza	NUMVIYUMUKUZA Frederic	No	No	* 0	* 0	* 0	* 0	* 0	Yes
12	Rurenge	Rujambara	Akarambaraye	UWIRINGIYE Clementine*	No	No	* 0	* 0	* 0	* 0	* 0	Yes
13	Rurenge	Rujambara	Nyabaganza	NYIRANDEGEYA Safina	No	No	* 0	* 0	* 0	* 0	* 0	Yes
14	Rurenge	Muhurire	Gitobe	NSHIMYUMWUNGERI Oziel	No	No	* 0	* 0	* 0	* 0	* 0	Yes
15	Rurenge	Muhurire	Gitobe	MUNYENGABE Fabien	No	No	* 0	* 0	* 0	* 0	* 0	Yes
16	Rurenge	Rujambara	Akarambaraye	NDAYISENGA Papias	No	Yes	60 * 40 2,400	* 0	* 0	* 0	* 0	Yes
17	Rurenge	Muhurire	Gitobe	NTEZIMANA Emmanuel	No	No	* 0	* 0	* 0	* 0	* 0	Yes
18	Rurenge	Rujambara	Mashyoza	HANAMBINTWALI Emmanuel	No	No	* 0	* 0	* 0	* 0	* 0	Yes
19	Rurenge	Rujambara	Nyabaganza	BUGINGO David	No	No	* 0	* 0	* 0	* 0	* 0	Yes
20	Rurenge	Rujambara	Nyabaganza	KABERA Fidèle	No	No	* 0	* 0	* 0	* 0	* 0	Yes
21	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Alexis*	No	Yes	75 * 50 3,750	80 * 50 4,000	* 0	* 0	* 0	Yes
22	Rurenge	Rujambara	Akarambaraye	MUKAKALISA Joselyne	No	No	* 0	* 0	* 0	* 0	* 0	Yes
23	Rurenge	Muhurire	Gitobe	MUGEMANA Telesphore	No	No	* 0	* 0	* 0	* 0	* 0	Yes
24	Rurenge	Rujambara	Akarambaraye	RIZINDE	No	No	* 0	* 0	* 0	* 0	* 0	Yes
25	Rurenge	Rujambara	Nyabaganza	SEMANA Joseph	No	Yes	40 * 60 2,400	* 0	* 0	* 0	* 0	Yes
26	Rurenge	Rujambara	Nyabaganza	NYIRANSABIMANA Denyse*	Yes	Yes	30 * 75 2,250	* 0	* 0	* 0	* 0	Yes
27	Rurenge	Rujambara	Nyabaganza	NTAKAVURO Emmanuel*	No	Yes	50 * 50 2,500	40 * 60 2,400	* 0	* 0	* 0	Yes
28	Rurenge	Rujambara	Akarambaraye	MUNYESHYAKA Théogène	No	No	* 0	* 0	* 0	* 0	* 0	Yes
29	Rurenge	Rujambara	Akarambaraye	NTIVUGURUZWA Theogene	No	No	* 0	* 0	* 0	* 0	* 0	Yes
30	Rurenge	Rujambara	Nyabaganza	MUNYABUGINGO Pascal	No	No	* 0	* 0	* 0	* 0	* 0	Yes
31	Rurenge	Rujambara	Akarambaraye	NUBUHORO Anastasie	No	No	* 0	* 0	* 0	* 0	* 0	No
32	Rurenge	Muhurire	Gitobe	RUKERATABARO Stanislas	No	Yes	100 * 100 10,000	100 * 100 10,000	20 * 30 600	100 * 100 10,000	100 * 100 10,000	Yes
33	Rurenge	Rujambara	Akarambaraye	NIYONIZERA Oscar	No	No	* 0	* 0	* 0	* 0	* 0	Yes
34	Rurenge	Rujambara	Nyabaganza	MUJAWAMARIYA Françoise	No	No	* 0	* 0	* 0	* 0	* 0	Yes
35	Rurenge	Rujambara	Nyabaganza	RENZAHO Tharcisse	No	No	* 0	* 0	* 0	* 0	* 0	Yes
36	Rurenge	Muhurire	Gitobe	NTASONI Felecia*	No	Yes	100 * 60 6,000	* 0	* 0	* 0	* 0	Yes

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q20.Official Land ownership certificate in the affected area in the marshland	Q21. Official land tile of your private land near marshland	Q21. Plot size near marshland	Q21. Plot size near marshland (m2)	Q21. Plot size near marshland (m2)	Q21. Plot size near marshland (m2)	Q21. Plot size near marshland (m2)	Q22. Want to continue farming after the project (Yes or No)
37	Rurenge	Rujambara	Nyabaganza	MUKATURATSINZE Felesiya	No	Yes	50 * 30 1,500	* 0	* 0	* 0	* 0	Yes
38	Rurenge	Rujambara	Nyabaganza	NYIRAMARABA Philomene*	No	No	30 * 45 1,350	* 0	* 0	* 0	* 0	Yes
39	Rurenge	Rujambara	Nyabaganza	MUNYAKAZI Moise*	No	No	* 0	* 0	* 0	* 0	* 0	Yes
40	Rurenge	Rujambara	Nyabaganza	NIKUZE Christine*	No	Yes	15 * 40 600	* 0	* 0	* 0	* 0	Yes
41	Rurenge	Rujambara	Nyabaganza	NTAMBARA Felicien	No	No	* 0	* 0	* 0	* 0	* 0	Yes
42	Rurenge	Rujambara	Nyabaganza	KIBERWA Evariste*	No	Yes	100 * 150 15,000	* 0	* 0	* 0	* 0	Yes
43	Rurenge	Rujambara	Nyabaganza	NYIRAMAFARANGA Flavia	No	No	* 0	* 0	* 0	* 0	* 0	Yes
44	Rurenge	Muhurire	Gitobe	MUKARUTAMU	No	No	* 0	* 0	* 0	* 0	* 0	Yes
45	Rurenge	Rujambara	Nyabaganza	MUKAMWEZI Jeanne	No	No	* 0	* 0	* 0	* 0	* 0	Yes
46	Rurenge	Rujambara	Nyabaganza	MUKAGAFURAMA Claudine	No	Yes	80 * 120 9,600	30 * 70 2,100	50 * 200 10,000	* 0	* 0	Yes
47	Rurenge	Rujambara	Nyabaganza	MUKANGARAMBE	No	Yes	80 * 1,000 80,000	* 0	* 0	* 0	* 0	Yes
48	Rurenge	Muhurire	Gitobe	UWRINGIYIMANA J. Claude	No	No	* 0	* 0	* 0	* 0	* 0	Yes
49	Rurenge	Muhurire	Gitobe	MUKAKARANGWA Juliette	No	No	* 0	* 0	* 0	* 0	* 0	Yes
50	Rurenge	Rujambara	Akarambaraye	RUKESHAMIHIGO	No	No	* 0	* 0	* 0	* 0	* 0	Yes
51	Rurenge	Rujambara	Akarambaraye	RURANGIRWA Usiel	No	Yes	100 * 50 5,000	* 0	* 0	* 0	* 0	Yes
52	Rurenge	Rujambara	Nyabaganza	MURENGEZI Appolinarie	No	No	* 0	* 0	* 0	* 0	* 0	Yes
53	Rurenge	Muhurire	Gitobe	MUNYANEZA Usiel	No	No	* 0	* 0	* 0	* 0	* 0	Yes
54	Rurenge	Rujambara	Nyabaganza	UWERA Xaverina	No	No	* 0	* 0	* 0	* 0	* 0	Yes
55	Rurenge	Rujambara	Nyabaganza	NAHIMANA Theogene	No	Yes	5 * 20 100	50 * 80 4,000	* 0	* 0	* 0	Yes
56	Rurenge	Rujambara	Nyabaganza	UMUHIRE Theodette	No	No	* 0	* 0	* 0	* 0	* 0	Yes
57	Rurenge	Rujambara	Akarambaraye	NTIRENGANA Alphonse	No	Yes	50 * 100 5,000	* 0	* 0	* 0	* 0	Yes
58	Rurenge	Rujambara	Nyabaganza	MUKANYUZAHAYO	No	No	* 0	* 0	* 0	* 0	* 0	Yes
59	Rurenge	Rujambara	Nyabaganza	MUGIRANEZA Gilbert	No	No	* 0	* 0	* 0	* 0	* 0	Yes
60	Rurenge	Rujambara	Akarambaraye	BICAMUMPAKA Claude*	No	Yes	30 * 40 1,200	30 * 50 1,500	20 * 70 1,400	* 0	* 0	Yes
61	Rurenge	Rujambara	Nyabaganza	MUKANDOLI Jeanette	No	No	* 0	* 0	* 0	* 0	* 0	Yes
62	Rurenge	Rujambara	Akarambaraye	NTEZIYAREMYE Valens	No	Yes	80 * 20 1,600	60 * 15 900	* 0	* 0	* 0	Yes
63	Rurenge	Rujambara	Akarambaraye	HABINEZA Evariste	No	No			* 0	* 0	* 0	Yes
64	Rurenge	Rujambara	Nyabaganza	MUKAGATARE Clementine	No	Yes	30 * 60 1,800	* 0	* 0	* 0	* 0	Yes
65	Rurenge	Rujambara	Nyabaganza	IRAFASHA Valens	No	No	100 * 100 10,000	50 * 50 2,500	25 * 35 875	* 0	* 0	Yes
66	Rurenge	Muhurire	Gitobe	BUTATI Jean de Dieu	No	No	* 0	* 0	* 0	* 0	* 0	Yes
67	Rurenge	Rujambara	Nyabaganza	MUKARUZIGA Angelique	No	No	* 0	* 0	* 0	* 0	* 0	Yes
68	Rurenge	Rujambara	Nyabaganza	MUKANKUSI Juliette*	No	Yes	100 * 100 10,000	* 0	* 0	* 0	* 0	No
69	Rurenge	Rujambara	Nyabaganza	BARIGIRA Emmanuel	No	No	* 0	* 0	* 0	* 0	* 0	Yes
70	Rurenge	Rujambara	Nyabaganza	NSANZINEZA Joseph	No	No	* 0	* 0	* 0	* 0	* 0	Yes
71	Rurenge	Rujambara	Nyabaganza	MPAGAZEHE Gerrard	No	Yes	50 * 70 3,500	* 0	* 0	* 0	* 0	Yes
72	Rurenge	Rujambara	Nyabaganza	NIKOYAGENYE Constatin	No	Yes	60 * 32 1,920	40 * 25 1,000	* 0	* 0	* 0	Yes

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

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

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q20.Official Land ownership certificate in the affected area in the marshland	Q21. Official land tile of your private land near marshland	Q21. Plot size near marshland	Q21. Plot size near marshland (m2)	Q21. Plot size near marshland (m2)	Q21. Plot size near marshland (m2)	Q21. Plot size near marshland (m2)	Q22. Want to continue farming after the project (Yes or No)
109	Rurenge	Muhurire	Gitobe	KIMONYO Etienne	No	No	* 0	* 0	* 0	* 0	Yes	
110	Rurenge	Muhurire	Gitobe	MUNYEMANA Faustin	No	No	* 0	* 0	* 0	* 0	Yes	
111	Rurenge	Rujambara	Akarambaraye	MUTONI Angeliqne	No	Yes	6 * 98 588	* 0	* 0	* 0	No	
112	Rurenge	Musya	Karama	NIZEYIMANA Valens	No	No	* 0	* 0	* 0	* 0	Yes	
113	Rurenge	Rujambara	Kabeza	MUKAGAJU Annonciata*	No	Yes	20 * 30 600	* 0	* 0	* 0	Yes	
114	Rurenge	Rujambara	Akarambaraye	NDARIKE Pierre*	No	No	* 0	* 0	* 0	* 0	Yes	
115	Rurenge	Rujambara	Nyabaganza	MUKANKWIRO Berthilde	No	No	* 0	* 0	* 0	* 0	Yes	
116	Rurenge	Muhurire	Gitobe	NYIRINKINDI Tharcisse	No	No	* 0	* 0	* 0	* 0	Yes	
117	Rurenge	Muhurire	Gitobe	SINDAMUHEBA	No	No	* 0	* 0	* 0	* 0	Yes	
118	Rurenge	Muhurire	Gitobe	NIZEYIMANA Sylvain	No	No	* 0	* 0	* 0	* 0	Yes	
119	Rurenge	Rujambara	Nyabaganza	HABINEZA Vedaste	No	No	* 0	* 0	* 0	* 0	Yes	
120	Rurenge	Muhurire	Gitobe	NIBATETE	No	Yes	40 * 80 3,200	5 * 10 50	* 0	* 0	Yes	
121	Rurenge	Muhurire	Gitobe	BUZYANA Celestin	No	No	* 0	* 0	* 0	* 0	Yes	
122	Rurenge	Muhurire	Gitobe	FATUKUBONYE Daniel	No	Yes	25 * 40 1,000	50 * 100 5,000	10 * 50 500	* 0	Yes	
123	Rurenge	Muhurire	Gitobe	MUKAMAZIMPAKA Angeliqne	No	Yes	30 * 40 1,200	* 0	* 0	* 0	Yes	
124	Rurenge	Muhurire	Gitobe	NSHUTI Ange Marie Paul	No	No	* 0	* 0	* 0	* 0	Yes	
125	Rurenge	Muhurire	Gitobe	BITWAYIKI	No	No	* 0	* 0	* 0	* 0	Yes	
126	Rurenge	Muhurire	Agatonero	MURANGIRA Pierre	No	Yes	15 * 25 375	* 0	* 0	* 0	Yes	
127	Rurenge	Muhurire	Gashinya	MUNYABUGINGO Alfred	No	No	* 0	* 0	* 0	* 0	Yes	
128	Rurenge	Muhurire	Gashinya	NTORE Pierre Celestin	No	No	* 0	* 0	* 0	* 0	Yes	
129	Rurenge	Muhurire	Gitobe	MUSABYEYEZU Annonciata	No	Yes	50 * 20 1,000	30 * 20 600	* 0	* 0	Yes	
130	Rurenge	Muhurire	Gashinya	HABIMANA Felicien	No	No	* 0	* 0	* 0	* 0	Yes	
131	Rurenge	Muhurire	Gitobe	RUCYAHANA Protais	No	No	* 0	* 0	* 0	* 0	Yes	
132	Rurenge	Muhurire	Gashinya	UWIZEYE Eugène	No	No	* 0	* 0	* 0	* 0	Yes	
133	Rurenge	Muhurire	Gashinya	NIYITEGEKA Felcien	No	Yes	15 * 30 450	* 0	* 0	* 0	Yes	
134	Rurenge	Rujambara	Akarambaraye	MUKAFASHAHO Euphrasie	No	No	* 0	* 0	* 0	* 0	Yes	
135	Rurenge	Rujambara	Nyabaganza	NYAMURIMA Valens*	No	Yes	40 * 20 800	50 * 20 1,000	* 0	* 0	Yes	
136	Rurenge	Muhurire	Gitobe	NSABIMANA Joseph	No	Yes	20 * 40 800	20 * 50 1,000	* 0	* 0	Yes	
137	Rurenge	Muhurire	Nyamata	NGENDAHAHO	No	No	* 0	* 0	* 0	* 0	Yes	
138	Rurenge	Rujambara	Nyabaganza	KAGABO Fidele	No	Yes	10 * 40 400	20 * 50 1,000	* 0	* 0	Yes	
139	Rurenge	Rujambara	Nyabaganza	MUKANKURANA Ernestine*	No	Yes	50 * 100 5,000	* 0	* 0	* 0	Yes	
140	Rurenge	Rujambara	Akarambaraye	INGABIRE Marie Michel	No	No	* 0	* 0	* 0	* 0	Yes	
141	Rurenge	Muhurire	Gitobe	UWIZEYIMANA Alphonse	No	Yes	20 * 70 1,400	* 0	* 0	* 0	Yes	
142	Rurenge	Rujambara	Akarambaraye	MUKABATABAZI Evanisi	No	No	* 0	* 0	* 0	* 0	Yes	
143	Rurenge	Rujambara	Nyabaganza	IYAKAREMYE Eric	No	No	* 0	* 0	* 0	* 0	Yes	
144	Rurenge	Rujambara	Mashyoza	GISAGARA	No	Yes	40 * 80 3,200	* 0	* 0	* 0	Yes	

* The persons have hillside farmlands to be submered.

ell (deep), private 7. Shallow well

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Remera)

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

* The persons have hillside farmlands to be submered.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Remera)

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

* The persons have hillside farmlands to be submered.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Remera)

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

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Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Remera)

No.	Sector	Cell	Village	Name of householder	Total household net income	Q10. Times of cultivation in the marshland to be submerged	Q11. Crop (1) cultivated in the marshland	Q11. Crop (1) number of bags produced in the marshland	Q11. Nos of plot for Crop (1) cultivated in the marshland	Q11. Size of plot of crop (1) (m2)	income of crop (1)	Q11. Crop (2) cultivated in the marshland	Q11. Crop (2) number of bags produced in the marshland	Q11. Nos of plot for Crop (2) cultivated in the marshland	Q11. Size of plot of crop (2) (m2)
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	190,000	2	Sweet potatoes	20	3	4 * 30 120	100,000				4 * 30 120
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas	109,000	2	Sweet potatoes	2	1	24 * 4 96	20,000	Eggplant	2	1.0	25 * 4 100
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien	337,990	2	Sweet potatoes	3	3	10 * 5 50	60,000				10 * 5 50
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant	410,100	2	Sweet potatoes	12	3	4 * 15 60	120,000				4 * 15 60
5	Remera	Ndekwe	Gikomero	MUJYAMBERE	935,000	2	Cabbage	48	6	7 * 34 238	360,000	Sweet potatoes	13	Rotation	5 * 25 125
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	883,000	2	Sweet potatoes	15	3	30 * 3 90	150,000				70 * 4 280
7	Remera	Bugera	Nkenke	MUREKATETE Felicita	540,000	2	Sweet potatoes	11	4	14 * 45 630	132,000				5 * 39 195
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin	69,600	2	Sweet potatoes	7	1	5 * 30 150	70,000				* 0
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison	164,000	2	Sweet potatoes	5	1	6 * 20 120	50,000	Sunflower	1	1.0	65 * 85 5,525
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene	697,400	2	Sweet potatoes	6	3	3 * 12 36	60,000				4 * 28 112
11	Remera	Bugera	Gasebeya	HABINEZA Samuel	577,400	2	Sweet potatoes	10	5	5 * 15 75	100,000				5 * 15 75
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*	773,000		Sweet potatoes	11		* 0	110,000	Sorghum	5	1.0	180 * 20 3,600
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*	885,000	2	Sweet potatoes	10	3	10 * 45 450	100,000				10 * 30 300
14	Remera	Ndekwe	Gikomero	ZIMURINDA	305,000	2	Sweet potatoes	8	3	6 * 35 210	48,000				4 * 40 160
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu	767,200	2	Sorghum	2	1	20 * 24 480	40,000				* 0
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE	430,000	2	Sweet potatoes	2	1	12 * 15 180	20,000				* 0

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Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Remera)

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

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Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Remera)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (5) number of bags produced in the marshland	Q11. Nos of plot for Crop (5) cultivated in the marshland	Q11. Size of plot of crop (5) (m2)	income of crop (5)	Q11. Crop (6) cultivated in the marshland	Q11. Crop (6) number of bags produced in the marshland	Q11. Nos of plot for Crop (6) cultivated in the marshland	Q11. Size of plot of crop (6) (m2)	income of crop (6)	Total income of crop in Marshland	Total plot in Marshland	Q12. Size of plot A outside of marshland (m2)
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	15.0	Rotation	* 0	105,000				* 0		355,000	360	70 * 40 2,800
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas			* 0					* 0		47,000	296	80 * 40 3,200
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien			* 0					* 0		60,000	120	50 * 30 1,500
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant			* 0					* 0		120,000	180	60 * 80 4,800
5	Remera	Ndekwe	Gikomero	MUJYAMBERE			8 * 27 216					10 * 35 350		1,035,000	929	60 * 110 6,600
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	70.0	Rotation	* 0	420,000				* 0		660,000	610	50 * 40 2,000
7	Remera	Bugera	Nkenke	MUREKATETE Felicita			7 * 48 336					6 * 45 270		282,000	1,896	62 * 49 3,038
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin			* 0					* 0		70,000	150	10 * 30 300
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison			* 0					* 0		58,000	5,645	65 * 65 4,225
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene			* 0					* 0		60,000	148	80 * 100 8,000
11	Remera	Bugera	Gasebeya	HABINEZA Samuel			* 0					* 0		130,000	225	30 * 50 1,500
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*			* 0					* 0		330,000	7,200	70 * 180 12,600
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*			5 * 25 125					* 0		150,000	1,065	70 * 100 7,000
14	Remera	Ndekwe	Gikomero	ZIMURINDA			30 * 8 240		Eggplant	5	3.0	30.0 * 4 120	30,000	138,000	2,510	50 * 100 5,000
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu			* 0					* 0		40,000	480	35 * 102 3,570
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE			* 0					* 0		20,000	180	100 * 100 10,000

* The persons have hillside farmlands to be submered.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Remera)

No.	Sector	Cell	Village	Name of householder	Q12. Size of plot B outside of marshland (m2)	Q12. Size of plot C outside of marshland (m2)	Q12. Size of plot D outside of marshland (m2)	Q12. Size of plot E outside of marshland (m2)	Total plot size outside of marshland	percentage rate of plot in marshland	Q13. Times to cultivate in hillside	Q14. Times to cultivate outside of marshland (within 50m from the marshland)	Q15. Years to stay in the area	Q16. Kind of domestic water, rainy season*
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	40 * 50 2,000	* 0	* 0	* 0	4,800	7%	2	N/A	36	1;5
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas	19 * 20 380	* 0	* 0	* 0	3,580	8%	2	2	27	5
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien	20 * 50 1,000	* 0	* 0	* 0	2,500	5%	2	N/A	52	1;2;7
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant	50 * 70 3,500	60 * 70 4,200	* 0	* 0	12,500	1%	2	N/A	44	1;5
5	Remera	Ndekwe	Gikomero	MUJYAMBERE	* 0	* 0	* 0	* 0	6,600	12%	2	2	54	1;5
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	110 * 60 6,600	* 0	* 0	* 0	8,600	7%	2	2	37	5
7	Remera	Bugera	Nkenke	MUREKATETE Felicita	* 0	* 0	* 0	* 0	3,038	38%	2	N/A	53	2
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin	* 0	* 0	* 0	* 0	300	33%	2	N/A	20	1;7
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison	* 0	* 0	* 0	* 0	4,225	57%	2	2	18	1;7
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene	50 * 80 4,000	70 * 100 7,000	20 * 60 1,200	40 * 50 2,000	22,200	1%	2	N/A	31	1;2;4
11	Remera	Bugera	Gasebeya	HABINEZA Samuel	30 * 60 1,800	30 * 50 1,500	* 0	* 0	4,800	4%	2	N/A	65	1;4;5
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*	* 0	* 0	* 0	* 0	12,600	36%	2	2	7	1;7
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*	50 * 80 4,000	10 * 20 200	* 0	* 0	11,200	9%	2	N/A	45	1;4
14	Remera	Ndekwe	Gikomero	ZIMURINDA	* 0	* 0	* 0	* 0	5,000	33%	2	2	74	7
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu	35 * 44 1,540	150 * 50 7,500	* 0	* 0	12,610	4%	2	2	30	1;5
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE	60 * 40 2,400	* 0	* 0	* 0	12,400	1%	2	N/A	22	1;4

* The persons have hillside farmlands to be submered.

*1. Rain water 2. Canal water 3. River water 4. Piped water (public water) 5.'

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le Terrain marécageux (Remera)

No.	Sector	Cell	Village	Name of householder	Q17. Kind of domestic water, dry season*	Q18. Availability of Electricity, (Yes or No)	Q19. Cultivate or not in the affected area	Q20 .Official Land ownership certificate in the affected area in the marshland	Q21. Official land tile of your private land in hillside	Q21. Plot size in hillside with land title (m2)		Q22. Want to continue farming after the project (Yes or No)
1	Remera	Ndekwe	Gikomero	MBANJINTWARI Théoneste	5	No	Yes	No	No	*	0	Yes
2	Remera	Bugera	Gasebeya	MANIRAGENA Silas	4	No	Yes	No	No	*	0	No
3	Remera	Ndekwe	Gikomero	NGARAMBE Felicien	7	No	Yes	No	No	*	0	Yes
4	Remera	Ndekwe	Gikomero	SINZABAKURANA Qilisant	5	No	Yes	No	No	*	0	No
5	Remera	Ndekwe	Gikomero	MUJYAMBERE	5	No	Yes	No	Yes	60 *	110 6,600	No
6	Remera	Ndekwe	Gikomero	KANYARUKIKO Felicien	5	No	Yes	No	No	*	0	No
7	Remera	Bugera	Nkenke	MUREKATETE Felicita	2	No	Yes	No	No	*	0	No
8	Remera	Ndekwe	Gikomero	NSHIMIYIMANA Faustin	7	No	Yes	No	No	*	0	Yes
9	Remera	Ndekwe	Gikomero	NIYIGABA Edison	2	No	Yes	No	Yes	65 *	85 5,525	Yes
10	Remera	Ndekwe	Gikomero	MANIRAGENA Jean Damascene	4;7	No	Yes	No	No	*	0	Yes
11	Remera	Bugera	Gasebeya	HABINEZA Samuel	4;5	No	Yes	No	No	*	0	Yes
12	Remera	Ndekwe	Gikomero	MBONIGABA Jean Baptiste*	7	No	Yes	No	Yes	180 *	70 12,600	Yes
13	Remera	Ndekwe	Gikomero	MUKASENDAKIZE Agnes*	4	No	Yes	No	No	*	0	Yes
14	Remera	Ndekwe	Gikomero	ZIMURINDA	7	No	Yes	No	No	*	0	Yes
15	Remera	Ndekwe	Gikomero	IRYUMUGABE Swayibu	5	No	Yes	No	Yes	24 *	80 1,920	Yes
16	Remera	Ndekwe	Gikomero	NIKOYAGENYE	4	No	Yes	No	No	*	0	Yes

* The persons have hillside farmlands to be submered.

Tubewell (deep), public 6. Tubewell (deep), private 7. Shallow well

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Rurenge)

No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Total number of family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicapped person	Q5. Main income source	Q6. 1st crop name	Q6.1 1st crop bags for sale	Q6.1 1st crop price/bag (Rwf)	Q6.1 Income of 1st crop (Rwf)	Q6. 2nd crop name	Q6. 2nd crop bags for sale	Q6. 2nd crop price/bag (Rwf)	Q6.1 Income of 2nd crop (Rwf)	Q6. 3rd crop name
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)	62	N/A	2	1	3	0	F	None	0	Agriculture	Sorghum	1.5	30,000	45,000	Cassava	2	25,000	50,000	Maize
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	22	0782453636	1	2	3	0	M	Primary	0	Agriculture	Sorghum	5	30,000	150,000	Beans	2	40,000	80,000	Tomato
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	55	N/A	4	3	7	0	M	None	1	Agriculture	Sorghum	8	22,000	176,000	Beans	2	40,000	80,000	Sweet Potatoes
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	27	0788396861	2	2	4	0	M	Primary	1	Agriculture	Sorghum	6	30,000	180,000	Beans	4	50,000	200,000	Cassava
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	21	N/A	1	2	3	0	M	Primary	0	Agriculture	Beans	2	35,000	70,000	Sorghum	5	28,000	140,000	Cassava
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel	48	0783872296	6	2	8	0	M	None	0	Agriculture	Sorghum	6	20,000	120,000	Cassava	5	8,000	40,000	Potatoes
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	43	0787516518	3	2	5	0	M	Primary	0	Agriculture	Cabbage	20	12,500	250,000	Sorghum	8	30,000	240,000	Beans
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	39	0784386454	3	3	6	0	M	Secondary Low level	0	Agriculture	Sorghum	15	22,000	330,000	Maize	17	35,000	595,000	Beans
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA	35	0785775258	3	2	5	0	M	Primary	0	Agriculture	Maize	12	36,000	432,000	Sorghum	11	21,000	231,000	
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	83	N/A	3	6	9	1	F	None	0	Agriculture	Maize	1	20,000	20,000	Beans	1.5	30,000	45,000	Sweet Potatoes
11	RURENGE	MUHURIRE	GITOBÉ	MUKAMPIGA Beate	63	N/A	2	1	3	0	F	None	0	Agriculture	Sorghum	2	30,000	60,000	Beans	1	25,000	25,000	Sweet Potatoes
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve	62	N/A	1	2	3	0	F	None	0	Agriculture	Sorghum	3	20,000	60,000	Cassava	4	20,000	80,000	Maize
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu	32	0784065070	7	5	12	0	M	None	0	Agriculture	Beans	5	50,000	250,000	Sorghum	8	20,000	160,000	Maize
14	RURENGE	MUHURIRE	GITOBÉ	MUKAGATARE Selaphine	47	N/A	4	5	9	1	M	None	0	Agriculture	Sorghum	6	30,000	180,000	Beans	3	35,000	105,000	Maize
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	59	0783933767	1	2	3	0	F	Primary	0	Agriculture	Sorghum	4	20,000	80,000	Beans	1	30,000	30,000	Maize

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q6. 3rd crop bags for sale	Q6. 3rd crop price/bag (Rwf)	Q6.1 Income of 3rd crop (Rwf)	Q6. 4th crop name	Q6. 4th crop bags for sale	Q6. 4th crop price/bag (Rwf)	Q6.1 Income of 4th crop (Rwf)	Q6. 5th crop name	Q6. 5th crop bags for sale	Q6. 5th crop price/bag (Rwf)	Q6.1 Income of 5th crop (Rwf)	Q6. 6th crop name	Q6. 6th crop bags for sale	Q6. 6th crop price/bag (Rwf)	Q6.1 Income of 6th crop (Rwf)	Total GROSS farm income	Q7. Farminput :seed (Rwf)	Q7. Farm input: fertilizer (Rwf)	Q7 Farm input: pesticide (Rwf)	Q7 Farm input: labor (Rwf)
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)	1	30,000	30,000	Beans	0.5	40,000	20,000				-				0	145,000	10,000	0	0	0
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	8	12,000	96,000				-				-				0	326,000	5,000	15,000	35,000	0
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	4	7,000	28,000				-				-				0	284,000	20,000	0	0	10,000
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	10	20,000	200,000	Maize	8	30,000	240,000	et potatoes	10	15,000	150,000	Potatoes	10	12,000	120,000	1,090,000	72,000	112,000	10,000	150,000
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	6	30,000	180,000	Sweet Potatoes	20	10,000	200,000				-				0	590,000	24,000	21,000	20,000	60,000
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel	3	7,000	21,000	Sweet Potatoes	5	6,000	30,000				-				0	211,000	4,500	21,000	0	60,000
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	2.5	50,000	125,000	Cassava	5	30,000	150,000	et potatoes	2	20,000	40,000	Tomato	30	7,000	210,000	1,015,000	5,000	19,500	30,000	26,000
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	5	50,000	250,000				-				-				0	1,175,000	25,200	238,000	27,000	80,000
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA			-				-				-				0	663,000	24,000	150,000	6,000	50,000
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	3	10,000	30,000	Cassava	3	15,000	45,000				-				0	140,000	0	0	0	0
11	RURENGE	MUHURIRE	GITOBÉ	MUKAMPIGA Beate	3	6,000	18,000				-				-				0	103,000	0	0	0	0
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve	1	30,000	30,000	Beans	1	30,000	30,000				-				0	200,000	12,000	0	0	0
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu	6	35,000	210,000				-				-				0	620,000	29,300	78,000	0	0
14	RURENGE	MUHURIRE	GITOBÉ	MUKAGATARE Selaphine	2	20,000	40,000				-				-				0	325,000	5,000	26,650	0	0
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	2	30,000	60,000	Cassava	15	25,000	375,000								0	545,000	20,000	26,000	0	30,000

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Rurenge)

No.	Sector	Cell	Village	Name of householder	Total Net farm income	Q8 Other income source	Q9 Other income (Rwf)	Q10. Times of cultivation in the hillside to be submerged	Total household net income	Q10. Times of cultivation in the hillside to be submerged	Q11. Crop (1) cultivated in the hillside to be affected	Q11. Crop (1) number of bags produced in hillside	Q11. UPI Plot Number at hillside for crop 1	Q11. Size of plot of crop (1) (m2) or sqm	Q11. Crop (2) cultivated in the hillside to be affected	Q11. Crop (2) number of bags produced in the hillside	Q11. UPI Plot Number at hillside for crop 2	Q11. Size of plot of crop (2) (m2) or sqm	Q11. Crop (3) cultivated in the hillside to be affected	Q11. Crop (3) number of bags produced in the hillside
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)	135,000	N/A	0	2	135,000	2	Cassava	1	2,336	20 * 25 500				* 0		
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	271,000	N/A	0	2	271,000	2	Sorghum	2	2,263	15 * 50 750	Tomato	4	2,263	15 * 40 600		
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	254,000	N/A	0	2	254,000	2	Sorghum	8	??	200 * 50 10,000	Beans	2	Rotation	* 0		
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	746,000	N/A	0	2	746,000	2	Potatoes	15	1,330	50 * 100 5,000				* 0		
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	465,000	N/A	0	3	465,000	3	Beans	2	1,330	30 * 60 1,800	pot potatoes	20	Rotation		0	
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel	125,500	N/A	0	2	125,500	2	Sorghum	6	3,610	50 * 120 6,000				* 0		
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	934,500	Livestock	160,000	3	1,094,500	3	Sorghum	2	1,262	30 * 50 1,500				* 0		
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	804,800	Trading	200,000	2	1,004,800	2	Sorghum	15		50 * 200 10,000	Maize	17	Rotation		0	
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA	433,000	N/A	0	2	433,000	2	Maize	12		200 * 50 10,000	Sorghum	11	Rotation		0	
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	140,000	N/A	0	2	140,000	2	Maize	1	2,494	20 * 30 600	Beans	1	Rotation	* 0	pot potatoes	1.5
11	RURENGE	MUHURIRE	GITOBÉ	MUKAMPIGA Beate	103,000	N/A	0	2	103,000	2	Sorghum	1	1,393	30 * 40 1,200	Beans	0.5	1,393	30 * 40 1,200		
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve	188,000	N/A	0	2	188,000	2	Tomato	5	2,337	20 * 25 500				* 0		
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu	512,700	Carpentry	250,000	2	762,700	2	Beans	2		42 * 45 1,890	Beans	1		45 * 40 1,800		
14	RURENGE	MUHURIRE	GITOBÉ	MUKAGATARE Selaphine	293,350	N/A	0	2	293,350	2	Beans	1	2,654	15 * 30 450	Sorghum	1	2,654	15 * 30 450	Maize	1
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	469,000	N/A	0	2	469,000	2	Sorghum	2	2,112	100 * 100 10,000	Beans	1	2,114	100 * 180 18,000		

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q11. UPI Plot Number at hillside for crop 3	Q11. Size of plot of crop (3) (m2) or sqm	Q11. Crop (4) cultivated in the hillside	Q11. Crop (4) number of bags produced in hillside	Q11. UPI Plot Number at hillside for crop 4	Q11. Size of plot of crop (4) (m2) or sqm	Q12. Size of plot A outside of submerged (m2) or sqm	Q12. Size of plot B outside of submerged (m2) or sqm	Q12. Size of plot C outside of submerged (m2) or sqm	Q12. Size of plot D outside of submerged (m2) or sqm	Total farmland	Q13. Years to stay in the area	Q14. Kind of domestic water, rainy season*	Q15. Kind of domestic water, dry season*
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)		* 0				* 0	50 * 40 2,000	* 0	* 0	* 0	2,500	42	3	3
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael		* 0				* 0	* 0	* 0	* 0	* 0	1,350	22	1;5	5
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel		* 0				* 0	* 0	* 0	* 0	* 0	10,000	3	4	4;5
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin		* 0				* 0	* 0	* 0	* 0	* 0	5,000	27	1;5	5
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA		* 0				* 0	40 * 70 2,800	* 0	* 0	* 0	4,600	21	1;5	5
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel		* 0				* 0	20 * 20 400	30 * 10 300	* 0	* 0	6,700	48	1;5	5
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald		* 0				* 0	300 * 200 60,000	* 0	* 0	* 0	61,500	43	7	7
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston		* 0				* 0	75 * 90 6,750	* 0	* 0	* 0	16,750	6	5	5
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA		* 0				* 0	* 0	* 0	* 0	* 0	10,000	6	5	5
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	Rotation	* 0	Cassava	1	Rotation	* 0	20 * 30 600	10 * 100 1,000	21 * 60 1,260	* 0	3,460	83	1;5	5
11	RURENGE	MUHURIRE	GITOBÉ	MUKAMPIGA Beate		* 0				* 0	60 * 70 4,200	40 * 50 2,000	* 0	* 0	8,600	63	4	4;5
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve		* 0				* 0	100 * 30 3,000	* 0	* 0	* 0	3,500	62	5	5
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu		* 0				* 0	145 * 130 18,850	175 * 130 22,750	* 0	* 0	45,290	32	5	5
14	RURENGE	MUHURIRE	GITOBÉ	MUKAGATARE Selaphine	2,654	15 * 30 450				* 0	40 * 60 2,400	30 * 100 3,000	* 0	* 0	6,750	47	1;4	4;5
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese		* 0				* 0	100 * 180 18,000	* 0	* 0	* 0	46,000	44	1;2	2

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Rurenge)

No.	Sector	Cell	Village	Name of householder	Q16. Availability of Electricity, (Yes or No)	Q17. Cultivate in the submerged area	Q18 Want to continue farming activity when the Project comes	Q19 cultivate in the area which will be submerged in the reservoir	Q20.Official Land ownership certify ate in the affected area in the marshland	Q21. Official land ownership certify ate in the affected area in the Hillside	Q22. Want to continue farming after the project (Yes or No)	Q23 Other technical assistant from the Government apart of Technical assastant
1	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAGORE Valerie (Zaninka)	Yes	No	Yes	Yes	N/A	No	Yes	
2	RURENGE	RUJAMBARA	NYABAGAZA	BIZASHIRA Ismael	Yes	No	Yes	Yes	No	Yes	No	Loan for business
3	RURENGE	RUGESE	KIYANJA	MUKURALINDA Emmanuel	Yes	No	Yes	Yes	N/A	No	Yes	
4	RURENGE	RUJAMBARA	NYABAGAZA	MWEMEZI Augustin	Yes	No	Yes	Yes	N/A	N/A	Yes	Business
5	RURENGE	RUJAMBARA	AKARAMBARAYE	MANIRAGUHA	No	No	Yes	Yes	N/A	No	Yes	Start a Business (trading)
6	RURENGE	MUHURIRE	GISUNZU	NTEZIMANA Emmanuel	No	Yes	Yes	Yes	No	No	Yes	Livestock
7	RURENGE	RUJAMBARA	NYABAGAZA	KARANGWA Theobald	No	Yes	Yes	Yes	No	N/A	Yes	Access to loan for business
8	RURENGE	RUGESE	KIYANJA	KALISA Gaston	Yes	No	Yes	Yes	N/A	Yes	Yes	Mechanics
9	RURENGE	RUGESE	KIYANJA	RUKIMBIRA Richard SEZIBERA	No	No	Yes	Yes	N/A	No	No	Mechanics
10	RURENGE	RUJAMBARA	NYABAGAZA	MUSABENDE Agenesta	No	Yes	Yes	Yes	No	Yes	Yes	
11	RURENGE	MUHURIRE	GITOBÉ	MUKAMPIGA Beate	Yes	Yes	Yes	Yes	No	Yes	Yes	
12	RURENGE	RUJAMBARA	AKARAMBARAYE	NYIRAPFAKARAMYE Godeleve	Yes	No	Yes	Yes	Yes	No	Yes	
13	RURENGE	RUJAMBARA	MASHYOZA	RYUMUGABA Swayibu	No	Yes	Yes	Yes	No	Yes	Yes	Carpentry
14	RURENGE	MUHURIRE	GITOBÉ	MUKAGATARE Selaphine	Yes	Yes	Yes	Yes	No	Yes	Yes	
15	RURENGE	RUGESE	KIYANJA	CYIZANYE Therese	No	Yes	Yes	Yes	No	Yes	Yes	Pesticides

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

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Remera)

No.	Sector	Cell	Village	Name of householder	Age	Phone number	Number of male family members	Number of female family member	Total number of family member	Q1. Number of person older than 65 years old	Q2. Sex of head of family	Q3. Educational status of head of family	Q4. No. of handicapped person	Q5. Main income source	Q6. 1st crop name	Q6.1 1st crop bags for sale	Q6.1 1st crop price/bag (Rwf)	Q6.1 Income of 1st crop (Rwf)	Q6. 2nd crop name	Q6. 2nd crop bags for sale
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	53	0783636074	0	3	3	0	F	None	0	Agriculture	Sorghum	10	28,000	280,000	Cassava	2
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU	33	N/A	2	6	8	0	F	None	0	Agriculture	Sorghum	5	20,000	100,000		
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste	40	N/A	5	3	8	0	M	None	1	Agriculture	Beans	2	25,000	50,000	Cassava	5
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA	74	0787030530	3	2	5	1	M	None	0	Agriculture	Sorghum	12	20,000	240,000	Beans	3
5	REMERA	BUGERA	NKENKE	SEROMBA	72	N/A	1	3	4	1	M	None	1	Agriculture	Beans	3	30,000	90,000	Sorghum	16
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE	31	N/A	3	1	4	0	M	None	0	Agriculture	Sorghum	7	20,000	140,000	Beans	4
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO	27	0784815507	3	7	10	0	M	Secondary	0	Agriculture	Sorghum	21	20,000	420,000	Beans	3
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA	29	0783435927	4	1	5	0	M	Primary	0	Agriculture	Sorghum	90	20,000	1,800,000	Beans	40
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel	57	0783318241	6	2	8	0	M	Primary	0	Agriculture	Sorghum	20	20,000	400,000	Beans	6
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah	44	N/A	2	2	4	0	M	Primary	0	Agriculture	Sorghum	4	20,000	80,000	Beans	1
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis			3	4	7											

11*: Due to absence, survey was not conducted.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Remera)

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

11*: Due to absence, survey was not conducted.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Remera)

No.	Sector	Cell	Village	Name of householder	Q6. 6th crop price/bag (Rwf)	Q6.1 Income of 6th crop (Rwf)	Q6. 7th crop name	Q6. 7th crop bags for sale	Q6. 7th crop price/bag (Rwf)	Q6.1 Income of 7th crop (Rwf)	Q7. Farm input :seed (Rwf)	Q7. Farm input: fertilizer (Rwf)	Q7 Farm input: pesticide (Rwf)	Q7 Farm input: labour (Rwf)	Total farm net income	Q8 Other income source	Q9 Other income (Rwf)	Total househol d net income	Q10. Times of cultivation in the hillside to be submerged	Q11. Crop (1) cultivated in the hillside to be affected
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	7,500	150,000	Coffee	2	25,000	50,000	50,000	30,000	35,000	15,000	780,000	Livestock	30,000	810,000	2	Sorghum
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU							20,000	25,000	3,000	40,000	12,000	N/A	0	12,000	2	Sorghum
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste							20,000	0	0	0	270,000	Labour	15,000	285,000	2	Beans
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA							30,000	25,000	3,000	30,000	562,000	Livestock	50,000	612,000	2	Sorghum
5	REMERA	BUGERA	NKENKE	SEROMBA							40,000	25,000	5,000	50,000	1,430,000	N/A	0	1,430,000	2	Beans
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE							30,000	26,000	0	40,000	259,000	N/A	0	259,000	2	Sorghum
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO							20,000	30,000	5,000	45,000	815,000	N/A	0	815,000	2	Sorghum
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA							200,000	140,000	50,000	200,000	9,010,000	N/A	0	9,010,000	2	Sorghum
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel							30,000	52,000	25,000	70,000	1,523,000	Livestock	60,000	1,583,000	2	Sorghum
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah							15,000	8,000	6,000	20,000	496,000	N/A	0	496,000	2	Sorghum
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis																

11*: Due to absence, survey was not conducted.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Remera)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (1) number of bags produced in hillside	Q11. UPI Plot Number at hillside	Q11. Size of plot of crop (1) (m2) or sqm	Q11. Crop (2) cultivated in the hillside to be affected	Q11. Crop (2) number of bags produced in the hillside	Q11. UPI Plot Number at hillside for crop 2	Q11. Size of plot of crop (2) (m2) or sqm	Q11. Crop (3) cultivated in the hillside to be affected	Q11. Crop (3) number of bags produced in the hillside	Q11. UPI Plot Number at hillside for crop 3	Q11. Size of plot of crop (3) (m2) or sqm	Q11. Crop (4) cultivated in the hillside
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	10	1647	* 809	Cassava	5	1647	* 809	Beans	4	1647	* 809	Cabbage
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU	6	1609	30 * 50 1,500	Beans	1	1612	40 * 50 2,000				* 0	
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste	3	2114	100 * 80 8,000	Sorghum	6	2114	100 * 80 8,000	Maize	1	Rotation	0 * 0 0	Sweet Potatoes
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA	14	2108	50 * 100 5,000	Beans	4	Rotation	20 * 30 600	Cassava	14	2319	20 * 30 600	
5	REMERA	BUGERA	NKENKE	SEROMBA	4	1636	* 4,487	Cassava	10	Rotation	* 0	Maize	17	Rotation	* 0	
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE	2		54 * 68 3,672	Sorghum	2		54 * 68 3,672	Beans	1		54 * 68 3,672	
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO	6	2504	21 * 200 4,200	Beans	1	2501	21 * 200 4,200				* 0	
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA	10	1605	50 * 180 9,000	Beans	10	Rotation	* 0	Cassava	30	Rotation	* 0	Maize
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel	12		100 * 110 11,000	Beans	4		100 * 110 11,000				* 0	
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah	2	2112	100 * 100 10,000	Beans	1	2114	100 * 180 18,000				* 0	
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis												

11*: Due to absence, survey was not conducted.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Remera)

No.	Sector	Cell	Village	Name of householder	Q11. Crop (4) number of bags produced in hillside	Q11. UPI Plot Number at hillside for crop 4	Q11. Size of plot of crop (4) (m2) or sqm	Q11. Crop (5) cultivated in the hillside	Q11. Crop (5) number of bags produced in the hillside	Q11. UPI Plot Number at hillside for crop 5	Q11. Size of plot of crop (5) (m2) or sqm	Q12. Size of plot A outside of submerged (m2) or sqm	Q12. Size of plot B outside of submerged (m2) or sqm	Total farmland
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	20	1629	* 892	Tomato	10	Rotation	* 0	20 * 35 700	28 * 20 560	4,579
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU			* 0				* 0	60 * 40 2,400	30 * 80 2,400	8,300
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste	1	2114	* 0	Soya	1	Rotation	* 0	0 * 0 0	0 * 0 0	16,000
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA			* 0				* 0	50 * 100 5,000	30 * 20 600	11,800
5	REMERA	BUGERA	NKENKE	SEROMBA			* 0				* 0	* 0	* 0	4,487
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE			* 0				* 0	54 * 68 3,672	* 0	14,688
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO			* 0				* 0	100 * 150 15,000	* 0	23,400
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA	20	rotation	* 0				* 0	250 * 280 70,000	* 0	79,000
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel			* 0				* 0	100 * 110 11,000	* 0	33,000
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah			* 0				* 0	100 * 180 18,000	* 0	46,000
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis										

11*: Due to absence, survey was not conducted.

Résultat de l'Étude du recensement dans de projet a affecté des gens dans le flanc (Remera)

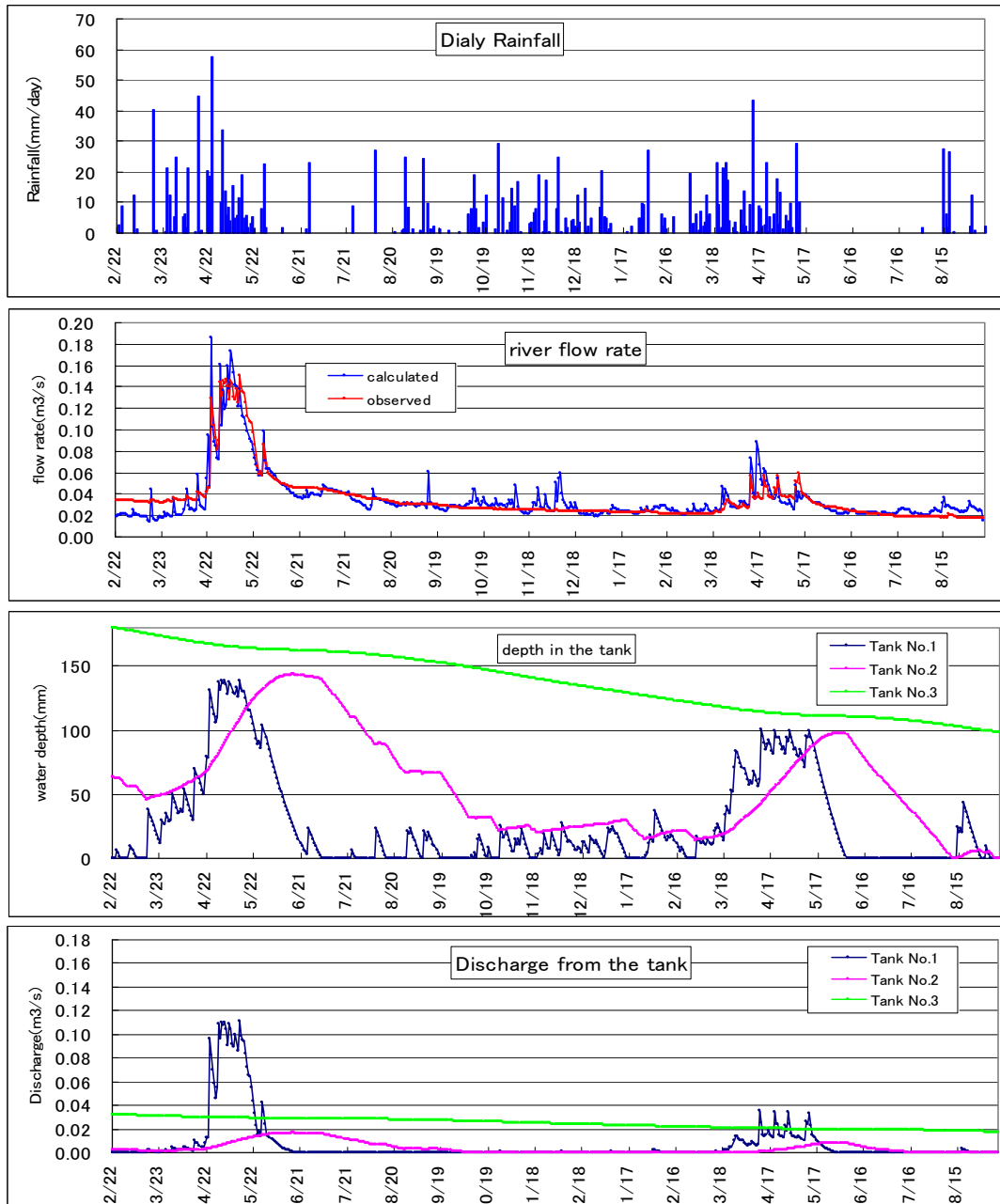
No.	Sector	Cell	Village	Name of householder	Q13. Years to stay in the area	Q14. Kind of domestic water, rainy season*	Q15. Kind of domestic water, dry season*	Q16. Availability of Electricity, (Yes or No)	Q17. Cultivate in the submerged area	Q18. Want to continue farming activity when the Project comes	Q19. cultivate in the area which will be submerged in the reservoir	Q20. Official Land ownership certify ate in the affected area in the marshland	Q21. Official land ownership certify ate in the affected area in the Hillside	Q22. Want to continue farming after the project (Yes or No)	Q23. Other technical assistant from the Government apart of Technical assistant
1	REMERA	BUGERA	GASEBEYA	NYIRAMATAMA	32	1;4;5	4,5	No	Yes	Yes	Yes	Yes	Yes	Yes	Land Compensation
2	REMERA	BUGERA	GASEBEYA	MUKADEREVU	33	1;4	4	No	Yes	Yes	Yes	No	Yes	No	Social assistance
3	REMERA	NDEKWE	GIKOMERO	SHYIRAMBERE Evariste	40	1,5	5	No	Yes	Yes	Yes	No	No	Yes	Compensation
4	REMERA	NDEKWE	GIKOMERO	NZIMURINDA	74	1;4	4	No	Yes	Yes	Yes	No	Yes	No	Social assistance
5	REMERA	BUGERA	NKENKE	SEROMBA	50	1;4	4	Yes	Yes	Yes	Yes	No	Yes	No	Seeds
6	REMERA	NDEKWE	GIKOMERO	UWIRINGIYE	31	1,2	2	No	No	Yes	Yes	No	Yes	No	Fertilizers
7	REMERA	BUGERA	GASEBEYA	SEKIMONYO	27	1;4	4	No	Yes	Yes	Yes	No	Yes	No	Social assistance
8	REMERA	BUGERA	GASEBEYA	MUKAMURERA	29	1;4	4,5	No	Yes	Yes	Yes	No	Yes	Yes	Agriculture Input
9	REMERA	BUGERA	GASEBEYA	KAYITARE Samuel	57	1;4	4,5	No	No	Yes	Yes	No	Yes	No	Agriculture Input
10	REMERA	NDEKWE	GIKOMERO	MUKABIDERI Deborah	44	1;2	2	No	Yes	Yes	Yes	No	Yes	Yes	Pesticides
11*	REMERA	Ndekwe	GIKOMERO	Dr Rusa UWINTWALI Louis											

11*: Due to absence, survey was not conducted.

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

Annexe-6 Autres données pertinentes

ANNEXE AU CHAPITRE 2



Result of simulation analysis

period	22/2/2012~10/9/2013	
Correlation coefficient	0.924	Runoff ratio (%)
Cumulative flow rate calculated	1,714 × 1000m ³	Calculated: 12.5%
Cumulative flow rate observed	1,720 × 1000m ³	Observed: 12.5%
Cumulative rainfall observed	1,564 mm	

FigureA-2.2.2.1 Résultat d'analyse de simulation au ruissellement par le modèle élaboré de réservoir

Tableau A-2.2.2.1(1) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Janvier)

NO.	Distance (m)	①	②	③	④	⑤	⑥	⑦=⑤×⑥	⑧=②+⑦×31	⑨	⑩=①×⑨×10000/1000	⑪=⑧-⑩	⑫=①×0.67×(1.0~0.8)	⑬=①×0.33×(1.0~0.8)	
		Paddy Area (ha)	Cumulative Area (ha)	W.S./initial, return (m3/mon)	Intake quantity (m3/mon.)	Supplemental supply (m3/mon)	Specific discharge (m3/km2)	catchment area (km2)	Flow-in volume (m3/day)	Irrigation water (m3/mon)	ETc (mm/mon)	Water loss (m3/mon)	Residual water (m3/mon.)	Horizontal leakage (m3/mon.)	Return to the river (m3/mon.)
1	50.0	0.18	0.18	1318.9			333.8	0.085	28.373	2198.4	156.1	1917.4	1284.69	632.76	
2	100.0	0.18	0.36	2637.7	632.8	720.3	333.8	0.085	28.373	4237.6	156.1	281.0	3956.6	2650.91	1305.67
3	150.0	0.18	0.54	2650.9		0.0	333.8	0.085	28.373	3530.5	156.1	281.0	3249.5	2177.16	1072.33
4	200.0	0.18	0.72	5275.4	2378.0	720.3	333.8	0.085	28.373	6155.0	156.1	281.0	5874.0	3935.60	1938.43
5	250.0	0.18	0.9	3935.6		0.0	333.8	0.085	28.373	4815.2	156.1	281.0	4534.2	3037.90	1496.28
6	300.0	0.18	1.08	3037.9		0.0	333.8	0.085	28.373	3917.5	156.1	281.0	3636.5	2436.44	1200.04
7	350.0	0.18	1.26	2436.4		0.0	333.8	0.085	28.373	3316.0	156.1	281.0	3035.0	2033.47	1001.56
8	400.0	0.18	1.44	7669.8	5636.3	0.0	333.8	0.085	28.373	8549.3	156.1	281.0	8268.4	5539.80	2728.56
9	450.0	0.18	1.62	5539.8		0.0	333.8	0.085	28.373	6419.4	156.1	281.0	6138.4	4112.72	2025.67
10	500.0	0.18	1.8	4112.7		0.0	333.8	0.085	28.373	4992.3	156.1	281.0	4711.3	3156.57	1554.73
11	550.0	0.18	1.98	3156.6		0.0	333.8	0.085	28.373	4036.1	156.1	281.0	3755.2	2515.95	1239.20
12	600.0	0.18	2.16	10064.1	7548.2	0.0	333.8	0.085	28.373	10943.7	156.1	281.0	10662.7	7144.00	3518.69
13	650.0	0.18	2.34	7144.0		0.0	333.8	0.085	28.373	8023.6	156.1	281.0	7742.6	5187.53	2555.05
14	700.0	0.18	2.52	5187.5		0.0	333.8	0.085	28.373	6067.1	156.1	281.0	5786.1	3876.70	1909.42
15	750.0	0.18	2.7	3876.7		0.0	333.8	0.085	28.373	4756.3	156.1	281.0	4475.3	2998.44	1476.84
16	800.0	0.18	2.88	12458.4	9460.0	0.0	333.8	0.085	28.373	13338.0	156.1	281.0	13057.0	8748.20	4308.82
17	850.0	0.18	3.06	8748.2		0.0	333.8	0.085	28.373	9627.8	156.1	281.0	9346.8	6262.35	3084.44
18	900.0	0.18	3.24	6262.3		0.0	333.8	0.085	28.373	7141.9	156.1	281.0	6860.9	4596.82	2264.11
19	950.0	0.18	3.42	4596.8		0.0	333.8	0.085	28.373	5476.4	156.1	281.0	5195.4	3480.92	1714.48
20	1000.0	0.18	3.6	14852.8	11371.8	0.0	333.8	0.085	28.373	15732.3	156.1	281.0	15451.4	10352.41	5098.95
21	1050.0	0.335	3.935	10352.4		0.0	333.8	0.1	33.38	11387.2	156.1	522.9	10864.3	7279.05	3585.20
22	1100.0	0.335	4.27	7279.0		0.0	333.8	0.1	33.38	8313.8	156.1	522.9	7790.9	5219.90	2570.99
23	1150.0	0.335	4.605	5219.9		0.0	333.8	0.1	33.38	6254.7	156.1	522.9	5731.7	3840.27	1891.48
24	1200.0	0.335	4.94	16986.9	13146.6	0.0	333.8	0.1	33.38	18021.7	156.1	522.9	17498.7	11724.15	5774.58
25	1250.0	0.335	5.275	11724.1		0.0	333.8	0.1	33.38	12758.9	156.1	522.9	12236.0	8198.12	4037.88
26	1300.0	0.335	5.61	8198.1		0.0	333.8	0.1	33.38	9232.9	156.1	522.9	8710.0	5835.67	2874.29
27	1350.0	0.335	5.945	5835.7		0.0	333.8	0.1	33.38	6870.5	156.1	522.9	6347.5	4252.84	2094.68
28	1400.0	0.335	6.28	19034.3	14781.4	0.0	333.8	0.1	33.38	20069.0	156.1	522.9	19546.1	13095.89	6450.22
29	1450.0	0.335	6.615	13095.9		0.0	333.8	0.1	33.38	14130.7	156.1	522.9	13607.7	9117.19	4490.55
30	1500.0	0.335	6.95	9117.2		0.0	333.8	0.1	33.38	10152.0	156.1	522.9	9629.0	6451.45	3177.58
31	1550.0	0.335	7.285	6451.5		0.0	333.8	0.1	33.38	7486.2	156.1	522.9	6963.3	4665.41	2297.89
32	1600.0	0.335	7.62	21081.6	16416.2	0.0	333.8	0.1	33.38	22116.4	156.1	522.9	21593.5	14467.64	7125.85
33	1650.0	0.335	7.955	14467.6		0.0	333.8	0.1	33.38	15502.4	156.1	522.9	14979.5	10036.25	4943.23
34	1700.0	0.335	8.29	10036.3		0.0	333.8	0.1	33.38	11071.0	156.1	522.9	10548.1	7067.23	3480.87
35	1750.0	0.335	8.625	7067.2		0.0	333.8	0.1	33.38	8102.0	156.1	522.9	7579.1	5077.98	2501.09
36	1800.0	0.335	8.96	23129.0	18051.0	0.0	333.8	0.1	33.38	24163.8	156.1	522.9	23640.9	15839.38	7801.49
37	1850.0	0.335	9.295	15839.4		0.0	333.8	0.1	33.38	16874.2	156.1	522.9	16351.2	10955.32	5395.91
38	1900.0	0.335	9.63	10955.3		0.0	333.8	0.1	33.38	11990.1	156.1	522.9	11467.2	7883.00	3784.17
39	1950.0	0.335	9.965	7883.0		0.0	333.8	0.1	33.38	8717.8	156.1	522.9	8194.8	5490.55	2704.30
40	2000.0	0.335	10.3	25176.4	19685.9	0.0	333.8	0.1	33.38	26211.2	156.1	522.9	25688.3	17211.13	8477.12
41	2050.0	0.465	10.765	17211.1		0.0	333.8	0.185	61.753	19125.5	156.1	725.9	18399.6	12327.74	6071.87
42	2100.0	0.465	11.23	12327.7		0.0	333.8	0.185	61.753	14242.1	156.1	725.9	13516.2	9055.86	4460.35
43	2150.0	0.465	11.695	9055.9		0.0	333.8	0.185	61.753	10970.2	156.1	725.9	10244.3	6863.71	3380.63
44	2200.0	0.465	12.16	29253.7	22390.0	0.0	333.8	0.185	61.753	31168.0	156.1	725.9	30442.2	20396.25	10045.91
45	2250.0	0.465	12.625	20396.2		0.0	333.8	0.185	61.753	22310.6	156.1	725.9	21584.7	14461.77	7122.96
46	2300.0	0.465	13.09	14461.8		0.0	333.8	0.185	61.753	16376.1	156.1	725.9	15650.2	10485.66	5164.58
47	2350.0	0.465	13.555	10485.7		0.0	333.8	0.185	61.753	12400.0	156.1	725.9	11674.1	7821.68	3852.47
48	2400.0	0.465	14.02	34007.6	26185.9	0.0	333.8	0.185	61.753	35921.9	156.1	725.9	35196.1	23581.37	11614.70
49	2450.0	0.465	14.485	23581.4		0.0	333.8	0.185	61.753	25495.7	156.1	725.9	24769.8	16595.80	8174.05
50	2500.0	0.465	14.95	16595.8		0.0	333.8	0.185	61.753	18510.1	156.1	725.9	17784.3	11915.47	5868.81
51	2550.0	0.465	15.415	11915.5		0.0	333.8	0.185	61.753	13829.8	156.1	725.9	13103.9	7901.68	3891.87
52	2600.0	0.465	15.88	37451.1	29549.4	0.0	333.8	0.185	61.753	39365.5	156.1	725.9	38639.6	23299.67	11475.96
53	2650.0	0.465	16.345	23299.7		0.0	333.8	0.185	61.753	25214.0	156.1	725.9	24488.2	14766.36	7272.98
54	2700.0	0.465	16.81	14766.4		0.0	333.8	0.185	61.753	16680.7	156.1	725.9	15954.8	9620.76	4738.59
55	2750.0	0.465	17.275	9620.8		0.0	333.8	0.185	61.753	11535.1	156.1	725.9	10809.2	6517.97	3210.35
56	2800.0	0.465	17.74	33215.8	26697.9	0.0	333.8	0.185	61.753	35130.2	156.1	725.9	34404.3	20745.81	10218.08
57	2850.0	0.465	18.205	20745.8		0.0	333.8	0.185	61.753	22660.1	156.1	725.9	21934.3	13226.37	6514.48
58	2900.0	0.465	18.67	13226.4		0.0	333.8	0.185	61.753	15140.7	156.1	725.9	14414.9	8692.16	4281.21
59	2950.0	0.465	19.135	8692.2		0.0	333.8	0.185	61.753	10606.5	156.1	725.9	9880.6	5958.02	2934.55
60	3000.0	0.465	19.6	29906.3	23948.3	0.0	333.8	0.185	61.753	31820.7	156.1	725.9	31094.8	18750.18	9235.16
61	3050.0	0.77	20.37	18750.2		0.0	333.8	0.09	30.042	19681.5	156.1	1202.0	18479.5	11143.15	5488.41
62	3100.0	0.77	21.14	11143.1		0.0	333.8	0.09	30.042	12074.4	156.1	1202.0	10872.5	6556.10	3229.13
63	3150.0	0.77	21.91	6556.1		0.0	333.8	0.09	30.042	7487.4	156.1	1202.0	6285.4	3790.12	1866.77
64	3200.0	0.77	22.68	23609.6	19819.5	0.0	333.8	0.09	30.042	24540.9	156.1	1202.0	23338.9	14073.37	6931.66
65	3250.0	0.77	23.45	14073.4		0.0	333.8	0.09	30.042	15004.7	156.1	1202.0	13802.7	8323.03	4099.40
66	3300.0	0.77	24.22	8323.0		0.0	333.8	0.09	30.042	9254.3	156.1	1202.0	8052.4	4855.58	2391.55
67	3350.0	0.77	24.99	4855.6		0.0	333.8	0.09	30.042	5786.9	156.1	1202.0	4584.9	2764.70	1361.72
68	3400.0	0.77	25.76	22567.2	14784.3	5018.1	333.8	0.09	30.042	23498.5	156.1	1202.0	22296.5	13444.78	6622.06
69	3450.0	0.77	26.53	13444.8		0.0	333.8	0.09	30.042	14376.1	156.1	1202.0	13174.1	7943.99	3912.71
70	3500.0	0.77	27.3	7944.0		0.0	333.8	0.09	30.042	8875.3	156.1	1202.0	7673.3	4627.01	2278.98
71	3550.0	0.77	28.07	4627.0		0.0	333.8	0.09	30.042	5558.3	156.1	1202.0	4356.3	2335.00	1150.08
72	3600.0	0.77	28.84	16298.8	13963.8	0.0	333.8								

Tableau A-2.2.1(2) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Février)

Feb. Water Re= 25.14 mm/day

NO.	Distance (m)	① Paddy Area (ha)	② Cumulative Area (ha)	③ W.S./initial, return (m3/mon)	④ Intake quantity (m3/mon.)	⑤ Supplemental supply (m3/mon)	⑥ Specific discharge (m3/km2)	⑦=⑤×⑥ catchment area (km2)	⑧=②+⑦×28 Flow-in volume (m3/day)	⑨ Irrigation water (m3/mon)	⑩=①×⑨×10000/1000 ETc (mm/mon)	⑪=⑧-⑩ Water loss (m3/mon)	⑫=⑪×0.67×(1.0~0.8) Residual water (m3/mon.)	⑬=⑪×0.33×(1.0~0.8) Horizontal leakage (m3/mon.)	⑭ Return to the river (m3/mon.)
1	50.0	0.18	0.18	1267.0			333.8	0.085	28.373	2061.5	183.1	329.6	1731.9	1160.36	571.52
2	100.0	0.18	0.36	2534.0	571.5	802.2	333.8	0.085	28.373	4130.6	183.1	329.6	3801.1	2546.71	1254.35
3	150.0	0.18	0.54	2546.7		0.0	333.8	0.085	28.373	3341.2	183.1	329.6	3011.6	2017.75	993.82
4	200.0	0.18	0.72	5068.1	2248.2	802.2	333.8	0.085	28.373	5862.5	183.1	329.6	5532.9	3707.07	1825.87
5	250.0	0.18	0.9	3707.1		0.0	333.8	0.085	28.373	4501.5	183.1	329.6	4171.9	2795.20	1376.74
6	300.0	0.18	1.08	2795.2		0.0	333.8	0.085	28.373	3589.6	183.1	329.6	3260.1	2184.24	1075.82
7	350.0	0.18	1.26	2184.2		0.0	333.8	0.085	28.373	2978.7	183.1	329.6	2649.1	1774.90	874.20
8	400.0	0.18	1.44	6927.5	5152.6	0.0	333.8	0.085	28.373	7722.0	183.1	329.6	7392.4	4952.91	2439.49
9	450.0	0.18	1.62	4952.9		0.0	333.8	0.085	28.373	5747.4	183.1	329.6	5417.8	3629.91	1787.86
10	500.0	0.18	1.8	3629.9		0.0	333.8	0.085	28.373	4424.4	183.1	329.6	4094.8	2743.50	1351.27
11	550.0	0.18	1.98	2743.5		0.0	333.8	0.085	28.373	3537.9	183.1	329.6	3208.4	2149.60	1058.76
12	600.0	0.18	2.16	8787.0	6637.4	0.0	333.8	0.085	28.373	9581.4	183.1	329.6	9251.9	6198.74	3053.11
13	650.0	0.18	2.34	6198.7		0.0	333.8	0.085	28.373	6993.2	183.1	329.6	6663.6	4464.62	2198.99
14	700.0	0.18	2.52	4464.6		0.0	333.8	0.085	28.373	5259.1	183.1	329.6	4929.5	3302.75	1626.73
15	750.0	0.18	2.7	3302.8		0.0	333.8	0.085	28.373	4097.2	183.1	329.6	3767.6	2524.30	1243.31
16	800.0	0.18	2.88	10646.4	8122.1	0.0	333.8	0.085	28.373	11440.9	183.1	329.6	11111.3	7444.58	3666.73
17	850.0	0.18	3.06	7444.6		0.0	333.8	0.085	28.373	8239.0	183.1	329.6	7909.4	5299.33	2610.12
18	900.0	0.18	3.24	5299.3		0.0	333.8	0.085	28.373	6093.8	183.1	329.6	5764.2	3862.01	1902.18
19	950.0	0.18	3.42	3862.0		0.0	333.8	0.085	28.373	4656.5	183.1	329.6	4326.9	2899.00	1427.87
20	1000.0	0.18	3.6	12505.9	9606.9	0.0	333.8	0.085	28.373	13300.3	183.1	329.6	12970.8	8690.41	4280.35
21	1050.0	0.335	3.935	8690.4		0.0	333.8	0.1	33.38	9625.1	183.1	613.4	9011.7	6037.82	2973.85
22	1100.0	0.335	4.27	6037.8		0.0	333.8	0.1	33.38	6972.5	183.1	613.4	6359.1	4260.58	2098.49
23	1150.0	0.335	4.605	4260.6		0.0	333.8	0.1	33.38	5195.2	183.1	613.4	4581.8	3069.83	1512.01
24	1200.0	0.335	4.94	13934.5	10864.7	0.0	333.8	0.1	33.38	14869.2	183.1	613.4	14255.8	9551.38	4704.41
25	1250.0	0.335	5.275	9551.4		0.0	333.8	0.1	33.38	10486.0	183.1	613.4	9872.6	6614.66	3257.97
26	1300.0	0.335	5.61	6614.7		0.0	333.8	0.1	33.38	7549.3	183.1	613.4	6935.9	4647.07	2288.85
27	1350.0	0.335	5.945	4647.1		0.0	333.8	0.1	33.38	5581.7	183.1	613.4	4968.3	3328.77	1639.55
28	1400.0	0.335	6.28	15219.6	11890.8	0.0	333.8	0.1	33.38	16154.2	183.1	613.4	15540.8	10412.34	5128.47
29	1450.0	0.335	6.615	10412.3		0.0	333.8	0.1	33.38	11347.0	183.1	613.4	10733.6	7191.51	3542.09
30	1500.0	0.335	6.95	7191.5		0.0	333.8	0.1	33.38	8126.1	183.1	613.4	7512.8	5033.55	2479.21
31	1550.0	0.335	7.285	5033.6		0.0	333.8	0.1	33.38	5968.2	183.1	613.4	5354.8	3587.72	1767.09
32	1600.0	0.335	7.62	16504.6	12916.9	0.0	333.8	0.1	33.38	17439.2	183.1	613.4	16825.8	11273.30	5552.52
33	1650.0	0.335	7.955	11273.3		0.0	333.8	0.1	33.38	12207.9	183.1	613.4	11594.6	7768.36	3826.20
34	1700.0	0.335	8.29	7768.4		0.0	333.8	0.1	33.38	8703.0	183.1	613.4	8089.6	5420.04	2669.57
35	1750.0	0.335	8.625	5420.0		0.0	333.8	0.1	33.38	6354.7	183.1	613.4	5741.3	3846.67	1894.63
36	1800.0	0.335	8.96	17789.6	13942.9	0.0	333.8	0.1	33.38	18724.2	183.1	613.4	18110.8	12134.27	5976.58
37	1850.0	0.335	9.295	12134.3		0.0	333.8	0.1	33.38	13068.9	183.1	613.4	12455.5	8345.20	4110.32
38	1900.0	0.335	9.63	8345.2		0.0	333.8	0.1	33.38	9279.8	183.1	613.4	8666.5	5806.53	2859.93
39	1950.0	0.335	9.965	5806.5		0.0	333.8	0.1	33.38	6741.2	183.1	613.4	6127.8	4105.61	2022.17
40	2000.0	0.335	10.3	19074.6	14969.0	0.0	333.8	0.1	33.38	20009.3	183.1	613.4	19395.9	12995.23	6400.64
41	2050.0	0.465	10.765	12995.2		0.0	333.8	0.185	61.753	14724.3	183.1	851.4	13872.9	9294.84	4578.06
42	2100.0	0.465	11.23	9294.8		0.0	333.8	0.185	61.753	11023.9	183.1	851.4	10172.5	6815.58	3356.93
43	2150.0	0.465	11.695	6815.6		0.0	333.8	0.185	61.753	8544.7	183.1	851.4	7693.3	5154.48	2538.77
44	2200.0	0.465	12.16	22028.9	16874.4	0.0	333.8	0.185	61.753	23758.0	183.1	851.4	22906.5	15347.38	7559.16
45	2250.0	0.465	12.625	15347.4		0.0	333.8	0.185	61.753	17076.5	183.1	851.4	16225.1	10870.79	5354.27
46	2300.0	0.465	13.09	10870.8		0.0	333.8	0.185	61.753	12599.9	183.1	851.4	11748.5	7871.46	3876.99
47	2350.0	0.465	13.555	7871.5		0.0	333.8	0.185	61.753	9600.5	183.1	851.4	8749.1	5861.92	2887.21
48	2400.0	0.465	14.02	25539.6	19677.6	0.0	333.8	0.185	61.753	27268.6	183.1	851.4	26417.2	17699.54	8717.68
49	2450.0	0.465	14.485	17699.5		0.0	333.8	0.185	61.753	19428.6	183.1	851.4	18577.2	12446.73	6130.48
50	2500.0	0.465	14.95	12446.7		0.0	333.8	0.185	61.753	14175.8	183.1	851.4	13324.4	8927.35	4397.05
51	2550.0	0.465	15.415	8927.3		0.0	333.8	0.185	61.753	10656.4	183.1	851.4	9805.0	5912.42	2912.09
52	2600.0	0.465	15.88	28069.7	22157.3	0.0	333.8	0.185	61.753	29798.8	183.1	851.4	28947.4	17455.28	8597.38
53	2650.0	0.465	16.345	17455.3		0.0	333.8	0.185	61.753	19184.4	183.1	851.4	18332.9	11054.77	5444.89
54	2700.0	0.465	16.81	11054.8		0.0	333.8	0.185	61.753	12783.9	183.1	851.4	11932.4	7195.26	3543.93
55	2750.0	0.465	17.275	7195.3		0.0	333.8	0.185	61.753	8924.3	183.1	851.4	8072.9	4867.98	2397.66
56	2800.0	0.465	17.74	24851.8	19983.9	0.0	333.8	0.185	61.753	26580.9	183.1	851.4	25729.5	15514.89	7641.66
57	2850.0	0.465	18.205	15514.9		0.0	333.8	0.185	61.753	17244.0	183.1	851.4	16392.6	9884.71	4868.59
58	2900.0	0.465	18.67	9884.7		0.0	333.8	0.185	61.753	11613.8	183.1	851.4	10762.4	6489.72	3196.43
59	2950.0	0.465	19.135	6489.7		0.0	333.8	0.185	61.753	8218.8	183.1	851.4	7367.4	4442.53	2188.11
60	3000.0	0.465	19.6	22337.3	17894.8	0.0	333.8	0.185	61.753	24066.4	183.1	851.4	23215.0	13998.64	6894.85
61	3050.0	0.77	20.37	13998.6		0.0	333.8	0.09	30.042	14839.8	183.1	1409.9	13429.9	8098.26	3988.69
62	3100.0	0.77	21.14	8098.3		0.0	333.8	0.09	30.042	8939.4	183.1	1409.9	7529.6	4540.33	2236.28
63	3150.0	0.77	21.91	4540.3		0.0	333.8	0.09	30.042	5381.5	183.1	1409.9	3971.6	2394.89	1179.58
64	3200.0	0.77	22.68	21680.1	14299.4	4985.8	333.8	0.09	30.042	22521.3	183.1	1409.9	21111.4	12730.19	6270.09
65	3250.0	0.77	23.45	12730.2		0.0	333.8	0.09	30.042	13571.4	183.1	1409.9	12161.5	7333.38	3611.96
66	3300.0	0.77	24.22	7333.4		0.0	333.8	0.09	30.042	8174.6	183.1	1409.9	6764.7	4079.11	2009.11
67	3350.0	0.77	24.99	4079.1		0.0	333.8	0.09	30.042	4920.3	183.1	1409.9	3510.4	2116.78	1042.59
68	3400.0	0.77	25.76	21680.1	12933.8	6629.6	333.8	0.09	30.042	22521.3	183.1	1409.9	21111.4	12730.19	6270.09
69	3450.0	0.77	26.53	12730.2		0.0	333.8	0.09	30.042	13571.4	183.1	1409.9	12161.5	7333.38	3611.96
70	3500.0	0.77	27.3	7333.4		0.0	333.8	0.09	30.042	8174.6	183.1	1409.9	6764.7	4079.11	2009.11
71	3550.0	0.77	28.07	4079.1		0.0	333.8	0.09	30.042	4920.3	183.1	1409.9	3510.4	1881.58	926.75
72	3600.0	0.77	28.84	14699.5	12817.9		333.8	0.09	30.042	15540.7	183.1	1409.9			

Tableau A-2.2.2.1(3) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs riziocoles (Mars)

Mar. Water Re= 24.10 mm/day

NO.	Distance (m)	① Paddy Area (ha)	② Cumulative Area (ha)	W.S./initial, return (m3/mon)	③ Intake quantity (m3/mon.)	④ Supplemental supply (m3/mon)	⑤ Specific discharge (m3/km2)	⑥ catchment area (km2)	⑦=⑤×⑥ Flow-in volume (m3/day)	⑧=(②+⑦)×31 Irrigation water (m3/mon)	⑨ ETc (mm/mon)	⑩=①×⑨×10000/1000 Water loss (m3/mon)	⑪=⑧-⑩ Residual water (m3/mon.)	⑫=⑪×0.67×(1.0~0.8) Horizontal leakage (m3/mon.)	⑬=⑪×0.33×(1.0~0.8) Return to the river (m3/mon.)
1	50.0	0.18	0.18	1344.6			304.4	0.085	25.874	2146.7	170.4	306.7	1840.0	1232.78	607.19
2	100.0	0.18	0.36	2689.2	607.2	849.2	304.4	0.085	25.874	4340.5	170.4	306.7	4033.8	2702.65	1331.15
3	150.0	0.18	0.54	2702.6		0.0	304.4	0.085	25.874	3504.7	170.4	306.7	3198.0	2142.67	1055.35
4	200.0	0.18	0.72	5378.4	2386.5	849.2	304.4	0.085	25.874	6180.5	170.4	306.7	5873.8	3935.43	1938.35
5	250.0	0.18	0.9	3935.4		0.0	304.4	0.085	25.874	4737.5	170.4	306.7	4430.8	2968.64	1462.16
6	300.0	0.18	1.08	2968.6		0.0	304.4	0.085	25.874	3770.7	170.4	306.7	3464.0	2320.89	1143.12
7	350.0	0.18	1.26	2320.9		0.0	304.4	0.085	25.874	3123.0	170.4	306.7	2816.3	1886.90	929.37
8	400.0	0.18	1.44	7359.9	5473.0	0.0	304.4	0.085	25.874	8162.0	170.4	306.7	7855.3	5263.03	2592.24
9	450.0	0.18	1.62	5263.0		0.0	304.4	0.085	25.874	6065.1	170.4	306.7	5758.4	3858.13	1900.27
10	500.0	0.18	1.8	3858.1		0.0	304.4	0.085	25.874	4660.2	170.4	306.7	4353.5	2916.85	1436.66
11	550.0	0.18	1.98	2916.8		0.0	304.4	0.085	25.874	3718.9	170.4	306.7	3412.2	2286.19	1126.03
12	600.0	0.18	2.16	9341.4	7055.2	0.0	304.4	0.085	25.874	10143.5	170.4	306.7	9836.8	6590.63	3246.13
13	650.0	0.18	2.34	6590.6		0.0	304.4	0.085	25.874	7392.7	170.4	306.7	7086.0	4747.62	2338.38
14	700.0	0.18	2.52	4747.6		0.0	304.4	0.085	25.874	5549.7	170.4	306.7	5243.0	3512.81	1730.19
15	750.0	0.18	2.7	3512.8		0.0	304.4	0.085	25.874	4314.9	170.4	306.7	4008.2	2685.48	1322.70
16	800.0	0.18	2.88	11322.9	8637.4	0.0	304.4	0.085	25.874	12125.0	170.4	306.7	11818.3	7918.24	3900.03
17	850.0	0.18	3.06	7918.2		0.0	304.4	0.085	25.874	8720.3	170.4	306.7	8413.6	5637.12	2776.49
18	900.0	0.18	3.24	5637.1		0.0	304.4	0.085	25.874	6439.2	170.4	306.7	6132.5	4108.77	2023.72
19	950.0	0.18	3.42	4108.8		0.0	304.4	0.085	25.874	4910.9	170.4	306.7	4604.1	3084.78	1519.37
20	1000.0	0.18	3.6	13304.4	10219.6	0.0	304.4	0.085	25.874	14106.5	170.4	306.7	13799.8	9245.84	4553.92
21	1050.0	0.335	3.935	9245.8		0.0	304.4	0.1	30.44	10189.5	170.4	570.8	9618.6	6444.49	3174.15
22	1100.0	0.335	4.27	6444.5		0.0	304.4	0.1	30.44	7388.1	170.4	570.8	6817.3	4567.58	2249.70
23	1150.0	0.335	4.605	4567.6		0.0	304.4	0.1	30.44	5511.2	170.4	570.8	4940.4	3310.06	1630.33
24	1200.0	0.335	4.94	14918.2	11608.1	0.0	304.4	0.1	30.44	15861.8	170.4	570.8	15291.0	10244.94	5046.02
25	1250.0	0.335	5.275	10244.9		0.0	304.4	0.1	30.44	11188.6	170.4	570.8	10617.7	7113.89	3503.85
26	1300.0	0.335	5.61	7113.9		0.0	304.4	0.1	30.44	8057.5	170.4	570.8	7486.7	5016.08	2470.61
27	1350.0	0.335	5.945	5016.1		0.0	304.4	0.1	30.44	5959.7	170.4	570.8	5388.9	3610.55	1778.33
28	1400.0	0.335	6.28	16409.4	12798.8	0.0	304.4	0.1	30.44	17353.0	170.4	570.8	16782.2	11244.05	5538.11
29	1450.0	0.335	6.615	11244.0		0.0	304.4	0.1	30.44	12187.7	170.4	570.8	11616.8	7783.29	3833.56
30	1500.0	0.335	6.95	7783.3		0.0	304.4	0.1	30.44	8726.9	170.4	570.8	8156.1	5464.58	2691.51
31	1550.0	0.335	7.285	5464.6		0.0	304.4	0.1	30.44	6408.2	170.4	570.8	5837.4	3911.04	1926.33
32	1600.0	0.335	7.62	17900.6	13989.5	0.0	304.4	0.1	30.44	18844.2	170.4	570.8	18273.4	12243.15	6030.21
33	1650.0	0.335	7.955	12243.1		0.0	304.4	0.1	30.44	13186.8	170.4	570.8	12615.9	8452.69	4163.26
34	1700.0	0.335	8.29	8452.7		0.0	304.4	0.1	30.44	9396.3	170.4	570.8	8825.5	5913.08	2912.41
35	1750.0	0.335	8.625	5913.1		0.0	304.4	0.1	30.44	6856.7	170.4	570.8	6285.9	4211.54	2074.34
36	1800.0	0.335	8.96	19391.8	15180.2	0.0	304.4	0.1	30.44	20335.4	170.4	570.8	19764.6	13242.25	6522.30
37	1850.0	0.335	9.295	13242.3		0.0	304.4	0.1	30.44	14185.9	170.4	570.8	13615.1	9122.09	4492.97
38	1900.0	0.335	9.63	9122.1		0.0	304.4	0.1	30.44	10065.7	170.4	570.8	9494.9	6361.57	3133.31
39	1950.0	0.335	9.965	6361.6		0.0	304.4	0.1	30.44	7305.2	170.4	570.8	6734.4	4512.03	2222.34
40	2000.0	0.335	10.3	20883.0	16370.9	0.0	304.4	0.1	30.44	21826.6	170.4	570.8	21255.8	14241.36	7014.40
41	2050.0	0.465	10.765	14241.4		0.0	304.4	0.185	56.314	15987.1	170.4	792.4	15194.7	10180.47	5014.26
42	2100.0	0.465	11.23	10180.5		0.0	304.4	0.185	56.314	11926.2	170.4	792.4	11133.8	7459.68	3674.17
43	2150.0	0.465	11.695	7459.7		0.0	304.4	0.185	56.314	9205.4	170.4	792.4	8413.0	5636.74	2776.31
44	2200.0	0.465	12.16	24115.9	18479.1	0.0	304.4	0.185	56.314	25861.6	170.4	792.4	25069.3	16796.40	8272.85
45	2250.0	0.465	12.625	16796.4		0.0	304.4	0.185	56.314	18542.1	170.4	792.4	17749.8	11892.35	5857.43
46	2300.0	0.465	13.09	11892.3		0.0	304.4	0.185	56.314	13638.1	170.4	792.4	12845.7	8606.63	4239.09
47	2350.0	0.465	13.555	8606.6		0.0	304.4	0.185	56.314	10352.4	170.4	792.4	9560.0	6405.21	3154.80
48	2400.0	0.465	14.02	27929.4	21524.2	0.0	304.4	0.185	56.314	29675.1	170.4	792.4	28882.8	19351.44	9531.31
49	2450.0	0.465	14.485	19351.4		0.0	304.4	0.185	56.314	21097.2	170.4	792.4	20304.8	13604.23	6700.59
50	2500.0	0.465	14.95	13604.2		0.0	304.4	0.185	56.314	15350.0	170.4	792.4	14557.6	8778.23	4323.61
51	2550.0	0.465	15.415	8778.2		0.0	304.4	0.185	56.314	10524.0	170.4	792.4	9731.6	5868.16	2890.29
52	2600.0	0.465	15.88	29314.0	23445.8	0.0	304.4	0.185	56.314	31059.7	170.4	792.4	30267.3	18251.20	8989.40
53	2650.0	0.465	16.345	18251.2		0.0	304.4	0.185	56.314	19996.9	170.4	792.4	19204.6	11580.36	5703.76
54	2700.0	0.465	16.81	11580.4		0.0	304.4	0.185	56.314	13326.1	170.4	792.4	12533.7	7557.84	3722.52
55	2750.0	0.465	17.275	7557.8		0.0	304.4	0.185	56.314	9303.6	170.4	792.4	8511.2	5132.26	2527.83
56	2800.0	0.465	17.74	26075.8	20943.5	0.0	304.4	0.185	56.314	27821.5	170.4	792.4	27029.1	16298.57	8027.65
57	2850.0	0.465	18.205	16298.6		0.0	304.4	0.185	56.314	18044.3	170.4	792.4	17251.9	10402.92	5123.83
58	2900.0	0.465	18.67	10402.9		0.0	304.4	0.185	56.314	12148.7	170.4	792.4	11356.3	6847.85	3372.82
59	2950.0	0.465	19.135	6847.8		0.0	304.4	0.185	56.314	8593.6	170.4	792.4	7801.2	4704.14	2316.96
60	3000.0	0.465	19.6	23543.4	18841.3	0.0	304.4	0.185	56.314	25291.1	170.4	792.4	24498.8	14772.76	7276.14
61	3050.0	0.77	20.37	14772.8		0.0	304.4	0.09	27.396	15622.0	170.4	1312.1	14310.0	8628.90	4250.06
62	3100.0	0.77	21.14	8628.9		0.0	304.4	0.09	27.396	9478.2	170.4	1312.1	8166.1	4924.16	2425.33
63	3150.0	0.77	21.91	4924.2		0.0	304.4	0.09	27.396	5773.4	170.4	1312.1	4461.4	2690.20	1325.02
64	3200.0	0.77	22.68	23007.6	15276.5	5040.9	304.4	0.09	27.396	23856.9	170.4	1312.1	22544.8	13594.51	6695.80
65	3250.0	0.77	23.45	13594.5		0.0	304.4	0.09	27.396	14443.8	170.4	1312.1	13131.7	7918.42	3900.12
66	3300.0	0.77	24.22	7918.4		0.0	304.4	0.09	27.396	8767.7	170.4	1312.1	7455.6	4495.74	2214.32
67	3350.0	0.77	24.99	4495.7		0.0	304.4	0.09	27.396	5345.0	170.4	1312.1	4032.9	2431.86	1197.78
68	3400.0	0.77	25.76	23007.6	14008.0	6567.7	304.4	0.09	27.396	23856.9	170.4	1312.1	22544.8	13594.51	6695.80
69	3450.0	0.77	26.53	13594.5		0.0	304.4	0.09	27.396	14443.8	170.4	1312.1	13131.7	7918.42	3900.12
70	3500.0	0.77	27.3	7918.4		0.0	304.4	0.09	27.396	8767.7	170.4	1312.1	7455.6	4495.74	2214.32
71	3550.0	0.77	28.07	4495.7		0.0	304.4	0.09	27.396	5345.0	170.4	1312.1	4032.9	2161.65	1064.69
72	3600.0	0.77	28.84	16036.6	13874.9		304.4	0.09	27.396	16885.9	170.4	1312.1	15573.8	83	

Tableau A-2.2.2.1(4) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Avril)

Apr. Water Re= 19.02 mm/day		①	②	③	④	⑤	⑥	⑦=⑤×⑥	⑧=②+⑦×30	⑨	⑩=①×⑨×10000/1000	⑪=⑧-⑩	⑫=⑪×0.67×(1.0~0.8)	⑬=⑪×0.33×(1.0~0.8)	
NO.	Distance (m)	Paddy Area (ha)	Cumulative Area (ha)	W.S./initial, return (m3/mon.)	Intake quantity (m3/mon.)	Supplemental supply (m3/mon)	Specific discharge (m3/km2)	catchment area (km2)	Flow-in volume (m3/day)	Irrigation water (m3/mon)	ETc (mm/mon)	Water loss (m3/mon)	Residual water (m3/mon.)	Horizontal leakage (m3/mon.)	Return to the river (m3/mon.)
1	500	0.18	0.18	1061.5			441.8	0.085	37.553	2225.6	12.7	22.9	2202.8	1475.87	726.92
2	1000	0.18	0.36	2202.8	726.9	0.0	441.8	0.085	37.553	3366.9	12.7	22.9	3344.1	2240.53	1103.54
3	1500	0.18	0.54	2240.5		0.0	441.8	0.085	37.553	3404.7	12.7	22.9	3381.8	2265.81	1116.00
4	2000	0.18	0.72	4485.4	2219.5	0.0	441.8	0.085	37.553	5649.5	12.7	22.9	5626.6	3769.84	1856.79
5	2500	0.18	0.9	3769.8		0.0	441.8	0.085	37.553	4934.0	12.7	22.9	4911.1	3290.46	1620.67
6	3000	0.18	1.08	3290.5		0.0	441.8	0.085	37.553	4454.6	12.7	22.9	4431.7	2969.26	1462.47
7	3500	0.18	1.26	2969.3		0.0	441.8	0.085	37.553	4133.4	12.7	22.9	4110.5	2754.07	1356.48
8	4000	0.18	1.44	9050.5	6296.4	0.0	441.8	0.085	37.553	10214.6	12.7	22.9	10191.8	6828.48	3363.28
9	4500	0.18	1.62	6828.5		0.0	441.8	0.085	37.553	7992.6	12.7	22.9	7969.8	5339.74	2630.02
10	5000	0.18	1.8	5339.7		0.0	441.8	0.085	37.553	6503.9	12.7	22.9	6481.0	4342.29	2138.74
11	5500	0.18	1.98	4342.3		0.0	441.8	0.085	37.553	5506.4	12.7	22.9	5483.6	3673.99	1809.58
12	6000	0.18	2.16	13615.6	9941.6	0.0	441.8	0.085	37.553	14779.8	12.7	22.9	14756.9	9887.12	4869.78
13	6500	0.18	2.34	9887.1		0.0	441.8	0.085	37.553	11051.3	12.7	22.9	11028.4	7389.03	3639.37
14	7000	0.18	2.52	7389.0		0.0	441.8	0.085	37.553	8553.2	12.7	22.9	8530.3	5715.31	2815.00
15	7500	0.18	2.7	5715.3		0.0	441.8	0.085	37.553	6879.5	12.7	22.9	6856.6	4593.92	2262.68
16	8000	0.18	2.88	18180.7	13586.8	0.0	441.8	0.085	37.553	19344.9	12.7	22.9	19322.0	12945.76	6376.27
17	8500	0.18	3.06	12945.8		0.0	441.8	0.085	37.553	14109.9	12.7	22.9	14087.0	9438.32	4648.72
18	9000	0.18	3.24	9438.3		0.0	441.8	0.085	37.553	10602.5	12.7	22.9	10579.6	7088.33	3491.27
19	9500	0.18	3.42	7088.3		0.0	441.8	0.085	37.553	8252.5	12.7	22.9	8229.6	5513.84	2715.77
20	10000	0.18	3.6	22745.9	17232.0	0.0	441.8	0.085	37.553	23910.0	12.7	22.9	23887.2	16004.40	7882.76
21	10500	0.335	3.935	16004.4		0.0	441.8	0.1	44.18	17374.0	12.7	42.5	17331.4	11612.06	5719.37
22	11000	0.335	4.27	11612.1		0.0	441.8	0.1	44.18	12981.6	12.7	42.5	12939.1	8669.19	4269.90
23	11500	0.335	4.605	8669.2		0.0	441.8	0.1	44.18	10038.8	12.7	42.5	9996.2	6697.47	3298.76
24	12000	0.335	4.94	27868.3	21170.8	0.0	441.8	0.1	44.18	29237.8	12.7	42.5	29195.3	19560.85	9634.45
25	12500	0.335	5.275	19560.9		0.0	441.8	0.1	44.18	20930.4	12.7	42.5	20887.9	13994.88	6893.00
26	13000	0.335	5.61	13994.9		0.0	441.8	0.1	44.18	15364.5	12.7	42.5	15321.9	10265.69	5056.23
27	13500	0.335	5.945	10265.7		0.0	441.8	0.1	44.18	11635.3	12.7	42.5	11592.7	7767.12	3825.60
28	14000	0.335	6.28	33176.4	25409.3	0.0	441.8	0.1	44.18	34546.0	12.7	42.5	34503.4	23117.31	11386.14
29	14500	0.335	6.615	23117.3		0.0	441.8	0.1	44.18	24486.9	12.7	42.5	24444.3	16377.71	8066.63
30	15000	0.335	6.95	16377.7		0.0	441.8	0.1	44.18	17747.3	12.7	42.5	17704.7	11862.18	5842.57
31	15500	0.335	7.285	11862.2		0.0	441.8	0.1	44.18	13231.8	12.7	42.5	13189.2	8836.77	4352.44
32	16000	0.335	7.62	38484.5	29647.8	0.0	441.8	0.1	44.18	39854.1	12.7	42.5	39811.6	26673.76	13137.82
33	16500	0.335	7.955	26673.8		0.0	441.8	0.1	44.18	28043.3	12.7	42.5	28000.8	18760.53	9240.26
34	17000	0.335	8.29	18760.5		0.0	441.8	0.1	44.18	20130.1	12.7	42.5	20087.6	13458.67	6628.90
35	17500	0.335	8.625	13458.7		0.0	441.8	0.1	44.18	14828.3	12.7	42.5	14785.7	9806.42	4798.28
36	18000	0.335	8.96	43792.7	33886.3	0.0	441.8	0.1	44.18	45162.3	12.7	42.5	45119.7	30230.21	14889.51
37	18500	0.335	9.295	30230.2		0.0	441.8	0.1	44.18	31599.8	12.7	42.5	31557.2	21143.36	10413.89
38	19000	0.335	9.63	21143.4		0.0	441.8	0.1	44.18	22512.9	12.7	42.5	22470.4	15055.16	7415.23
39	19500	0.335	9.965	15055.2		0.0	441.8	0.1	44.18	16424.7	12.7	42.5	16382.2	10976.07	5406.13
40	20000	0.335	10.3	49100.8	38124.8	0.0	441.8	0.1	44.18	50470.4	12.7	42.5	50427.9	33786.67	16641.19
41	20500	0.465	10.765	33786.7		0.0	441.8	0.185	81.733	36320.4	12.7	59.1	36261.3	24295.09	11966.24
42	21000	0.465	11.23	24295.1		0.0	441.8	0.185	81.733	26828.8	12.7	59.1	26769.8	17935.74	8834.02
43	21500	0.465	11.695	17935.7		0.0	441.8	0.185	81.733	20469.5	12.7	59.1	20410.4	13674.97	6735.43
44	22000	0.465	12.16	57851.9	44176.9	0.0	441.8	0.185	81.733	60385.6	12.7	59.1	60326.5	40418.78	19907.76
45	22500	0.465	12.625	40418.8		0.0	441.8	0.185	81.733	42952.5	12.7	59.1	42893.4	28738.61	14154.84
46	23000	0.465	13.09	28738.6		0.0	441.8	0.185	81.733	31273.3	12.7	59.1	31213.3	20912.90	10300.38
47	23500	0.465	13.555	20912.9		0.0	441.8	0.185	81.733	23446.6	12.7	59.1	23387.6	15669.67	7717.90
48	24000	0.465	14.02	67750.5	52080.9	0.0	441.8	0.185	81.733	70284.3	12.7	59.1	70225.2	47050.89	23174.32
49	24500	0.465	14.485	47050.9		0.0	441.8	0.185	81.733	49584.6	12.7	59.1	49525.6	33182.12	16343.43
50	25000	0.465	14.95	33182.1		0.0	441.8	0.185	81.733	35715.8	12.7	59.1	35656.8	23890.05	11766.74
51	25500	0.465	15.415	23890.0		0.0	441.8	0.185	81.733	26423.8	12.7	59.1	26364.7	15897.92	7830.32
52	26000	0.465	15.88	75012.7	59114.8	0.0	441.8	0.185	81.733	77546.5	12.7	59.1	77487.4	46724.91	23013.76
53	26500	0.465	16.345	46724.9		0.0	441.8	0.185	81.733	49258.6	12.7	59.1	49199.6	29667.34	14612.27
54	27000	0.465	16.81	29667.3		0.0	441.8	0.185	81.733	32201.1	12.7	59.1	32142.0	19381.63	9546.18
55	27500	0.465	17.275	19381.6		0.0	441.8	0.185	81.733	21915.4	12.7	59.1	21856.3	13179.35	6491.32
56	28000	0.465	17.74	66842.9	53663.5	0.0	441.8	0.185	81.733	69376.6	12.7	59.1	69317.5	41798.48	20587.31
57	28500	0.465	18.205	41798.5		0.0	441.8	0.185	81.733	44332.2	12.7	59.1	44273.2	26696.71	13149.13
58	29000	0.465	18.67	26696.7		0.0	441.8	0.185	81.733	29230.4	12.7	59.1	29171.4	17590.34	8663.90
59	29500	0.465	19.135	17590.3		0.0	441.8	0.185	81.733	20124.1	12.7	59.1	20065.0	12099.20	5959.31
60	30000	0.465	19.6	60458.8	48359.6	0.0	441.8	0.185	81.733	62992.6	12.7	59.1	62933.5	37948.91	18691.25
61	30500	0.77	20.37	37948.9		0.0	441.8	0.09	39.762	39181.5	12.7	97.8	39083.7	23567.50	11607.87
62	31000	0.77	21.14	23567.5		0.0	441.8	0.09	39.762	24800.1	12.7	97.8	24702.3	14895.50	7336.59
63	31500	0.77	21.91	14895.5		0.0	441.8	0.09	39.762	16128.1	12.7	97.8	16030.3	9666.29	4761.01
64	32000	0.77	22.68	52063.0	42396.7	0.0	441.8	0.09	39.762	53295.6	12.7	97.8	53197.8	32078.30	15799.76
65	32500	0.77	23.45	32078.3		0.0	441.8	0.09	39.762	33310.9	12.7	97.8	33213.1	20027.52	9864.30
66	33000	0.77	24.22	20027.5		0.0	441.8	0.09	39.762	21260.1	12.7	97.8	21162.4	12760.90	6285.22
67	33500	0.77	24.99	12760.9		0.0	441.8	0.09	39.762	13993.5	12.7	97.8	13895.7	8379.13	4127.03
68	34000	0.77	25.76	44455.4	36076.3	0.0	441.8	0.09	39.762	45688.1	12.7	97.8	45590.3	27490.93	13540.31
69	34500	0.77	26.53	27490.9		0.0	441.8	0.09	39.762	28723.6	12.7	97.8	28625.8	17261.34	8501.85
70	35000	0.77	27.3	17261.3		0.0	441.8	0.09	39.762	18494.0	12.7	97.8	18396.2	11092.89	5463.66
71	35500	0.77	28.07	11092.9		0.0	441.8	0.09	39.762	12325.5	12.7	97.8	12227.7	6554.06	3228.12
72	36000	0.77	28.84	37288.0	30733.9	0.0	441.8	0.09	39.762	38520.6	12.7	97.8	38422.8	20594.64	10143.63
73	365														

Tableau A-2.2.1(5) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Mai)

May Water Re= 19.31 mm/day

NO.	Distance (m)	① Paddy Area (ha)	② Cumulative Area (ha)	W.S./initial, return (m3/mon)	③ Intake quantity (m3/mon.)	④ Supplemental supply (m3/mon)	⑤ Specific discharge (m3/km2)	⑥ catchment area (km2)	⑦-⑤×⑥ Flow-in volume (m3/day)	⑧=②+⑦×31 Irrigation water (m3/mon)	⑨ ETc (mm/mon)	⑩=①×⑨×10000/1000 Water loss (m3/mon)	⑪=⑧-⑩ Residual water (m3/mon.)	⑫=⑪×0.67×(1.0~0.8) Horizontal leakage (m3/mon.)	⑬=⑪×0.33×(1.0~0.8) Return to the river (m3/mon.)
1	50.0	0.18	0.18	1077.5			657.8	0.085	55.913	2810.8	22.0	39.6	2771.2	1856.69	914.49
2	100.0	0.18	0.36	2771.2	914.5	0.0	657.8	0.085	55.913	4504.5	22.0	39.6	4464.9	2991.47	1473.41
3	150.0	0.18	0.54	2991.5		0.0	657.8	0.085	55.913	4724.8	22.0	39.6	4685.2	3139.07	1546.11
4	200.0	0.18	0.72	6158.6	3019.5	0.0	657.8	0.085	55.913	7891.9	22.0	39.6	7852.3	5261.04	2591.26
5	250.0	0.18	0.9	5261.0		0.0	657.8	0.085	55.913	6994.3	22.0	39.6	6954.7	4659.67	2295.06
6	300.0	0.18	1.08	4659.7		0.0	657.8	0.085	55.913	6393.0	22.0	39.6	6353.4	4256.76	2096.61
7	350.0	0.18	1.26	4256.8		0.0	657.8	0.085	55.913	5990.1	22.0	39.6	5950.5	3986.81	1963.65
8	400.0	0.18	1.44	12933.4	8946.6	0.0	657.8	0.085	55.913	14666.7	22.0	39.6	14627.1	9800.16	4826.94
9	450.0	0.18	1.62	9800.2		0.0	657.8	0.085	55.913	11533.5	22.0	39.6	11493.9	7700.89	3792.97
10	500.0	0.18	1.8	7700.9		0.0	657.8	0.085	55.913	9434.2	22.0	39.6	9394.6	6294.38	3100.22
11	550.0	0.18	1.98	6294.4		0.0	657.8	0.085	55.913	8027.7	22.0	39.6	7988.1	5352.01	2636.07
12	600.0	0.18	2.16	19708.2	14356.2	0.0	657.8	0.085	55.913	21441.5	22.0	39.6	21401.9	14339.28	7062.63
13	650.0	0.18	2.34	14339.3		0.0	657.8	0.085	55.913	16072.6	22.0	39.6	16033.0	10742.10	5290.89
14	700.0	0.18	2.52	10742.1		0.0	657.8	0.085	55.913	12475.4	22.0	39.6	12435.8	8331.99	4103.82
15	750.0	0.18	2.7	8332.0		0.0	657.8	0.085	55.913	10065.3	22.0	39.6	10025.7	6717.21	3308.48
16	800.0	0.18	2.88	26483.0	19765.8	0.0	657.8	0.085	55.913	28216.3	22.0	39.6	28176.7	18878.41	9298.32
17	850.0	0.18	3.06	18878.4		0.0	657.8	0.085	55.913	20611.7	22.0	39.6	20572.1	13783.31	6788.80
18	900.0	0.18	3.24	13783.3		0.0	657.8	0.085	55.913	15516.6	22.0	39.6	15477.0	10369.60	5107.42
19	950.0	0.18	3.42	10369.6		0.0	657.8	0.085	55.913	12102.9	22.0	39.6	12063.3	8082.41	3980.89
20	1000.0	0.18	3.6	33257.8	25175.4	0.0	657.8	0.085	55.913	34991.1	22.0	39.6	34951.5	23417.53	11534.01
21	1050.0	0.335	3.935	23417.5		0.0	657.8	0.1	65.78	25456.7	22.0	73.7	25383.0	17006.62	8376.39
22	1100.0	0.335	4.27	17006.6		0.0	657.8	0.1	65.78	19045.8	22.0	73.7	18972.1	12711.31	6260.79
23	1150.0	0.335	4.605	12711.3		0.0	657.8	0.1	65.78	14750.5	22.0	73.7	14676.8	9833.45	4843.34
24	1200.0	0.335	4.94	40848.0	31014.5	0.0	657.8	0.1	65.78	42887.2	22.0	73.7	42813.5	28685.02	14128.44
25	1250.0	0.335	5.275	28685.0		0.0	657.8	0.1	65.78	30724.2	22.0	73.7	30650.5	20535.83	10116.66
26	1300.0	0.335	5.61	20535.8		0.0	657.8	0.1	65.78	22575.0	22.0	73.7	22501.3	15075.88	7425.43
27	1350.0	0.335	5.945	15075.9		0.0	657.8	0.1	65.78	17115.1	22.0	73.7	17041.4	11417.71	5623.65
28	1400.0	0.335	6.28	48709.9	37292.2	0.0	657.8	0.1	65.78	50749.1	22.0	73.7	50675.4	33952.50	16722.88
29	1450.0	0.335	6.615	33952.5		0.0	657.8	0.1	65.78	35991.7	22.0	73.7	35918.0	24065.05	11852.93
30	1500.0	0.335	6.95	24065.0		0.0	657.8	0.1	65.78	26104.2	22.0	73.7	26030.5	17440.45	8590.07
31	1550.0	0.335	7.285	17440.5		0.0	657.8	0.1	65.78	19479.6	22.0	73.7	19405.9	13001.98	6403.96
32	1600.0	0.335	7.62	56571.8	43569.8	0.0	657.8	0.1	65.78	58611.0	22.0	73.7	58537.3	39219.99	19317.31
33	1650.0	0.335	7.955	39220.0		0.0	657.8	0.1	65.78	41259.2	22.0	73.7	41185.5	27594.27	13591.21
34	1700.0	0.335	8.29	27594.3		0.0	657.8	0.1	65.78	29633.4	22.0	73.7	29559.7	19805.03	9754.72
35	1750.0	0.335	8.625	19805.0		0.0	657.8	0.1	65.78	21844.2	22.0	73.7	21770.5	14586.24	7184.27
36	1800.0	0.335	8.96	84433.7	49847.5	0.0	657.8	0.1	65.78	66472.9	22.0	73.7	66399.2	44487.48	21911.74
37	1850.0	0.335	9.295	44487.5		0.0	657.8	0.1	65.78	46526.7	22.0	73.7	46453.0	31123.48	15329.48
38	1900.0	0.335	9.63	31123.5		0.0	657.8	0.1	65.78	33162.7	22.0	73.7	33089.0	22169.60	10919.36
39	1950.0	0.335	9.965	22169.6		0.0	657.8	0.1	65.78	24208.8	22.0	73.7	24135.1	16170.51	7964.58
40	2000.0	0.335	10.3	72295.7	56125.2	0.0	657.8	0.1	65.78	74334.8	22.0	73.7	74261.1	49754.96	24506.18
41	2050.0	0.465	10.765	49755.0		0.0	657.8	0.185	121.693	53527.4	22.0	102.3	53425.1	35794.85	17630.30
42	2100.0	0.465	11.23	35794.8		0.0	657.8	0.185	121.693	39567.3	22.0	102.3	39465.0	26441.57	13023.46
43	2150.0	0.465	11.695	26441.6		0.0	657.8	0.185	121.693	30214.1	22.0	102.3	30111.8	20174.88	9936.88
44	2200.0	0.465	12.16	85271.7	65096.8	0.0	657.8	0.185	121.693	89044.2	22.0	102.3	88941.9	59591.05	29350.82
45	2250.0	0.465	12.625	59591.1		0.0	657.8	0.185	121.693	63363.5	22.0	102.3	63261.2	42385.03	20876.21
46	2300.0	0.465	13.09	42385.0		0.0	657.8	0.185	121.693	46157.5	22.0	102.3	46055.2	30856.99	15198.22
47	2350.0	0.465	13.555	30857.0		0.0	657.8	0.185	121.693	34629.5	22.0	102.3	34527.2	23133.21	11393.97
48	2400.0	0.465	14.02	99952.4	76819.2	0.0	657.8	0.185	121.693	103724.9	22.0	102.3	103622.6	69427.14	34195.46
49	2450.0	0.465	14.485	69427.1		0.0	657.8	0.185	121.693	73199.6	22.0	102.3	73097.3	48975.21	24122.12
50	2500.0	0.465	14.95	48975.2		0.0	657.8	0.185	121.693	52747.7	22.0	102.3	52645.4	35272.41	17372.98
51	2550.0	0.465	15.415	35272.4		0.0	657.8	0.185	121.693	39044.9	22.0	102.3	38942.6	23482.39	11565.95
52	2600.0	0.465	15.88	110738.9	87256.5	0.0	657.8	0.185	121.693	114511.4	22.0	102.3	114409.1	68986.67	33979.50
53	2650.0	0.465	16.345	88988.7		0.0	657.8	0.185	121.693	72761.2	22.0	102.3	72658.9	43813.29	21579.68
54	2700.0	0.465	16.81	43813.3		0.0	657.8	0.185	121.693	47588.8	22.0	102.3	47483.5	28632.53	14102.59
55	2750.0	0.465	17.275	28632.5		0.0	657.8	0.185	121.693	32405.0	22.0	102.3	32302.7	19478.54	9593.91
56	2800.0	0.465	17.74	98734.2	79255.7	0.0	657.8	0.185	121.693	102506.7	22.0	102.3	102404.4	61749.85	30414.11
57	2850.0	0.465	18.205	61749.9		0.0	657.8	0.185	121.693	65522.3	22.0	102.3	65420.0	39448.28	19429.75
58	2900.0	0.465	18.67	39448.3		0.0	657.8	0.185	121.693	43220.8	22.0	102.3	43118.5	28000.43	12806.18
59	2950.0	0.465	19.135	26000.4		0.0	657.8	0.185	121.693	29772.9	22.0	102.3	29670.6	17891.38	8812.17
60	3000.0	0.465	19.6	89353.6	71462.2	0.0	657.8	0.185	121.693	93126.1	22.0	102.3	93023.8	56093.34	27628.06
61	3050.0	0.77	20.37	56093.3		0.0	657.8	0.09	59.202	57928.6	22.0	169.4	57759.2	34828.80	17154.48
62	3100.0	0.77	21.14	34828.8		0.0	657.8	0.09	59.202	36664.1	22.0	169.4	36494.7	22006.28	10838.91
63	3150.0	0.77	21.91	22006.3		0.0	657.8	0.09	59.202	23841.5	22.0	169.4	23672.1	14274.30	7030.63
64	3200.0	0.77	22.68	76926.4	62652.1	0.0	657.8	0.09	59.202	78761.6	22.0	169.4	78592.2	47391.13	23341.90
65	3250.0	0.77	23.45	47391.1		0.0	657.8	0.09	59.202	49226.4	22.0	169.4	49057.0	29581.36	14569.93
66	3300.0	0.77	24.22	29581.4		0.0	657.8	0.09	59.202	31416.6	22.0	169.4	31247.2	18842.08	9280.43
67	3350.0	0.77	24.99	18842.1		0.0	657.8	0.09	59.202	20677.3	22.0	169.4	20507.9	12366.29	6090.86
68	3400.0	0.77	25.76	65649.4	53283.1	0.0	657.8	0.09	59.202	67484.7	22.0	169.4	67315.3	40591.10	19992.63
69	3450.0	0.77	26.53	40591.1		0.0	657.8	0.09	59.202	44264.4	22.0	169.4	44257.0	25480.95	12550.32
70	3500.0	0.77	27.3	25480.9		0.0	657.8	0.09	59.202	27316.2	22.0	169.4	27146.8	16369.53	8062.60
71	3550.0	0.77	28.07	16369.5		0.0	657.8	0.09	59.202	18204.8	22.0	169.4	18035.4	9666.97	4761.34
72	3600.0	0.77	28.84	55033.9	45366.9	0.0	657.8	0.09	59.202	5686					

Tableau A-2.2.1(6) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Juin)

June Water Re= 20.08 mm/day		①	②	③	④	⑤	⑥	⑦=⑤×⑥	⑧=②+⑦×30	⑨	⑩=①×⑨×10000/10000	⑪=⑧-⑩	⑫=⑪×0.67×(1.0~0.8)	⑬=⑪×0.33×(1.0~0.8)	
NO.	Distance (m)	Paddy Area (ha)	Cumulative Area (ha)	W.S./initial, return (m3/mon)	Intake quantity (m3/mon.)	Supplemental supply (m3/mon)	Specific discharge (m3/km2)	catchment area (km2)	Flow-in volume (m3/day)	Irrigation water (m3/mon)	ETc (mm/mon)	Water loss (m3/mon)	Residual water (m3/mon.)	Horizontal leakage (m3/mon.)	Return to the river (m3/mon.)
1	50.0	0.18	0.18	1120.5			373.1	0.085	31.7135	2103.6	44.4	79.9	2023.7	1355.85	667.81
2	100.0	0.18	0.36	2240.9	667.8	217.3	373.1	0.085	31.7135	3441.3	44.4	79.9	3361.4	2252.13	1109.26
3	150.0	0.18	0.54	2252.1		0.0	373.1	0.085	31.7135	3235.3	44.4	79.9	3155.3	2114.07	1041.26
4	200.0	0.18	0.72	4337.3	2150.5	72.7	373.1	0.085	31.7135	5320.4	44.4	79.9	5240.5	3511.12	1729.36
5	250.0	0.18	0.9	3511.1		0.0	373.1	0.085	31.7135	4494.2	44.4	79.9	4414.3	2957.59	1456.73
6	300.0	0.18	1.08	2957.6		0.0	373.1	0.085	31.7135	3940.7	44.4	79.9	3860.8	2586.73	1274.06
7	350.0	0.18	1.26	2586.7		0.0	373.1	0.085	31.7135	3569.8	44.4	79.9	3489.9	2338.25	1151.68
8	400.0	0.18	1.44	7950.1	5611.8		373.1	0.085	31.7135	8933.2	44.4	79.9	8853.3	5931.69	2921.58
9	450.0	0.18	1.62	5931.7		0.0	373.1	0.085	31.7135	6914.8	44.4	79.9	6834.9	4579.38	2255.51
10	500.0	0.18	1.8	4579.4		0.0	373.1	0.085	31.7135	5562.5	44.4	79.9	5482.6	3673.33	1809.25
11	550.0	0.18	1.98	3673.3		0.0	373.1	0.085	31.7135	4656.4	44.4	79.9	4576.5	3066.27	1510.25
12	600.0	0.18	2.16	11562.9	8496.6		373.1	0.085	31.7135	12546.0	44.4	79.9	12466.1	8352.26	4113.80
13	650.0	0.18	2.34	8352.3		0.0	373.1	0.085	31.7135	9335.4	44.4	79.9	9255.5	6201.16	3054.30
14	700.0	0.18	2.52	6201.2		0.0	373.1	0.085	31.7135	7184.3	44.4	79.9	7104.4	4759.92	2344.44
15	750.0	0.18	2.7	4759.9		0.0	373.1	0.085	31.7135	5743.0	44.4	79.9	5663.1	3794.29	1868.83
16	800.0	0.18	2.88	15175.7	11381.4		373.1	0.085	31.7135	16158.8	44.4	79.9	16078.9	10772.84	5306.02
17	850.0	0.18	3.06	10772.8		0.0	373.1	0.085	31.7135	11756.0	44.4	79.9	11676.0	7822.94	3853.09
18	900.0	0.18	3.24	7822.9		0.0	373.1	0.085	31.7135	8806.1	44.4	79.9	8726.1	5846.52	2879.63
19	950.0	0.18	3.42	5846.5		0.0	373.1	0.085	31.7135	6829.6	44.4	79.9	6749.7	4522.31	2227.41
20	1000.0	0.18	3.6	18788.5	14266.1		373.1	0.085	31.7135	19771.6	44.4	79.9	19691.7	13193.41	6498.25
21	1050.0	0.335	3.935	13193.4		0.0	373.1	0.1	37.31	14350.0	44.4	148.7	14201.3	9514.86	4686.42
22	1100.0	0.335	4.27	9514.9		0.0	373.1	0.1	37.31	10671.5	44.4	148.7	10522.7	7050.23	3472.50
23	1150.0	0.335	4.605	7050.2		0.0	373.1	0.1	37.31	8206.8	44.4	148.7	8058.1	5398.92	2659.17
24	1200.0	0.335	4.94	22715.3	17316.3		373.1	0.1	37.31	23871.9	44.4	148.7	23723.1	15894.50	7828.63
25	1250.0	0.335	5.275	15894.5		0.0	373.1	0.1	37.31	17051.1	44.4	148.7	16902.4	11324.59	5577.78
26	1300.0	0.335	5.61	11324.6		0.0	373.1	0.1	37.31	12481.2	44.4	148.7	12332.5	8262.75	4069.71
27	1350.0	0.335	5.945	8262.7		0.0	373.1	0.1	37.31	9419.4	44.4	148.7	9270.6	6211.31	3059.30
28	1400.0	0.335	6.28	26746.7	20535.4		373.1	0.1	37.31	27903.4	44.4	148.7	27754.6	18595.59	9159.02
29	1450.0	0.335	6.615	18595.6		0.0	373.1	0.1	37.31	19752.2	44.4	148.7	19603.5	13134.32	6469.14
30	1500.0	0.335	6.95	13134.3		0.0	373.1	0.1	37.31	14290.9	44.4	148.7	14142.2	9475.27	4666.92
31	1550.0	0.335	7.285	9475.3		0.0	373.1	0.1	37.31	10631.9	44.4	148.7	10483.1	7023.70	3459.44
32	1600.0	0.335	7.62	30778.2	23754.5		373.1	0.1	37.31	31934.8	44.4	148.7	31786.1	21296.68	10489.41
33	1650.0	0.335	7.955	21296.7		0.0	373.1	0.1	37.31	22453.3	44.4	148.7	22304.6	14944.05	7360.50
34	1700.0	0.335	8.29	14944.1		0.0	373.1	0.1	37.31	16100.7	44.4	148.7	15951.9	10687.79	5264.13
35	1750.0	0.335	8.625	10687.8		0.0	373.1	0.1	37.31	11844.4	44.4	148.7	11695.7	7836.09	3859.57
36	1800.0	0.335	8.96	34809.7	26973.6		373.1	0.1	37.31	35966.3	44.4	148.7	35817.6	23997.77	11819.80
37	1850.0	0.335	9.295	23997.8		0.0	373.1	0.1	37.31	25154.4	44.4	148.7	25005.6	16753.78	8251.86
38	1900.0	0.335	9.63	16753.8		0.0	373.1	0.1	37.31	17910.4	44.4	148.7	17761.7	11900.31	5861.35
39	1950.0	0.335	9.965	11900.3		0.0	373.1	0.1	37.31	13056.9	44.4	148.7	12908.2	8648.48	4259.70
40	2000.0	0.335	10.3	38841.2	30192.7		373.1	0.1	37.31	39997.8	44.4	148.7	39849.1	26698.87	13150.19
41	2050.0	0.465	10.765	26698.9		0.0	373.1	0.185	69.0235	28838.6	44.4	206.5	28632.1	19183.53	9448.60
42	2100.0	0.465	11.23	19183.5		0.0	373.1	0.185	69.0235	21323.3	44.4	206.5	21116.8	14148.26	6968.54
43	2150.0	0.465	11.695	14148.3		0.0	373.1	0.185	69.0235	16288.0	44.4	206.5	16081.5	10774.62	5306.90
44	2200.0	0.465	12.16	45648.9	34874.2		373.1	0.185	69.0235	47788.6	44.4	206.5	47582.1	31880.03	15702.10
45	2250.0	0.465	12.625	31880.0		0.0	373.1	0.185	69.0235	34019.8	44.4	206.5	33813.3	22654.91	11158.39
46	2300.0	0.465	13.09	22654.9		0.0	373.1	0.185	69.0235	24794.6	44.4	206.5	24588.2	16474.08	8114.10
47	2350.0	0.465	13.555	16474.1		0.0	373.1	0.185	69.0235	18613.8	44.4	206.5	18407.3	12332.92	6074.42
48	2400.0	0.465	14.02	53381.9	41049.0		373.1	0.185	69.0235	55521.7	44.4	206.5	55315.2	37061.19	18254.02
49	2450.0	0.465	14.485	37061.2		0.0	373.1	0.185	69.0235	39200.9	44.4	206.5	38994.5	26126.28	12868.17
50	2500.0	0.465	14.95	26126.3		0.0	373.1	0.185	69.0235	28266.0	44.4	206.5	28059.6	18799.90	9259.65
51	2550.0	0.465	15.415	18799.9		0.0	373.1	0.185	69.0235	20939.6	44.4	206.5	20733.2	12502.10	6157.75
52	2600.0	0.465	15.88	59041.7	46539.6		373.1	0.185	69.0235	61181.4	44.4	206.5	60975.0	36767.90	18109.56
53	2650.0	0.465	16.345	36767.9		0.0	373.1	0.185	69.0235	38907.6	44.4	206.5	38701.2	23336.80	11494.25
54	2700.0	0.465	16.81	23336.8		0.0	373.1	0.185	69.0235	25476.5	44.4	206.5	25270.1	15237.85	7505.21
55	2750.0	0.465	17.275	15237.9		0.0	373.1	0.185	69.0235	17377.6	44.4	206.5	17171.1	10354.19	5099.82
56	2800.0	0.465	17.74	52563.0	42208.8		373.1	0.185	69.0235	54702.8	44.4	206.5	54496.3	32861.27	16185.40
57	2850.0	0.465	18.205	32861.3		0.0	373.1	0.185	69.0235	35001.0	44.4	206.5	34794.5	20981.11	10333.98
58	2900.0	0.465	18.67	20981.1		0.0	373.1	0.185	69.0235	23120.8	44.4	206.5	22914.4	13817.37	6805.57
59	2950.0	0.465	19.135	13817.4		0.0	373.1	0.185	69.0235	15957.1	44.4	206.5	15750.6	9497.63	4677.94
60	3000.0	0.465	19.6	47500.5	38002.9		373.1	0.185	69.0235	49640.3	44.4	206.5	49433.8	29808.58	14681.84
61	3050.0	0.77	20.37	29808.6		0.0	373.1	0.09	33.579	30849.5	44.4	341.9	30507.6	18396.11	9060.77
62	3100.0	0.77	21.14	18396.1		0.0	373.1	0.09	33.579	19437.1	44.4	341.9	19095.2	11514.39	5671.27
63	3150.0	0.77	21.91	11514.4		0.0	373.1	0.09	33.579	12555.3	44.4	341.9	12213.5	7364.72	3627.40
64	3200.0	0.77	22.68	40406.0	33041.3		373.1	0.09	33.579	41446.9	44.4	341.9	41105.1	24786.35	12208.20
65	3250.0	0.77	23.45	24786.4		0.0	373.1	0.09	33.579	25827.3	44.4	341.9	25485.4	15367.71	7699.17
66	3300.0	0.77	24.22	15367.7		0.0	373.1	0.09	33.579	16408.7	44.4	341.9	16066.8	9688.27	4771.83
67	3350.0	0.77	24.99	9688.3		0.0	373.1	0.09	33.579	10729.2	44.4	341.9	10387.3	6263.56	3085.04
68	3400.0	0.77	25.76	33897.8	27634.2		373.1	0.09	33.579	34938.8	44.4	341.9	34596.9	20861.92	10275.27
69	3450.0	0.77	26.53	20861.9		0.0	373.1	0.09	33.579	21902.9	44.4	341.9	21561.0	13001.27	6403.61
70	3500.0	0.77	27.3	13001.3		0.0	373.1	0.09	33.579	14042.2	44.4	341.9	13700.3	8261.31	4069.00
71	3550.0	0.77	28.07	8261.3		0.0	373.1	0.09	33.579	9302.3	44.4	341.9	8960.4	4802.76	2365.54
72	3600.0	0.77	28.84	27916.2	23113.4		373.1	0.09	33.579	28957.1	44.4	341.9	28615.		

Tableau A-2.2.1(7) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Juillet)

July Water Re= 20.85 mm/day															
NO.	Distance (m)	① Paddy Area (ha)	Cumulative Area (ha)	② W.S./initial, return (m3/mon)	③ Intake quantity (m3/mon.)	④ Supplemental supply (m3/mon)	⑤ Specific discharge (m3/km2)	⑥ catchment area (km2)	⑦=⑤×⑥ Flow-in volume (m3/day)	⑧=②+⑦×31 Irrigation water (m3/mon)	⑨ ETC (mm/mon)	⑩=①×⑨×10000/1000 Water loss (m3/mon)	⑪=⑧-⑩ Residual water (m3/mon.)	⑫=⑪×0.67×(1.0~0.8) Horizontal leakage (m3/mon.)	⑬=⑪×0.33×(1.0~0.8) Return to the river (m3/mon.)
1	50.0	0.18	0.18	1163.7			402.5	0.085	34.2125	2224.3	69.9	125.8	2098.5	1405.97	692.49
2	100.0	0.18	0.36	2327.4	692.5	228.9	402.5	0.085	34.2125	3616.9	69.9	125.8	3491.1	2339.04	1152.06
3	150.0	0.18	0.54	2339.0		0.0	402.5	0.085	34.2125	3399.6	69.9	125.8	3273.8	2193.45	1080.36
4	200.0	0.18	0.72	4654.8	2232.4	228.9	402.5	0.085	34.2125	5715.4	69.9	125.8	5589.6	3745.01	1844.56
5	250.0	0.18	0.9	3745.0		0.0	402.5	0.085	34.2125	4805.6	69.9	125.8	4679.8	3135.45	1544.33
6	300.0	0.18	1.08	3135.5		0.0	402.5	0.085	34.2125	4196.0	69.9	125.8	4070.2	2727.05	1343.17
7	350.0	0.18	1.26	2727.0		0.0	402.5	0.085	34.2125	3787.6	69.9	125.8	3661.8	2453.42	1208.40
8	400.0	0.18	1.44	8393.9	5940.5	0.0	402.5	0.085	34.2125	9454.5	69.9	125.8	9328.6	6250.19	3078.45
9	450.0	0.18	1.62	6250.2		0.0	402.5	0.085	34.2125	7310.8	69.9	125.8	7185.0	4813.92	2371.04
10	500.0	0.18	1.8	4813.9		0.0	402.5	0.085	34.2125	5874.5	69.9	125.8	5748.7	3851.62	1897.07
11	550.0	0.18	1.98	3851.6		0.0	402.5	0.085	34.2125	4912.2	69.9	125.8	4786.4	3206.88	1579.51
12	600.0	0.18	2.16	12132.9	8926.1	0.0	402.5	0.085	34.2125	13193.5	69.9	125.8	13067.7	8755.36	4312.34
13	650.0	0.18	2.34	8755.4		0.0	402.5	0.085	34.2125	9816.0	69.9	125.8	9690.1	6492.39	3197.74
14	700.0	0.18	2.52	6492.4		0.0	402.5	0.085	34.2125	7553.0	69.9	125.8	7427.2	4976.19	2450.96
15	750.0	0.18	2.7	4976.2		0.0	402.5	0.085	34.2125	6036.8	69.9	125.8	5911.0	3960.34	1950.62
16	800.0	0.18	2.88	15872.0	11911.7	0.0	402.5	0.085	34.2125	16932.6	69.9	125.8	16806.8	11260.54	5546.24
17	850.0	0.18	3.06	11260.5		0.0	402.5	0.085	34.2125	12321.1	69.9	125.8	12195.3	8170.86	4024.45
18	900.0	0.18	3.24	8170.9		0.0	402.5	0.085	34.2125	9231.4	69.9	125.8	9105.6	6100.77	3004.86
19	950.0	0.18	3.42	6100.8		0.0	402.5	0.085	34.2125	7161.4	69.9	125.8	7035.5	4713.81	2321.73
20	1000.0	0.18	3.6	19611.1	14897.3	0.0	402.5	0.085	34.2125	20671.7	69.9	125.8	20545.8	13765.72	6780.13
21	1050.0	0.335	3.935	13765.7		0.0	402.5	0.1	40.25	15013.5	69.9	234.2	14779.3	9902.13	4877.17
22	1100.0	0.335	4.27	9902.1		0.0	402.5	0.1	40.25	11149.9	69.9	234.2	10915.7	7313.53	3602.19
23	1150.0	0.335	4.605	7313.5		0.0	402.5	0.1	40.25	8561.3	69.9	234.2	8327.1	5579.17	2747.95
24	1200.0	0.335	4.94	23586.6	18007.4	0.0	402.5	0.1	40.25	24834.4	69.9	234.2	24600.2	16482.13	8118.06
25	1250.0	0.335	5.275	16482.1		0.0	402.5	0.1	40.25	17729.9	69.9	234.2	17495.7	11722.13	5773.58
26	1300.0	0.335	5.61	11722.1		0.0	402.5	0.1	40.25	12969.9	69.9	234.2	12735.7	8532.93	4202.78
27	1350.0	0.335	5.945	8532.9		0.0	402.5	0.1	40.25	9780.7	69.9	234.2	9546.5	6396.16	3150.35
28	1400.0	0.335	6.28	27640.9	21244.8	0.0	402.5	0.1	40.25	28888.7	69.9	234.2	28654.5	19198.53	9455.99
29	1450.0	0.335	6.615	19198.5		0.0	402.5	0.1	40.25	20446.3	69.9	234.2	20212.1	13542.12	6670.00
30	1500.0	0.335	6.95	13542.1		0.0	402.5	0.1	40.25	14789.9	69.9	234.2	14555.7	9752.32	4803.38
31	1550.0	0.335	7.285	9752.3		0.0	402.5	0.1	40.25	11000.1	69.9	234.2	10765.9	7213.16	3552.75
32	1600.0	0.335	7.62	31695.3	24482.1	0.0	402.5	0.1	40.25	32943.0	69.9	234.2	32708.9	21914.94	10793.93
33	1650.0	0.335	7.955	21914.9		0.0	402.5	0.1	40.25	23162.7	69.9	234.2	22928.5	15362.11	7566.41
34	1700.0	0.335	8.29	15362.1		0.0	402.5	0.1	40.25	16609.9	69.9	234.2	16375.7	10971.72	5403.98
35	1750.0	0.335	8.625	10971.7		0.0	402.5	0.1	40.25	12219.5	69.9	234.2	11985.3	8030.15	3955.15
36	1800.0	0.335	8.96	35749.6	27719.5	0.0	402.5	0.1	40.25	36997.4	69.9	234.2	36763.2	24631.35	12131.86
37	1850.0	0.335	9.295	24631.3		0.0	402.5	0.1	40.25	25879.1	69.9	234.2	25644.9	17182.11	8462.83
38	1900.0	0.335	9.63	17182.1		0.0	402.5	0.1	40.25	18429.9	69.9	234.2	18195.7	12191.11	6004.58
39	1950.0	0.335	9.965	12191.1		0.0	402.5	0.1	40.25	13438.9	69.9	234.2	13204.7	8847.15	4357.55
40	2000.0	0.335	10.3	39804.0	30956.8	0.0	402.5	0.1	40.25	41051.7	69.9	234.2	40817.5	27347.76	13469.79
41	2050.0	0.465	10.765	27347.8		0.0	402.5	0.185	74.4625	29656.1	69.9	325.0	29331.1	19651.81	9679.25
42	2100.0	0.465	11.23	19651.8		0.0	402.5	0.185	74.4625	21960.1	69.9	325.0	21635.1	14495.53	7139.59
43	2150.0	0.465	11.695	14495.5		0.0	402.5	0.185	74.4625	16803.9	69.9	325.0	16478.8	11040.81	5438.01
44	2200.0	0.465	12.16	46767.5	35726.6	0.0	402.5	0.185	74.4625	49075.8	69.9	325.0	48750.8	32663.01	16087.75
45	2250.0	0.465	12.625	32663.0		0.0	402.5	0.185	74.4625	34971.3	69.9	325.0	34646.3	23213.03	11433.28
46	2300.0	0.465	13.09	23213.0		0.0	402.5	0.185	74.4625	25521.4	69.9	325.0	25196.3	16881.54	8314.79
47	2350.0	0.465	13.555	16881.5		0.0	402.5	0.185	74.4625	19189.9	69.9	325.0	18864.8	12639.45	6225.40
48	2400.0	0.465	14.02	54700.7	42061.2	0.0	402.5	0.185	74.4625	57009.0	69.9	325.0	56684.0	37978.26	18705.71
49	2450.0	0.465	14.485	37978.3		0.0	402.5	0.185	74.4625	40286.6	69.9	325.0	39961.6	26774.25	13187.32
50	2500.0	0.465	14.95	26774.2		0.0	402.5	0.185	74.4625	29082.6	69.9	325.0	28757.5	19267.56	9489.99
51	2550.0	0.465	15.415	19267.6		0.0	402.5	0.185	74.4625	21575.9	69.9	325.0	21250.9	14238.08	6311.51
52	2600.0	0.465	15.88	61932.6	47694.5	0.0	402.5	0.185	74.4625	64240.9	69.9	325.0	63915.9	38541.29	18983.03
53	2650.0	0.465	16.345	38541.3		0.0	402.5	0.185	74.4625	40849.6	69.9	325.0	40524.6	24436.33	12035.80
54	2700.0	0.465	16.81	24436.3		0.0	402.5	0.185	74.4625	28744.7	69.9	325.0	28419.6	15931.04	7846.63
55	2750.0	0.465	17.275	15931.0		0.0	402.5	0.185	74.4625	18239.4	69.9	325.0	17914.3	10802.35	5320.56
56	2800.0	0.465	17.74	54988.4	44186.0	0.0	402.5	0.185	74.4625	57296.7	69.9	325.0	56971.7	34353.91	16920.58
57	2850.0	0.465	18.205	34353.9		0.0	402.5	0.185	74.4625	36662.3	69.9	325.0	36337.2	21911.34	10792.15
58	2900.0	0.465	18.67	21911.3		0.0	402.5	0.185	74.4625	24219.7	69.9	325.0	23894.6	14408.47	7096.71
59	2950.0	0.465	19.135	14408.5		0.0	402.5	0.185	74.4625	16716.8	69.9	325.0	16391.8	9884.24	4868.36
60	3000.0	0.465	19.6	49562.0	39677.8	0.0	402.5	0.185	74.4625	51870.4	69.9	325.0	51545.3	31081.84	15309.97
61	3050.0	0.77	20.37	31081.8		0.0	402.5	0.09	36.225	32204.8	69.9	538.2	31666.6	19094.95	9404.98
62	3100.0	0.77	21.14	19095.0		0.0	402.5	0.09	36.225	20217.9	69.9	538.2	19679.7	11866.86	5844.87
63	3150.0	0.77	21.91	11866.9		0.0	402.5	0.09	36.225	12989.8	69.9	538.2	12451.6	7508.32	3698.13
64	3200.0	0.77	22.68	41765.3	34256.9	0.0	402.5	0.09	36.225	42888.2	69.9	538.2	42350.0	25537.05	12577.95
65	3250.0	0.77	23.45	25537.1		0.0	402.5	0.09	36.225	26660.0	69.9	538.2	26121.8	15751.44	7758.17
66	3300.0	0.77	24.22	15751.4		0.0	402.5	0.09	36.225	16874.4	69.9	538.2	16336.2	9850.72	4851.85
67	3350.0	0.77	24.99	9850.7		0.0	402.5	0.09	36.225	10973.7	69.9	538.2	10435.5	6292.59	3099.33
68	3400.0	0.77	25.76	34579.9	28287.3	0.0	402.5	0.09	36.225	35702.9	69.9	538.2	35164.6	21204.28	10443.90
69	3450.0	0.77	26.53	21204.3		0.0	402.5	0.09	36.225	22327.3	69.9	538.2	21789.0	13138.78	6471.34
70	3500.0	0.77	27.3	13138.8		0.0	402.5	0.09	36.225	14261.8	69.9	538.2	13723.5	8275.29	4075.69
71	3550.0	0.77	28.07	8275.3		0.0	402.5	0.09	36.225	9398.3	69.9	538.2	8860.0	4748.98	2339.05
72	3600.0	0.77	28.84	28079.1	23330.2	0.0	402.5	0.09	36.225	2920					

Tableau A-2.2.1(8) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Août)

Aug. Water Re= 27.03 mm/day		①	②	③	④	⑤	⑥	⑦=⑤×⑥	⑧=②+⑦×31	⑨	⑩=①×⑨×10000/1000	⑪=⑧-⑩	⑫=⑪×0.67×(1.0~0.8)	⑬=⑪×0.33×(1.0~0.8)	
NO.	Distance (m)	Paddy Area (ha)	Cumulative Area (ha)	W.S./initial return (m3/mon.)	Intake quantity (m3/mon.)	Supplemental supply (m3/mon.)	Specific discharge (m3/km2)	catchment area (km2)	Flow-in volume (m3/day)	Irrigation water (m3/mon)	ETc (mm/mon)	Water loss (m3/mon)	Residual water (m3/mon.)	Horizontal leakage (m3/mon.)	Return to the river (m3/mon.)
1	50.0	0.18	0.18	1508.4			284.7	0.085	24.1995	2258.6	261.4	470.5	1788.1	1198.00	590.06
2	100.0	0.18	0.36	3016.8	590.1	1228.7	284.7	0.085	24.1995	4995.7	261.4	470.5	4525.2	3031.88	1493.32
3	150.0	0.18	0.54	3031.9		0.0	284.7	0.085	24.1995	3782.1	261.4	470.5	3311.5	2218.74	1092.81
4	200.0	0.18	0.72	6033.6	2586.1	1228.7	284.7	0.085	24.1995	6783.8	261.4	470.5	6313.3	4229.89	2083.38
5	250.0	0.18	0.9	4229.9		0.0	284.7	0.085	24.1995	4980.1	261.4	470.5	4509.6	3021.40	1488.15
6	300.0	0.18	1.08	3021.4		0.0	284.7	0.085	24.1995	3771.6	261.4	470.5	3301.1	2211.71	1089.35
7	350.0	0.18	1.26	2211.7		0.0	284.7	0.085	24.1995	2961.9	261.4	470.5	2491.4	1669.22	822.15
8	400.0	0.18	1.44	7152.3	5483.0	0.0	284.7	0.085	24.1995	7902.4	261.4	470.5	7431.9	4979.39	2452.53
9	450.0	0.18	1.62	4979.4		0.0	284.7	0.085	24.1995	5729.6	261.4	470.5	5259.1	3523.57	1735.49
10	500.0	0.18	1.8	3523.6		0.0	284.7	0.085	24.1995	4273.7	261.4	470.5	3803.2	2548.16	1255.07
11	550.0	0.18	1.98	2548.2		0.0	284.7	0.085	24.1995	3298.3	261.4	470.5	2827.8	1894.65	933.18
12	600.0	0.18	2.16	8270.9	6376.3	0.0	284.7	0.085	24.1995	9021.1	261.4	470.5	8550.6	5728.89	2821.69
13	650.0	0.18	2.34	5728.9		0.0	284.7	0.085	24.1995	6479.1	261.4	470.5	6008.6	4025.73	1982.82
14	700.0	0.18	2.52	4025.7		0.0	284.7	0.085	24.1995	4775.9	261.4	470.5	4305.4	2884.61	1420.78
15	750.0	0.18	2.7	2884.6		0.0	284.7	0.085	24.1995	3634.8	261.4	470.5	3164.3	2120.07	1044.21
16	800.0	0.18	2.88	9389.6	7269.5	0.0	284.7	0.085	24.1995	10139.8	261.4	470.5	9669.2	6478.39	3190.85
17	850.0	0.18	3.06	6478.4		0.0	284.7	0.085	24.1995	7228.6	261.4	470.5	6758.1	4527.90	2230.16
18	900.0	0.18	3.24	4527.9		0.0	284.7	0.085	24.1995	5278.1	261.4	470.5	4807.6	3221.07	1586.50
19	950.0	0.18	3.42	3221.1		0.0	284.7	0.085	24.1995	3971.3	261.4	470.5	3500.7	2345.49	1155.24
20	1000.0	0.18	3.6	10508.2	8162.7	0.0	284.7	0.085	24.1995	11258.4	261.4	470.5	10787.9	7227.89	3560.01
21	1050.0	0.335	3.935	7227.9		0.0	284.7	0.1	28.47	8110.5	261.4	875.7	7234.8	4847.30	2387.47
22	1100.0	0.335	4.27	4847.3		0.0	284.7	0.1	28.47	5729.9	261.4	875.7	4854.2	3252.30	1601.88
23	1150.0	0.335	4.605	3252.3		0.0	284.7	0.1	28.47	4134.9	261.4	875.7	3259.2	2183.65	1075.53
24	1200.0	0.335	4.94	11229.2	8624.9	420.7	284.7	0.1	28.47	12111.8	261.4	875.7	11236.1	7528.17	3707.91
25	1250.0	0.335	5.275	7528.2		0.0	284.7	0.1	28.47	8410.7	261.4	875.7	7535.1	5048.49	2486.57
26	1300.0	0.335	5.61	5048.5		0.0	284.7	0.1	28.47	5931.1	261.4	875.7	5055.4	3387.10	1668.27
27	1350.0	0.335	5.945	3387.1		0.0	284.7	0.1	28.47	4269.7	261.4	875.7	3394.0	2273.96	1120.01
28	1400.0	0.335	6.28	11256.7	8982.8	0.0	284.7	0.1	28.47	12139.3	261.4	875.7	11263.6	7546.61	3718.99
29	1450.0	0.335	6.615	7546.6		0.0	284.7	0.1	28.47	8429.2	261.4	875.7	7553.5	5060.84	2492.65
30	1500.0	0.335	6.95	5060.8		0.0	284.7	0.1	28.47	5943.4	261.4	875.7	5067.7	3395.37	1672.35
31	1550.0	0.335	7.285	3395.4		0.0	284.7	0.1	28.47	4277.9	261.4	875.7	3402.3	2279.51	1122.74
32	1600.0	0.335	7.62	11284.2	9004.7	0.0	284.7	0.1	28.47	12166.8	261.4	875.7	11291.1	7565.05	3726.07
33	1650.0	0.335	7.955	7565.1		0.0	284.7	0.1	28.47	8447.6	261.4	875.7	7571.9	5073.19	2498.74
34	1700.0	0.335	8.29	5073.2		0.0	284.7	0.1	28.47	5955.8	261.4	875.7	5080.1	3403.65	1676.42
35	1750.0	0.335	8.625	3403.6		0.0	284.7	0.1	28.47	4286.2	261.4	875.7	3410.5	2285.05	1125.47
36	1800.0	0.335	8.96	11311.8	9026.7	0.0	284.7	0.1	28.47	12194.3	261.4	875.7	11318.6	7583.49	3735.15
37	1850.0	0.335	9.295	7583.5		0.0	284.7	0.1	28.47	8466.1	261.4	875.7	7590.4	5085.55	2504.82
38	1900.0	0.335	9.63	5085.5		0.0	284.7	0.1	28.47	5968.1	261.4	875.7	5092.4	3411.93	1680.50
39	1950.0	0.335	9.965	3411.9		0.0	284.7	0.1	28.47	4294.5	261.4	875.7	3418.8	2290.60	1128.21
40	2000.0	0.335	10.3	14497.4	9048.7	3158.1	284.7	0.1	28.47	15380.0	261.4	875.7	14504.3	9717.87	4786.41
41	2050.0	0.465	10.765	9717.9		0.0	284.7	0.185	52.6695	11350.6	261.4	1215.5	10135.1	6790.53	3244.59
42	2100.0	0.465	11.23	6790.5		0.0	284.7	0.185	52.6695	8423.3	261.4	1215.5	7207.8	4829.21	2378.56
43	2150.0	0.465	11.695	4829.2		0.0	284.7	0.185	52.6695	6462.0	261.4	1215.5	5246.5	3515.12	1731.33
44	2200.0	0.465	12.16	15756.0	12240.9	0.0	284.7	0.185	52.6695	17388.8	261.4	1215.5	16173.3	10836.08	5337.18
45	2250.0	0.465	12.625	10836.1		0.0	284.7	0.185	52.6695	12468.8	261.4	1215.5	11253.3	7539.73	3713.60
46	2300.0	0.465	13.09	7539.7		0.0	284.7	0.185	52.6695	9172.5	261.4	1215.5	7957.0	5331.17	2625.80
47	2350.0	0.465	13.555	5331.2		0.0	284.7	0.185	52.6695	6963.9	261.4	1215.5	5748.4	3851.44	1896.98
48	2400.0	0.465	14.02	17425.0	13573.6	0.0	284.7	0.185	52.6695	19057.7	261.4	1215.5	17842.2	11954.30	5887.94
49	2450.0	0.465	14.485	11954.3		0.0	284.7	0.185	52.6695	13587.1	261.4	1215.5	12371.5	8288.93	4082.61
50	2500.0	0.465	14.95	8288.9		0.0	284.7	0.185	52.6695	9921.7	261.4	1215.5	8706.2	5833.14	2873.04
51	2550.0	0.465	15.415	5833.1		0.0	284.7	0.185	52.6695	7465.9	261.4	1215.5	6250.4	3768.98	1856.36
52	2600.0	0.465	15.88	18468.9	14699.9	0.0	284.7	0.185	52.6695	20101.7	261.4	1215.5	18886.2	11388.36	5609.19
53	2650.0	0.465	16.345	11388.4		0.0	284.7	0.185	52.6695	13021.1	261.4	1215.5	11805.6	7118.78	3508.27
54	2700.0	0.465	16.81	7118.8		0.0	284.7	0.185	52.6695	8751.5	261.4	1215.5	7536.0	4544.22	2238.20
55	2750.0	0.465	17.275	4544.2		0.0	284.7	0.185	52.6695	6177.0	261.4	1215.5	4961.5	2991.77	1473.56
56	2800.0	0.465	17.74	15819.0	12827.2	0.0	284.7	0.185	52.6695	17451.7	261.4	1215.5	16236.2	9790.44	4822.16
57	2850.0	0.465	18.205	9790.4		0.0	284.7	0.185	52.6695	11423.2	261.4	1215.5	10207.7	6155.24	3031.68
58	2900.0	0.465	18.67	6155.2		0.0	284.7	0.185	52.6695	7788.0	261.4	1215.5	6572.5	3963.21	1952.03
59	2950.0	0.465	19.135	3963.2		0.0	284.7	0.185	52.6695	5596.0	261.4	1215.5	4380.5	2641.41	1300.99
60	3000.0	0.465	19.6	23254.5	11106.9	9506.2	284.7	0.185	52.6695	24887.3	261.4	1215.5	23671.7	14274.06	7030.51
61	3050.0	0.77	20.37	14274.1		0.0	284.7	0.09	25.623	15068.4	261.4	2012.8	13055.6	7872.52	3877.51
62	3100.0	0.77	21.14	7872.5		0.0	284.7	0.09	25.623	8666.8	261.4	2012.8	6654.1	4012.40	1976.25
63	3150.0	0.77	21.91	4012.4		0.0	284.7	0.09	25.623	4806.7	261.4	2012.8	2793.9	1684.74	829.80
64	3200.0	0.77	22.68	25810.4	13714.1	10411.6	284.7	0.09	25.623	26604.7	261.4	2012.8	24591.9	14828.94	7303.80
65	3250.0	0.77	23.45	14828.9		0.0	284.7	0.09	25.623	15623.2	261.4	2012.8	13610.5	8207.11	4042.31
66	3300.0	0.77	24.22	8207.1		0.0	284.7	0.09	25.623	9001.4	261.4	2012.8	6988.6	4214.15	2075.63
67	3350.0	0.77	24.99	4214.2		0.0	284.7	0.09	25.623	5008.5	261.4	2012.8	2995.7	1806.40	889.72
68	3400.0	0.77	25.76	25810.4	14311.5	9692.5	284.7	0.09	25.623	26604.7	261.4	2012.8	24591.9	14828.94	7303.80
69	3450.0	0.77	26.53	14828.9		0.0	284.7	0.09	25.623	15623.2	261.4	2012.8	13610.5	8207.11	4042.31
70	3500.0	0.77	27.3	8207.1		0.0	284.7	0.09	25.623	9001.4	261.4	2012.8	6988.6	4214.15	2075.63
71	3550.0	0.77	28.07	4214.2		0.0	284.7	0.09	25.623	5008.5	261.4	2012.8	2995.7	1805.69	790.86
72	3600.0	0.77	28.84	15818.3	14212.6	0.0	284.7								

Tableau A-2.2.1(9) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (septembre)

Sep. Water Re= 25.15 mm/day

NO.	Distance (m)	① Paddy Area (ha)	② Cumulative Area (ha)	③ W.S./initial, return (m3/mon.)	④ Intake quantity (m3/mon.)	⑤ Supplemental supply (m3/mon.)	⑥ Specific discharge (m3/km2)	⑦ catchment area (km2)	⑧=②+⑦×⑥	⑨ Flow-in volume (m3/day)	⑩=⑧×⑨×⑩/1000/1000	⑪=⑩-⑩	⑫=⑪×0.67×(1.0~0.8)	⑬=⑪×0.33×(1.0~0.8)
1	50.0	0.18	0.144	1403.6			255.3	0.085	21.7005	2076.3	196.6	353.9	1722.4	1154.00
2	100.0	0.18	0.324	2807.1	568.4	1084.7	255.3	0.085	21.7005	4564.5	196.6	353.9	4210.7	2821.15
3	150.0	0.18	0.504	2821.1			255.3	0.085	21.7005	3493.9	196.6	353.9	3140.0	2103.79
4	200.0	0.18	0.684	5433.1	2425.7	903.6	255.3	0.085	21.7005	6105.8	196.6	353.9	5752.0	3853.81
5	250.0	0.18	0.864	3853.8			255.3	0.085	21.7005	4526.5	196.6	353.9	4172.6	2795.67
6	300.0	0.18	1.044	2795.7			255.3	0.085	21.7005	3468.4	196.6	353.9	3114.5	2086.72
7	350.0	0.18	1.224	2086.7			255.3	0.085	21.7005	2759.4	196.6	353.9	2405.6	1611.72
8	400.0	0.18	1.404	6708.5	5096.7		255.3	0.085	21.7005	7381.2	196.6	353.9	7027.3	4708.29
9	450.0	0.18	1.584	4708.3			255.3	0.085	21.7005	5381.0	196.6	353.9	5027.1	3368.17
10	500.0	0.18	1.764	3368.2			255.3	0.085	21.7005	4040.9	196.6	353.9	3687.0	2470.30
11	550.0	0.18	1.944	2470.3			255.3	0.085	21.7005	3143.0	196.6	353.9	2789.1	1868.72
12	600.0	0.18	2.124	7983.8	6115.1		255.3	0.085	21.7005	8656.5	196.6	353.9	8302.6	5562.77
13	650.0	0.18	2.304	5562.8			255.3	0.085	21.7005	6235.5	196.6	353.9	5881.6	3940.67
14	700.0	0.18	2.484	3940.7			255.3	0.085	21.7005	4613.4	196.6	353.9	4259.5	2853.87
15	750.0	0.18	2.664	2853.9			255.3	0.085	21.7005	3526.6	196.6	353.9	3172.7	2125.71
16	800.0	0.18	2.844	9259.1	7133.4		255.3	0.085	21.7005	9931.9	196.6	353.9	9578.0	6417.25
17	850.0	0.18	3.024	6417.2			255.3	0.085	21.7005	7090.0	196.6	353.9	6736.1	4513.18
18	900.0	0.18	3.204	4513.2			255.3	0.085	21.7005	5185.9	196.6	353.9	4832.0	3237.45
19	950.0	0.18	3.384	3237.4			255.3	0.085	21.7005	3910.2	196.6	353.9	3556.3	2382.71
20	1000.0	0.18	3.564	10534.5	8151.8		255.3	0.085	21.7005	11207.2	196.6	353.9	10853.3	7271.73
21	1050.0	0.335	3.899	7271.7			255.3	0.1	25.53	8063.2	196.6	658.6	7404.5	4961.05
22	1100.0	0.335	4.234	4961.0			255.3	0.1	25.53	5752.5	196.6	658.6	5093.9	3412.89
23	1150.0	0.335	4.569	3412.9			255.3	0.1	25.53	4204.3	196.6	658.6	3545.7	2375.63
24	1200.0	0.335	4.904	11251.8	8876.2		255.3	0.1	25.53	12043.2	196.6	658.6	11384.6	7627.68
25	1250.0	0.335	5.239	7627.7			255.3	0.1	25.53	8419.1	196.6	658.6	7760.5	5199.54
26	1300.0	0.335	5.574	5199.5			255.3	0.1	25.53	5991.0	196.6	658.6	5332.4	3572.68
27	1350.0	0.335	5.909	3572.7			255.3	0.1	25.53	4364.1	196.6	658.6	3705.5	2482.68
28	1400.0	0.335	6.244	11783.1	9300.4		255.3	0.1	25.53	12574.5	196.6	658.6	11915.9	7983.64
29	1450.0	0.335	6.579	7983.6			255.3	0.1	25.53	8775.1	196.6	658.6	8116.5	5438.03
30	1500.0	0.335	6.914	5438.0			255.3	0.1	25.53	6229.5	196.6	658.6	5570.8	3732.47
31	1550.0	0.335	7.249	3732.5			255.3	0.1	25.53	4523.9	196.6	658.6	3865.3	2589.74
32	1600.0	0.335	7.584	12314.3	9724.6		255.3	0.1	25.53	13105.8	196.6	658.6	12447.2	8339.60
33	1650.0	0.335	7.919	8339.6			255.3	0.1	25.53	9131.0	196.6	658.6	8472.4	5795.90
34	1700.0	0.335	8.254	5795.9			255.3	0.1	25.53	6468.0	196.6	658.6	5809.3	3892.26
35	1750.0	0.335	8.589	3892.3			255.3	0.1	25.53	4683.7	196.6	658.6	4025.1	2696.80
36	1800.0	0.335	8.924	12845.6	10148.8		255.3	0.1	25.53	13637.1	196.6	658.6	12978.4	8695.56
37	1850.0	0.335	9.259	8695.6			255.3	0.1	25.53	9487.0	196.6	658.6	8828.4	5915.01
38	1900.0	0.335	9.594	5915.0			255.3	0.1	25.53	6706.4	196.6	658.6	6047.8	4052.05
39	1950.0	0.335	9.929	4052.0			255.3	0.1	25.53	4843.5	196.6	658.6	4184.9	2803.86
40	2000.0	0.335	10.264	13376.9	10573.0		255.3	0.1	25.53	14168.3	196.6	658.6	13509.7	9051.51
41	2050.0	0.465	10.729	9051.5			255.3	0.185	47.2305	10515.7	196.6	914.2	9601.5	6432.99
42	2100.0	0.465	11.194	6433.0			255.3	0.185	47.2305	7897.1	196.6	914.2	6982.9	4678.57
43	2150.0	0.465	11.659	4678.6			255.3	0.185	47.2305	6142.7	196.6	914.2	5228.5	3503.11
44	2200.0	0.465	12.124	15159.6	11656.5		255.3	0.185	47.2305	16623.7	196.6	914.2	15709.5	10525.40
45	2250.0	0.465	12.589	10525.4			255.3	0.185	47.2305	11989.5	196.6	914.2	11075.4	7420.49
46	2300.0	0.465	13.054	7420.5			255.3	0.185	47.2305	8884.6	196.6	914.2	7970.4	5340.20
47	2350.0	0.465	13.519	5340.2			255.3	0.185	47.2305	6804.3	196.6	914.2	5890.2	3946.40
48	2400.0	0.465	13.984	17359.4	13413.0		255.3	0.185	47.2305	18823.6	196.6	914.2	17909.4	11999.28
49	2450.0	0.465	14.449	11999.3			255.3	0.185	47.2305	13463.4	196.6	914.2	12549.2	8407.99
50	2500.0	0.465	14.914	8408.0			255.3	0.185	47.2305	9872.1	196.6	914.2	8957.9	6001.82
51	2550.0	0.465	15.379	6001.8			255.3	0.185	47.2305	7466.0	196.6	914.2	6551.8	3950.72
52	2600.0	0.465	15.844	18904.1	14953.3		255.3	0.185	47.2305	20368.2	196.6	914.2	19454.0	11730.77
53	2650.0	0.465	16.309	11730.8			255.3	0.185	47.2305	13194.9	196.6	914.2	12280.7	7405.28
54	2700.0	0.465	16.774	7405.3			255.3	0.185	47.2305	8869.4	196.6	914.2	7955.2	4797.01
55	2750.0	0.465	17.239	4797.0			255.3	0.185	47.2305	6261.2	196.6	914.2	5347.0	3224.22
56	2800.0	0.465	17.704	16600.2	13376.0		255.3	0.185	47.2305	18064.3	196.6	914.2	17150.1	10341.53
57	2850.0	0.465	18.169	10341.5			255.3	0.185	47.2305	11805.7	196.6	914.2	10891.5	6567.57
58	2900.0	0.465	18.634	6567.6			255.3	0.185	47.2305	8031.7	196.6	914.2	7117.5	4291.87
59	2950.0	0.465	19.099	4291.9			255.3	0.185	47.2305	5756.0	196.6	914.2	4841.8	2919.62
60	3000.0	0.465	19.564	20940.2	11880.3	6140.2	255.3	0.185	47.2305	22404.3	196.6	914.2	21490.1	12958.53
61	3050.0	0.77	20.334	12958.5			255.3	0.09	22.977	13670.8	196.6	1513.8	12157.0	7330.67
62	3100.0	0.77	21.104	7330.7			255.3	0.09	22.977	8043.0	196.6	1513.8	6529.1	3937.07
63	3150.0	0.77	21.874	3937.1			255.3	0.09	22.977	4649.4	196.6	1513.8	3135.5	1890.73
64	3200.0	0.77	22.644	12863.6	8487.4		255.3	0.09	22.977	23954.0	196.6	1513.8	22440.1	13531.41
65	3250.0	0.77	23.414	13531.4			255.3	0.09	22.977	14243.7	196.6	1513.8	12729.9	7676.12
66	3300.0	0.77	24.184	7676.1			255.3	0.09	22.977	8388.4	196.6	1513.8	6874.6	4145.37
67	3350.0	0.77	24.954	4145.4			255.3	0.09	22.977	4857.7	196.6	1513.8	3343.8	2016.34
68	3400.0	0.77	25.724	23241.7	13480.4	7745.0	255.3	0.09	22.977	23954.0	196.6	1513.8	22440.1	13531.41
69	3450.0	0.77	26.494	13531.4			255.3	0.09	22.977	14243.7	196.6	1513.8	12729.9	7676.12
70	3500.0	0.77	27.264	7676.1			255.3	0.09	22.977	8388.4	196.6	1513.8	6874.6	4145.37
71	3550.0	0.77	28.034	4145.4			255.3	0.09	22.977	4857.7	196.6	1513.8	3343.8	2016.34
72	3600.0	0.77	28.804	15162.3	13370.0		255.3	0.09	22.977	15874.6	196.6	1513.8	14360.8	7697.38
73	3650.0	0.77	29.574	7697.4			255.3	0.09	22.977	8409.7	196.6	1513.8	6895.8	3696.17
74	3700.0	0.77	30.344	12008.2	5611.8	2700.3	255.3	0.09	22.977	12720.5	196.6	1513.8	11206.7	6006.77
75	3750.0	0.77	31.114	6006.8			255.3	0.09	22.977	6719.1	196.6	1513.8	5205.2	2790.01
76	3800.0	0.77	31.884	12008.2	4332.7	4885.4	255.3	0.09	22.977	12720.5	196.6	1513.8	11206.7	6006.77
77	3850.0	0.77	32.654	6006.8			255.3	0.09	22.977	6719.1	196.6	1513.8	5205.2	2790.01
78	3900.0	0.77	33.424	12008.2	4332.7	4885.4	255.3	0.09	22.977	12720.5	196.6	1513.8	11206.7	6006.77
79	3950.0	0.77	34.194	6006.8			255.3	0.09	22.977	6719.1	196.6	1513.8	5205.2	2790.01
80	4000.0	0.77	34.964											

Tableau A-2.2.2.1(10) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Octobre)

Oct. Water Re= 23.49 mm/day		①	②	③	④	⑤	⑥	⑦=⑤×⑥	⑧=②+⑦×31	⑨	⑩=①×⑨×10000/1000	⑪=⑧-⑩	⑫=⑪×0.67×(1.0~0.8)	⑬=⑪×0.33×(1.0~0.8)	
NO.	Distance (m)	Paddy Area (ha)	Cumulative Area (ha)	W.S./initial, return (m3/mon)	Intake quantity (m3/mon.)	Supplemental supply (m3/mon)	Specific discharge (m3/km2)	catchment area (km2)	Flow-in volume (m3/day)	Irrigation water (m3/mon)	ETc (mm/mon)	Water loss (m3/mon)	Residual water (m3/mon.)	Horizontal leakage (m3/mon.)	Return to the river (m3/mon.)
1	50.0	0.18	0.18	1310.9			235.6	0.085	20.026	1931.7	151.7	273.1	1658.7	1111.32	547.37
2	100.0	0.18	0.36	2621.9	547.4	963.2	235.6	0.085	20.026	4205.9	151.7	273.1	3932.8	2634.99	1297.83
3	150.0	0.18	0.54	2635.0		0.0	235.6	0.085	20.026	3255.8	151.7	273.1	2982.7	1998.43	984.30
4	200.0	0.18	0.72	5243.8	2282.1	963.2	235.6	0.085	20.026	5864.6	151.7	273.1	5591.5	3746.31	1845.20
5	250.0	0.18	0.9	3746.3		0.0	235.6	0.085	20.026	4367.1	151.7	273.1	4094.1	2743.02	1351.04
6	300.0	0.18	1.08	2743.0	5014.3	0.0	235.6	0.085	20.026	3363.8	151.7	273.1	3090.8	2070.81	1019.95
7	350.0	0.18	1.26	2070.8		0.0	235.6	0.085	20.026	2691.6	151.7	273.1	2418.6	1620.43	798.12
8	400.0	0.18	1.44	6634.7		0.0	235.6	0.085	20.026	7255.6	151.7	273.1	6982.5	4678.27	2304.22
9	450.0	0.18	1.62	4678.3		0.0	235.6	0.085	20.026	5299.1	151.7	273.1	5026.0	3367.43	1658.58
10	500.0	0.18	1.8	3367.4		0.0	235.6	0.085	20.026	3988.2	151.7	273.1	3715.2	2489.17	1226.01
11	550.0	0.18	1.98	2489.2		0.0	235.6	0.085	20.026	3110.0	151.7	273.1	2836.9	1900.73	936.18
12	600.0	0.18	2.16	8025.7	6125.0	0.0	235.6	0.085	20.026	8646.5	151.7	273.1	8373.5	5610.23	2763.25
13	650.0	0.18	2.34	5610.2		0.0	235.6	0.085	20.026	6231.0	151.7	273.1	5958.0	3991.84	1966.13
14	700.0	0.18	2.52	3991.8		0.0	235.6	0.085	20.026	4612.6	151.7	273.1	4339.6	2907.52	1432.06
15	750.0	0.18	2.7	2907.5		0.0	235.6	0.085	20.026	3528.3	151.7	273.1	3255.3	2181.03	1074.24
16	800.0	0.18	2.88	9416.7	7235.7	0.0	235.6	0.085	20.026	10037.5	151.7	273.1	9764.5	6542.19	3222.27
17	850.0	0.18	3.06	6542.2		0.0	235.6	0.085	20.026	7163.0	151.7	273.1	6889.9	4616.26	2273.68
18	900.0	0.18	3.24	4616.3		0.0	235.6	0.085	20.026	5237.1	151.7	273.1	4964.0	3325.88	1638.12
19	950.0	0.18	3.42	3325.9		0.0	235.6	0.085	20.026	3946.7	151.7	273.1	3673.6	2461.33	1212.30
20	1000.0	0.18	3.6	10807.7	8346.4	0.0	235.6	0.085	20.026	11428.5	151.7	273.1	11155.4	7474.15	3681.30
21	1050.0	0.335	3.935	7474.1		0.0	235.6	0.1	23.56	8204.5	151.7	508.2	7696.3	5156.53	2539.78
22	1100.0	0.335	4.27	5156.5		0.0	235.6	0.1	23.56	5886.9	151.7	508.2	5378.7	3603.72	1774.97
23	1150.0	0.335	4.605	3603.7		0.0	235.6	0.1	23.56	4334.1	151.7	508.2	3825.9	2563.35	1262.54
24	1200.0	0.335	4.94	11821.9	9258.6	0.0	235.6	0.1	23.56	12552.3	151.7	508.2	12044.1	8069.55	3974.55
25	1250.0	0.335	5.275	8069.5		0.0	235.6	0.1	23.56	8799.9	151.7	508.2	8291.7	5555.45	2736.27
26	1300.0	0.335	5.61	5555.4		0.0	235.6	0.1	23.56	6285.8	151.7	508.2	5777.6	3871.00	1906.61
27	1350.0	0.335	5.945	3871.0		0.0	235.6	0.1	23.56	4601.4	151.7	508.2	4093.2	2742.42	1350.74
28	1400.0	0.335	6.28	12710.6	9968.2	0.0	235.6	0.1	23.56	13441.0	151.7	508.2	12932.8	8664.95	4267.81
29	1450.0	0.335	6.615	8665.0		0.0	235.6	0.1	23.56	9395.3	151.7	508.2	8887.1	5954.37	2932.75
30	1500.0	0.335	6.95	5954.4		0.0	235.6	0.1	23.56	6684.7	151.7	508.2	6176.5	4138.28	2038.26
31	1550.0	0.335	7.285	4138.3		0.0	235.6	0.1	23.56	4868.6	151.7	508.2	4360.4	2921.50	1438.95
32	1600.0	0.335	7.62	13599.3	10677.8	0.0	235.6	0.1	23.56	14329.6	151.7	508.2	13821.4	9260.35	4561.07
33	1650.0	0.335	7.955	9260.4		0.0	235.6	0.1	23.56	9990.7	151.7	508.2	9482.5	6353.29	3129.23
34	1700.0	0.335	8.29	6353.3		0.0	235.6	0.1	23.56	7083.6	151.7	508.2	6575.5	4405.55	2169.90
35	1750.0	0.335	8.625	4405.6		0.0	235.6	0.1	23.56	5135.9	151.7	508.2	4627.7	3100.57	1527.15
36	1800.0	0.335	8.96	14487.9	11387.3	0.0	235.6	0.1	23.56	15218.3	151.7	508.2	14710.1	9855.75	4854.33
37	1850.0	0.335	9.295	9855.8		0.0	235.6	0.1	23.56	10586.1	151.7	508.2	10077.9	6752.21	3325.71
38	1900.0	0.335	9.63	6752.2		0.0	235.6	0.1	23.56	7482.6	151.7	508.2	6974.4	4672.83	2301.54
39	1950.0	0.335	9.965	4672.8		0.0	235.6	0.1	23.56	5403.2	151.7	508.2	4895.0	3279.65	1615.35
40	2000.0	0.335	10.3	15376.6	12096.9	0.0	235.6	0.1	23.56	16106.9	151.7	508.2	15598.7	10451.16	5147.58
41	2050.0	0.465	10.765	10451.2		0.0	235.6	0.185	43.586	11802.3	151.7	705.4	11096.9	7434.94	3661.98
42	2100.0	0.465	11.23	7434.9		0.0	235.6	0.185	43.586	8786.1	151.7	705.4	8080.7	5414.07	2666.63
43	2150.0	0.465	11.695	5414.1		0.0	235.6	0.185	43.586	6765.2	151.7	705.4	6059.8	4060.08	1999.74
44	2200.0	0.465	12.16	17536.0	13475.9	0.0	235.6	0.185	43.586	18887.2	151.7	705.4	18181.8	12181.80	5999.99
45	2250.0	0.465	12.625	12181.8		0.0	235.6	0.185	43.586	13533.0	151.7	705.4	12827.6	8594.46	4233.09
46	2300.0	0.465	13.09	8594.5		0.0	235.6	0.185	43.586	9945.6	151.7	705.4	9240.2	6190.95	3049.27
47	2350.0	0.465	13.555	6190.9		0.0	235.6	0.185	43.586	7542.1	151.7	705.4	6836.7	4580.60	2256.11
48	2400.0	0.465	14.02	20119.1	15538.5	0.0	235.6	0.185	43.586	21470.2	151.7	705.4	20764.8	13912.44	6852.39
49	2450.0	0.465	14.485	13912.4		0.0	235.6	0.185	43.586	15263.6	151.7	705.4	14558.2	9753.99	4804.21
50	2500.0	0.465	14.95	9754.0		0.0	235.6	0.185	43.586	11105.2	151.7	705.4	10399.8	6967.83	3431.92
51	2550.0	0.465	15.415	6967.8		0.0	235.6	0.185	43.586	8319.0	151.7	705.4	7613.6	4591.00	2261.24
52	2600.0	0.465	15.88	21940.8	17349.8	0.0	235.6	0.185	43.586	23291.9	151.7	705.4	22586.5	13619.67	6708.19
53	2650.0	0.465	16.345	13619.7		0.0	235.6	0.185	43.586	14970.8	151.7	705.4	14265.4	8602.05	4236.83
54	2700.0	0.465	16.81	8602.1		0.0	235.6	0.185	43.586	9953.2	151.7	705.4	9247.8	5576.43	2746.60
55	2750.0	0.465	17.275	5576.4		0.0	235.6	0.185	43.586	6927.6	151.7	705.4	6222.2	3751.98	1847.99
56	2800.0	0.465	17.74	19291.6	15539.6	0.0	235.6	0.185	43.586	20642.8	151.7	705.4	19937.4	12022.23	5921.40
57	2850.0	0.465	18.205	12022.2		0.0	235.6	0.185	43.586	13373.4	151.7	705.4	12668.0	7638.80	3762.39
58	2900.0	0.465	18.67	7638.8		0.0	235.6	0.185	43.586	8990.0	151.7	705.4	8284.6	4995.59	2460.51
59	2950.0	0.465	19.135	4995.6		0.0	235.6	0.185	43.586	6346.8	151.7	705.4	5641.4	3401.73	1675.48
60	3000.0	0.465	19.6	20210.3	13819.8	2988.8	235.6	0.185	43.586	21561.5	151.7	705.4	20856.1	12576.22	6194.26
61	3050.0	0.77	20.37	12576.2		0.0	235.6	0.09	21.204	13233.5	151.7	1168.1	12065.5	7275.47	3583.44
62	3100.0	0.77	21.14	7275.5		0.0	235.6	0.09	21.204	7932.8	151.7	1168.1	6764.7	4079.12	2009.12
63	3150.0	0.77	21.91	4079.1		0.0	235.6	0.09	21.204	4736.4	151.7	1168.1	3568.3	2151.71	1059.80
64	3200.0	0.77	22.68	22431.6	12846.6	7433.3	235.6	0.09	21.204	23089.0	151.7	1168.1	21920.9	13218.29	6510.50
65	3250.0	0.77	23.45	13218.3		0.0	235.6	0.09	21.204	13875.6	151.7	1168.1	12707.5	7662.64	3774.13
66	3300.0	0.77	24.22	7662.6		0.0	235.6	0.09	21.204	8320.0	151.7	1168.1	7151.9	4312.58	2124.11
67	3350.0	0.77	24.99	4312.6		0.0	235.6	0.09	21.204	4969.9	151.7	1168.1	3801.8	2292.49	1129.14
68	3400.0	0.77	25.76	22431.6	13537.9	6601.3	235.6	0.09	21.204	23089.0	151.7	1168.1	21920.9	13218.29	6510.50
69	3450.0	0.77	26.53	13218.3		0.0	235.6	0.09	21.204	13875.6	151.7	1168.1	12707.5	7662.64	3774.13
70	3500.0	0.77	27.3	7662.6		0.0	235.6	0.09	21.204	8320.0	151.7	1168.1	7151.9	4312.58	2124.11
71	3550.0	0.77	28.07	4312.6		0.0	235.6	0.09	21.204	4969.9	151.7	1168.1	3801.8	2037.77	1003.68
72	3600.0	0.77	28.84	15450.2	13412.4	0.0	235.6	0.09	21.204	16107.5					

Tableau A-2.2.1(11) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Novembre)

Nov. Water Re= 19.31 mm/day															
NO.	Distance (m)	Paddy Area (ha)	Cumulative Area (ha)	W.S./initial return (m3/mon)	Intake quantity (m3/mon.)	Supplemental supply (m3/mon)	Specific discharge (m3/km2)	catchment area (km2)	⑦=⑤×⑥	⑧=②+⑦×30	⑨	⑩=①×⑨×10000/1000	⑪=⑧-⑩	⑫=①×0.67×(1.0~0.8)	⑬=①×0.33×(1.0~0.8)
1	50.0	0.18	0.18	1077.7			265.1	0.085	22.5335	1776.2	21.4	38.5	1737.7	1164.26	573.44
2	100.0	0.18	0.36	2155.4	573.4	417.7	265.1	0.085	22.5335	3271.6	21.4	38.5	3233.1	2166.14	1066.91
3	150.0	0.18	0.54	2166.1			265.1	0.085	22.5335	2864.7	21.4	38.5	2826.2	1893.53	932.63
4	200.0	0.18	0.72	4171.7	1999.5	278.6	265.1	0.085	22.5335	4870.2	21.4	38.5	4831.7	3237.24	1594.46
5	250.0	0.18	0.9	3237.2			265.1	0.085	22.5335	3935.8	21.4	38.5	3897.3	2611.16	1286.09
6	300.0	0.18	1.08	2611.2			265.1	0.085	22.5335	3309.7	21.4	38.5	3271.2	2191.69	1079.49
7	350.0	0.18	1.26	2191.7			265.1	0.085	22.5335	2890.2	21.4	38.5	2851.7	1910.65	941.06
8	400.0	0.18	1.44	6811.8	4901.1		265.1	0.085	22.5335	7510.3	21.4	38.5	7471.8	5006.09	2465.68
9	450.0	0.18	1.62	5006.1			265.1	0.085	22.5335	5704.6	21.4	38.5	5666.1	3796.29	1869.82
10	500.0	0.18	1.8	3796.3			265.1	0.085	22.5335	4494.8	21.4	38.5	4456.3	2985.73	1470.58
11	550.0	0.18	1.98	2985.7			265.1	0.085	22.5335	3684.3	21.4	38.5	3645.7	2442.65	1203.10
12	600.0	0.18	2.16	9451.8	7009.2		265.1	0.085	22.5335	10150.4	21.4	38.5	10111.8	6774.94	3336.91
13	650.0	0.18	2.34	6774.9			265.1	0.085	22.5335	7473.5	21.4	38.5	7435.0	4981.42	2453.54
14	700.0	0.18	2.52	4981.4			265.1	0.085	22.5335	5680.0	21.4	38.5	5641.4	3779.76	1861.67
15	750.0	0.18	2.7	3779.8			265.1	0.085	22.5335	4473.2	21.4	38.5	4439.8	2974.65	1465.13
16	800.0	0.18	2.88	12091.9	9117.2		265.1	0.085	22.5335	12790.4	21.4	38.5	12751.9	8543.79	4208.13
17	850.0	0.18	3.06	8543.8			265.1	0.085	22.5335	9242.3	21.4	38.5	9203.8	6166.55	3037.26
18	900.0	0.18	3.24	6166.5			265.1	0.085	22.5335	6865.1	21.4	38.5	6826.6	4573.80	2252.77
19	950.0	0.18	3.42	4573.8			265.1	0.085	22.5335	5272.3	21.4	38.5	5233.8	3506.66	1727.16
20	1000.0	0.18	3.6	14732.0	11225.3		265.1	0.085	22.5335	15430.5	21.4	38.5	15392.0	10312.64	5079.36
21	1050.0	0.335	3.935	10312.6			265.1	0.1	26.51	11134.4	21.4	71.7	11062.8	7412.05	3650.71
22	1100.0	0.335	4.27	7412.0			265.1	0.1	26.51	8233.9	21.4	71.7	8162.2	5468.65	2693.52
23	1150.0	0.335	4.605	5468.7			265.1	0.1	26.51	6290.5	21.4	71.7	6218.8	4166.58	2052.19
24	1200.0	0.335	4.94	17642.4	13475.8		265.1	0.1	26.51	18464.2	21.4	71.7	18392.5	12322.96	6069.52
25	1250.0	0.335	5.275	12323.0			265.1	0.1	26.51	13144.8	21.4	71.7	13073.1	8758.96	4314.12
26	1300.0	0.335	5.61	8759.0			265.1	0.1	26.51	9580.8	21.4	71.7	9509.1	6371.09	3138.00
27	1350.0	0.335	5.945	6371.1			265.1	0.1	26.51	7192.9	21.4	71.7	7121.2	4771.21	2350.00
28	1400.0	0.335	6.28	20642.8	15871.6		265.1	0.1	26.51	21464.6	21.4	71.7	21393.0	14333.28	7059.67
29	1450.0	0.335	6.615	14333.3			265.1	0.1	26.51	15155.1	21.4	71.7	15083.4	10105.88	4977.52
30	1500.0	0.335	6.95	10105.9			265.1	0.1	26.51	10927.7	21.4	71.7	10856.0	7273.52	3582.48
31	1550.0	0.335	7.285	7273.5			265.1	0.1	26.51	8095.3	21.4	71.7	8023.6	5375.84	2647.80
32	1600.0	0.335	7.62	23643.3	18267.5		265.1	0.1	26.51	24465.1	21.4	71.7	24393.4	16343.60	8049.83
33	1650.0	0.335	7.955	16343.6			265.1	0.1	26.51	17165.4	21.4	71.7	17093.7	11452.79	5640.93
34	1700.0	0.335	8.29	11452.8			265.1	0.1	26.51	12274.6	21.4	71.7	12202.9	8175.95	4026.96
35	1750.0	0.335	8.625	8176.0			265.1	0.1	26.51	8997.8	21.4	71.7	8926.1	5980.47	2945.60
36	1800.0	0.335	8.96	26643.8	20663.3		265.1	0.1	26.51	27465.6	21.4	71.7	27393.9	18353.92	9039.99
37	1850.0	0.335	9.295	18353.9			265.1	0.1	26.51	19175.7	21.4	71.7	19104.0	12799.71	6304.33
38	1900.0	0.335	9.63	12799.7			265.1	0.1	26.51	13621.5	21.4	71.7	13549.8	9078.39	4471.44
39	1950.0	0.335	9.965	9078.4			265.1	0.1	26.51	9900.2	21.4	71.7	9828.5	6585.10	3243.41
40	2000.0	0.335	10.3	29644.3	23059.2		265.1	0.1	26.51	30466.1	21.4	71.7	30394.4	20364.24	10030.15
41	2050.0	0.465	10.765	20364.2			265.1	0.185	49.0435	21884.6	21.4	99.5	21785.1	14596.01	7189.08
42	2100.0	0.465	11.23	14596.0			265.1	0.185	49.0435	16116.4	21.4	99.5	16016.8	10731.29	5285.56
43	2150.0	0.465	11.695	10731.3			265.1	0.185	49.0435	12251.6	21.4	99.5	12152.1	8141.92	4010.20
44	2200.0	0.465	12.16	34656.9	26515.0		265.1	0.185	49.0435	36177.3	21.4	99.5	36077.7	24172.09	11905.66
45	2250.0	0.465	12.625	24172.1			265.1	0.185	49.0435	25692.4	21.4	99.5	25592.9	17147.26	8445.67
46	2300.0	0.465	13.09	17147.3			265.1	0.185	49.0435	18667.6	21.4	99.5	18568.1	12440.63	6127.47
47	2350.0	0.465	13.555	12440.6			265.1	0.185	49.0435	13961.0	21.4	99.5	13861.5	9287.18	4574.28
48	2400.0	0.465	14.02	40340.3	31053.1		265.1	0.185	49.0435	41860.6	21.4	99.5	41761.1	27979.94	13781.16
49	2450.0	0.465	14.485	27979.9			265.1	0.185	49.0435	29500.3	21.4	99.5	29400.8	19698.52	9702.26
50	2500.0	0.465	14.95	19698.5			265.1	0.185	49.0435	21218.9	21.4	99.5	21119.4	14149.97	6969.39
51	2550.0	0.465	15.415	14150.0			265.1	0.185	49.0435	15670.3	21.4	99.5	15570.8	9389.20	4624.53
52	2600.0	0.465	15.88	44466.5	35077.3		265.1	0.185	49.0435	45986.9	21.4	99.5	45887.4	27670.09	13628.55
53	2650.0	0.465	16.345	27670.1			265.1	0.185	49.0435	29190.4	21.4	99.5	29090.9	17541.83	8640.01
54	2700.0	0.465	16.81	17541.8			265.1	0.185	49.0435	19062.2	21.4	99.5	18962.7	11434.49	5631.91
55	2750.0	0.465	17.275	11434.5			265.1	0.185	49.0435	12954.8	21.4	99.5	12855.3	7751.76	3818.03
56	2800.0	0.465	17.74	39470.3	31718.5		265.1	0.185	49.0435	40990.6	21.4	99.5	40891.1	24657.33	12144.66
57	2850.0	0.465	18.205	24657.3			265.1	0.185	49.0435	26177.7	21.4	99.5	26078.2	15725.14	7745.22
58	2900.0	0.465	18.67	15725.1			265.1	0.185	49.0435	17245.5	21.4	99.5	17146.0	10339.02	5092.35
59	2950.0	0.465	19.135	10339.0			265.1	0.185	49.0435	11859.4	21.4	99.5	11759.9	7091.20	3492.68
60	3000.0	0.465	19.6	35566.1	28474.9		265.1	0.185	49.0435	37086.5	21.4	99.5	36986.9	22303.13	10985.12
61	3050.0	0.77	20.37	22303.1			265.1	0.09	23.859	23042.8	21.4	164.8	22878.0	13795.42	6794.76
62	3100.0	0.77	21.14	13795.4			265.1	0.09	23.859	14535.0	21.4	164.8	14370.3	8665.27	4267.97
63	3150.0	0.77	21.91	8665.3			265.1	0.09	23.859	9404.9	21.4	164.8	9240.1	5571.79	2744.32
64	3200.0	0.77	22.68	30364.0	24792.2		265.1	0.09	23.859	31103.6	21.4	164.8	30938.8	18656.10	9188.83
65	3250.0	0.77	23.45	18656.1			265.1	0.09	23.859	19397.7	21.4	164.8	19231.0	11596.26	5711.59
66	3300.0	0.77	24.22	11596.3			265.1	0.09	23.859	12335.9	21.4	164.8	12171.1	7339.18	3614.82
67	3350.0	0.77	24.99	7339.2			265.1	0.09	23.859	8078.8	21.4	164.8	7914.0	4772.16	2350.47
68	3400.0	0.77	25.76	25637.9	20865.7		265.1	0.09	23.859	26377.5	21.4	164.8	26212.7	15806.27	7785.18
69	3450.0	0.77	26.53	15806.3			265.1	0.09	23.859	16545.9	21.4	164.8	16381.1	9877.81	4865.19
70	3500.0	0.77	27.3	9877.8			265.1	0.09	23.859	10617.4	21.4	164.8	10452.7	6302.96	3104.44
71	3550.0	0.77	28.07	6303.0			265.1	0.09	23.859	7042.6	21.4	164.8	6877.8	3686.50	1815.74
72	3600.0	0.77	28.84	21257.1	17570.5		265.1	0.09	23.859	21996.7	21.4	164.8	21831.9	11701.90	5763.62
73	3650.0	0.77	29.61	11701.9			265.1	0.09	23.859	12441.5	21.4	164.8	12276.7	6580.34	3241.06
74	3700.0	0.77	30.38	15585.0	9004.7		265.1	0.09	23.859	16324.6	21.4	164.8	16159.9	8661.69	4266.21
75	3750.0	0.77	31.15	8661.7			265.1	0							

Tableau A-2.2.1(12) Calcul des quantités d'eau requises pour l'approvisionnement supplémentaire des champs rizicoles (Décembre)

Dec. Water Re= 20.95 mm/day															
NO.	Distance (m)	① Paddy Area (ha)	② Cumulative Area (ha)	③ W.S./initial, return (m3/mon)	④ Intake quantity (m3/mon.)	⑤ Supplemental supply (m3/mon)	⑥ Specific discharge (m3/km2)	⑦ catchment area (km2)	⑧=⑤×⑥ Flow-in volume (m3/day)	⑨=⑧-②×⑦×31 Irrigation water (m3/mon)	⑩ ETC (mm/mon)	⑪=①×⑩×10000/1000 Water loss (m3/mon)	⑫=⑧-⑪ Residual water (m3/mon.)	⑬=⑫×0.67×(1.0~0.8) Horizontal leakage (m3/mon.)	⑭=⑫×0.33×(1.0~0.8) Return to the river (m3/mon.)
1	50.0	0.18	0.144	1169.1			255.3	0.085	21.7005	1841.9	72.9	131.2	1710.6	1146.10	564.50
2	100.0	0.18	0.324	2338.2	564.5	627.6	255.3	0.085	21.7005	3638.5	72.9	131.2	3507.3	2349.89	1157.41
3	150.0	0.18	0.504	3507.3		0.0	255.3	0.085	21.7005	5434.9	72.9	131.2	5296.1	3695.99	1721.91
4	200.0	0.18	0.684	4676.4	2111.6	627.6	255.3	0.085	21.7005	7231.3	72.9	131.2	7100.1	5069.19	2362.81
5	250.0	0.18	0.864	5845.5		0.0	255.3	0.085	21.7005	9027.7	72.9	131.2	8896.5	6515.19	3093.81
6	300.0	0.18	1.044	7014.6		0.0	255.3	0.085	21.7005	10824.1	72.9	131.2	10693.0	8001.19	3824.81
7	350.0	0.18	1.224	8183.7		0.0	255.3	0.085	21.7005	12620.5	72.9	131.2	12489.0	9487.19	4555.81
8	400.0	0.18	1.404	9352.8	5022.2	0.0	255.3	0.085	21.7005	14416.9	72.9	131.2	14215.7	10973.19	5286.81
9	450.0	0.18	1.584	10521.9		0.0	255.3	0.085	21.7005	16213.3	72.9	131.2	16002.1	12509.19	6017.81
10	500.0	0.18	1.764	11691.0		0.0	255.3	0.085	21.7005	18009.7	72.9	131.2	17797.9	14095.19	6748.81
11	550.0	0.18	1.944	12860.1		0.0	255.3	0.085	21.7005	19806.1	72.9	131.2	19593.9	15681.19	7479.81
12	600.0	0.18	2.124	14029.2	6751.7	0.0	255.3	0.085	21.7005	21602.5	72.9	131.2	21389.9	17267.19	8210.81
13	650.0	0.18	2.304	15198.3		0.0	255.3	0.085	21.7005	23398.9	72.9	131.2	23185.9	18853.19	8941.81
14	700.0	0.18	2.484	16367.4		0.0	255.3	0.085	21.7005	25195.3	72.9	131.2	25002.1	20439.19	9672.81
15	750.0	0.18	2.664	17536.5		0.0	255.3	0.085	21.7005	26991.7	72.9	131.2	26808.0	22025.19	10403.81
16	800.0	0.18	2.844	18705.6	8481.2	0.0	255.3	0.085	21.7005	28788.1	72.9	131.2	28613.9	23611.19	11134.81
17	850.0	0.18	3.024	19874.7		0.0	255.3	0.085	21.7005	30584.5	72.9	131.2	30419.9	25207.19	11865.81
18	900.0	0.18	3.204	21043.8		0.0	255.3	0.085	21.7005	32380.9	72.9	131.2	32225.9	26803.19	12596.81
19	950.0	0.18	3.384	22212.9		0.0	255.3	0.085	21.7005	34177.3	72.9	131.2	34031.9	28399.19	13327.81
20	1000.0	0.18	3.564	23382.0	10210.7	0.0	255.3	0.085	21.7005	35973.7	72.9	131.2	35837.9	30005.19	14058.81
21	1050.0	0.335	3.899	24551.1		0.0	255.3	0.1	25.53	10092.3	72.9	244.2	9848.0	6598.18	3249.85
22	1100.0	0.335	4.234	25720.2		0.0	255.3	0.1	25.53	7389.6	72.9	244.2	7145.4	4787.42	2357.98
23	1150.0	0.335	4.569	26889.3		0.0	255.3	0.1	25.53	5578.8	72.9	244.2	5334.6	3574.20	1760.43
24	1200.0	0.335	4.904	28058.4	11949.3	0.0	255.3	0.1	25.53	16314.9	72.9	244.2	16070.7	10767.36	5303.33
25	1250.0	0.335	5.239	29227.5		0.0	255.3	0.1	25.53	11558.8	72.9	244.2	11314.6	7580.76	3733.81
26	1300.0	0.335	5.574	30396.6		0.0	255.3	0.1	25.53	8372.2	72.9	244.2	8128.0	5445.75	2682.23
27	1350.0	0.335	5.909	31565.7		0.0	255.3	0.1	25.53	6237.2	72.9	244.2	5993.0	4015.28	1977.68
28	1400.0	0.335	6.244	32734.8	13697.0	0.0	255.3	0.1	25.53	18503.8	72.9	244.2	18259.5	12233.89	6025.65
29	1450.0	0.335	6.579	33903.9		0.0	255.3	0.1	25.53	13025.3	72.9	244.2	12781.1	8563.34	4217.77
30	1500.0	0.335	6.914	35073.0		0.0	255.3	0.1	25.53	9354.8	72.9	244.2	9110.6	6104.07	3006.48
31	1550.0	0.335	7.249	36242.1		0.0	255.3	0.1	25.53	6895.5	72.9	244.2	6651.3	4456.36	2194.93
32	1600.0	0.335	7.584	37411.2	15444.8	0.0	255.3	0.1	25.53	20692.6	72.9	244.2	20448.4	13700.43	6747.97
33	1650.0	0.335	7.919	38580.3		0.0	255.3	0.1	25.53	14491.9	72.9	244.2	14247.6	9545.92	4701.72
34	1700.0	0.335	8.254	39749.4		0.0	255.3	0.1	25.53	10337.4	72.9	244.2	10093.1	6762.40	3330.74
35	1750.0	0.335	8.589	40918.5		0.0	255.3	0.1	25.53	7553.8	72.9	244.2	7309.6	4897.44	2412.17
36	1800.0	0.335	8.924	42087.6	17192.6	0.0	255.3	0.1	25.53	22881.5	72.9	244.2	22637.3	15166.97	7470.30
37	1850.0	0.335	9.259	43256.7		0.0	255.3	0.1	25.53	15958.4	72.9	244.2	15714.2	10528.50	5185.68
38	1900.0	0.335	9.594	44425.8		0.0	255.3	0.1	25.53	11319.9	72.9	244.2	11075.7	7420.73	3654.99
39	1950.0	0.335	9.929	45594.9		0.0	255.3	0.1	25.53	8212.2	72.9	244.2	7967.9	5338.52	2629.42
40	2000.0	0.335	10.264	46764.0	18940.4	0.0	255.3	0.1	25.53	25070.3	72.9	244.2	24826.1	16633.50	8192.62
41	2050.0	0.465	10.729	47933.1		0.0	255.3	0.185	47.2305	18097.6	72.9	339.0	17758.7	11998.30	5860.36
42	2100.0	0.465	11.194	49102.2		0.0	255.3	0.185	47.2305	13362.4	72.9	339.0	13023.5	8725.72	4297.74
43	2150.0	0.465	11.659	50271.3		0.0	255.3	0.185	47.2305	10189.9	72.9	339.0	9850.9	6600.09	3250.79
44	2200.0	0.465	12.124	51440.4	21601.5	0.0	255.3	0.185	47.2305	29665.8	72.9	339.0	29326.8	19648.93	9677.83
45	2250.0	0.465	12.589	52609.5		0.0	255.3	0.185	47.2305	21113.1	72.9	339.0	20774.1	13918.64	6855.45
46	2300.0	0.465	13.054	53778.6		0.0	255.3	0.185	47.2305	15382.8	72.9	339.0	15043.8	10079.35	4964.46
47	2350.0	0.465	13.519	54947.7		0.0	255.3	0.185	47.2305	11543.5	72.9	339.0	11204.5	7507.02	3697.49
48	2400.0	0.465	13.984	56116.8	25195.2	0.0	255.3	0.185	47.2305	34166.4	72.9	339.0	33827.4	22664.36	11163.04
49	2450.0	0.465	14.449	57285.9		0.0	255.3	0.185	47.2305	24128.5	72.9	339.0	23789.5	15938.98	7850.54
50	2500.0	0.465	14.914	58455.0		0.0	255.3	0.185	47.2305	17403.1	72.9	339.0	17064.1	11432.97	5631.17
51	2550.0	0.465	15.379	59624.1		0.0	255.3	0.185	47.2305	12897.1	72.9	339.0	12558.1	7572.56	3729.77
52	2600.0	0.465	15.844	60793.2	28374.5	0.0	255.3	0.185	47.2305	37411.2	72.9	339.0	37072.2	22354.56	11010.45
53	2650.0	0.465	16.309	61962.3		0.0	255.3	0.185	47.2305	23818.7	72.9	339.0	23479.7	14158.27	6973.48
54	2700.0	0.465	16.774	63131.4		0.0	255.3	0.185	47.2305	15622.4	72.9	339.0	15283.4	9215.91	4539.18
55	2750.0	0.465	17.239	64300.5		0.0	255.3	0.185	47.2305	10680.1	72.9	339.0	10341.1	6235.66	3071.30
56	2800.0	0.465	17.704	65469.6	25594.4	0.0	255.3	0.185	47.2305	33294.2	72.9	339.0	32955.2	19872.01	9787.70
57	2850.0	0.465	18.169	66638.7		0.0	255.3	0.185	47.2305	21336.2	72.9	339.0	20997.2	12661.29	6236.16
58	2900.0	0.465	18.634	67807.8		0.0	255.3	0.185	47.2305	14125.4	72.9	339.0	13786.5	8313.23	4094.58
59	2950.0	0.465	19.099	68976.9		0.0	255.3	0.185	47.2305	9777.4	72.9	339.0	9438.4	5691.35	2803.20
60	3000.0	0.465	19.564	70146.0	22921.6	0.0	255.3	0.185	47.2305	30077.1	72.9	339.0	29738.2	17932.10	8832.23
61	3050.0	0.77	20.334	71315.1		0.0	255.3	0.09	22.977	18644.4	72.9	561.3	18083.1	10904.09	5370.67
62	3100.0	0.77	21.104	72484.2		0.0	255.3	0.09	22.977	11616.4	72.9	561.3	11055.0	6666.19	3283.35
63	3150.0	0.77	21.874	73653.3		0.0	255.3	0.09	22.977	7378.5	72.9	561.3	6817.1	4110.74	2024.69
64	3200.0	0.77	22.644	74822.4	19510.9	0.0	255.3	0.09	22.977	24334.0	72.9	561.3	23772.6	14334.90	7060.47
65	3250.0	0.77	23.414	75991.5		0.0	255.3	0.09	22.977	15047.2	72.9	561.3	14485.9	8734.97	4302.30
66	3300.0	0.77	24.184	77160.6		0.0	255.3	0.09	22.977	9447.3	72.9	561.3	8885.9	5358.22	2639.12
67	3350.0	0.77	24.954	78329.7		0.0	255.3	0.09	22.977	6070.5	72.9	561.3	5509.2	3322.03	1636.22
68	3400.0	0.77	25.724	79498.8	15638.1	1044.5	255.3	0.09	22.977	20716.9	72.9	561.3	20155.6	12153.80	5986.20
69	3450.0	0.77	26.494	80667.9		0.0	255.3	0.09	22.977	12866.1	72.9	561.3	12304.8	7419.77	3654.51
70	3500.0	0.77	27.264	81837.0		0.0	255.3	0.09	22.977	8132.1	72.9	561.3	7570.7	4565.15	2248.51
71	3550.0	0.77	28.034	83006.1		0.0	255.3	0.09	22.977	5277.4	72.9	561.3	4716.1	2527.83	1245.05
72	3600.0	0.77	28.804	84175.2	1313										

Tableau A-2.2.2.3 Besoins en eau d'irrigation par unité (par système de cultures)

(Units: mm/dec)

Month	Decade	Days	Rice Paddy			Upland Cropping										Total			
			Rice A	Rice B	Total	Maize + Beans		Vegetable 1			Vegetable 2			Vegetable 3	Coffee				
			(Average)	(Average)	(Average)	Maize (Average)	Beans (Average)	Sub-total	Eggplant (Average)	Carrot (Average)	Cabbage (Average)	Sub-total	Tomato (Average)	Beans (Average)	Sub-total		Tomato Tree (Average)	(Average)	
Jan.	1st	10	0.0	1.4	1.4	7.9	0.0	0.0	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	16.8	53.5
	2nd	10	39.6	0.0	39.6	2.4	0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	16.8	40.7
	3rd	11	110.8	0.0	110.8	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	18.2	29.4
Feb.	1st	10	117.3	0.0	117.3	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	12.8	19.1
	2nd	10	83.0	0.0	83.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	11.8	22.4
	3rd	8	14.4	0.0	14.4	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.8	17.7
Mar.	1st	10	31.0	0.0	31.0	3.1	3.1	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	23.0	72.3
	2nd	10	36.0	0.0	36.0	11.1	11.1	28.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.5	27.7	103.1
	3rd	11	27.7	0.0	27.7	8.1	8.1	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	18.0	78.4
Apr.	1st	10	6.3	0.0	6.3	1.6	1.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	11.0
	2nd	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3rd	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
May	1st	10	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2nd	10	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3rd	11	9.8	0.0	9.8	6.0	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	8.3	23.5
Jun.	1st	10	11.5	0.0	11.5	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	10.8	30.8
	2nd	10	14.7	0.0	14.7	2.7	2.7	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	15.7	43.5
	3rd	10	14.1	0.1	14.1	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	11.8	42.5
Jul.	1st	10	8.4	38.4	46.9	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	8.9	34.3
	2nd	10	4.3	105.7	109.9	0.0	0.0	0.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	2.7	33.5
	3rd	11	0.0	127.4	127.4	0.0	0.0	0.0	32.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	13.9	78.2
Aug.	1st	10	0.0	112.4	112.4	0.0	0.0	0.0	49.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	31.2	135.5
	2nd	10	0.0	56.4	56.4	0.0	0.0	0.0	56.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	41.1	170.3
	3rd	11	0.0	59.3	59.3	0.0	0.0	0.0	58.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.2	49.8	195.9
Sep.	1st	10	0.0	33.6	33.6	0.0	0.0	0.0	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	30.3	102.0
	2nd	10	0.0	24.2	24.2	0.0	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	23.6	61.2
	3rd	10	0.0	33.2	33.2	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	32.7	82.8
Oct.	1st	10	0.0	48.4	48.4	12.2	0.0	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.2	46.9	146.5
	2nd	10	0.0	57.3	57.3	28.7	0.0	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.4	54.8	210.5
	3rd	11	0.0	44.3	44.3	27.3	0.0	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.4	41.6	161.0
Nov.	1st	10	0.0	11.5	11.5	5.9	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.3	26.7
	2nd	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3rd	10	0.0	1.1	1.1	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.6
Dec.	1st	10	0.0	12.7	12.7	15.9	0.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	14.9	56.7
	2nd	10	0.0	14.7	14.7	21.7	0.0	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	20.5	84.4
	3rd	11	0.0	10.4	10.4	20.5	0.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	16.5	83.5
Annual IWR (mm/dec.)			530.1	792.5	1,322.6	143.7	37.7	181.4	84.4	274.9	156.2	515.5	246.1	62.1	308.2	617.1	630.1	630.1	2,252.3
Max. IWR (mm/dec.)			117.3	127.4	127.4	28.7	11.1	28.7	28.8	58.8	30.5	58.8	50.4	15.7	50.4	54.8	55.1	55.1	210.5

Tableau A-2.2.2.4 Besoins nets en eau d'irrigation (par système de cultures)

Month/Season	Days	Net Irrigation Water Requirement (per Cropping Pattern)										Upland Cropping			Grand Total		
		Rice Paddy		Maize + Beans				Vegetable 1				Vegetable 2				Coffee	Total
		Rice A	Rice B	Maize	Beans	Sub-total	Eggplant	Carrot	Cabbage	Sub-total	Tomato	Beans	Sub-total	Vegetable 3			
(12%)	(35%)	(40%)	(20%)	(13%)	(5%)	(88%)	(10%)	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)				
Jan.	1st.	0.0	501.7	0.0	9,480.0	0.0	12,030.0	0.0	0.0	0.0	0.0	0.0	0.0	2,620.0	2,515.0	26,645.0	27,146.7
	2nd.	13,848.3	0.0	13,848.3	2,840.0	0.0	10,170.0	0.0	0.0	0.0	0.0	0.0	0.0	1,370.0	2,515.0	16,895.0	30,743.3
	3rd.	38,768.3	0.0	38,768.3	0.0	0.0	3,420.0	0.0	0.0	0.0	0.0	0.0	0.0	1,640.0	2,730.0	7,790.0	46,558.3
Feb.	1st.	41,043.3	0.0	41,043.3	0.0	0.0	1,350.0	0.0	0.0	0.0	0.0	0.0	0.0	1,200.0	1,920.0	4,470.0	45,513.3
	2nd.	29,038.3	0.0	29,038.3	0.0	0.0	2,040.0	0.0	0.0	0.0	0.0	0.0	0.0	2,170.0	1,770.0	5,960.0	35,018.3
	3rd.	5,040.0	0.0	5,040.0	0.0	0.0	1,290.0	0.0	0.0	0.0	0.0	0.0	0.0	2,310.0	1,170.0	4,770.0	9,810.0
Mar.	1st.	10,861.7	0.0	10,861.7	0.0	3,720.0	11,520.0	0.0	0.0	0.0	0.0	0.0	0.0	8,110.0	3,450.0	26,800.0	37,661.7
	2nd.	12,588.3	0.0	12,588.3	0.0	13,280.0	17,280.0	0.0	0.0	0.0	0.0	0.0	0.0	10,660.0	4,155.0	45,375.0	57,963.3
	3rd.	9,695.0	0.0	9,695.0	0.0	9,760.0	14,100.0	0.0	0.0	0.0	0.0	0.0	0.0	8,640.0	2,700.0	35,200.0	44,895.0
Apr.	1st.	2,205.0	0.0	2,205.0	0.0	1,960.0	1,620.0	0.0	0.0	0.0	0.0	0.0	0.0	2,010.0	0.0	5,590.0	7,795.0
	2nd.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3rd.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
May	1st.	151.7	0.0	151.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.7
	2nd.	315.0	0.0	315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.0
	3rd.	3,441.7	0.0	3,441.7	0.0	7,200.0	1,440.0	0.0	0.0	0.0	0.0	0.0	0.0	2,705.7	2,490.0	13,846.7	17,288.3
Jun.	1st.	4,013.3	0.0	4,013.3	0.0	6,160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,320.0	3,300.0	14,385.0	18,388.3
	2nd.	5,145.0	0.0	5,145.0	0.0	3,200.0	0.0	600.0	0.0	600.0	0.0	0.0	0.0	6,280.0	4,350.0	15,875.0	21,020.0
	3rd.	4,923.3	23.3	4,946.7	0.0	0.0	0.0	2,370.0	0.0	2,370.0	0.0	0.0	0.0	5,813.3	3,550.0	13,563.3	18,510.0
Jul.	1st.	2,951.7	13,451.7	16,403.3	0.0	0.0	0.0	4,260.0	0.0	4,260.0	0.0	0.0	0.0	3,560.0	1,730.0	11,435.0	27,838.3
	2nd.	1,493.3	36,983.3	38,476.7	0.0	0.0	0.0	7,680.0	0.0	7,680.0	0.0	0.0	0.0	1,440.0	800.0	21,700.0	50,566.7
	3rd.	0.0	44,590.0	44,590.0	0.0	0.0	0.0	19,260.0	0.0	19,260.0	0.0	0.0	0.0	733.3	4,170.0	28,718.3	73,308.3
Aug.	1st.	0.0	39,351.7	39,351.7	0.0	0.0	0.0	29,550.0	0.0	29,550.0	0.0	0.0	0.0	3,600.0	9,350.0	49,410.0	88,761.7
	2nd.	0.0	19,740.0	19,740.0	0.0	0.0	0.0	33,690.0	0.0	33,690.0	0.0	0.0	0.0	8,213.3	12,320.0	7,865.0	62,108.3
	3rd.	0.0	20,766.7	20,766.7	0.0	0.0	0.0	35,280.0	0.0	35,280.0	0.0	0.0	0.0	12,893.3	14,940.0	8,260.0	71,373.3
Sep.	1st.	0.0	11,760.0	11,760.0	0.0	0.0	0.0	18,900.0	0.0	18,900.0	0.0	0.0	0.0	4,440.0	9,100.0	4,360.0	36,800.0
	2nd.	0.0	8,481.7	8,481.7	0.0	0.0	0.0	8,640.0	0.0	8,640.0	0.0	0.0	0.0	1,946.7	7,070.0	2,750.0	20,406.7
	3rd.	0.0	11,608.3	11,608.3	0.0	0.0	0.0	4,680.0	0.0	4,680.0	0.0	0.0	0.0	6,866.7	9,810.0	3,775.0	25,131.7
Oct.	1st.	0.0	16,940.0	16,940.0	0.0	14,640.0	0.0	6,990.0	0.0	6,990.0	0.0	0.0	0.0	14,880.0	14,070.0	5,775.0	56,355.0
	2nd.	0.0	20,055.0	20,055.0	0.0	34,400.0	0.0	18,300.0	0.0	18,300.0	0.0	0.0	0.0	20,160.0	16,440.0	6,925.0	96,225.0
	3rd.	0.0	15,516.7	15,516.7	0.0	32,760.0	0.0	11,220.0	0.0	11,220.0	0.0	0.0	0.0	16,173.3	12,470.0	4,945.0	77,568.3
Nov.	1st.	0.0	4,013.3	4,013.3	0.0	7,120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,600.0	2,780.0	370.0	13,870.0
	2nd.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3rd.	0.0	373.3	373.3	0.0	1,480.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	1,580.0	1,953.3
Dec.	1st.	0.0	4,456.7	4,456.7	0.0	19,080.0	0.0	6,150.0	0.0	6,150.0	0.0	0.0	0.0	2,600.0	4,460.0	1,370.0	33,560.0
	2nd.	0.0	5,133.3	5,133.3	0.0	26,040.0	0.0	11,250.0	0.0	11,250.0	0.0	0.0	0.0	2,533.3	6,140.0	2,570.0	48,533.3
	3rd.	0.0	3,628.3	3,628.3	0.0	24,600.0	0.0	14,190.0	0.0	14,190.0	0.0	0.0	0.0	520.0	4,950.0	3,230.0	47,490.0
Annual IWR (m ³ /yr.)		185,523.3	277,375.0	462,898.3		45,280.0	217,720.0	50,640.0	164,910.0	93,720.0	309,270.0	98,426.7	24,653.3	123,260.0	185,120.0	94,520.0	929,910.0
Max IWR (m ³ /dec.)		41,043.3	44,590.0	44,590.0		13,280.0	34,400.0	17,280.0	35,280.0	18,300.0	35,280.0	20,160.0	6,280.0	20,160.0	16,440.0	8,260.0	116,280.0

Legend of Table

Crop Combination	
Crop	Total
Crop Acreage (ha)	
(Crop Acreage (%))	

Notes
 *1) Net Irrigation Water Requirement (m³/dec) = Unit Irrigation Water Requirement (mm/dec) / 1,000 (mm/m) * Cropping Acreage (ha) * 10,000 (m³/ha)

Tableau A-2.2.2.5(1) Besoins bruts en eau d'irrigation (par système de cultures)

Cas-1 : Coefficient de la superficie mouillée = 40%

Month	Days	Rice Paddy			Upland Cropping												Grand Total			
		Rice A	Rice B	Total	Maize + Beans				Vegetable 1				Vegetable 2					Vegetable 3	Coffee	Total
		35.0 ha (12%)			Maize	Beans	Sub-total	Eggplant	Carrot	Cabbage	Sub-total	Tomato	Beans	Sub-total	Tomato Tree	Coffee		Total		
Jan.	1st	0.0	501.7	501.7	4,461.2	0.0	0.0	5,061.2	5,661.2	0.0	0.0	0.0	0.0	1,232.9	1,183.5	12,536.8	13,040.5			
	2nd	13,848.3	0.0	13,848.3	1,336.5	0.0	4,785.9	4,785.9	0.0	0.0	0.0	0.0	0.0	644.7	1,183.5	7,950.6	21,798.9			
	3rd	38,768.3	0.0	38,768.3	0.0	0.0	1,609.4	1,609.4	0.0	0.0	0.0	0.0	0.0	771.8	1,284.7	3,665.9	42,434.2			
Feb.	1st	41,043.3	0.0	41,043.3	0.0	0.0	635.3	0.0	0.0	0.0	0.0	0.0	0.0	564.7	903.5	2,103.5	43,146.9			
	2nd	29,038.3	0.0	29,038.3	0.0	0.0	960.0	0.0	0.0	960.0	0.0	0.0	0.0	1,021.2	832.9	2,814.1	31,852.5			
	3rd	5,040.0	0.0	5,040.0	0.0	0.0	607.1	0.0	0.0	607.1	0.0	0.0	0.0	1,087.1	550.6	2,244.7	7,284.7			
Mar.	1st	10,861.7	0.0	10,861.7	0.0	1,750.6	5,421.2	0.0	0.0	5,421.2	0.0	0.0	0.0	3,816.5	1,623.5	12,611.8	23,473.4			
	2nd	12,588.3	0.0	12,588.3	0.0	6,249.4	8,131.8	0.0	0.0	8,131.8	0.0	0.0	0.0	5,016.5	1,955.3	21,352.9	33,941.3			
	3rd	9,695.0	0.0	9,695.0	0.0	4,592.9	6,635.3	0.0	0.0	6,635.3	0.0	0.0	0.0	4,065.9	1,270.6	16,564.7	26,259.7			
Apr.	1st	2,205.0	0.0	2,205.0	0.0	922.4	762.4	0.0	0.0	762.4	0.0	0.0	0.0	945.9	0.0	2,630.6	4,835.6			
	2nd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	3rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
May	1st	151.7	0.0	151.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.7			
	2nd	315.0	0.0	315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.0			
	3rd	3,441.7	0.0	3,441.7	0.0	3,388.2	677.6	0.0	0.0	677.6	0.0	1,273.7	1,273.7	1,171.8	4.7	6,516.1	9,957.7			
Jun.	1st	4,013.3	0.0	4,013.3	0.0	2,898.8	0.0	0.0	0.0	0.0	0.0	2,032.9	2,032.9	1,592.9	270.6	6,755.3	10,768.6			
	2nd	5,145.0	0.0	5,145.0	0.0	1,505.9	0.0	282.4	0.0	282.4	0.0	2,955.3	2,955.3	2,047.1	680.0	7,470.6	12,615.6			
	3rd	4,923.3	23.3	4,946.7	0.0	0.0	0.0	1,115.3	0.0	1,115.3	0.0	2,735.7	2,735.7	1,670.6	861.2	6,382.7	11,329.4			
Jul.	1st	2,951.7	13,451.7	16,403.3	0.0	0.0	0.0	2,004.7	0.0	2,004.7	0.0	1,675.3	1,675.3	814.1	887.1	5,381.2	21,784.5			
	2nd	1,493.3	36,983.3	38,476.7	0.0	0.0	0.0	3,614.1	0.0	3,614.1	0.0	677.6	677.6	376.5	1,021.2	5,689.4	44,166.1			
	3rd	0.0	44,590.0	44,590.0	0.0	0.0	0.0	9,063.5	0.0	9,063.5	0.0	345.1	345.1	1,962.4	2,143.5	13,514.5	58,104.5			
Aug.	1st	0.0	39,351.7	39,351.7	0.0	0.0	0.0	13,905.9	0.0	13,905.9	1,694.1	0.0	1,694.1	4,400.0	3,251.8	23,251.8	62,603.4			
	2nd	0.0	19,740.0	19,740.0	0.0	0.0	0.0	15,854.1	0.0	15,854.1	3,865.1	0.0	3,865.1	5,797.6	3,710.6	29,227.5	48,967.5			
	3rd	0.0	20,766.7	20,766.7	0.0	0.0	0.0	16,602.4	0.0	16,602.4	6,067.5	0.0	6,067.5	7,030.6	3,887.1	33,587.5	54,354.1			
Sep.	1st	0.0	11,760.0	11,760.0	0.0	0.0	0.0	8,894.1	0.0	8,894.1	2,089.4	0.0	2,089.4	4,282.4	2,051.8	17,317.6	29,077.6			
	2nd	0.0	8,481.7	8,481.7	0.0	0.0	0.0	4,065.9	0.0	4,065.9	916.1	0.0	916.1	3,327.1	1,294.1	9,603.1	18,084.8			
	3rd	0.0	11,608.3	11,608.3	0.0	0.0	0.0	2,202.4	0.0	2,202.4	3,231.4	0.0	3,231.4	4,616.5	1,776.5	11,826.7	23,435.0			
Oct.	1st	0.0	16,940.0	16,940.0	6,889.4	0.0	6,889.4	0.0	3,289.4	3,289.4	7,002.4	0.0	7,002.4	6,621.2	2,717.6	26,520.0	43,460.0			
	2nd	0.0	20,055.0	20,055.0	16,188.2	0.0	16,188.2	0.0	8,611.8	8,611.8	9,487.1	0.0	9,487.1	7,736.5	3,258.8	45,283.4	65,337.4			
	3rd	0.0	15,516.7	15,516.7	15,416.5	0.0	15,416.5	0.0	5,280.0	5,280.0	7,611.0	0.0	7,611.0	5,868.2	2,327.1	36,502.7	52,019.4			
Nov.	1st	0.0	4,013.3	4,013.3	3,350.6	0.0	3,350.6	0.0	0.0	0.0	1,694.1	0.0	1,694.1	1,308.2	174.1	6,527.1	10,540.4			
	2nd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
	3rd	0.0	373.3	373.3	696.5	0.0	696.5	0.0	0.0	0.0	0.0	0.0	0.0	47.1	0.0	743.5	1,116.9			
Dec.	1st	0.0	4,456.7	4,456.7	8,978.8	0.0	8,978.8	0.0	2,894.1	2,894.1	1,223.5	0.0	1,223.5	2,098.8	644.7	15,840.0	20,296.7			
	2nd	0.0	5,133.3	5,133.3	12,254.1	0.0	12,254.1	0.0	5,294.1	5,294.1	1,192.2	0.0	1,192.2	2,889.4	1,209.4	22,839.2	27,972.5			
	3rd	0.0	3,628.3	3,628.3	11,576.5	0.0	11,576.5	0.0	6,677.6	6,677.6	244.7	0.0	244.7	2,329.4	1,520.0	22,348.2	25,976.6			
Annual IWR (m ³ /yr.)		185,623.3	277,375.0	462,998.3	87,148.2	21,308.2	102,456.5	23,830.6	77,604.7	44,103.5	145,538.8	46,318.4	11,695.7	58,074.1	87,115.3	44,480.0	437,604.7	900,503.0		
Max IWR (m ³ /dec.)		47,043.3	44,590.0	44,590.0	76,168.2	6,249.4	16,188.2	8,131.8	16,602.4	8,611.8	16,602.4	9,487.1	2,955.3	9,487.1	7,736.5	3,687.1	45,282.4	65,337.4		

Notes
 1) Gross Irrigation Water Requirement (m³/dec) = Net Irrigation Water Requirement (m³/dec) / Irrigation Efficiency (%) * Wet Area Coefficient (%)
 2) Irrigation Efficiency : Rice : Upland Cropping
 3) Wet Area Coefficient : Rice : Upland Cropping

Legend of Table
 Crop Combination : Crop : Crop : Total
 Crop Acreage (ha) : Crop Acreage (%) : Crop Acreage (%)

Tableau A-2.2.5(2) Besoins bruts en eau d'irrigation (par système de cultures)

Cas-2 : Coefficient de la superficie mouillée = 50%

Month	Decade	Days	Rice Paddy			Upland Cropping												Grand Total								
			Rice A	Rice B	Total	Maize + Beans	Vegetable 1	Vegetable 2	Vegetable 3	Coffee	Total															
			35.0 ha (12%)			120.0 ha (40%)			60.0 ha (20%)			40.0 ha (13%)			30.0 ha (10%)			15.0 ha (5%)			265.0 ha (88%)			300.0 ha (100%)		
Jan.	1st.	10	0.0	501.7	501.7	5,576.5	0.0	5,576.5	0.0	7,076.5	7,076.5	0.0	0.0	0.0	1,541.2	1,479.4	15,673.5	16,175.2								
	2nd.	10	13,848.3	0.0	13,848.3	1,670.6	0.0	1,670.6	0.0	5,982.4	5,982.4	0.0	0.0	0.0	805.9	1,479.4	9,938.2	23,786.6								
	3rd.	11	38,768.3	0.0	38,768.3	0.0	0.0	0.0	2,011.8	2,011.8	0.0	0.0	0.0	964.7	1,605.9	4,582.4	43,350.7									
Feb.	1st.	10	41,043.3	0.0	41,043.3	0.0	0.0	794.1	0.0	0.0	794.1	0.0	0.0	705.9	1,129.4	2,629.4	43,672.7									
	2nd.	10	29,038.3	0.0	29,038.3	0.0	0.0	1,200.0	0.0	1,200.0	0.0	0.0	0.0	1,276.5	1,041.2	3,517.6	32,546.0									
	3rd.	8	5,040.0	0.0	5,040.0	0.0	0.0	758.8	0.0	758.8	0.0	0.0	0.0	1,358.8	688.2	2,805.9	7,845.9									
Mar.	1st.	10	10,861.7	0.0	10,861.7	0.0	2,188.2	6,776.5	0.0	6,776.5	0.0	0.0	0.0	4,770.6	2,029.4	15,764.7	26,626.4									
	2nd.	10	12,588.3	0.0	12,588.3	0.0	7,811.8	10,164.7	0.0	10,164.7	0.0	0.0	0.0	6,270.6	2,444.1	26,591.2	39,279.5									
	3rd.	11	9,695.0	0.0	9,695.0	0.0	5,741.2	8,294.1	0.0	8,294.1	0.0	0.0	0.0	5,082.4	1,588.2	20,705.9	30,400.9									
Apr.	1st.	10	2,205.0	0.0	2,205.0	0.0	1,152.9	952.9	0.0	952.9	0.0	0.0	0.0	1,182.4	0.0	3,288.2	5,493.2									
	2nd.	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
	3rd.	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
May	1st.	10	151.7	0.0	151.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.7									
	2nd.	10	315.0	0.0	315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.0									
	3rd.	11	3,441.7	0.0	3,441.7	0.0	4,235.3	847.1	0.0	847.1	0.0	1,592.2	1,592.2	1,464.7	5.9	8,145.1	11,586.8									
Jun.	1st.	10	4,013.3	0.0	4,013.3	0.0	3,623.5	0.0	0.0	0.0	0.0	2,541.2	2,541.2	1,941.2	338.2	8,444.1	12,457.9									
	2nd.	10	5,145.0	0.0	5,145.0	0.0	1,882.4	0.0	352.9	0.0	352.9	0.0	3,694.1	2,588.8	850.0	9,338.2	14,483.2									
	3rd.	10	4,923.3	23.3	4,946.7	0.0	0.0	0.0	1,394.1	0.0	1,394.1	0.0	3,419.6	3,419.6	2,088.2	1,076.5	7,978.4									
Jul.	1st.	10	2,951.7	13,451.7	16,403.3	0.0	0.0	0.0	2,505.9	0.0	2,505.9	0.0	2,094.1	1,017.6	1,108.8	6,726.5	23,129.8									
	2nd.	10	1,493.3	36,983.3	38,476.7	0.0	0.0	0.0	4,517.6	0.0	4,517.6	0.0	847.1	847.1	470.6	12,765.5	45,588.4									
	3rd.	11	0.0	44,590.0	44,590.0	0.0	0.0	0.0	11,329.4	0.0	11,329.4	0.0	431.4	431.4	2,452.9	26,794.4	61,483.1									
Aug.	1st.	10	0.0	39,351.7	39,351.7	0.0	0.0	0.0	17,382.4	0.0	17,382.4	2,117.6	0.0	2,117.6	5,500.0	4,064.7	29,064.7									
	2nd.	10	0.0	19,740.0	19,740.0	0.0	0.0	0.0	19,817.6	0.0	19,817.6	4,831.4	0.0	4,831.4	7,247.1	4,638.2	36,534.3									
	3rd.	11	0.0	20,766.7	20,766.7	0.0	0.0	0.0	20,752.9	0.0	20,752.9	7,584.3	0.0	7,584.3	8,788.2	4,858.8	41,984.3									
Sep.	1st.	10	0.0	11,760.0	11,760.0	0.0	0.0	0.0	11,117.6	0.0	11,117.6	2,611.8	0.0	2,611.8	5,352.9	2,564.7	21,647.1									
	2nd.	10	0.0	8,481.7	8,481.7	0.0	0.0	0.0	5,082.4	0.0	5,082.4	1,145.1	0.0	1,145.1	4,158.8	1,617.6	12,003.9									
	3rd.	10	0.0	11,608.3	11,608.3	0.0	0.0	0.0	2,752.9	0.0	2,752.9	4,039.2	0.0	4,039.2	5,770.6	2,220.6	14,783.3									
Oct.	1st.	10	0.0	16,940.0	16,940.0	8,611.8	0.0	8,611.8	0.0	4,111.8	4,111.8	8,752.9	0.0	8,752.9	8,276.5	3,397.1	33,150.0									
	2nd.	10	0.0	20,055.0	20,055.0	20,235.3	0.0	20,235.3	0.0	10,764.7	10,764.7	11,858.8	0.0	11,858.8	9,670.6	4,073.5	56,602.9									
	3rd.	11	0.0	15,516.7	15,516.7	19,270.6	0.0	19,270.6	0.0	6,600.0	6,600.0	9,513.7	0.0	9,513.7	7,335.3	2,908.8	45,628.4									
Nov.	1st.	10	0.0	4,013.3	4,013.3	4,186.2	0.0	4,186.2	0.0	0.0	0.0	2,117.6	0.0	2,117.6	1,635.3	217.6	8,158.8									
	2nd.	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
	3rd.	10	0.0	373.3	373.3	870.6	0.0	870.6	0.0	0.0	0.0	0.0	0.0	58.8	0.0	929.4	1,302.7									
Dec.	1st.	10	0.0	4,456.7	4,456.7	11,223.5	0.0	11,223.5	0.0	3,617.6	3,617.6	1,529.4	0.0	1,529.4	2,623.5	805.9	19,800.0									
	2nd.	10	0.0	5,133.3	5,133.3	15,317.6	0.0	15,317.6	0.0	6,617.6	6,617.6	1,490.2	0.0	1,490.2	3,611.8	1,511.8	28,549.0									
	3rd.	11	0.0	3,628.3	3,628.3	14,470.6	0.0	14,470.6	0.0	8,347.1	8,347.1	305.9	0.0	305.9	2,911.8	1,900.0	27,935.3									
Annual IWR (m ³ /dec.)			185,523.3	277,375.0	462,898.3	101,435.3	26,635.3	128,070.6	29,780.2	97,005.9	55,129.4	181,923.5	57,698.0	14,619.6	108,894.1	55,600.0	547,005.9									
Max IWR (m ³ /dec.)			47,043.3	44,590.0	44,590.0	20,235.3	7,811.8	20,235.3	10,164.7	20,752.9	10,764.7	20,752.9	11,858.8	3,694.1	11,858.8	4,858.8	56,602.9									

Notes

*) Gross Irrigation Water Requirement (m³/dec) = Net Irrigation Water Requirement (m³/dec) / Irrigation Efficiency (%) * Wet Area Coefficient (%)

**) Irrigation Efficiency : Rice : Upland Cropping

: Upland Cropping

: Rice : Upland Cropping

: Upland Cropping

: Upland Cropping

Legend of Table

Crop Combination	
Crop	Crop
Crop Acreage (ha)	
(Crop Acreage (%))	

100% (= 95% (Conveyance Efficiency, "Unlined Canal" FAC) * 90% (Field Application Efficiency, "Drip Irrigation" FAC))

85% (= "Surface Irrigation", JICA)

100% (= "Micro Irrigation", JICA)

50%

Tableau A-2.2.2.5(3) Besoins bruts en eau d'irrigation (par système de cultures)

Cas-3 : Coefficient de la superficie mouillée = 60%

(Unit: m³/dec)

Month	Decade	Days	Rice Paddy			Upland Cropping										Total	Grand Total		
			Rice Paddy			Vegetable 1					Vegetable 2							Vegetable 3	Coffee
			Rice A	Rice B	Total	Maize	Beans	Sub-total	Eggplant	Carrot	Cabbage	Sub-total	Tomato	Beans	Sub-total				
35.0 ha (12%)			60.0 ha (20%)					40.0 ha (13%)					30.0 ha (10%)	15.0 ha (5%)	265.0 ha (88%)	300.0 ha (100%)			
Jan.	1st	10	0.0	501.7	501.7	6,691.8	0.0	6,691.8	0.0	8,491.8	8,491.8	0.0	0.0	0.0	1,849.4	1,775.3	18,806.2	19,309.9	
	2nd	10	13,848.3	0.0	13,848.3	2,004.7	0.0	2,004.7	0.0	7,178.8	7,178.8	0.0	0.0	0.0	967.1	1,775.3	11,925.9	25,774.2	
	3rd	11	38,768.3	0.0	38,768.3	0.0	0.0	0.0	2,414.1	2,414.1	0.0	0.0	0.0	0.0	1,157.6	1,927.1	5,498.8	44,267.2	
Feb.	1st	10	41,043.3	0.0	41,043.3	0.0	0.0	0.0	952.9	0.0	952.9	0.0	0.0	0.0	847.1	1,355.3	3,155.3	44,198.6	
	2nd	10	29,038.3	0.0	29,038.3	0.0	0.0	0.0	1,440.0	0.0	1,440.0	0.0	0.0	0.0	1,531.8	1,249.4	4,221.2	33,259.5	
	3rd	8	5,040.0	0.0	5,040.0	0.0	0.0	0.0	910.6	0.0	910.6	0.0	0.0	0.0	1,630.6	825.9	3,367.1	8,407.1	
Mar.	1st	10	10,851.7	0.0	10,851.7	0.0	2,625.9	2,625.9	8,131.8	0.0	8,131.8	0.0	0.0	0.0	5,724.7	2,435.3	18,917.6	29,779.3	
	2nd	10	12,588.3	0.0	12,588.3	0.0	9,374.1	9,374.1	12,197.6	0.0	12,197.6	0.0	0.0	0.0	7,524.7	2,932.9	32,029.4	44,617.7	
	3rd	11	9,595.0	0.0	9,595.0	0.0	6,889.4	6,889.4	9,952.9	0.0	9,952.9	0.0	0.0	0.0	6,098.8	1,905.9	24,847.1	34,542.1	
Apr.	1st	10	2,205.0	0.0	2,205.0	0.0	1,383.5	1,383.5	1,143.5	0.0	1,143.5	0.0	0.0	0.0	1,418.8	0.0	3,945.9	6,150.9	
	2nd	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	3rd	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
May	1st	10	151.7	0.0	151.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.7	
	2nd	10	315.0	0.0	315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.0	
	3rd	11	3,441.7	0.0	3,441.7	0.0	5,082.4	5,082.4	1,016.5	0.0	1,016.5	0.0	1,910.6	1,910.6	1,757.6	7.1	9,774.1	13,215.8	
Jun.	1st	10	4,013.3	0.0	4,013.3	0.0	4,348.2	4,348.2	0.0	0.0	0.0	0.0	3,049.4	3,049.4	2,329.4	405.9	10,132.9	14,146.3	
	2nd	10	5,145.0	0.0	5,145.0	0.0	2,258.8	2,258.8	0.0	423.5	0.0	423.5	0.0	4,432.9	4,432.9	3,076.1	11,205.9	16,350.9	
	3rd	10	4,923.3	23.3	4,946.7	0.0	0.0	0.0	1,672.9	0.0	1,672.9	0.0	4,103.5	4,103.5	2,505.9	1,291.8	9,574.1	14,520.8	
Jul.	1st	10	2,951.7	13,451.7	16,403.3	0.0	0.0	0.0	3,007.1	0.0	3,007.1	0.0	2,512.9	2,512.9	1,221.2	1,330.6	8,071.8	24,475.1	
	2nd	10	1,493.3	36,983.3	38,476.7	0.0	0.0	0.0	5,421.2	0.0	5,421.2	0.0	1,016.5	1,016.5	564.7	1,531.8	8,534.1	47,010.8	
	3rd	11	0.0	44,590.0	44,590.0	0.0	0.0	0.0	13,595.3	0.0	13,595.3	0.0	517.6	517.6	2,943.5	3,215.3	20,271.8	64,861.8	
Aug.	1st	10	0.0	39,351.7	39,351.7	0.0	0.0	0.0	20,858.8	0.0	20,858.8	2,541.2	0.0	2,541.2	6,600.0	4,877.6	34,877.6	74,229.3	
	2nd	10	0.0	19,740.0	19,740.0	0.0	0.0	0.0	23,781.2	0.0	23,781.2	5,797.6	0.0	5,797.6	8,696.5	5,565.9	43,841.2	63,581.2	
	3rd	11	0.0	20,766.7	20,766.7	0.0	0.0	0.0	24,903.5	0.0	24,903.5	9,101.2	0.0	9,101.2	10,545.9	5,830.6	50,381.2	71,147.8	
Sep.	1st	10	0.0	11,760.0	11,760.0	0.0	0.0	0.0	13,341.2	0.0	13,341.2	3,134.1	0.0	3,134.1	6,423.5	3,077.6	25,976.5	37,736.5	
	2nd	10	0.0	8,481.7	8,481.7	0.0	0.0	0.0	6,098.8	1,374.1	7,472.9	0.0	1,374.1	1,374.1	4,990.6	1,941.2	14,404.7	22,886.4	
	3rd	10	0.0	11,608.3	11,608.3	0.0	0.0	0.0	3,303.5	0.0	3,303.5	4,847.1	0.0	4,847.1	6,924.7	2,664.7	17,740.0	29,348.3	
Oct.	1st	10	0.0	16,940.0	16,940.0	10,334.1	0.0	10,334.1	0.0	4,934.1	4,934.1	10,503.5	0.0	10,503.5	9,931.8	4,076.5	39,780.0	56,720.0	
	2nd	10	0.0	20,055.0	20,055.0	24,282.4	0.0	24,282.4	0.0	12,917.6	12,917.6	14,230.6	0.0	14,230.6	11,604.7	4,888.2	67,923.5	87,978.5	
	3rd	11	0.0	15,516.7	15,516.7	23,124.7	0.0	23,124.7	0.0	7,920.0	7,920.0	11,416.5	0.0	11,416.5	8,802.4	3,490.6	54,754.1	70,270.8	
Nov.	1st	10	0.0	4,013.3	4,013.3	5,025.9	0.0	5,025.9	0.0	0.0	0.0	2,541.2	0.0	2,541.2	1,962.4	261.2	9,790.6	13,803.9	
	2nd	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	3rd	10	0.0	373.3	373.3	1,044.7	0.0	1,044.7	0.0	0.0	0.0	0.0	0.0	0.0	70.6	0.0	1,115.3	1,488.6	
Dec.	1st	10	0.0	4,456.7	4,456.7	13,468.2	0.0	13,468.2	0.0	4,341.2	4,341.2	1,835.3	0.0	1,835.3	3,148.2	967.1	23,760.0	28,216.7	
	2nd	10	0.0	5,133.3	5,133.3	18,381.2	0.0	18,381.2	0.0	7,941.2	7,941.2	1,788.2	0.0	1,788.2	4,334.1	1,814.1	34,258.8	39,392.2	
	3rd	11	0.0	3,628.3	3,628.3	17,354.7	0.0	17,354.7	0.0	10,016.5	10,016.5	367.1	0.0	367.1	3,494.1	2,280.0	33,522.4	37,150.7	
Annual IWR (m ³ /yr.)			185,523.3	277,375.0	462,898.3	121,722.4	31,962.4	153,684.7	35,745.9	116,407.1	66,155.3	218,308.2	69,477.6	17,543.5	87,021.2	130,672.9	66,720.0	656,407.1	1,119,305.4
Max IWR (m ³ /dec.)			47,043.3	44,590.0	44,590.0	24,282.4	9,374.1	24,282.4	12,197.6	24,903.5	12,917.6	24,903.5	14,230.6	4,432.9	14,230.6	11,604.7	5,830.6	67,923.5	87,978.5

Legend of Table

Crop	Crop	Total
Crop	Crop	Crop
		Crop Acreage (ha)
		(Crop Acreage (%))

Notes
 *1) Gross Irrigation Water Requirement (m³/dec) = Net Irrigation Water Requirement (m³/dec) / Irrigation Efficiency (%) * Wet Area Coefficient (%)
 *2) Irrigation Efficiency : Rice : 100%
 : Upland Cropping : 85% (= 95% (Conveyance Efficiency, "Lined Canal" FAO) * 90% (Field Application Efficiency, "Drip Irrigation" FAO))
 : Rice : 100% (= "Surface Irrigation", JICA)
 : Upland Cropping : 60% (= "Micro Irrigation", JICA)

Tableau A-2.2.2.5(4) Besoins bruts en eau d'irrigation (par système de cultures)

Cas-4 : Coefficient de la superficie mouillée = 70%

Month	Days	Rice Paddy			Upland Cropping										Grand Total			
		Rice A		Rice B	Maize + Beans		Vegetable 1		Vegetable 2		Vegetable 3		Coffee	Total				
		1st	2nd	3rd	Maize	Beans	Eggplant	Carrot	Cabbage	Sub-total	Tomato	Beans				Sub-total	Tomato Tree	
35.0 ha (12%)			120.0 ha (40%)		60.0 ha (20%)		40.0 ha (13%)		30.0 ha (10%)		15.0 ha (5%)		265.0 ha (88%)					
Jan.	1st	0.0	0.0	501.7	7,807.1	0.0	0.0	0.0	0.0	9,907.1	9,907.1	0.0	0.0	2,157.6	2,071.2	13,942.9	22,444.6	
	2nd	13,848.3	0.0	13,848.3	2,338.8	0.0	0.0	8,375.3	8,375.3	0.0	0.0	0.0	0.0	1,128.2	2,071.2	31,913.5	27,761.9	
	3rd	38,768.3	0.0	38,768.3	0.0	0.0	0.0	2,816.5	2,816.5	0.0	0.0	0.0	0.0	1,350.6	2,248.2	6,415.3	45,183.6	
Feb.	1st	41,043.3	0.0	41,043.3	0.0	0.0	0.0	1,111.8	0.0	1,111.8	0.0	0.0	0.0	988.2	1,581.2	44,724.5	33,963.0	
	2nd	29,038.3	0.0	29,038.3	0.0	0.0	0.0	1,680.0	0.0	1,680.0	0.0	0.0	0.0	1,787.1	1,457.6	4,924.7	33,963.0	
	3rd	5,040.0	0.0	5,040.0	0.0	0.0	0.0	1,062.4	0.0	1,062.4	0.0	0.0	0.0	1,902.4	963.5	3,928.2	8,968.2	
Mar.	1st	10,861.7	0.0	10,861.7	0.0	3,063.5	9,487.1	0.0	9,487.1	0.0	0.0	0.0	0.0	6,778.8	2,841.2	22,070.6	32,932.3	
	2nd	12,588.3	0.0	12,588.3	0.0	10,936.5	14,230.6	0.0	14,230.6	0.0	0.0	0.0	0.0	8,778.8	3,421.8	37,367.6	49,956.0	
	3rd	9,695.0	0.0	9,695.0	0.0	8,037.6	11,611.8	0.0	11,611.8	0.0	0.0	0.0	0.0	7,115.3	2,223.5	28,988.2	38,683.2	
Apr.	1st	2,205.0	0.0	2,205.0	0.0	1,614.1	1,334.1	0.0	1,334.1	0.0	0.0	0.0	0.0	1,653.3	0.0	4,603.5	6,808.5	
	2nd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	3rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
May	1st	151.7	0.0	151.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.7	
	2nd	315.0	0.0	315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.0	
	3rd	3,441.7	0.0	3,441.7	0.0	5,929.4	5,929.4	0.0	1,185.9	0.0	1,185.9	0.0	0.0	2,229.0	2,229.0	11,403.1	14,844.8	
Jun.	1st	4,013.3	0.0	4,013.3	0.0	5,072.9	5,072.9	0.0	0.0	0.0	0.0	0.0	0.0	3,557.6	2,717.6	473.5	11,821.8	
	2nd	5,145.0	0.0	5,145.0	0.0	2,635.3	2,635.3	0.0	494.1	0.0	494.1	0.0	0.0	5,171.8	3,582.4	1,190.0	18,218.5	
	3rd	4,923.3	23.3	4,946.7	0.0	0.0	0.0	1,951.8	0.0	1,951.8	0.0	0.0	0.0	4,787.5	4,787.5	11,169.8	16,116.5	
Jul.	1st	2,951.7	13,451.7	16,403.3	0.0	0.0	0.0	3,508.2	0.0	3,508.2	0.0	0.0	0.0	2,931.8	1,424.7	1,552.4	25,820.4	
	2nd	1,493.3	36,983.3	38,476.7	0.0	0.0	0.0	6,324.7	0.0	6,324.7	0.0	0.0	0.0	1,185.9	1,185.9	9,956.5	48,433.1	
	3rd	0.0	44,590.0	44,590.0	0.0	0.0	0.0	15,861.2	0.0	15,861.2	0.0	0.0	0.0	603.9	603.9	23,650.4	68,240.4	
Aug.	1st	0.0	39,351.7	39,351.7	0.0	0.0	0.0	24,335.3	0.0	24,335.3	2,964.7	0.0	2,964.7	7,700.0	5,690.6	40,690.6	80,042.3	
	2nd	0.0	19,740.0	19,740.0	0.0	0.0	0.0	27,744.7	0.0	27,744.7	6,763.9	0.0	6,763.9	10,145.9	6,493.5	51,148.0	70,888.0	
	3rd	0.0	20,766.7	20,766.7	0.0	0.0	0.0	29,054.1	0.0	29,054.1	10,618.0	0.0	10,618.0	12,303.5	6,802.4	58,778.0	79,544.7	
Sep.	1st	0.0	11,760.0	11,760.0	0.0	0.0	0.0	15,564.7	0.0	15,564.7	3,656.5	0.0	3,656.5	7,494.1	3,590.6	30,305.9	42,065.9	
	2nd	0.0	8,481.7	8,481.7	0.0	0.0	0.0	7,115.3	0.0	7,115.3	1,603.1	0.0	1,603.1	5,822.4	2,264.7	16,805.5	25,287.2	
	3rd	0.0	11,608.3	11,608.3	0.0	0.0	0.0	3,854.1	0.0	3,854.1	5,654.9	0.0	5,654.9	8,078.8	3,108.8	20,696.7	32,305.0	
Oct.	1st	0.0	16,940.0	16,940.0	0.0	12,056.5	0.0	5,756.5	0.0	12,254.1	11,587.1	0.0	12,254.1	4,755.9	4,755.9	46,410.0	63,350.0	
	2nd	0.0	20,055.0	20,055.0	0.0	28,329.4	0.0	15,070.6	0.0	16,602.4	13,538.8	0.0	16,602.4	5,702.9	79,244.1	99,299.1	99,299.1	
	3rd	0.0	15,516.7	15,516.7	0.0	26,978.8	0.0	9,240.0	0.0	13,319.2	10,269.4	0.0	13,319.2	4,072.9	63,879.8	79,396.5	79,396.5	
Nov.	1st	0.0	4,013.3	4,013.3	0.0	5,863.5	0.0	0.0	0.0	2,964.7	2,289.4	0.0	2,964.7	304.7	11,422.4	15,435.7	15,435.7	
	2nd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	3rd	0.0	373.3	373.3	0.0	1,218.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.4	0.0	1,301.2	1,674.5	
Dec.	1st	0.0	4,456.7	4,456.7	0.0	15,712.9	0.0	5,064.7	0.0	2,141.2	3,672.9	0.0	2,141.2	3,672.9	1,125.2	27,720.0	32,176.7	
	2nd	0.0	5,133.3	5,133.3	0.0	21,444.7	0.0	9,264.7	0.0	2,086.3	2,086.3	0.0	2,086.3	5,056.5	2,116.5	39,968.6	45,102.0	
	3rd	0.0	3,628.3	3,628.3	0.0	20,258.8	0.0	11,685.9	0.0	4,282.0	4,282.0	0.0	4,282.0	4,076.5	2,660.0	39,109.4	42,737.7	
Annual IWR (m ³ /yr.)		185,523.3	277,375.0	462,898.3	142,009.4	37,289.4	179,298.8	41,703.5	135,808.2	77,181.2	254,692.9	81,057.3	20,467.5	101,524.7	152,451.8	77,840.0	765,808.2	1,228,706.6
Max IWR (m ³ /dec.)		41,043.3	44,590.0	44,590.0	28,329.4	10,936.5	28,329.4	14,230.6	29,054.1	15,070.6	29,054.1	16,602.4	5,171.8	16,602.4	6,802.4	79,244.1	99,299.1	

Notes:
 *1) Gross Irrigation Water Requirement (m³/dec) = Net Irrigation Water Requirement (m³/dec) / Irrigation Efficiency (%) * Wet Area Coefficient (%)
 *2) Irrigation Efficiency : Rice : 100%
 : Upland Cropping : 85% (= 95% (Conveyance Efficiency, "Unlined Canal" FAO) * 90% (Field Application Efficiency, "Drip Irrigation" FAO))
 *3) Wet Area Coefficient : Rice : 70% (= "Surface Irrigation", JICA)
 : Upland Cropping : 70% (= "Micro Irrigation", JICA)

Tableau A-2.2.2.6 Equilibre entre les précipitations et l'évaporation au niveau du réservoir

			Water Surface Area: A = 17.6 ha (@ FWS: 1,392.0m)						
Month	Decade	days	Provable Rainfall		Reference Evapotranspiration	Evaporation	Evaporation from Water Surface		Remarks
			Rm (mm/month)	Rd (mm/decade)	ETo (mm/day)	Eo (mm/decade)	E = Eo - Rd (mm/decade)	Ev = E * A (m ³ /decade)	
Jan.	1st.	10	76.8	24.8	4.47	44.7	19.9	3,507	
	2nd.	10		24.8		44.7	19.9	3,507	
	3rd.	11		27.3		49.2	21.9	3,863	
Feb.	1st.	10	84.4	30.1	4.58	45.8	15.7	2,756	
	2nd.	10		30.1		45.8	15.7	2,756	
	3rd.	8		24.1		36.6	12.5	2,197	
Mar.	1st.	10	42.8	13.8	4.26	42.6	28.8	5,068	
	2nd.	10		13.8		42.6	28.8	5,068	
	3rd.	11		15.2		46.9	31.7	5,581	
Apr.	1st.	10	173.3	57.8	3.77	37.7	-20.1	-3,532	
	2nd.	10		57.8		37.7	-20.1	-3,532	
	3rd.	10		57.8		37.7	-20.1	-3,532	
May	1st.	10	148.3	47.8	3.50	35.0	-12.8	-2,260	
	2nd.	10		47.8		35.0	-12.8	-2,260	
	3rd.	11		52.6		38.5	-14.1	-2,486	
Jun.	1st.	10	76.2	25.4	3.31	33.1	7.7	1,355	
	2nd.	10		25.4		33.1	7.7	1,355	
	3rd.	10		25.4		33.1	7.7	1,355	
Jul.	1st.	10	53.4	17.2	3.58	35.8	18.6	3,269	
	2nd.	10		17.2		35.8	18.6	3,269	
	3rd.	11		18.9		39.4	20.5	3,599	
Aug.	1st.	10	0.0	0.0	5.19	51.9	51.9	9,134	
	2nd.	10		0.0		51.9	51.9	9,134	
	3rd.	11		0.0		57.1	57.1	10,050	
Sep.	1st.	10	75.2	25.1	4.93	49.3	24.2	4,265	
	2nd.	10		25.1		49.3	24.2	4,265	
	3rd.	10		25.1		49.3	24.2	4,265	
Oct.	1st.	10	30.5	9.8	5.00	50.0	40.2	7,068	
	2nd.	10		9.8		50.0	40.2	7,068	
	3rd.	11		10.8		55.0	44.2	7,775	
Nov.	1st.	10	176.1	58.7	3.81	38.1	-20.6	-3,626	
	2nd.	10		58.7		38.1	-20.6	-3,626	
	3rd.	10		58.7		38.1	-20.6	-3,626	
Dec.	1st.	10	64.5	20.8	3.59	35.9	15.1	2,656	
	2nd.	10		20.8		35.9	15.1	2,656	
	3rd.	11		22.9		39.5	16.6	2,924	
Total / Average			1,001.5	1,001.5	4.17	1,520.2	519	91,285	

Notes

- *1) Provable Rainfall : 1974, Gahororo Station, Rurenge Sector, Ngoma District
 *2) Reference Evapotranspiration : Calculated from Climate Data (Temperature, Humidity, Wind Velocity, Sunshine Hours) by CROPWAT8
 *3) Climate Data /
 Min. Temp. : 1974, Gahororo Station, Rurenge Sector, Ngoma District
 Max. Temp. : 1974, Gahororo Station, Rurenge Sector, Ngoma District
 Humidity : 1974, Kigali International Airport
 Wind Velocity : 1974, Kigali International Airport
 Sunshine : 1974, Kigali International Airport

Tableau A-2.2.2.7(1) Etude du bilan hydrique
Cas-1 : Coefficient de la superficie mouillée = 40%

Cropping Acreage

Crop	Area	
Rice Paddy	35 ha	12 %
Maize+Beans	120 ha	40 %
Vegetable-1	60 ha	20 %
Vegetable-2	40 ha	13 %
Vegetable-3	30 ha	10 %
Coffee	15 ha	5 %
Sub-total	265 ha	88 %
Total	300 ha	100 %

Efficiencies

Description	Coefficient	Remarks
Irrigation Rice Paddy	100 %	
Efficiency Upland Cropping	85 %	= 95% (Conveyance: Lined Canal) * 90% (Field Application: Drip)
Upland Cropping Area	100 %	"Surface Irrigation"
Coefficient Upland Cropping	40 %	"Micro Irrigation"

Reservoir

Description	EL. & Volume	Remarks
Full Water Surface	EL. 1,392.00 m	FWS (Water Surface Area: 17.6 ha)
Dead Water Surface	EL. 1,389.00 m	DWS (Water Surface Area: 12.1 ha)
Bottom of Reservoir	EL. 1,380.00 m	ELbtm
Active Storage Capacity	450,000 m ³	between FWS and DWS (H=3.00m)
Dead Water Volume	510,000 m ³	between DWS and ELbtm (H=9.0m)

Results of Water Balance Study

Month	Decade	days	Inflow (m ³)	Outflow (m ³)					Balance between In & Outflow (m ³)	Cumulative Storage Volume of Reservoir (m ³)	Remarks
				Rice Paddy Supply Water	Upland Crop Irrigation Water Requirement	Seepage Loss	Evaporation from W. Surface	Total			
			①	②	③	④	⑤	⑥=Σ(②-⑤)	⑦=①-⑥	⑧	
										0	
Jan.	1st.	10	29,632	5,134	12,539	15	3,507	21,194	8,438	8,438	Min.
	2nd.	10	29,108	5,134	7,951	15	3,507	16,606	12,502	20,939	
	3rd.	11	31,599	5,647	3,666	16	3,863	13,192	18,407	39,347	
Feb.	1st.	10	30,310	9,366	2,104	15	2,756	14,241	16,069	55,416	
	2nd.	10	29,926	9,366	2,814	15	2,756	14,951	14,975	70,391	
	3rd.	8	22,573	7,493	2,245	11	2,197	11,946	10,627	81,018	
Mar.	1st.	10	27,705	7,802	12,612	14	5,068	25,496	2,209	83,228	
	2nd.	10	26,572	7,802	21,353	13	5,068	34,236	-7,664	75,564	
	3rd.	11	28,024	8,582	16,565	14	5,581	30,742	-2,718	72,846	
Apr.	1st.	10	25,364	3,456	2,631	13	-3,532	2,568	22,796	95,642	
	2nd.	10	44,641	3,456	0	22	-3,532	-54	44,695	140,337	
	3rd.	10	47,209	3,456	0	24	-3,532	-52	47,261	187,598	
May	1st.	10	44,116	3,456	0	22	-2,260	1,218	42,898	230,496	
	2nd.	10	83,504	3,456	0	42	-2,260	1,238	82,266	312,762	
	3rd.	11	51,690	3,802	6,516	26	-2,486	7,858	43,832	356,594	
Jun.	1st.	10	37,420	3,456	6,755	19	1,355	11,585	25,835	382,429	
	2nd.	10	31,299	3,456	7,471	16	1,355	12,298	19,001	401,430	
	3rd.	10	30,724	3,456	6,383	15	1,355	11,209	19,515	420,946	
Jul.	1st.	10	39,976	3,456	5,381	20	3,269	12,126	27,850	448,795	
	2nd.	10	36,168	3,456	5,689	18	3,269	12,433	23,735	450,000	
	3rd.	11	33,479	3,802	13,515	17	3,599	20,932	12,547	450,000	Max
Aug.	1st.	10	28,219	16,931	23,252	14	9,134	49,331	-21,112	428,888	
	2nd.	10	25,232	16,931	29,227	13	9,134	55,306	-30,074	398,814	
	3rd.	11	25,544	18,624	33,587	13	10,050	62,275	-36,731	362,083	
Sep.	1st.	10	22,008	12,745	17,318	11	4,265	34,339	-12,331	349,752	
	2nd.	10	22,890	12,745	9,603	11	4,265	26,624	-3,734	346,018	
	3rd.	10	21,347	12,745	11,827	11	4,265	28,848	-7,501	338,517	
Oct.	1st.	10	20,859	9,662	26,520	10	7,068	43,260	-22,401	316,116	
	2nd.	10	20,472	9,662	45,282	10	7,068	62,022	-41,550	274,566	
	3rd.	11	22,112	10,628	36,503	11	7,775	54,917	-32,805	241,762	
Nov.	1st.	10	19,735	3,456	6,527	10	-3,626	6,367	13,368	255,130	
	2nd.	10	19,665	3,456	0	10	-3,626	-160	19,825	274,955	
	3rd.	10	31,073	3,456	744	16	-3,626	590	30,483	305,438	
Dec.	1st.	10	25,304	3,456	15,840	13	2,656	21,965	3,339	308,777	
	2nd.	10	23,802	3,456	22,839	12	2,656	28,963	-5,161	303,616	
	3rd.	11	21,835	3,802	22,348	11	2,924	29,085	-7,250	296,366	
Total			1,111,136	250,245	437,605	558	91,285	779,693	331,443	-	
									Max. - Min. =	441,562	

Notes

*1) Seepage loss from dam body of 0.05 % of storage volume is assumed.

*2) Evaporation from water surface is estimated based on balance of rainfall and evaporation from FAO Irrigation and Drainage Paper No.24. (See Table "Evaporation from Water Surface of Reservoir, Ngoma 22" for reference.)

*3) Water Supply for Rice Paddy including river maintenance water 250,245 m³/yr.

*4) Cumu. Storage Volume : Start at DWS 1,389.00m 0 m³ (Effective Dam Storage Volume)

Tableau A-2.2.2.7 (2) Etude du bilan hydrique
Cas-2 : Coefficient de la superficie mouillée = 50%

Cropping Acreage

Crop		Area	
Upland Cropping	Rice Paddy	35 ha	12 %
	Maize+Beans	120 ha	40 %
	Vegetable-1	60 ha	20 %
	Vegetable-2	40 ha	13 %
	Vegetable-3	30 ha	10 %
	Coffee	15 ha	5 %
	Sub-total	265 ha	88 %
Total		300 ha	100 %

Efficiencies

Description	Coefficient	Remarks
Irrigation	Rice Paddy 100 %	
Efficiency	Upland Cropping 85 %	= 96% (Conveyance: Lined Canal) * 90% (Field Application: Drip)
Area Coefficient	Rice Paddy 100 %	"Surface Irrigation"
	Upland Cropping 50 %	"Micro Irrigation"

Reservoir

Description	EL & Volume	Remarks
Full Water Surface	EL. 1,392.00 m	FWS (Water Surface Area: 17.6 ha)
Dead Water Surface	EL. 1,389.00 m	DWS (Water Surface Area: 12.1 ha)
Bottom of Reservoir	EL. 1,380.00 m	ELbtm
Active Storage Capacity	450,000 m3	between FWS and DWS (H=3.00m)
Dead Water Volume	510,000 m3	between DWS and ELbtm (H=9.0m)

Results of Water Balance Study

Month	Decade	days	Inflow (m ³)	Outflow (m ³)			Balance between In & Outflow (m ³)	Cumulative Storage Volume of Reservoir (m ³)	Remarks		
				Rice Paddy Supply Water	Upland Crop Irrigation Water Requirement	Seepage Loss				Evaporation from W. Surface	Total
			①	②	③	④	⑤	⑥=Σ②-⑤	⑦=①-⑥	⑧	
										0	
Jan.	1st.	10	29,632	5,134	15,674	15	3,507	24,329	5,303	5,303	Min.
	2nd.	10	29,108	5,134	9,938	15	3,507	18,594	10,514	15,817	
	3rd.	11	31,599	5,647	4,582	16	3,863	14,108	17,491	33,308	
Feb.	1st.	10	30,310	9,366	2,629	15	2,756	14,766	15,544	48,851	
	2nd.	10	29,926	9,366	3,518	15	2,756	15,655	14,271	63,123	
	3rd.	8	22,573	7,493	2,806	11	2,197	12,507	10,066	73,189	
Mar.	1st.	10	27,705	7,802	15,765	14	5,068	26,649	-944	72,245	
	2nd.	10	26,572	7,802	26,691	13	5,068	39,574	-13,002	59,243	
	3rd.	11	28,024	8,582	20,706	14	5,581	34,883	-6,859	52,384	
Apr.	1st.	10	25,364	3,456	3,288	13	-3,532	3,225	22,139	74,523	
	2nd.	10	44,641	3,456	0	22	-3,532	-54	44,695	119,218	
	3rd.	10	47,209	3,456	0	24	-3,532	-52	47,261	166,479	
May	1st.	10	44,116	3,456	0	22	-2,260	1,218	42,898	209,377	
	2nd.	10	83,504	3,456	0	42	-2,260	1,238	82,266	291,643	
	3rd.	11	51,690	3,802	8,145	26	-2,486	9,487	42,203	333,846	
Jun.	1st.	10	37,420	3,456	8,444	19	1,355	13,274	24,146	357,992	
	2nd.	10	31,299	3,456	9,338	16	1,355	14,165	17,134	375,125	
	3rd.	10	30,724	3,456	7,978	15	1,355	12,804	17,920	393,045	
Jul.	1st.	10	39,976	3,456	6,726	20	3,269	13,472	26,504	419,549	
	2nd.	10	36,168	3,456	7,112	18	3,269	13,855	22,313	441,863	
	3rd.	11	33,479	3,802	16,893	17	3,599	24,311	9,168	450,000	Max
Aug.	1st.	10	28,219	16,931	29,065	14	9,134	55,144	-26,925	423,075	
	2nd.	10	25,232	16,931	36,534	13	9,134	62,613	-37,381	385,694	
	3rd.	11	25,544	18,624	41,984	13	10,050	70,672	-45,128	340,567	
Sep.	1st.	10	22,008	12,745	21,647	11	4,265	36,668	-16,660	323,906	
	2nd.	10	22,890	12,745	12,004	11	4,265	29,025	-6,135	317,771	
	3rd.	10	21,347	12,745	14,783	11	4,265	31,805	-10,458	307,313	
Oct.	1st.	10	20,859	9,662	33,150	10	7,068	49,890	-29,031	278,283	
	2nd.	10	20,472	9,662	56,603	10	7,068	73,343	-52,871	225,412	
	3rd.	11	22,112	10,628	45,628	11	7,775	64,042	-41,930	183,482	
Nov.	1st.	10	19,735	3,456	8,159	10	-3,626	7,999	11,736	195,218	
	2nd.	10	19,665	3,456	0	10	-3,626	-160	19,825	215,043	
	3rd.	10	31,073	3,456	929	16	-3,626	775	30,298	245,341	
Dec.	1st.	10	25,304	3,456	19,800	13	2,656	25,925	-621	244,720	
	2nd.	10	23,802	3,456	28,549	12	2,656	34,673	-10,871	233,848	
	3rd.	11	21,835	3,802	27,935	11	2,924	34,672	-12,837	221,011	
Total			1,111,136	250,245	547,006	558	91,285	889,094	222,042	-	

Notes

*1) Seepage loss from dam body of 0.05 % of storage volume is assumed.

*2) Evaporation from water surface is estimated based on balance of rainfall and evaporation from FAO Irrigation and Drainage Paper No.24. (See Table "Evaporation from Water Surface of Reservoir, Ngoma 22" for reference.)

*3) Water Supply for Rice Paddy including river maintenance water 250,245 m³/yr.

*4) Cumu. Storage Volume : Start at DWS, 1,389.00m 0 m³ (Effective Dam Storage Volume)

Max. - Min. = 444,697

Tableau A-2.2.2.7 (3) Etude du bilan hydrique
Cas-3 : Coefficient de la superficie mouillée = 60%

Cropping Acreage

Crop		Area	
Upland Cropping	Rice Paddy	35 ha	12 %
	Maize+Beans	120 ha	40 %
	Vegetable-1	60 ha	20 %
	Vegetable-2	40 ha	13 %
	Vegetable-3	30 ha	10 %
	Coffee	15 ha	5 %
	Sub-total	255 ha	88 %
Total	300 ha	100 %	

Efficiencies

Description	Coefficient	Remarks
Irrigation	Rice Paddy	100 %
Efficiency	Upland Cropping	85 % = 95% (Conveyance: Lined Canal) * 90% (Field Application: Drip)
Area	Rice Paddy	100 % "Surface Irrigation"
Coefficient	Upland Cropping	60 % "Micro Irrigation"

Reservoir

Description	EL & Volume	Remarks
Full Water Surface	EL. 1,392.00 m	FWS (Water Surface Area: 17.6 ha)
Dead Water Surface	EL. 1,389.00 m	DWS (Water Surface Area: 12.1 ha)
Bottom of Reservoir	EL. 1,380.00 m	ELbtm
Active Storage Capacity	450,000 m ³	between FWS and DWS (H=3.00m)
Dead Water Volume	510,000 m ³	between DWS and ELbtm (H=9.0m)

Results of Water Balance Study

Month	Decade	days	Inflow (m ³)	Outflow (m ³)			Balance between In & Outflow (m ³)	Cumulative Storage Volume of Reservoir (m ³)	Remarks	
				Rice Paddy Supply Water	Upland Crop Irrigation Water Requirement	Seepage Loss				Evaporation from W. Surface
			①	②	③	④	⑤	⑥=Σ(②-⑤)	⑦=①-⑥	⑧
										0
Jan.	1st.	10	29,632	5,134	18,808	15	3,507	27,464	2,168	2,168
	2nd.	10	29,108	5,134	11,926	15	3,507	20,581	8,527	10,695
	3rd.	11	31,599	5,647	5,499	16	3,863	15,025	16,574	27,269
Feb.	1st.	10	30,310	9,366	3,155	15	2,756	15,292	15,018	42,287
	2nd.	10	29,926	9,366	4,221	15	2,756	16,358	13,568	55,854
	3rd.	8	22,573	7,493	3,367	11	2,197	13,068	9,505	65,360
Mar.	1st.	10	27,705	7,802	18,918	14	5,068	31,802	-4,097	61,263
	2nd.	10	26,572	7,802	32,029	13	5,068	44,912	-18,340	42,923
	3rd.	11	28,024	8,582	24,847	14	5,581	39,024	-11,000	31,922
Apr.	1st.	10	25,364	3,456	3,946	13	-3,532	3,883	21,481	53,404
	2nd.	10	44,641	3,456	0	22	-3,532	-54	44,695	98,099
	3rd.	10	47,209	3,456	0	24	-3,532	-52	47,261	145,360
May	1st.	10	44,116	3,456	0	22	-2,260	1,218	42,898	188,257
	2nd.	10	83,504	3,456	0	42	-2,260	1,238	82,266	270,523
	3rd.	11	51,690	3,802	9,774	26	-2,486	11,116	40,574	311,097
Jun.	1st.	10	37,420	3,456	10,133	19	1,355	14,963	22,457	333,554
	2nd.	10	31,299	3,456	11,206	16	1,355	16,033	15,266	348,821
	3rd.	10	30,724	3,456	9,574	15	1,355	14,400	16,324	365,144
Jul.	1st.	10	39,976	3,456	8,072	20	3,269	14,817	25,159	390,304
	2nd.	10	36,168	3,456	8,534	18	3,269	15,277	20,891	411,194
	3rd.	11	33,479	3,802	20,272	17	3,599	27,690	5,789	416,984
Aug.	1st.	10	28,219	16,931	34,878	14	9,134	60,957	-32,738	384,246
	2nd.	10	25,232	16,931	43,841	13	9,134	69,919	-44,687	339,558
	3rd.	11	25,544	18,624	50,381	13	10,050	79,069	-53,525	286,034
Sep.	1st.	10	22,008	12,745	25,976	11	4,265	42,998	-20,990	265,044
	2nd.	10	22,890	12,745	14,405	11	4,265	31,426	-8,536	256,508
	3rd.	10	21,347	12,745	17,740	11	4,265	34,761	-13,414	243,094
Oct.	1st.	10	20,859	9,662	39,780	10	7,068	56,520	-35,661	207,433
	2nd.	10	20,472	9,662	67,924	10	7,068	84,663	-64,191	143,242
	3rd.	11	22,112	10,628	54,754	11	7,775	73,168	-51,056	92,186
Nov.	1st.	10	19,735	3,456	9,791	10	-3,626	9,631	10,104	102,290
	2nd.	10	19,665	3,456	0	10	-3,626	-160	19,825	122,115
	3rd.	10	31,073	3,456	1,115	16	-3,626	961	30,112	152,227
Dec.	1st.	10	25,304	3,456	23,760	13	2,656	29,885	-4,581	147,646
	2nd.	10	23,802	3,456	34,259	12	2,656	40,383	-16,581	131,065
	3rd.	11	21,835	3,802	33,522	11	2,924	40,259	-18,424	112,641
Total			1,111,136	250,245	656,407	558	91,285	998,495	112,641	-
									Max. - Min. =	414,816

Notes

*1) Seepage loss from dam body of 0.05 % of storage volume is assumed.

*2) Evaporation from water surface is estimated based on balance of rainfall and evaporation from FAO Irrigation and Drainage Paper No 24. (See Table "Evaporation from Water Surface of Reservoir, Ngoma 22" for reference.)

*3) Water Supply for Rice Paddy including river maintenance water

250,245 m³/yr.

*4) Cumu. Storage Volume : Start at DWS 1,389.00m

0 m³

(Effective Dam Storage Volume)

Tableau A-2.2.2.7 (4) Etude du bilan hydrique
Cas-4 : Coefficient de la superficie mouillée = 70%

Cropping Acreage

Crop		Area	
Upland Cropping	Rice Paddy	35 ha	12 %
	Maize+Beans	120 ha	40 %
	Vegetable-1	60 ha	20 %
	Vegetable-2	40 ha	13 %
	Vegetable-3	30 ha	10 %
	Coffee	15 ha	5 %
	Sub-total	265 ha	88 %
Total	300 ha	100 %	

Efficiencies

Description	Coefficient	Remarks
Irrigation	Rice Paddy	100 %
Efficiency	Upland Cropping	85 % = 95% (Conveyance: Lined Canal) * 90% (Field Application: Drip)
Irrigation Area Coefficient	Rice Paddy	100 % "Surface Irrigation"
	Upland Cropping	70 % "Micro Irrigation"

Reservoir

Description	EL & Volume	Remarks
Full Water Surface	EL. 1,392.00 m	FWS (Water Surface Area: 17.6 ha)
Dead Water Surface	EL. 1,389.00 m	DWS (Water Surface Area: 12.1 ha)
Bottom of Reservoir	EL. 1,380.00 m	ELbtm
Active Storage Capacity	450,000 m3	between FWS and DWS (H=3.00m)
Dead Water Volume	510,000 m3	between DWS and ELbtm (H=9.0m)

Results of Water Balance Study

Month	Decade	days	Inflow (m ³)	Outflow (m ³)				Balance between In & Outflow (m ³)	Cumulative Storage Volume of Reservoir (m ³)	Remarks	
				Rice Paddy Supply Water	Upland Crop Irrigation Water Requirement	Seepage Loss	Evaporation from W. Surface				Total
			①	②	③	④	⑤	⑥=Σ(②-⑤)	⑦=①-⑥	⑧	
Jan.	1st.	10	29,632	5,134	21,943	15	3,507	30,598	-966	-966	Min.
	2nd.	10	29,108	5,134	13,914	15	3,507	22,569	6,539	5,572	
	3rd.	11	31,599	5,647	6,415	16	3,863	15,941	15,658	21,230	
Feb.	1st.	10	30,310	9,366	3,681	15	2,756	15,818	14,492	35,722	
	2nd.	10	29,926	9,366	4,925	15	2,756	17,062	12,864	48,586	
	3rd.	8	22,573	7,493	3,928	11	2,197	13,629	8,944	57,530	
Mar.	1st.	10	27,705	7,802	22,071	14	5,068	34,955	-7,250	50,281	
	2nd.	10	26,572	7,802	37,368	13	5,068	50,251	-23,679	26,602	
	3rd.	11	28,024	8,582	28,988	14	5,581	43,165	-15,141	11,461	
Apr.	1st.	10	25,364	3,456	4,604	13	-3,532	4,541	20,823	32,284	
	2nd.	10	44,641	3,456	0	22	-3,532	-54	44,695	76,979	
	3rd.	10	47,209	3,456	0	24	-3,532	-52	47,261	124,240	
May	1st.	10	44,116	3,456	0	22	-2,260	1,218	42,898	167,138	
	2nd.	10	83,504	3,456	0	42	-2,260	1,238	82,266	249,404	
	3rd.	11	51,690	3,802	11,403	26	-2,486	12,745	38,945	288,349	
Jun.	1st.	10	37,420	3,456	11,822	19	1,355	16,652	20,768	309,117	
	2nd.	10	31,299	3,456	13,074	16	1,355	17,901	13,398	322,516	
	3rd.	10	30,724	3,456	11,170	15	1,355	15,996	14,728	337,244	
Jul.	1st.	10	39,976	3,456	9,417	20	3,269	16,162	23,814	361,058	
	2nd.	10	36,168	3,456	9,956	18	3,269	16,700	19,468	380,526	
	3rd.	11	33,479	3,802	23,650	17	3,599	31,068	2,411	382,937	Max.
Aug.	1st.	10	28,219	16,931	40,691	14	9,134	66,770	-38,551	344,386	
	2nd.	10	25,232	16,931	51,148	13	9,134	77,226	-51,994	292,392	
	3rd.	11	25,544	18,624	58,778	13	10,050	87,465	-61,921	230,470	
Sep.	1st.	10	22,008	12,745	30,306	11	4,265	47,327	-25,319	205,151	
	2nd.	10	22,890	12,745	16,805	11	4,265	33,827	-10,937	194,214	
	3rd.	10	21,347	12,745	20,697	11	4,265	37,718	-16,371	177,843	
Oct.	1st.	10	20,859	9,662	46,410	10	7,068	63,150	-42,291	135,553	
	2nd.	10	20,472	9,662	79,244	10	7,068	95,984	-75,512	60,041	
	3rd.	11	22,112	10,628	63,880	11	7,775	82,294	-60,182	-141	
Nov.	1st.	10	19,735	3,456	11,422	10	-3,626	11,262	8,473	8,332	
	2nd.	10	19,665	3,456	0	10	-3,626	-160	19,825	28,157	
	3rd.	10	31,073	3,456	1,301	16	-3,626	1,147	29,926	58,083	
Dec.	1st.	10	25,304	3,456	27,720	13	2,656	33,845	-8,541	49,542	
	2nd.	10	23,802	3,456	39,969	12	2,656	46,093	-22,291	27,251	
	3rd.	11	21,835	3,802	39,109	11	2,924	45,846	-24,011	3,240	
Total			1,111,136	250,245	765,808	558	91,285	1,107,896	3,240	-	

Notes

*1) Seepage loss from dam body of 0.05 % of storage volume is assumed.

*2) Evaporation from water surface is estimated based on balance of rainfall and evaporation from FAO Irrigation and Drainage Paper No.24. (See Table "Evaporation from Water Surface of Reservoir, Ngoma 22" for reference.)

*3) Water Supply for Rice Paddy including river maintenance water

250,245	m3/yr.
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*4) Cumu. Storage Volume : Start at DWS 1,389.00m

0	m3
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 (Effective Dam Storage Volume)

Tableau A-2.2.8 Comparaison entre la hauteur et le coût du barrage

case	Diagram	Construction Cost Ratio (dam+pump)	Maintenance Cost Ratio (electricity and repairing)	Evaluation
A	<p>MCM=Million Cubic Meters</p> <p>Dam crest EL 1393.4m Dam Height 14.9m Available water 0.45MCM Dead Water 9.0m Sedimentation 3.0m pump irrigation area 35% gravity irrigation area 65%</p>	1.00	1.00	Though Construction cost of dam is highest in three cases, though total cost is low est because the construction cost of pump facilities is small. O&M cost of pump is also the low est because of low electrical charge necessary for operation. The number of affected people is maximum since the reservoir surface area is largest.
B	<p>Dam crest EL 1392.1m Dam Height 13.6m Available water 0.45MCM Dead Water 6.5m Sedimentation 4.1m pump irrigation area 50% gravity irrigation area 50%</p>	1.05	1.60	Both construction cost and maintenance cost are intermediate in three cases. The difference of water level with case A is about 1.3m and the number of affected people is almost same with case A.
C	<p>Dam crest EL 1390.0m Dam Height 11.5m Available water 0.45MCM Dead Water 0.4m Sedimentation 8.5m pump irrigation area 100%</p>	1.15	2.80	Total cost is highest because construction cost of pump facilities is maximum. Since operation cost for pump is also maximum, this case is most uneconomical. The number of affected people is smallest.

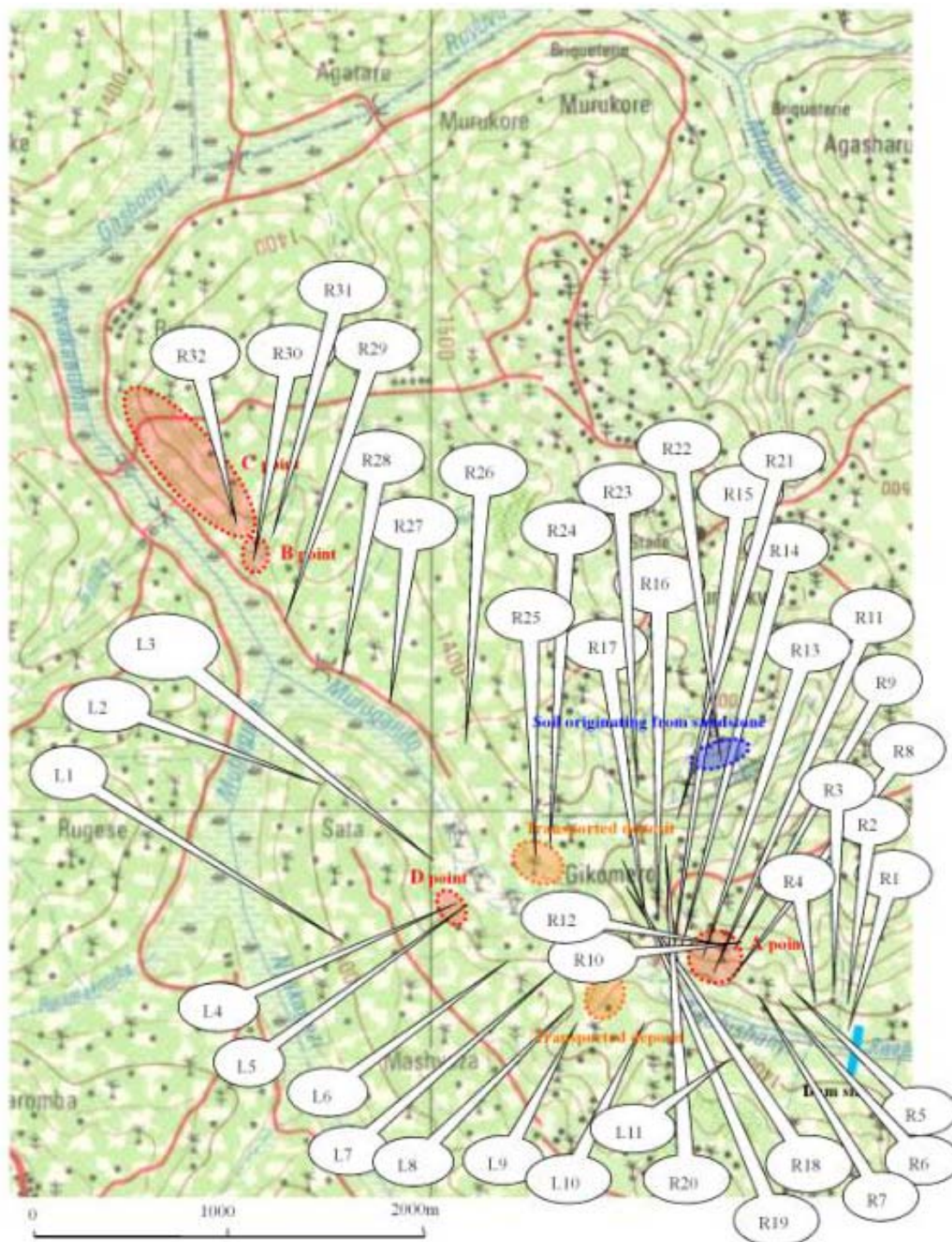


Figure A-2.2.2.2 Carte de localisation de reconnaissance pour l'aménagement des terres
(Localisation des échantillons du sol)

Tableau A-2.2.2.9(1) Résultats des échantillons du sol










Number	Thickness (cm)	Color	Soil type	Remarks	Photo
R-1	30~40	dark brown	cultivated soil, organic	originating from lateritic soil, sandy clay	
R-2	30~40	dark brown	top soil, organic	originating from lateritic soil, sandy clay	
R-3	50	yellowish brown~redish brown	top soil, organic	originating from lateritic soil, sandy clay	
R-4	20	dark brown	top soil, organic,	sandy clay, lateritic soil with gravels at the base	
R-5	25	yellowish brown	top soil, organic, dry	sandy clay, lateritic soil with shale gravels (φmax 50mm) at the base	
R-5				cut cliff at the front, lateritic soil accompanied by shale gravels	
R-6	25	light brown	top soil, organic, dry	accompanied by shale gravels	
R-6				cut cliff at the front composed of highly weathered shale	
R-7	70	yellowish~greyish brown	sandy clay originating from shale	small cliff, gravelly layer of quartz fragment at its foot	

Tableau A-2.2.2.9 (2) Résultats des échantillons du sol










Number	Thickness (cm)	Color, Location	Soil type	Remarks	Photo
R-8	60	yellowish brown 2°05' 26.8" S 30°30' 335.8"E	top soil, organic	small cliff, lateritic soil at its foot	
R-9	40	light brown	cultivated soil composed of top soil and lateritic soil mixture	small cliff, lateritic soil at its foot	
R-10	20	greyish brown	top soil cultivated little	steep slope, quartish and angular rocks (φ 30cm±) lying scattered on its surface	
				steep slope from R-10 to R-15	
R-11	40	yellowish dark brown 2°05' 25.9" S 30°30' 30.9" E	top soil, organic	gentle slope, but not cultivated	
R-12	0	light redish brown	lateritic soil	lateritic gravels at the depth of 50cm	
R-13	40	yellowish~greyish brown 2°05' 24.7" S 30°30' 27.8" E	sandy clay, organic	bedded by lateritic round gravels containing quartish gravels	
R-14	20	yellowish dark brown 2°05' 22.6" S 30°30' 25.2" E	sandy clay, organic	bedded by hard lateritic layer (mineral deposit of tin/wolfram?)	
R-15	20	yellowish dark brown 2°05' 20.9" S 30°30' 23.8" E	sandy clay, organic	bedded by hard lateritic layer (mineral deposit of tin/wolfram?)	

Tableau A-2.2.2.9 (3) Résultats des échantillons du sol









Number	Thickness (cm)	Color	Soil type	Remarks	Photo
R-16	60	dark brown 2°05' 18.4" S 30°30' 19.7" E	sandy clay, organic		
R-17	50	greyish dark brown 2°05' 17.7" S 30°30' 17.8" E	sandy clay, organic		
R-18	50	yellowish~greyish brown 2°05' 14.3" S 30°30' 15.0" E	sandy clay, organic	bedded by yellowish brown clay originating from shale	
R-19	25	dark greyish brown 2°05' 6.3" S 30°30' 8.9" E	sandy clay, organic	bedded by redish lateritic soil	
R-20	25	yellowish~greyish brown 2°05' 1.0" S 30°30' 15.4" E	sandy clay, organic	stif layer	
R-21	40	brown 2°04' 58.8" S 30°30' 16.4" E	sandy clay, organic	marshland soil	
R-22	20	dark grey 2°04' 57.1" S 30°30' 21.3" E	silty sand	slope with scattered sandstone rocks, light soil with a feature of volcanic ash	
R-23	40	dark grey 2°05' 01.7" S 30°30' 00.7" E	silty sand	bedded by lateritic soil	
R-24	5~10	brown 2°05' 06.1" S 30°29' 56.2" E	sady clay	organic a little	

Tableau A-2.2.2.9 (4) Résultats des échantillons du sol










Number	Thickness (cm)	Color	Soil type	Remarks	Photo
R-25	30	grey 2°05' 08.8" S 30°29' 56.7" E	sandy silt	sediment transported from the valley, bedded by yellowish soil originating from shale	
R-26	40	dark brown 2°05' 06.9" S 30°29' 52.6" E	sandy clay organic	originating from lateritic soil, extending wide on the gentle slope beyond Spring No.6	
					
R-27		dark brown ~yellowish brown		perpendicular cliff, 1m high, caused by excavation	
R-28		reddish brown ~yellowish brown, 300 m upstream from te river meeting point		Ditto	
R-29	30	dark brown 2°04' 30.8" S 30°29' 19.9" E	sandy clay organic	originating from lateritic soil	
R-30	10~20	grey 2°04' 17.1" S 30°29' 11.9" E	clayey sand organic	with outcrops / rods of sandstone	
R-31				slopes in the valley, covered by lateritic soil	
R-32	10~20	dark greyish brown 2°04' 15.8" S 30°29' 08.4" E	sandy clay organic	sandstone rocks lying scattered on the slope	

Tableau A-2.2.2.9 (5) Résultats des échantillons du sol










Number	Thickness (cm)	Color	Soil type	Remarks	Photo
L-1	30	dark greyish brown 2°04' 11.2" S 30°29' 19.0" E	cohesive sandy clay, organic	bedded by lateritic soil	
L-2	20	dark reddish brown 2°04' 47.4" S 30°29' 26.2" E	sandy clay organic	lateritic gravels are predominant	
L-3	30	greyish brown 2°04' 50.7" S 30°29' 32.4" E	sandy clay organic	bedde by yellowish stiff soil originating from shale	
L-4		2°05' 12.1" S 30°29' 43.3" E	outcrops of sandstone	at the mouth of fan- shaped eroded valley	
L-5	20	light brown 2°05'13.2" S 30°29' 45.7" E	sandy clay organic	steep slope composed of transported soil containing angular shale stones	
L-6	30	yellowish brown 2°05'13.2" S 30°29' 47.9" E	sandy silt cohesion low	originating from shale	
L-7	30	yellowish brown 2°05' 20.8" S 30°29' 59.7" E	sandy clay low organic cohesive	bedded by reddish brown lateritic soil	
L-8	5	dark yellowish brown 2°05' 26.2" S 30°30' 14.9" E	silty clay low organic	consolidated layer originating from shale	
L-9	50	dark brown 2°05' 28.3" S 30°30' 19.5" E	sandy clay low organic cohesive	organic portion; 5cm bedded by reddish lateritic soil	

Tableau A-2.2.2.9 (6) Résultats des échantillons du sol



Number	Thickness (cm)	Color	Soil type	Remarks	Photo
L-10	60	dark brown 2°05' 39.1" S 30°30' 32.4" E	sandy silt cohesion low	organic portion; 5cm bedded by reddish lateritic soil	
L-11	20	dark brown 2°05' 38.4" S 30°30' 50.5" E	sandy clay organic	bedded by yellowish soil ariginating from shale	

Tableau A-2.2.2.10 Localisation des sites d'échantillons pour le test des sols et la proposition de classification des sols

Site	Topography	L.Use	Parent M.	Depth /color/ texture	Proposed SC(USDA)
R-1	Gentle slope	Plot	laterite	30 - 40cm/ DB/	Tropeptic Haplustox
R-7	Hill slope terrace	Plot	quartzite	70cm/ GB/ C	Ustic Humitropept
R-8	Hill slope	Plot	laterite	60cm/ YB/ C	Tropeptic Haplustox
R-9	Hill slope	Plot	laterite	40cm/ LB/ C	Tropeptic Haplustox
R-10	Steep slope	Plot-Bad	quartzite	20cm/ GB/ CL	Ustic Humitropept
R-12	Hill slope	Plot	laterite	0 - 50cm/ LRB/ C	Tropeptic Haplustox
R-17	Gentle slope	Plot	shale	0 - 50cm/ GDB/ C	Tropeptic Haplustox
R-21	Lowland	Plot	deposit	40cm/ B/ CL	Mollic troporthent
R-22	Steep slope riverside	Plot-Bad	Volcanic	20cm/ DG/ SCL	Humic Dystrandeps
R-23	Hill slope riverside	Plot	laterite	40cm/ DG/ S&C	Tropeptic Haplustox
R-25	Deposit	Plot	shale	30cm/ G/ Si,CL	Tropeptic Haplustox
R-30	Ridge slope	Badland	sandstone	10 - 20cm/ G/ CL	Lithic Tropopsament
L-1	Hill slope	Plot	laterite	30cm/ DGB/ C	Tropeptic Haplustox
L-5	Colluvial deposit	Badland	deposit	20cm/ LB/ SiCL	Distic Troporthent
L-6	Hill slope	Plot	shale	30cm/ YB/ SiCL	Tropeptic Haplustox
L-7	Hill slope	Plot	laterite	30cm/ YB/ C	Tropeptic Haplustox
L-8	Hill slope	Plot	shale	5cm/ DYB/ SiC	Tropeptic Haplustox
L-9	Hill slope	Plot	laterite	50cm/ GB/ CL	Oxic Humitropept
L-10	Hill slope	Plot	shale	60cm/ DB/ C	Tropeptic Haplustox
L-11	Hill slope	Plot	shale	20cm/ DB/ C	Tropeptic Haplustox

Tableau A-2.2.2.11 Résultat du test des sols au laboratoire

Site	pH(H ₂ O)	Org. C	Total N	Avail. P	Ca	K	CEC	sand	silt	clay
Unit	-log H	w/w%	w/w%	ppm	Meq/100g	Meq/100g	Meq/100g	%	%	%
R-1	5.3	1.69	0.28	2.67	2.4	0.10	9.2	40.9	25.3	33.8
R-7	4.6	2.41	0.21	3.43	2.2	0.07	11.2	25.0	32.3	42.7
R-8	6.1	2.49	0.2	3.05	1.9	0.10	12.0	22.7	31.8	45.5
R-9	4.7	1.84	0.2	4.89	1.7	0.10	10.8	23.7	24.7	51.6
R-10	4.8	3.33	0.28	4.19	2.3	0.13	10.4	40.7	25.4	33.9
R-12	5.5	1.68	0.21	2.67	1.8	0.10	9.6	28.1	29.3	42.6
R-17	6.6	1.82	0.21	3.81	1.7	0.10	12.4	25.8	24.2	50.0
R-21	6.5	2.25	0.21	3.43	2.4	0.13	10.4	36.3	31.4	32.3
R-22	6.1	2.63	0.42	3.81	2.1	0.10	10.0	44.2	21.9	33.9
R-23	5.9	2.37	0.28	3.43	1.7	0.13	11.6	24.1	26.1	49.8
R-25	6.5	2.91	0.42	4.19	2.2	0.40	12.4	35.5	31.7	32.8
R-30	5.4	3.41	0.49	6.48	2.3	0.13	13.6	34.2	28.2	37.6
L-1	5.9	3.03	0.49	3.00	2	0.10	14.9	22.0	25.2	52.8
L-5	5.2	2.9	0.28	5.33	1.7	0.13	10.4	22.8	46.7	30.5
L-6	6.0	2.21	0.56	3.43	2.1	0.10	11.6	14.5	50.3	35.2
L-7	4.9	2.96	0.28	5.71	1.7	0.13	9.2	15.1	38.3	46.6
L-8	5.8	1.83	0.28	3.81	2.2	0.10	11.6	13.4	44.4	42.2
L-9	4.7	1.71	0.42	4.98	1.7	0.20	8.8	29.6	32.5	37.9
L-10	6.0	2.15	0.42	3.43	1.7	0.07	12.8	30.4	26.2	43.4
L-11	5.8	2.47	0.49	3.43	2.5	0.23	13.2	27.4	29.6	43.0

Tableau A-2.2.2.12 Interprétation des résultats du test des sols

Sample Site	pH in water	Organic Carbon	Total N	Available P	Ca	K	CEC	Base saturation ratio *	Soil texture
R-1	Low	VeryLo	Low	VeryLow	Low	Low	Low	54.3%	CL
R-7	Low	Low	Low	Low	Low	Low	Low	40.5%	C
R-8	Low	Low	Low	Low	VeryL	Low	Low	33.3%	C
R-9	Low	VeryLo	Low	Low	VeryL	Low	Low	33.3%	C
R-10	Low	Low	Low	Low	Low	Low	Low	46.7%	CL
R-12	Low	VeryLo	Low	VeryLow	VeryL	Low	Low	39.6%	C
R-17	Mediu	VeryLo	Low	Low	VeryL	Low	Low	29.0%	C
R-21	Low	Low	Low	Low	Low	Low	Low	48.7%	CL
R-22	Low	Low	Low	Low	Low	Low	Low	44.0%	SCL
R-23	Low	Low	Low	Low	VeryL	Low	Low	31.6%	C
R-25	Low	Low	Low	Low	Low	Mediu	Low	41.9%	CL
R-30	Low	Low	Low	Medium	Low	Low	Low	35.7%	CL
L-1	Low	Low	Low	Low	Low	Low	Low	28.2%	C
L-5	Low	Low	Low	Medium	VeryL	Low	Low	35.2%	SiCL
L-6	Low	Low	Low	Low	Low	Low	Low	37.9%	SiCL
L-7	Low	Low	Low	Medium	VeryL	Low	Low	39.8%	C
L-8	Low	VeryLo	Low	Low	Low	Low	Low	39.7%	SiC
L-9	Low	VeryLo	Low	Low	VeryL	Low	Low	43.2%	CL
L-10	Low	Low	Low	Low	VeryL	Low	Low	27.7%	C
L-11	Low	Low	Low	Low	Low	Low	Low	41.4%	C

Note: Abbreviation of the above three table: LB: light brown, DB: dark brown, GB; grayish brown, YB; yellowish brown, LRB; light reddish brown, GDB; grayish dark brown, DG; dark grey, B; brown, G; grey
 RB: right bank, LB; left bank, HF; hill foot, IT; inside a valley of tributary, Mul.R; Mulganndo River, Rwa. R; Rwabishani River, Sata V.; Sata Village

Recherche des matériaux de la digue

(1) Recherche du site de carrière (matériaux d'enrochement)

Date : 6 septembre 2013

Lieu : Muhulire, affleurements à côté de la route, environ 4km du site du barrage

Qualité : le grès quartzeux dur utilisé pour l'enrobage des rochers des maisons et des cailloux pour la maçonnerie cache des fentes intérieures causées par l'alternance, mais il est assez massif pour être utilisé en enrochement.

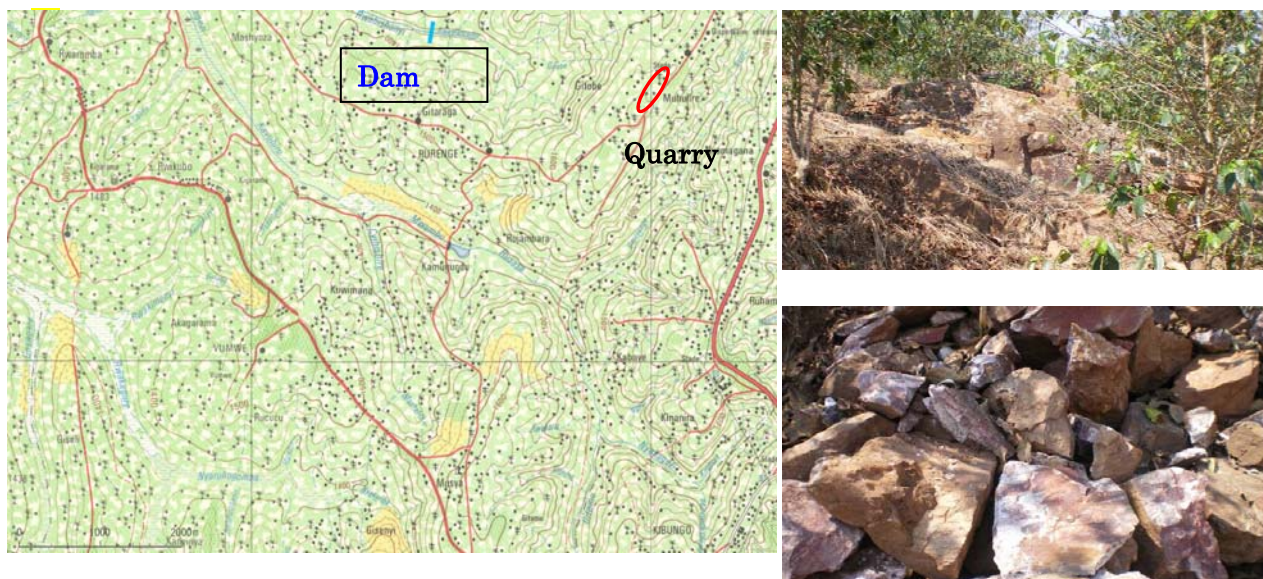


Figure A-2.2.2.3 Localisation du site de

Photo A-2.2.2.1 Effleurements et enrochement

(2)Sable et gravier (matériau de filtrage, granulats pour le bétonnage)

Date : 6 septembre 2013

Lieu : Bac à sable de Rwinkwuvu, environ 30 km du site du barrage

Qualité : Dépôts sur la terrasse de la rivière constituée de couches alternantes de graviers fins et granuleux et de sable fin et moyen; le premier consiste en graviers durs et angulaires mesurant entre 5mm et 20mm de la taille du grain et provenant du quartz, le grès et le schiste. Après le mélange, le matériau est classé en sable et gravier convenable pour le matériau de filtrage des barrages à enrochements et peut être prêt pour les granulats de bétonnage.



Photo A-2.2.2.2 Profil des couches alternatives, les conditions après être

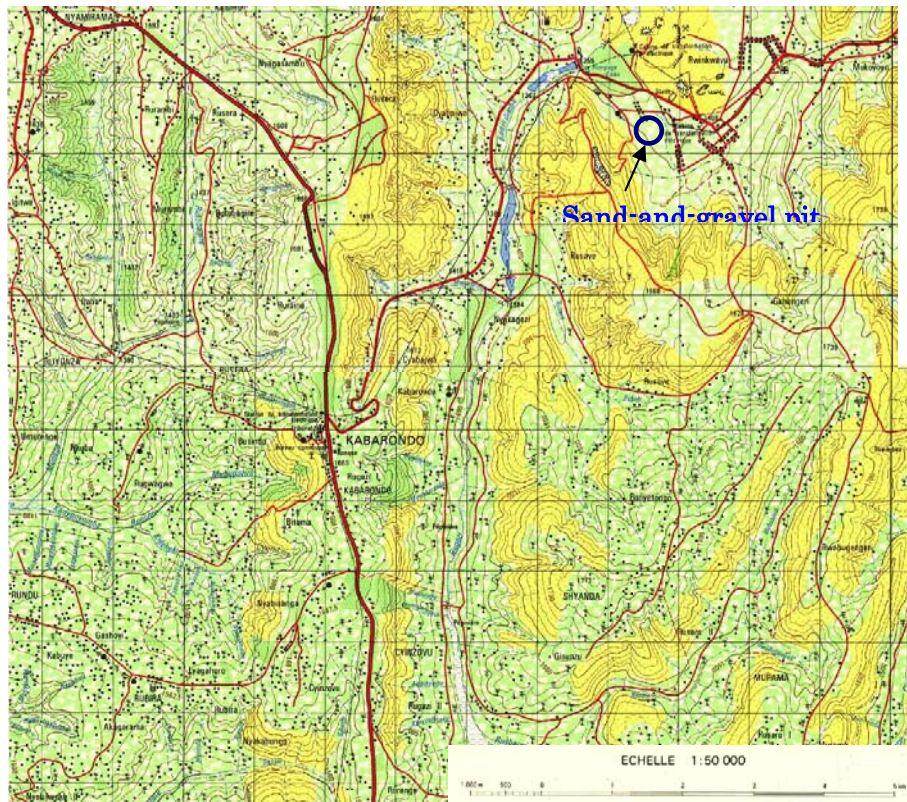


Figure A-2.2.2.4 Localisation du bac à sable et gravier

(3) Sable (granulats fins pour le béton, etc.)

Date : 9 Septembre 2013

Lieu : Bac à sable de Rukira, environ à 43 km du site de barrage

Qualité : La couche qui consiste en sable moyen, homogène en taille de grain, se trouve au fond de la petite vallée qui constitue le dépôt du grès hautement altéré avec des caractéristiques de métamorphisme thermal. Il ne peut pas recevoir la classification "haute qualité" mais il peut être utilisé comme granulats fins pour le bétonnage à raison du manque de limon et des matières organiques. Au moment de l'exécution, il serait souhaitable d'arranger des conditions dégradantes du granulats en grain; et avant l'exécution, il faut confirmer s'il y a des substances nocives ou pas puisque le métamorphisme thermal est souvent causé par la vapeur du sulfure d'hydrogène qui se condense le long des fentes.



Photo A-2.2.2.3 Profil de la couche et du matériau

(4) Matériau des terres

[Pied du versant au-delà du lit de la rivière, côté de la rive droite]

Les parois des puits d'essai, PE-1 et PE-2, sont constitués d'argile sablonneuse latéritique de brun rougeâtre et homogène à la profondeur de 4 m avec de minces couches semi-consolidées qui peuvent être parfois durs. La partie supérieure des puits est dure et devient des blocs solides après l'excavation par la main d'œuvre en raison de la faible teneur en humidité, mais change son impression pour devenir le sol argileux cohésif une fois l'eau est ajoutée et l'utilisation répétée de la force de la paume. Il serait question de savoir comment écraser les blocs solides et les rendre homogène sous la teneur d'humidité dans la perspective de la mise en œuvre de la digue en utilisant ce matériau. Dans PE-2, la nappe phréatique a apparue à la profondeur de 4m, là où le sol creusé a presque la teneur optimale en humidité.

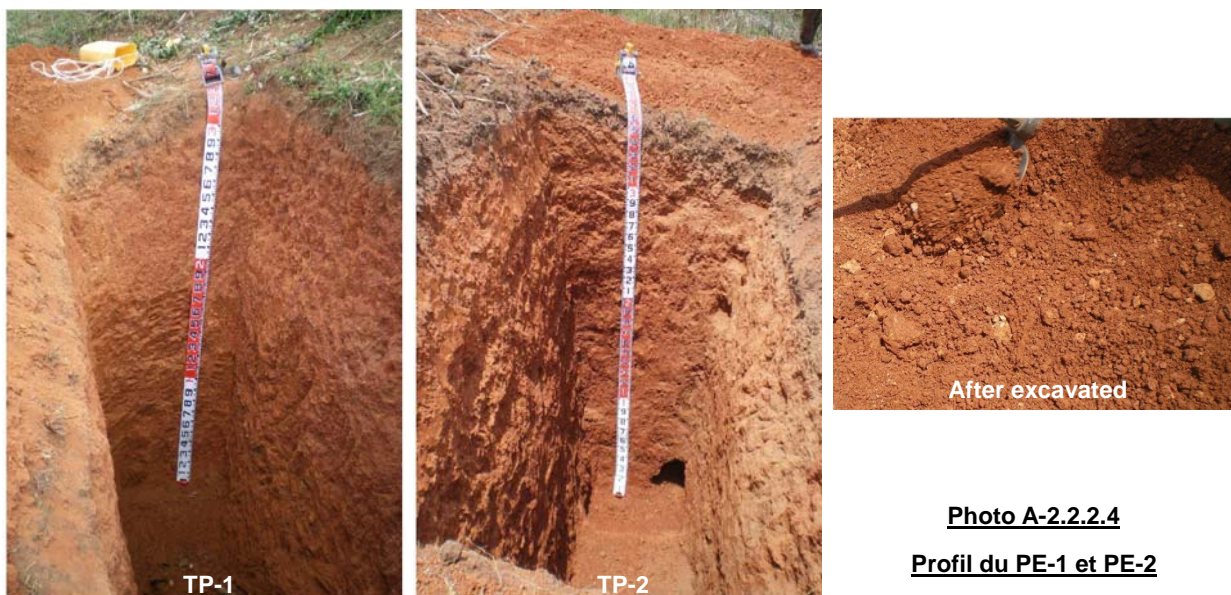


Photo A-2.2.2.4

Profil du PE-1 et PE-2

[Pied du versant au-delà du lit de la rivière, côté de la rive droite]

Les parois des puits d'essai, PE-3 et PE-4, sont constitués d'argile sablonneuse brun jaunâtre provenant de schiste. Ces couches sont supposées d'être des dépôts de terrasse ou talus comme une couche contenant des graviers de schiste plat et rond apparu à la profondeur de 2m dans le PE-3 et des graviers semi-angulaires de grès quartzeux ont apparu ici et là dans le PE-4. L'excavation par la main-d'œuvre était un travail minutieux puisque la partie supérieure étant sèche, dure et semi-consolidée et la partie d'en bas est constituée de couches de structures résiduelles rocheuses, mais complètement érodées, et des roches / graviers apparaissant occasionnellement. Les sols creusés semblent être hautement cohésif pour que ces sols soient disponibles comme matériaux de la digue.

Il serait question de savoir comment écraser les blocs solides de sol et les rendre homogènes sous la teneur d'humidité dans la perspective de la mise en œuvre de la digue en utilisant ces matériaux. Dans PE-4, la nappe phréatique a apparu à la profondeur de 4m, là où le sol creusé a presque la teneur optimale en humidité.



Photo A-2.2.2.5 Profil du PE-3 et PE-4

[Test par rondins et leurs localisations]

Test Pit No.1

Depth (m)	Color	Classification etc.	Moisture content	Cohesion
0.5	Black	Top soil	Dry	
1.0				
1.5	Redish brown	Lateritic soil Sandy clay	12%±	High
2.0	Hard clods, able to be crushed by repeated claspings			
2.5	Excavation			
3.0				
3.5				
4.0				

Test Pit No.3

Depth (m)	Color	Classification etc.	Moisture content	Cohesion
0.5	Greyish brown	Top soil	Dry	
1.0				
1.5	yellowish brown	harf coagulated clay	10%±	High
2.0				
2.5	Brown	harf coagulated clay	10%±	High
3.0	Excavation			
3.5	Dark brown	Lateritic soil With planular and round gravels Sandy clay	15%±	High
4.0				

Test Pit No.2

Depth (m)	Color	Classification etc.	Moisture content	Cohesion
0.5	Black	Top soil	Dry	
1.0				
1.5	Redish brown	Lateritic soil Sandy clay	Wopt-1%~2%	High
2.0	Hard clods, able to be crushed by repeated claspings			
2.5				
3.0	Excavation			
3.5				
4.0				

Test Pit No.4

Depth (m)	Color	Classification etc.	Moisture content	Cohesion
0.5	Dark brown	Top soil	Dry	
1.0	Yellowish brown	Sandy clay	Wopt-5%	High
1.5	Hard clods, able to be crushed by repeated claspings			
2.0				
2.5				
3.0	Brown with yellowish spots			
3.5		Sandy clay	Wopt±	High
4.0	Excavation containing quartish sandstones with rounded edges			

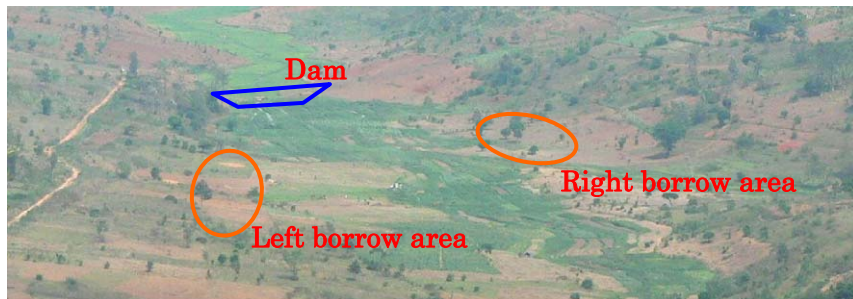
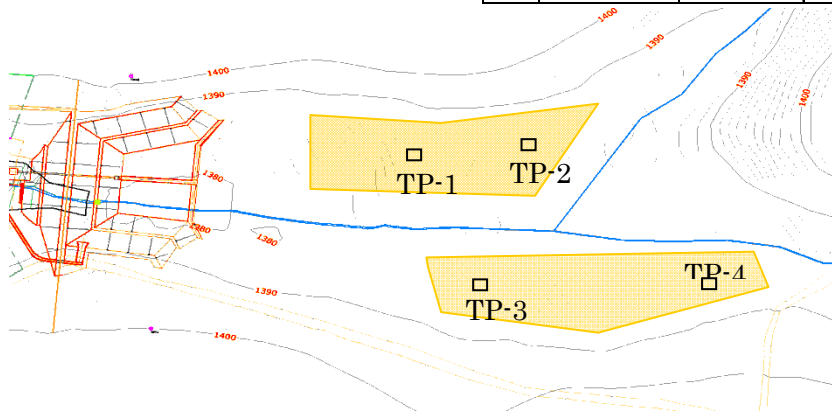


Figure A-2.2.2.5 Test par rondins et leurs

Tableau A-2.2.13 Montage d'installations de pompage et source d'énergie

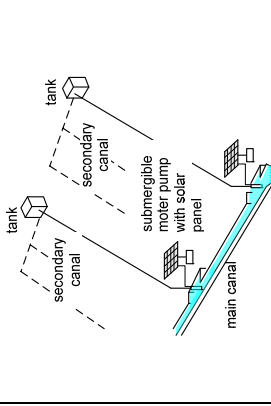
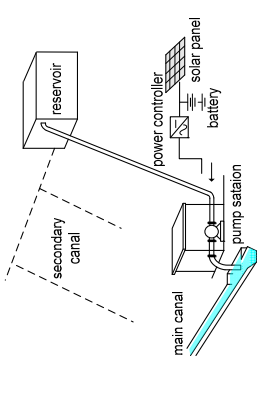
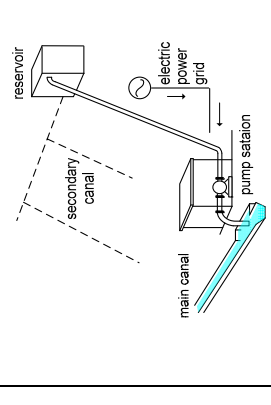
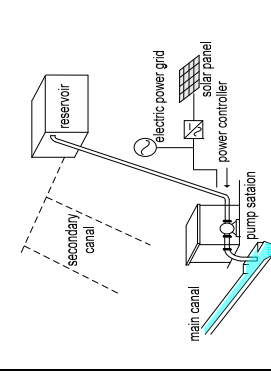
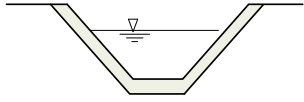
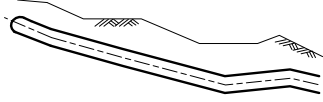
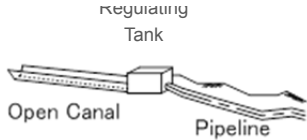
Plan	Plan A Pumps with solar panel along the canal	Plan B Pump station at dam site (solar power only)	Plan C Pump station at dam site (power grid only)	Plan D Pump station at dam site (solar power an power grid)
Schematic diagram				
Outline of facility	<ul style="list-style-type: none"> - Solar power system integrated pumps are installed along the main canal. - Command are divided into blocks by each pump, where irrigation water is distributed from tanks. 	<ul style="list-style-type: none"> - Pump station is installed at the dam site, which can pump up irrigation water to whole command area. - Power source of pumps is solar power generated electricity. - Irrigation water is stored once in reservoir tank at upper place and distributed to command area. 	<ul style="list-style-type: none"> - Pump station is installed at the dam site, which can pump up irrigation water to whole command area. - Electric grid extended is used for power source. - Irrigation water is stored once in reservoir tank at upper place and distributed to command area. 	<ul style="list-style-type: none"> - Pump station is installed at the dam site, which can pump up irrigation water to whole command area. - Generated electricity by solar is used mainly, grid power is used subsidiary. - Irrigation water is stored once in reservoir tank at upper place and distributed to command area.
Advantages	<ul style="list-style-type: none"> - Installation is easy since absorption pipes or buildings are not necessary. - Water management or facility control by farmers' organization on each irrigation block is realized. 	<ul style="list-style-type: none"> - Operation and maintenance is easy at one place. - Electric charge which will be paid by farmers is low - Farmers' economic obligation is quite low since electric charge is not required. 	<ul style="list-style-type: none"> - Operation and maintenance is easy at one place. - Stable operation of pumps and supply of irrigation water according to demand are possible. 	<ul style="list-style-type: none"> - Operation and maintenance is easy at one place. - Stable operation of pumps irrespective of insolation is possible.
Disadvantages	<ul style="list-style-type: none"> - Since exchange by each part is difficult, whole facility should be replaced. - Products which can provide required discharge and lift head as well as guaranteed manufacture's aftercare. 	<ul style="list-style-type: none"> - Since discharge depends on insolation, shortage of water might happen by weather. - Failure of equipment or mistake of operation will affect whole command area. 	<ul style="list-style-type: none"> - Electric charge, which is farmers' obligation, may affect their living expenses. - Failure of equipment or mistake of operation will affect whole command area. 	<ul style="list-style-type: none"> - Failure of equipment or mistake of operation will affect whole command area.
Comprehensive evaluation	<p>Though initial cost is cheapest, manufacturers of equipment are limited. Since the failure of equipment may cause long malfunction of irrigation system. Confidence for effecting permanent project benefit is low.</p>	<p>Monthly farmers' economical obligation is small. While unexpected lack of water caused by weather might happen and it may affect crop yield.</p>	<p>Initial cost is relatively low and also maintenance of facilities is easy. However farmers' economical obligation such as electric charge may affect farmer's living until their income will increase as a result of the project.</p>	<p>Only a little economical burden by farmers allows stable supply of irrigation water. For this reason, project benefit will appear quickly and sustainable development is possible.</p>

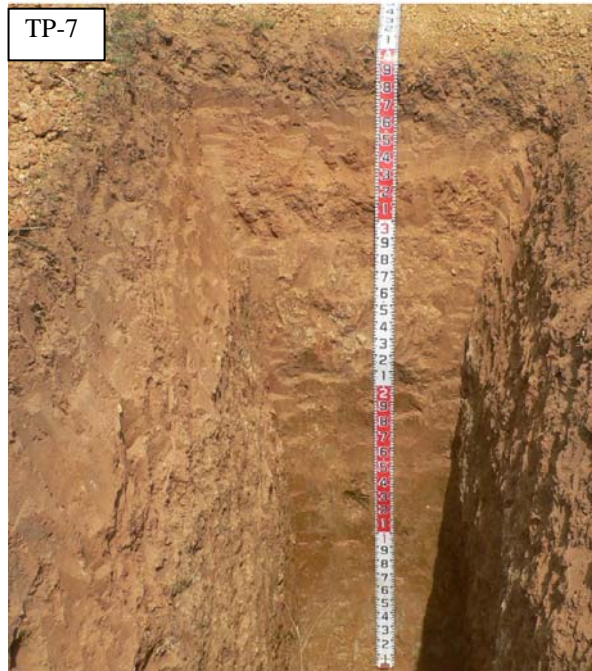
Tableau A-2.2.2.14 Tableau de comparaison des types de canaux

Type	A: Open Canal	B: Pipeline	C: Open Canal + Pipeline with Regulating tank
Sketch			
Advantage	<ul style="list-style-type: none"> - Construction cost is cheaper than pipeline. - Maintenance works to be done by the users can be managed easier than pipeline, because the material such as sand, stone, cement etc. can be got in local market. - It is affordable for the beneficiaries to purchase such material for maintenance works. - Water flow can be seen by the users, so that they can check the condition of the canal anytime and feel effectiveness of the Project. 	<ul style="list-style-type: none"> - The route of pipeline can be planned freely relatively without taking account of topographic condition. - Irrigation water can be utilized effectively because the system can minimize water loss. - Easy operational system of water management can be realized by establishing the demand-oriented water control equipped with pressure regulating facilities constructed on the part of pipeline system. - The land on the line of pipe can be effectively used after laying the pipe underground. 	<ul style="list-style-type: none"> - Time of water arrival will be reduced by regulating tank in middle stream. - Diameter of pipeline is smaller than Type B in downstream, so that it is easier to repair works for the beneficiaries. - The extent for land expropriation can be smaller than Type A. - Cross section of open canal will be smaller than Type A.
Disadvantage	<ul style="list-style-type: none"> - There is possibility to clean up inside the canal frequently because of much sedimentation run off from hillside. - It will be take a long time of water arrival to the end from the beginning of the canal, so that the water management is more difficult for the users than pipeline system. - The extent for land expropriation can be larger than pipeline system. 	<ul style="list-style-type: none"> - Although it is not necessary for daily maintenance works, repair works such as water leakage, pipe bursting etc. may be difficult for the users. - Construction cost is higher than open canal type. - In order to prevent choking pipe with leaves, an equipment such as bar screen at the inlet of pipeline is necessary. 	<ul style="list-style-type: none"> - There is possibility to clean up inside the canal frequently because of much sedimentation run off from hillside in open canal .(*1) - In order to prevent choking pipe with leaves and rubbish, an additional equipment such as bar screen at the inlet of pipeline is necessary.

Condition de couche du sol au sous-sol de barrage



Condition de sol dans l'épreuve-noyau (TP-1~TP-4)



Condition de sol dans l'épreuve-noyau (TP-5~TP-7)

Résultat d'épreuve de la perméabilité du dans-situ dans l'épreuve-noyau

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

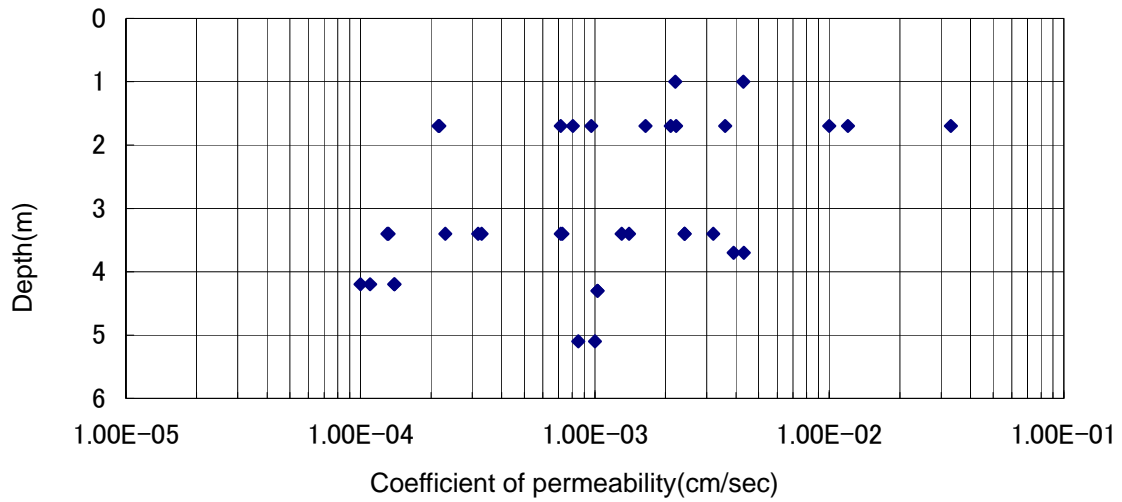
où, Q; Courant du stable-état (cm³/s)

h; Arrosez la profondeur dans le trou de l'épreuve (cm)

r₀; Rayon de trou de l'épreuve (cm)

Résultat d'épreuve de la perméabilité du dans-situ

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



Carte de la distribution du résultat d'épreuve de la perméabilité du dans-situ



Driling of test hole



Water splinking and feeding to test hole



Injection of fine grained gravels



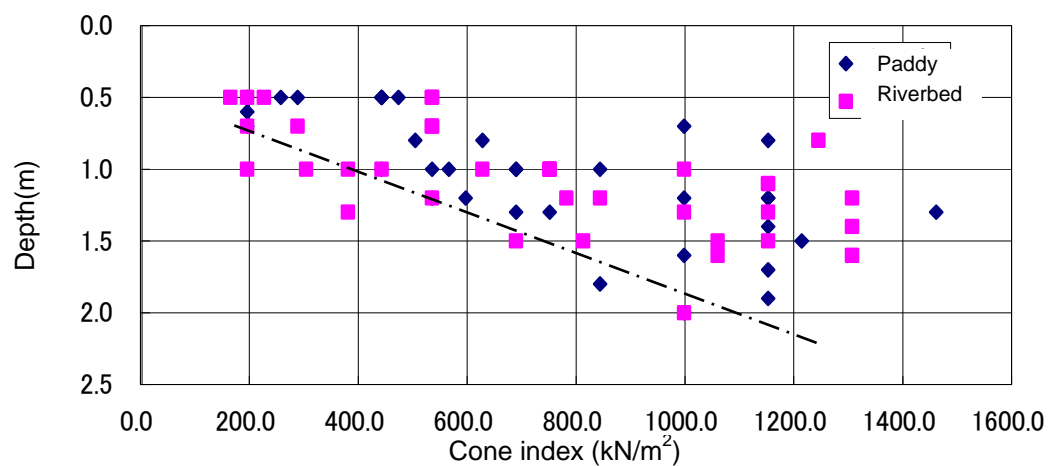
Measurement

Situation d'épreuve de la perméabilité du dans-situ

Résultats d'épreuve de la pénétration du cône

Résultats d'épreuve de la pénétration du cône sur rizière

	Location	Depth(m)	Value	qc(kN/m2)		Location	Depth(m)	Value	qc(kN/m2)	
①	Dam axis/paddy	2.0	300	998.5	⑦	Forked point/paddy	1.0	150	535.6	
	Dam axis/river,left	1.0	100	381.2			1.2	300	998.5	
		1.5	240	813.3			1.3	450	1461.5	
		1.6	400	1307.2		Forked point/riverbed	0.5	40	196.0	
	Dam axis/river,right	1.0	75	304.1			1.0	300	998.5	
		1.2	150	535.6			1.2	400	1307.2	
1.6		320	1060.2	⑧	100m downstream from forked point /paddy	0.5	120	443.0		
② Dam bed	1.0	150	535.6			1.0	200	689.9		
	1.1	400	1307.2			1.2	350	1152.8		
③	Spring No4/paddy	0.5	70		288.6	⑨	100m downstream from forked point/riverbed	0.5	150	535.6
		0.7	300		998.5			1.0	220	751.6
	Spring No4/riverbed	1.0	40		196.0		1.1	350	1152.8	
		1.3	100	381.2	⑩		450m upstream from confluence/paddy	0.5	120	443.0
1.5	320	1060.2	0.8	180		628.1				
④	100m downstream from spring No4/right paddy	0.5	60	257.8		1.0		250	844.2	
		0.8	350	1152.8		1.2	350	1152.8		
	100m downstream from spring No4/riverbed	0.5	50	229.9		⑪	450m upstream from confluence/riverbed	0.5	150	535.6
		1.0	120	443.0				1.0	220	751.6
1.5	200	689.9	1.1	350	1152.8					
2.0	300	998.5	⑫	250m upstream from confluence/paddy	0.5		130	473.8		
⑤	100m downstream from spring No5/paddy	0.7			40	196.0	1.0	160	566.4	
		0.8			140	504.7	1.3	220	751.6	
		1.2		150	535.6	1.4	350	1152.8		
		1.6		300	998.5	250m upstream from confluence/riverbed	0.7	150	535.6	
100m downstream from spring No5/riverbed	0.7	70		288.6	1.0		220	751.6		
	1.0	180	628.1	1.3	350		1152.8			
	1.2	230	782.5	⑬	Confluence/paddy	0.5	120	443.0		
1.3	300	998.5	1.0			200	689.9			
1.4	400	1307.2	1.7			350	1152.8			
⑥	Spring No6/ paddy	0.5	40		196.0	⑭	Confluence/riverbed	0.7	40	196.0
		1.0	120		443.0			1.2	250	844.2
		1.3	200		689.9			1.5	350	1152.8
		1.5	370	1214.6	⑮ Spring No9/paddy		0.6	40	196.0	
Spring No6/riverbed	0.5	30	165.2	1.2		170	597.3			
	0.7	150	535.6	1.8		250	844.2			
	0.8	380	1245.4	1.9	350	1152.8				



Carte de la distribution des résultats d'épreuve de la pénétration du cône



Etat d'épreuve de la pénétration du cône

Photos d'affleurements

G2: Photo Album "Outcrops"

Locations are shown in Next page.



①: Laterite



②: Laterite



③: Quartzite



④: Quartzite



⑤: Sandstone



⑥: Schist



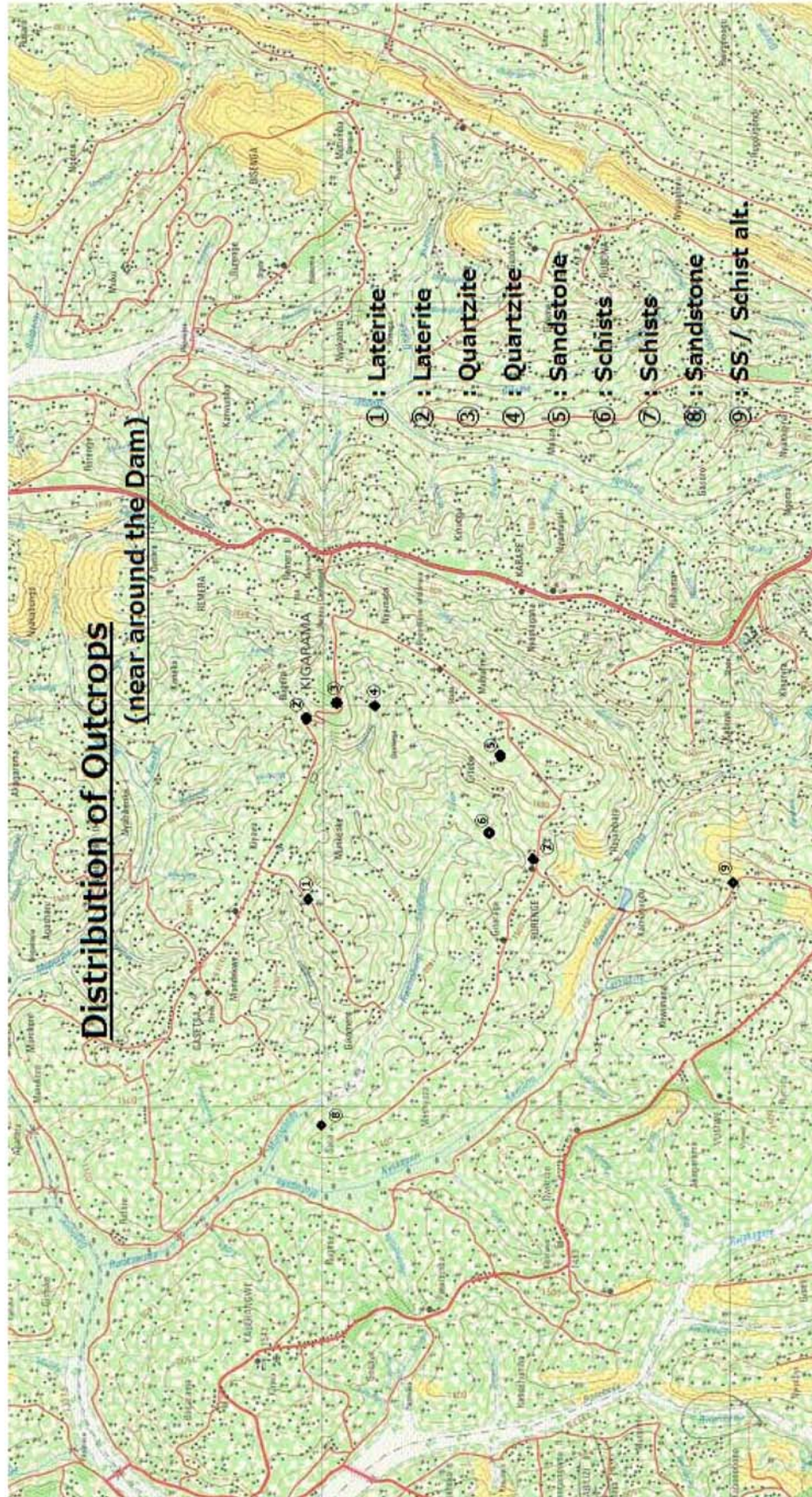
⑦: Schist



⑧: Sandstone



⑨: SS / Sch. Alt



Photos de sources majeures

"Photos of major Springs"



① Spring No.1



④ Spring No.5'



⑦ Spring No.7



② Spring No.4



⑤ Spring No.5"



⑧ Spring No.9



③ Spring No.5



⑥ Spring No.6



⑨ Spring No.10