



REPUBLIKA Y'UBURUNDI

UBUSHIKIRANGANJI BW'AMAZI, IBIDUKIKIJE,

UGUTUNGANYA AMATONGO N'IBISAGARA

IKIGO C'IGIHUGU KIJEJWE GU KINGIRA IBIDUKIKIJE



UKUBUNGABUNGA IBIBANZA
BIKINGIWE KU NEZA Y'UBUZIMA BWA
KIREMWA MUNTU : *Akamo gatewe
abenegihugu bagaragaze uruhara rwabo mu
kubungabunga ibibanza bikingiwe*



Point focal national biodiversité
Nationale knooppunt biodiversiteit

LA COOPÉRATION
BELGE AU DÉVELOPPEMENT .be

museum



Ikigo c'igihugu kijejwe gukingira ibidukikije

B.P. 2757 Bujumbura

Burundi

Tél. (257)22234304

E-mail: inecn.biodiv@cbinf.com

Site web: <http://bi.chm-cbd.net>

**© CHM-Burundais: Centre d'Echange
d'Information en matière de Diversité
Biologique, (Clearing House Mechanism), Février 2016**

Agatabu ko guhimiriza abenegihugu kateguwe na AHISHAKIYE Jérôme m'umugambi w'ubushakashatsi, uguhanahana inkuru, uguhimiriza n'ukubungabunga ibinyabuzima mu Burundi washizweho mu ntumbero y'ugushira mu ngiro amasezerano y'umwumvikana yabaye hagati y'ikigo c'igihugu kijejwe gukingira ibidukikije OBPE (INECN ya kera) n'ikigo c'ingoma y'Ububiligi kijejwe ubumenyi kama (IRScNB).



Point focal national biodiversité
Nationaal knooppunt biodiversiteit

LA COOPÉRATION
BELGE AU DÉVELOPPEMENT



IBIRIMWO

Intangamarara.....	1
I. Ibigeramiye ibibanza bikingiwe.....	2
II. Urugero rwo kwitanga kw'abenegihugu begereye ibibanza bikingiwe mw'bungabungwa ryavyo.....	5
III. Uguhamagarira abenegiguhugu begereye ibibanza bikingiwe kwitanga bboneka mw'bungabungwa ryavyo	9
Ugusozera.....	13

INTANGAMARARA

Mu Burundi, ibinyabuzima birononwa ku murindi uteye ubwoba. Ivyo navyo bigakorwa ku mu garagaro abanyagihugu bo ku nzego zose barorera eka mbere n'abajejwe gufata ingingo ku nzego zitandukanye barimwo mu barorera. Haracariho rero agahaze mu bijanye n'ugutahura akamaro k'ukubungabunga ibinyabuzima ku neza y'urunganwe ruriho ubu n'urwo muri kazoza.

Ibikorwa vy'uguhimiriza vyama vyakozwe kugirango barabe ko hoba uguhindura ingendo, ariko icibonekeza n'uko ibinyabuzima biri mu bibanza bikingiwe bibandanya vyononekara mbere bikanatuma haduka amatati hagati y'abenegihugu hamwe n'abajejwe gukingira ivyo bibanza. Ayo matati ahanini usanga afatiye ku kungene batafatiye ku vyifuzo n'inyungu z'abanegihugu mu gutunganya ibibanza bikingiwe.

Ibikorwa vy'uguhimiriza vyarakozwe ku nkengera y'ibibanza bikingiwe, usanga bitakozwe kenshi kandi bigakorwa ata bikoresho vy'uguhimiriza biteguwe neza, birimwo inyigisho zitomoye ufatiye ku migwi iba yatowe ngo ukurikirana izo nyigisho. Vyongeye, muri izo nyigisho z'uguhimiriza, abajejwe gutanga ivyigwa bashimikira ahanini gusoma inzandiko baba bateguye gusa ntibigere basigira abo bariko barigisha igikoresho nakimwe cotuma baguma binagura mu bumenyi baba baronse.

Izo nyigisho z'uguhimiriza akensi zitangwa hakoreshejwe ubuhinga bugezwaho, aho abazigenewe bazironka bumviriza kandi baziro-reracanke zigaca ku mboneshakure zigakurikiranwa n'igice kimwe gusa c'abenegihugu baba mu bisagara.

Naho biri uko, ibibanza bikingiwe bikomeza kugeramirwa, ivyo navyo bigasigurwa nuko abogira ico baterereye mu kubungabunga ibibanza bikingiwe batigera bashikirwa muri ivyo bikorwa bitandukanye vy'uguhimiriza ku bijanye n'ukubungabunga ibibanza bikingiwe.

Itegurwa ry'aka gatabo gafasha mu guhimiriza ku bijanye n'ingene abenegihugu begereye ivyo bibanza bikingiwe bogaragaza uruhara rwabo mu ukubungabunga ivyo bibanza rizofasha nk'igikoresho nshingiro mu bikorwa vyose bijanye n'uguhimiriza. Abanyagihugu nabo begereye ivyo bibanza bikingiwe bahamagariwe kugira ico bakoze kiboneka kugirango barwanye ibigeramiye ivyo bibanza kugirango haboneke akarusho mu kurwanya ibikorwa bibi na canecane ko abo banyagihugu bafise uruhara rugaragar mugutitura ibibanza bikingiwe. Abanyagihugu begereye ibibanza bikingiwe berwe n'izi nyigisho n'aba bakurikira:

- Abarimyi;
- Aborozi;
- Abarovy;
- Abahigi;
- Abavumbi/abegetsi;
- Abasorama imiti ikoreshwa mu buvuzi kama;
- Abaca amakara n'abarondera inkwi zo guvana ;
- Ababaji (imbaho);
- Abarondera ibiterwa bikoreshwa mu myuga kama;
- Abacukura ubutare;

Ibiri muri aka gatabo ni inyigisho z'uguhimiriza zatororokanijwe hihwejwe umugwi ugenewe izo nyigisho. Izo nyigisho rero zifise intumbero y'uguteza imbere urugero rwo kwitanga ku benegihugu begereye ibibanza bikingiwe mu kubikingira. Aka gatabo kandi kazofasha abajejwe kubungabunga ibibanza bikingiwe mu kwigisha no mu guhimiriza abanyagihugu bavyegereye. Kazotuma kandi abanyagihugu begereye ivyo bibanza bikingiwe baguma bahimirizanya mu bijanye n'ukubungabunga ivyo bibanza mparirwabuzima kama.

I. IBIGERAMIYE IBIBANZA BIKINGIWE

Nkuko twamaze kubivuga, ibibanza bikingiwe biratituruwa bikongera bigasamburwa. Ivyo bititura kandi bisambura ivyo bibanza bigabuye mu mice ine ariyo y'iyi:

- Uguhonya amashamba n'ukumara amatungo y'ibinyabuzima;
- Ugutema amashamba barondera aho barima;
- Itosekara;
- Igwirirana ry'ubwoko bw'ibiterwa mva makungu.

1. Uguhonya amashamba n'ukumara amatungo y'ibinyabuzima

Itituka ry'ibibanza bikingiwe ryerekamwa n'igabanuka riteye ubwoba ry'ubwoko bw'ibimera bivuye k'uguhonya amashamba, iivyo bigatuma ibinyabuzima bigabanuka bidasanzwe kubera ibikorwa bitandukanye vy'abantu. Ibituma nyamukuru ry'ihonywa ry'amasamba ni ibi bikurikira:

- Ugutema amashamba barondera aho barima;
- Ugukoresha nabi amatungo;
- Imiriro ya nyakanga.

2. Ugutema amashamba barondera aho barima n'uburagiro mu bibanza bikingiwe

Ukwagura indimo n'ukurondera uburagiro biri mu bituma igabanuka n'izimangana vy'ibanza imparirwabuzima bimwe bimwe vyo mu ibanza bikingiwe.

Ivyo bitumwa n'ukukurondera amatongo yo kurima ivyo bivuye kw'igwirirana ry'abantu rirenze urugero umwimbu w'uburimyi nawo udashemeye. Ni naco gituma, kubera ubuto bwéamatongo, abanyagihugu begereye ibanza bikingiwe baca baronderera amatongo agifise ataratituka mu gutema canke naho bakaronderera uburagiro mu bibanza bikingiwe bikirimwo amashamba.



3. Ugukoresha nabi amatungo kama

Ugukoresha birenze urugero amatungo y'ibinyabuzima ni nk'uguca ibiti bidakurikije amategeko, ukubazo imbaho, ugusoroma nabi ibiterwa bikoreshwu mu buvuzi kama, ukuroba birenze ukoresheje ibikoresho bitajanye, uguhiga inyamanswa n'ibindi. Ivyo bikorwa vyose vyama vyakozwe mu bibanza bikingiwe, biragabanya cane ibanza mparirwabuzima kandi bikageramira ubwoko bw'ibinya-buzima biri muri vyo. Kuri ivyo bikorwa hakiyongerako ugucukura bikabije ubutare hatisunzwe integuro nimwe canke icigwa na kimwe cerekana ingaruka ku bidukikje. Aha twovuga nk'icukurwa ry'inzahabu mu Ruhongore kama rwa Kibira, ugucukura umusenyi mu Ruhongore kama rwa Rusizi n'icukurwa ry'ubutare bwa kolota na kasiterite mu karere gakingiwe ka Murehe.



4. Imiriro ya nyakanga

Imiriro ya nyakanga ituruka ku bituma bitandukanye arivyo vyibi: ukurima babanje guturira, ukurondera umuyonga w'ibitungwa hamwe n'uruhiyi. Hariho kandi imiriro itorokana abavumbi iyo bariko barahakura canke ikava kugucana amakara, n'imiriro rero ituruka ku bigizi bwanabi ata kindi iba igamije atari ubwononyi gusa.



5. Igwirirana ry'ubwoko bw'ibiterwa vyonona ibindi

Muri iki gihe, biribonekeza ko ugukwiragiza ubwoko bushasha bw'ibiterwa bibangamiye ibibanza bikingiwe bimwebimwe. Nico gituma igwirirana ry'« amarebe (Jacinthe d'eau) » mu mazi yo mu kiyaga Rweru kiri mu mitumba igizwe n'amazi yo mu buraruko no mu micungararo yaho ritanguye gutera ubwoba abatari bake.

Igwirirana ry' « umuhengerihengeri, *Lantana camara* » mu Ruhongore kama rw'igihugu rwa Rusizi riramaze Kuba intandaro y'irwirirana ry'ubundi bwoko bwinshi bw'ibimera butari buhasanzwe.



II. URUGERO RW'UKWITANGA KW'ABENEGIHUGU BEGEREYE IBIBANZA BIKINGIWE MW'IBUNGABURWA RYAVYO

Abanyagihugu begereye ibibanza bikingiwe bagize umugwi uboneka kandi uhambaye ukora ibikorwa vyonona ibibanza bikingiwe mu buryo butandukanye. Uko kwitanga ku banyagihugu baho n'abasangwabutaka kudafashe mu bijanye n'ukubungabunga ibibanza bikingiwe bisigurwa n'uko ibibanza bikingiwe bidahengeshanya gusatirwa no kugeramirwa, ivyo bigakora n'abanyagihugu babicishije mu bikorwa vyo kurondera ivyo bafungura, uburagiro, ugucukura ubutare n'amabuye, uruhigi n'ibindi.

1. Abarimyi

Abarimyi bonona ibibanza bikingiwe cane cane mu kurima ibiterwa mu mashamba yo mu bibanza bikingiwe muri rusangi. Uguhindura amatongo y'ibanza bikingiwe bakayagira ayo kurimamwo biribinekeza ahensi mu bibanza bikingiwe.

Abarimyi baratema igice c'ibanza bikingiwe, aho ni nko mu ruhongore kama rw'ighugu rwa Kibira no mu mitumba ikingiwe y'i Makamba. Rimwe na rimwe, urasanga mbere abanyagihugu bavyubatsemwo amazu y'uburaro. Aho ni nko mu Ruhongore kama rwa Rusizi, mu turere kama dukingiwe twa Vyanda na Monge n'ahandi, aho ibigwati vyubatswe muri ivyo bibanza. Ibikorwa vy'abrimyi vyonona ibanza bikingiwe vyigaragariza muri ibi:

- Iyongerekana ry'uburinganire bw'amatongo arimwa ari mu bibanza bikingiwe;

- Ukarima amaduga ku misozi ihanamye navyo bikaba vyunyura inkukura;
- Ugutanga amatongo bidakurikije amategeko mu bibanza bikingiwe;
- Ukwini jira mu turere kama dukungiwe tugizwe n'amashamba ya Rumonge, Vyanda na Kigwena;
- Uku renga imbi be mu kurondera amatongo y'ukurima mu bibanza ndangamico kama vyo mu buseruko, ukurima ku nkengera z'ibiyaga n'ugutosekaza amazi kubera umwavu y'ikizungi n'imiti bikoreshwa mu gisata c'uburimyi.

Inkurikizi: Mu bice biba vyatemwe, umwimbu ugenda uragabanuka, abarimyi bagaca barondera ayandi matongo mashasha mu bibanza bikingiwe, gutyo itituka ry'ivyo bibanza rikabandanya baza bariha gatogato gushika aho ikibanza categerezwa kuba gikinguwe gisambuka cose.

2. Aborozi

Mu Burundi, ubworozi ni kimwe mu bititura ibibanza bikingiwe. Aborozi bajana akensi mu kinyegero kuragira amasho y'ibitungwa vyabo mu bibanza bikingiwe kandi ariko barateba bakabikora kumugargaro nkuko tubibona mu mpongore kama z'igihugu za Rusizi na Ruvubu. Aborozi bashira imbere kugaburira ibitungwa vyabo ariko bononye ibibanza bikingiwe. Birashika mbere n'aho aborozi badomeka mu kinyegero imiriro ya nyakanga mu bibanza bikingiwe kugirango baronke umuyonga wo gufungurira amatungo yabo cane cane mu gihe c'ici. Ayo matungo aba agizwe n'impene, inka n'intama.

Ivyo bikoko bikazorisha muri ivyo bibanza bikingiwe umunsi wose ugahera eka mbere akazozigarukana incuro zose zishoboka. Ibikorwa vy'aborozi vyonona bigaragarira muri ibi bikurikira:

- Ukuragira ibitungwa vyinshi mu bibanza bikingiwe;
- Ukwatsa imiriro ya nyakanga mu kurondera ubwatsi buremvye mu gihe c'ici.

Inkurikizi: Ukuragira ibitungwa vyinshi mu bibanza bikingiwe birunyura inkukura y'isi cane cane kubera ivyo bitungwa bihonyanga kw'isi itambaye (itagirako ivyatsi) , ivyo navyo bigatuma inkukura y'isi iba ndanse bivuye canecane ku mivo y'imvura itemba kuko ata vyatsi biba biriho ngo biytangire.

3. Abahigi

Hambere hahise, mu Burundi harakorwa uruhigi rw'ibikoko mu bibanza vyagutse vy'amashamba eka mbere n'inyuma y'amashamba. Muri kino gihe, ni gake cane wobona umuntu ariko arahiga inyuma y'ibanza bikingiwe. Mu bibanza bikingiwe, abahigi barondera ibikoko vyinshi bashoboye kubona uhereye ku nyoni (inkware) gushika ku bikoko bini bini bitunzwe n'ivyatsi (imvubu, imbogo, n'ibindi). Mugabo rero aho hose baba barondera cane impongo n'ibikoko bimwe bimwe vyikurura hasi nk'isato. Ibikorwa bijanye n'uruhigi bikorwa kenshi n'abatwa mu kinyegero, ariko hari n'iyindi migwi y'abanyagihugu na canecane abahigi bari mu turere twegerereye imbiye z'igihugu n'ibanza bikingiwe nkuko vyibonekeza mu ruhongore kama rw'igihugu rwa Ruvubu ku ruhigi rw'imbogo.

Rimwe na rimwe, uruhigi rudakurikije amategeko rukorwa mu migwi, aho bashobora gufata ibikoko vyinshi. Aho twotanga akarorero k'uruhiyi rw'Icuya/Imondo mu ruhongore kama rw'igihugu rwa Kibira. Ibikorwa vy'abahigi vyonona ibanza bikingiwe bigaragarira muri ibi bikurikira:

- Iyongerekana c'igitigiri c'ubwononyi bujanye n'uruhiyi rw'ibikoko vyicirwa mu bibanza bikingiwe;
- Gukoresha imitego yo gufata ibikoko mu bibanza bikingiwe (kuneka, gutega imitego, kurasa bakoresheje ibikoresho bicira umuriro, kwimba ibinogo, gutegesha ibinyati, gutega imigozi, insenga n'ibindi).

Inkurikizi: Kuva mu mpera z'imyaka ya 1950, harabaye izimangana ry'ubwoko bw'ibikoko bivuye k'uruhiyi n'ugusambura uburaro bwavyo (mu matohozwa yakozwe biramaze kuboneka ko ubwoko burenga 10 bw'ibikoko bwazimanganye) n'igabanuka ridasanzwe ry'ibikoko mu bibanza bikingiwe. Uturorero : intare, inzovu, ingagi n'ibindi, etc.) .

4. Abarovyi

Mu kurondera gufata amafi menshi bakoresheje uburyo n'ubuhinga butemewe n'amtegeko, abarovyi biyumvira ko bariko baratera intambwe mu buzima bwabo, bakirengagiza ko mu minsi iri imbere amafi ashobora kuzimangana eka mbere n'ibindi binyabuzima biba mu mazi, ikitavuzwe co n'ibanza ifi zirondokeramwo. Bamwe baribagira abandi bakirengagiza ko uko baroba bidaciye mu mategeko, abo barovyi bakitera bo nyene ubukene muri kazoa kandi bagatuma ababakomokako batazogira amahigwe y'ukuronka agafi.

Vyongeye ubuhinga bakoresha mu kuroba kenshi burabujijwe n'amategeko. Akarorero ni nkukuroba bakoresheje umukwabu, urusenga rufise umufuko rufata ikinyabuzima cose kiri muri ako karere, umusipa ukomeretsa amafi mu magage, ukuroba bakoresheje umusegetera ufise udutoboro duto duto, uwu nawo uhitana kira kinyabuzima cose. Vyongeye abarovyi ntibigera bagira ikanya ko kuruhuka canke guhagarika uburovyi mu gihe co kurondoka n'ugukura kwaamafi. Ibikorwa vy'abarovyi vyonona vyigaragariza muri ibi:

- Ugukoresha ubuhinga n'ibikoresho bibujijwe mu burovyi;
- Uguhurumbira kw'abantu batari bake umwuga w'uburovyi mu nzusi zegereye ibibanza bikingiwe.

Inkurikizi: Abarovyi iyo bakoresheje ubuhinga n'uburyo bubujijwe, bafata ibinyabuzima vyose n'abana bavyo. Irundarunda ry'amafi mu mabenga yo mu mashamikirane (ingobetene) y'uruzi Rusizi no mu biyaga biri mu mitumba igizwe n'amazi vyo mu burengero rishobora kugabanuka mbere rikazimangana. Ukutubahiriza ibihe vy'uguhagarika kuroba bituma baroba udufi tukiri duto cane ivyo navyo bigatuma haba igabanuka ridasanzwe ry'amafi.

5. Abasoroma ibiterwa bikoreshwa mu buvuzi kavukire/kama

Abasoroma ibiterwa bikoreshwa mu buvuzi kama bakoresha ubuhinga butandukanye aribwo bw'ubu:

- Ukwamura ivyamwa n'amababi agenewe gukoreshwa mu buvuzi kavukire/kama;
- Ugushishura umutumba w'igitu cane cane ku biti bininibinini ariko rero n'ibiti biggereranye canke bitobito. Mu kubishishura bakoresha imbazo, imihoro, imipanga iyo bashishura umutumba w'igitu, udufuni (udusuka dutoyi), ikimanyu c'igitu gisongoye, imbugita iyo bashishura imizi n'ibindi.
- Ukarandurana igiterwa cose iyo bazi ko ico giterwa kivura cose. Akensi bishika ku vyatsi vyose bivura. Ibikorwa vy' buvuzi kama vyonona bigaragarira muri ibi bikurikira;
- Ugusoroma bakoresheje uburyo n'ubumenyi bwonona ibiterwa kuburyo bimwe bishobora nokuzimangana;
- Igwirirana ry'igitigiri kirenze c'abasoromyi b'imiti y'ikirundi.

Inkurikizi: Haribonekeza igabanuka mbere n'izimangana ry'ubwoko bw'ibiterwa bukoreshwa mu buvuzi kavukire. Hari mbere imiti ikoreshwa mu buvuzi kama iza kuronderwa mu gihugu kibanyi ca Tanzania.

6. Abacukura ubutare n'amabuye

Ugucukura inzahabu, kasiterite na kolota co kimwe n'ubundi butare bisaba kwimba imifurege n'ibinogo vyagutse kandi birebire mbere ugashobora no kugendagenda imetero zitari nke winjira mu kuzimu.

Ivyo ahenshi usanga bikorerwa ku nkengera y'inzuzi ntonto kugirango bashobore gutandukanya ubutare n'amazi. Muri ico gihe rero, kugirango bashoshobore kwimba ubutare, ibiti n'ivyatsi biri ku misozi iriko babanza kubitema vyose hagasigara hera, inkengera z'inzuzi zirasamburwa hanyuma naho ivu bimvyye bakarita mu mazi rirabangamira akarere baritayemwo n'ibinyabuzima vyaho. Kuvyereye ugucukura ibikoresho vy'ukubaka, ivyo vyo mu kubirondera barimba canke bakabikura ku nkengera canke mu nzuzi canke naho bakabikura ku misozi ihanamiye ibibanza bikingiwe.

Inkurikizi: Icukurwa ry'ubutare rirasambura isi n'amashamba cane rikongera rikajuragiza amazi y'inzuzi zo mu bibanza bikingiwe. Akarorero kagaragara n'itituka ry'inzuzi zica mu ruhongore kama rw'igihugu rwa Kibira mu makomine ya Murwi, Bukinanyana, Rugazi na Mabayi. Inzuzi zarataye inzira bigaca bituma amazi atagishika neza mu kiyaya ndimwa ca Rusizi. Imisozi ihanamiye ibibanza bikingiwe irabomagurika iyindi ikanyerera rimwe na rimwe ugasanga umusozi wose wamanutse.

7. Abegetsi

Abavumbi bashira ibitiba vyabo mu mashami y'ibiti birebire cane kugirango bazitire ubwononyi butandukanye buva k'udukoko twonona. Ibiti bimwe bimwe vyo mu bibanza bikingiwe birahurubirwa cane kubera inzuki z'ibitaramwo, ivyo n'avyo ni ingongo, umutuntu, umuyama, umunazi, n'ibindi. Mu bibanza vy'amashamba atugaye neza, ugukora ibitiba via kera bikorwa mu bishishwa vy'ingongo n'umutuntu.

Mu buvumbi bwa kera canke bwa kijambere, uguhakura ubuki babanza gucanira ibitiba kugirango inzuki ntizibarye.

Inkurikizi: Ugacanira ibitiba birashobora gutuma haduka imiriro ya nyakanga nayo igashobora gutikiza ibibanza bikingiwe ibinyabuzima vyinshi bikahatikirira. Kurivyo haca hiyongera ko ihonyangwa ry'ibinyabuzima biri muri ivyo bibanza bikingiwe n'abo bavumbi.

8. Abakoresha amatungo mu myuga mitomito

Kugirango bakore ibikoresho bitandukanye vy'imyuga mitomito, abanyamyuga canke abegeranya barakenera gukura amatungo mu bibanza bikingiwe. Abanyamyuga bonyene nibo baja gusoroma ibikoresho nk'urukangaga, urugagi n'ibindi canke bakabigurira abandi babisoromwe. Mu gihe abantu bakora ivyo bikorwa gusoroma mu bibanza bikingiwe, ntibigera biyumvira ivyo bafise ingene bingana canke ivyo basigaranye bivanye n'ubwoko bw'igiterwa bakoresha kenshi. Ni gake cane aho usanga ubwoko bw'ibiterwa bironderwa biyumvira kubirima mu mihana iwabo, aho twovuga nk'umugano.

Inkurikizi: Mu mihingo itari mike, biragaragara ko amatungo y'ibinyabuzima akoreshwa mu mu myuga mitomito atera agabanuka bimwe biteye ubwoba: nk'urukangaga mu bibanza bikingiwe cane cane mu ruhingore kama rw'ighugu rwa Kibira, urugagi mu karere kagizwe n'ishamba ka Kigwena.

9. Abacana amakara n'abaca ibiti vy'ugucana

Mu bibanza bikingiwe vyose haribonekeza igikorwa c'ukurongera inkwi z'ugucana. Ivyo bikorwa n'abanyagihugu begereye ivyo bibanza mukinyegero cane cane abagore n'abana, aho bagerageza kwinyegeza abajejwe gucungera ivyo bibanza. Ico gikorwa gikorwa gutya:

- Ugutoragura inkwi zumye cane cane amashami aba yakorotse hasi canke kuvuna amashami ku gitu cumye canke naho ukwicira igitu kikiri kibisi kugirango baze bagikoreshe cumye;
- Uguca ibiti kugirango bacanemwo amakara canke bashobore kuyiga amafi. Mu bisanze, uguca amakara mu micungararo y'udusagara duto duto bituma haba ubwoko bumwe bumwe bw'ibiti butaboneka cane cane umunazi, umubanga, umufute, umutabataba, n'ibindi.
- Ugucana amakara niko kugeraniye biboneka amashamba yo mu misozi.

Inkurikizi: **Ukurondera inkwi mu bibanza bikingiwe, ugucana amakara n'ukuyiga amafi biri mu rukwirikirane rw'ibituma igabanuka ry'ibinyabuzima.** Ubwoko butandukanye bw'amashamba canke bw'ibisanze biragabanuka kubera ko ubwoko bazi cane canke bakunze gukoresha busoromwa ku rugero rudasanzwe. Avyo ni nk'umunazi. Aho twokwongerako imiriro ya nyakanga ishobora kuba akananira bahinga kubera ivyo bikorwa bitandukanye twavueze.

10. Ababaji b'imbaho

Mu kurondera ibiti bivamwo imbaho nziza, ababaji bikora ku biti vy'ishamba biri mu bibanza bikingiwe. Kubera ivyo, haraba ugutororokanya ibiti bizwi ko bishobora kuvamwo imbaho nziza cane zihurumbirwa na bose. Ibiti vy'ishamba biraronderwa kandi mu kubaza ubwato n'ibindi bikoresho. Mu bihe bimwe bimwe, ubwoko bw'ibiti mva makungu nk'igeleleveliya, umukaratusi vyo kubaza buraterwa mu bibanza biri ku nkengera y'ibanza bikingiwe. Ibikorwa vy'ababaji vyonona bigaragarira muri ibi bikurikira:

- Guca igitigiri kinini c'ibiti bivamwo imbaho;
- Ugutera ubwoko bw'ibiti bibungabunga amashamba n'ibinywana n'indimo:

Inkurikizi: Ukubaza ni niyo mvo ikomeye cane ituma igabanuka canke izimangana ry'ubwoko bw'ibimera. Nico gituma ukubaza kugeramiye cane ibimera vyo ku rwego rwo hejuru nk'umuyove, umushishi, umuremera, umwuzuzu, umufuke n'umuhuririzi kandi uguca ibiti kugirango babikoremwo ubwato bwo kuroba navyo birafise ingaruka ku bundi bwoko bw'ibiti nk'umukerekwa, umurorankona, umusorora, umuremvyia.

III. UGUHAMAGARIRA ABENEGIHUGU BEGEREYE IBIBANZA BIKINGIWE KWITANGA BIBONEKA MU KUBIBUNGABUNGA

Abanyagihugu n'abasangwabutaka bafise uruhara ruhambaye cane mw'itituka ry'ibanza bikingiwe. Kubera ko mu kubaho bwabo bikora cane ku matungo kama ari mu bibanza mparirwabuzima kama, ntibashobora kwitanga mw'ibungabungwa ry'ibanza bikingiwe. Kugira ngo habe igihinduka, ukwitanga biboneka kw'abenegihugu begereye ibanza bikingiwe mu kubibungabunga birakenewe cane kandi hagakorwa ibikorwa nyamukuru bikurikira:

1. Igikorwa nyamukuru: Gufata ingingo zo kurwanya ugutema amashamba barondera aho barima mu bibanza bikingiwe n'uguteza iterambere uburimyi burama ku nkengera y'ibanza bikingiwe

Inyigisho nyamukuru: Tuvavanure n'ukuronderera amatongo y'ukurima mu bibanza bikingiwe, twijukire uburyo bwiza bw'ukurima kugirango duteze imbere umwimbu w'uburimyi

Intambamyi zo kurwanya:

- Ukutaronka ibitabizo bikwiriye mu gisata c'uburimyi;
- Abarimyi barahonyanga ibanza bikingiwe;
- Ukutamenya inkurikizi z'ugutema amashamba ku binyabuzima biri mu bibanza bikingiwe;

- Ugukoresha uburyo bw'ukurima bwa kera nabwo bukaba bwonona isi (kurima amaduga ku musozi bituma inkukura iba ndanse, kurima igiterwa kimwe ibihe vyose navyo nyene bironona isi; n'ibindi;
- Ugutema amatongo y'ukurima manini cane harenzwe imbibe z'ibanza bikingiwe.

Inyishu zipfuzwa:

- Kudoma ko urutoke abantu biha amatongo mu bibanza bikingiwe hadakurikijwe amategeko;
- Guca imikobeko irwanya inkukura n'ukuyiterako ivyatsi;
- Gutera ibiterwa vyinshi mu murima kugirango baronke umwimbu mwinshi ku gatongo gato baba barimye;
- Gukoresha umwawu w'ikizungu uvanzé n'uwigirundi kugirango umwimbu w'uburimyi wongerekane.

2. Igikorwa nyamukuru: Gufata ingingo zo kurwanya ukuragira mu bibanza bikingiwe mu ntumbero yo kurwanya itituka ry'ibinyabuzima muri ivyo bibanza mparirwabuzima kama

***Inyigisho nyamukuru:* Dutere ivyatsi ukuragira mu bibanza bikingiwe.**

Intambamyi zo kurwanya:

- Ukaragira birenze urugero mu bibanza bikingiwe;
- Ukwirengagiza inkurikizi z'imiriro ya nyakanga ku binyabuzima biri mu bibanza bikingiwe;
- Ukwirengagiza akamaro k'ukugumiza n'ukugaburira ibitungwa mu mpongore;

- Ukuragira ibitungwa biratuma itituka ry'ibibanza bikingiwe (aha twovuga uruhongore kama rw'ighugu rwa Rusizi aho rumaze kuba ikirimbiro ry'ibitungwa);
- Uguturira imiriyo ya nyakanga mu kurondera umuyonga (aho ni mu ruhongore kama rw'ighugu rwa Ruvubu);
- Ukutagumiza ibitungwa mu mpongore kugira ngo ntihabe uruja n'uruza rw'ibikoko mu mpongore kama.

Inyishu zipfuzwa:

- Guhurikira mu mashirahamwe kugirango bashobore kuronka inyigisho zijanye n'akamaro k'ukwororera mu ruhongore;
- Kurima ibiterwa bafungurira ibitungwa kugirango bashobore kugumiza n'ukugaburira ibitungwa vyabo mu mpongore;
- Kudoma urutoke abarenze amategeko;
- Gushinga amakomite kugirango bashobore kuzinywa ari benshi igihe imiriyo ya nyakanga yadutse;
- Kurima ibiterwa bifungurirwa ibitungwa ku mikobeko irwanya inkukura iri mu ndimo;
- Gutunganya nyabarega n'ukwijukira gukoresha amase /umwavu w'ikirundi mu ntumbero yo kuduza umwimbu w'uburimyi.

3. Igikorwa nyamukuru: Gufata ingingo zo guhagarika uruhigi mu ntumbero y'ukubungabunga ibinyabuzima bigizwe n'ibikoko vyo mu bibanza bikingiwe mu Burundi

Inyigisho nyamukuru: Turwanye uruhigi mu bibanza mparirwa-buzima kama kugirango habe ukubungabunga ibinyabuzima vy'ubwoko bw'ibikoko

Intambamyi zo kurwanya:

- Uruhigi rukorerwa ubwoko bw'ibikoko buriko burazimangana;
- Ugukoresha uburyo bubujijwe mu ruhigi.

Inyishu zipfuzwa:

- Kudoma ko urutoke abantu bose bakora uruhigi;
- Kuja mu mashirahamwe n'ugutunganya imigambi mitomito y'ubworozzi ku bantu begereye ibibanza bikingiwe.

4. *Igikorwa nyamukuru: Gukora uburovyi bujanye n'ukubungabunga ibinyabuzima mu nzusi, ibiyaga n'amabenga vyo mu bibanza bikingiwe*

Inyigisho nyamukuru: Dukoresho insenga zemewe mu burovyi kugira tubungabunge birama ibinyabuzima vyo mu mazi

Intambamyi zo kurwanya:

- Ukuropa birenze urugaro mu biyaga n'inzuzi zo mu gihugu;
- Ugukoresha uburyo n'ubuhinga bibujijwe mu burovyi;
- Uktagira iyindi mirimo yosubirira amatungo kama yo mu bibanza bikingiwe kandi igatanga uburyo bw'amafaranga;
- Ubworozzi bw'amafi budateye imbere ku nkengera y'ibibanza bikingiwe.

Inyishu zipfuzwa:

- Guhurikira mu mashirahamwe kugirango baronke inyigisho bitagoranye bongere bahimirizanye ku vyerekeye inkurikizi z'ukuroba birenze urugero;
- Kudoma urutoke abarovyi bakoresha ibikoresho bibujijwe (umukwabu, gukoresha umusegetera, gukoresha uburozi, gukoresha ibikoresho bikanga ifi);
- Guhurikira mu mashirahamwe kugira bijukiregukora iyindi myuga mu nnumero y'ukugabanya igitigiri kinini c'abantu bari mu myuga w'uburovyi;
- Gutunganya amasekeza yo kurwanya ibikoresho bibujijwe.

5. Igikorwa nyamukuru: Gutunganya neza uburyo bw'ugusoroma ibiterwa bikoreshwa mu buvuzi kama bwubahiriza ibinyabuzima biri mu bibanza bikingiwe

Inyigisho nyamukuru: Twubahirize uburyo bwiza bw'ugusoroma ibiterwa bikoreshwa mu buvuzi kama mu bibanza bikingiwe.

Intambamyi zo kurwanya :

- Ugusoroma ibiterwa bakoresha mu buvuzi kama bataravye ibiri mu bibanza bikingiwe uko bingana;
- Ukutubahiriza ubuhinga bwubahiriza ibidukikije mu gusoroma ibiterwa bikoreshwa mu buvuzi kama;
- Ukutarima uwoko bw'ibiterwa burondererwa mu bibanza bikingiwe.

Inyishu zipfuzwa:

- Gusaba uburenganzira bw'ugusoroma ibiterwa bivura;
- Kuja mu mashirahamwe kugirango vyorohe kubaronswa inyigisho zijanye n'ubuhinga bw'ugusoroma buziganya uwokoko bw'ibiterwa bivura bironderwa cane;
- Kurima mu ngo uwokoko bw'ibiti bivura mu matongo yo kurima.

6. Igikorwa nyamukuru: Gufata ingingo zo guhagarika icukurwa ry'ubutare n'amabuye mu nnumbero y'ukubungabunga ibinyabuzima

Inyigisho nyamukuru: Turwanye ibikorwa vy'ugucukura ubutare n'amabuye mu bibanza bikingiwe

Intambamyi zo kurwanya:

- Itituka ry'imitumba y'ibanza bikingiwe bivuye kw'icukurwa ry'ubutare;
- Itituka ry'imitumba y'ibanza bikingiwe bivuye k'ugucukura ibikoresho vy'ukubaka.

Inyishu zipfuzwa:

- Kudoma urutoke ku bantu bose bakora ibikorwa ry'ugucukura ubutare mu bibanza bikingiwe;
- Kuja mu mashirahamwe no gusaba uburenganzira bw'ugucukura ubutare inyuma y'ibanza bikingiwe;
- Kuja mu mashirahamwe kugirango bashobore kuronka inyigisho zerekeye ingaruka mbi z'ugucukura ubutare mu bibanza bikingiwe;

- Gushiraho amakomite y'ugukurikirana ko ibibanza vyacukuwemwo ubutare n'amabuye vyasubirijwe.

7. Igikorwa nyamukuru: Kubungabunga ibibanza mparirwabuzima mu guteza imbere ubuvumbi bwa kijambere

Inyigisho nyamukuru: Duhurikire mu mashirahamwe kugirango duteze imbere ubuvumbi bwa kijambere mu kubungabunga ibibanza mparirwabuzima kama.

Intambamyi zo kurwanya:

- Ukutamenya kw'abavumbi ingaruka mbi igikorwa cabو gishobora kuzanira ibibanza bikingiwe;
- Ukwirengagiza ubworozi bw'inzuki bwa kijambere;
- Igwirirana ry'imiriro itikiza ibibanza bikingiwe bivuye ku miriro yo gucanira ibitiba biri inyuma canke mu bibanza bikingiwe;
- Igwirirana ry'ibitiba vya kera bituma haba ugutema ku bwinshi ubwoko bw'ibiti vyogukoramwo ibitiba.

Inyishu zipfuzwa:

- Kuja mu mashirahamwe kugirango vyorohe kuronswa inyigisho zitandukanye zerekeye inkurikizi z'imiriro ya nyakanga ikomotse ku bworozi bw'inzuki ku binyabuzima;
- Guhurikira mu mashirahamwe kugirango bijukire ubuvumbi bwa kijambere ku nkengera y'ibibanza bikingiwe;
- Gukoresha ubuhinga bugezwewho bwo gucanira ibitiba vya kijambere buateza imiriro naho hoba ku bitiba kavukire;

- Guhamagarira abanyagihugu bose kuziramya mu gihe hadutse imiriro uturutse ku k'ubuvumbi.

8. Igikorwa nyamukuru: Gushiraho uburyo bw'ugukoresha amatungo y'ibinyabuzima akoreshwa mu myuga mitomito bushira imbere ukuramba k'ubudasa n'ubugwirirane bw'ibinyabuzima n'aho biba

Inyigisho nyamukuru: Tuje inama n'ingingo n'abajejwe gutunganya ibibanza bikingiwe kugira ngo habe ugusoroma neza ubwoko bw'ibiterwa bikoreshwa mu myuga mitomito.

Intambamyi zo kurwanya:

- Ukutamenya ingene ubwoko bw'ibimera bikoreshwa mu myuga mitomito bibayeho;
- Ukutamenya uburyo bwa kera bw'ugusoroma ibimera bikoreshwa muri uyo myuga;
- Ubuto bw'amatongo kugirango bashobore kurima ibiterwa bikoreshwa muri iyo myuga
- Abakoresha ivyo biterwa bikora muri iyo myuga ntibaraba ivyo bafise ingene bingana;
- Ukutarima bikwiriye ibiterwa bikoreshwa mu myuga bisunze amatongo mato bafise.

Inyishu zipfuzwa:

- Kuja mu mashirahamwe kugirango baronke inyigisho zerekeye ingene ibiterwa bikoreshwa mu myuga mitomito bibayeho no ku buryo butabujije bwo kubisoroma;

- Gutera ibiterwa bikoreshwa mu myuga mitomito n'aho amatongo ari mato (twovuga nk'umugano);
- Gusaba impusha ku bajewe gutunganya ibibanza bikingiwe kugirango baronke biciye mu mategeko amatungo bakoresha mu myuga mitomito.

9. Igikorwa nyamukuru: Gutunganya neza ubushakashatsi ku matungo y'ibinyabuzima aronderwa mu bibanza bikingiwe akoreshwa Gucana kugirango tubungabunge ibinyabuzima

Inyigisho nyamukuru: Ntidushigikire/Duce intge ukuronderera inkwi zo gucana n'uguca amakara mu bibanza bikingiwe.

Intambamyi zo kurwanya:

- Itituka ry'amatungo y'ibinyabuzima yo mu bibanza bikingiwe bivuye k'ukuronderera inkwi zo gucana;
- Abakoresha amakara ni benshi cane ibiti avamwo bitakiboneka ivyo navyo bibaka inkomoko y'itituka ry'ibanza bikingiwe;
- Ugusesagura intanganguvu n'ibiti vyinshi vyo gucana birunyura itituka ry'amatungo atari ibiti yo mu bibanza bikingiwe;
- Ukatagira ibisubirira inkwi n'amakara;
- Ugukena kw' inkwi n'ibindi vyose vyo gucana mu micungararo y'ibanza bikingiwe;
- Ugukoresha birenze urugero amakara ava mu biti cane cane mu bisagara biragira ingaruka kw'itituka ry'ibanza bikingiwe;
- Ukudakoresha bihagije amaziko aziganya inkwi n'amakara ari navyo vyotumye abirukira amatungo y'ibinyabuzima yo mu bibanza bikingiwe bagabanuka;

- Ukudakoresha bikwiriye ibindi vyosuburira inkwi n'amakara ariyo yoje gutezurira amatungo agizwe n'ibiti yo mu bibanza bikingiwe.

Inyishu zipfuzwa:

- Guhurikira mu mashirahamwe kugirango haterwe ibitara vy'ibiti mu micungararo y'ibanza bikingiwe;
- Kwijukira gutera udutara tw'ibiti mu miryango kugirango baze baravyikoreko;
- Gutema badakuzako mu gihe bashaka kugurisha ibitara vy'ibiti biri ku nkengera y'ibanza bikingiwe;
- Gukoresha amaziko n'amashiga ya kijambere kugirango baziganye ibiti;
- Kuja mu mashirahamwe kugirango bashobore kuronka inyigisho zitandukanye zijanye n'ubuhinga bw'uguca amakara buziganya ibiti.

10. Igikorwa nyamukuru: Kurwanya ukubaza mu kinyegero mu bibanza bikingiwe mu ntumbero y'ukubungabunga ibinyabuzima

Inyigisho nyamukuru: Turwanye ukugaza bidaciye mu mategeko mu bibanza bikingiwe mu gutera ubwoko bw'ibiti bibazwa ku nkengera y'ibanza bikingiwe

Intambamyi zo kurwanya:

- Ukubura ibindi biti bibazwa bituma harondera ivyo mu bibanza bikingiwe;

- Ubukene bw'ibiti bivamwo imbahو ku nkengera y'ibanza bikingiwe n'ahandi hose mu gihugu;
- Ukubandanya kubaza mu kinyegero mu bibanza bikingiwe;
- Ukugenda hazimangana ubwoko bw'ibiti bivamwo imbahо ku nkengera y'ibanza bikingiwe.

Inyishu zipfuzwa:

- Kudomako urutoke abantu bakora ibikorwa vy'ukubaza imbahо mu kinyegero;
- Gutera ubundi bwoko bw'ibiti buvamwo imbahо mu matongo y'ahegereye ibanza bikingiwe.

UGUSOZERA

Urugero rw'ukwitanga kw'abanyagihugu begereye ibanza bikingiwe mu kubungabunga ibanza bikingiwe ntirushemeye. Ivyo bigasi-gurwa n'uko ibanza mparirwabuzima kama bibandanya bitituka. Ukwitabira bimwe biboneka kw'abanyagihugu begereye ivyo bibanza kuguma ari nkenerwa cane kugirango turushirizeho gukingira amatungo kama yo mu bibanza bikingiwe. Turasavye rero abene-gihugu ngo baze bagire izabo inyigisho ziri muri aka gatabo kandi bagire uruhara ruboneka mu kubungabunga ibinyabuzima.