I. IMBONEZAMASOMO Y'UBUTETSI ✓

1. Gutegura ibinyobwa bimara inyota
2. Gutegura ibinyobwa bishyushye
3. Ibinyobwa bilimo imyunyu y'ubutaka na vitamine.
4. Ibinyobwa bilimo alukoro

   Imyunyu y'ubutaka na vitamini mu milire

5. Gutegura ibilyo bilimo imyunyu y'ubutaka na vitamine.

   . Vitamini za ngombwa

6. Gutegura ibilibwa bilimo poroteyine zituruka ku nyamaswa cg ku bimera:
   - ibiranga poroteyine
   - guteka amafi
   - guteka amagi
   - guteka ibinyamisogwe

7. Gutegura ibilibwa bilimo ibinyasukali
   - Amoko y'inyasukali n'ibibiranga
   - gutegura ibilibwa bilimo seliloze
   - gutegura ibilibwa bilimo amido

8. Gutegura ibilibwa bilimo ibinyamavuta
   - Amoko y'ibinyamavuta n'ibibiranga
   - gutegura amavuta avanze n'ibitemba
   - gutegura amavuta avanzemo

     Iyo bitivanze neza

     Iyo byivanze neza

9. Gutegura igaburo lya mu gitondo dukoresheje ibilibwa dufite ku bulyo budushobokeye.

10 Gutegura igaburo likwiliye abakuru, abana bato, ingimbi n'abangavu.

11 Gutegura igaburo lyuzuye likwiranye n'umunsi mukuru.

II. Imilimo yo mu RUGO. ✓

1. Gukenura no gusukura Ibyo mu rugo
   - gusukura aho dutuye
   - gusukura ibikoresho byo murugo
   - gufata neza imyenda n'inkweto

2. UBUDOZI
   - gusana ikore
   - Iyongerwa ly'uburebure bw'ikanzu
   - uteye ibitambaro hagati mu ngutiya
   - kudoda agakanzu k'umwana

.../...

3. Ubuzima bw'umwana na nyina
   - Imyanya y'umugore
   - Imyanya y'umugabo
   - Indwara zifata ibitsina
   - Ingaŧukagihe y'umurerantanga
   - kujya mu mugongo
   - gutwita
   - Imyifatire y'umugore utwite
   - Impanuka z'umugore utwite
   - ukubyara
   - uko bafata uruhinja na nyina

III. ISUKU N'UBUTABAZI ✓

1. Ilibuliro
2. Isuku y'umubili
   - Ibyanduza umubili
3. Isuku y'imyambaro
   - gusukura no gufata neza imyambaro
4. Isuku y'aho dutuye
   - urugo
   - Imiterere y'inzu
   - Ibiranga inzu yubatse ku bulyo buboneye
   - gusukura aho dutuye.

5. Indwara zo mu mutwe
   - Ibitengo
   - Igiculi
   - Guta umutwe
6. Ukwilirana
   - Ivilirana ly'imyuna
   - Kwira imbere
7. Gupfukiranwa
   - kwimanika no kunigwa
   - gufatwa n'umuliro w'amashanyarazi
   - kurohama

8. Kugubwa nabi bw'igihe gito
   - Guhinda umuliro
   - Kurwara ibicurane no guhindurwa
   - Inkorora
   - Kugugalirwa
   - kurwara umutwe
   - kunnya impatwe
   - guhitwa

.../...

9. Kuvunika - gutsikira - kugira ubundi bubabare

- Infunira
- Ibusana ly'amagufwa
- Ikonyoka ly'amagufwa
- Kuraba kw'imitsi
- ubundi bubabare

IV. AMAFISHI Y'UBUHINZI N'UBWOROZI

Ifishi N° 1. Igihingwa
2. Amashu
3. Leti
4. Shikore
5. Tetaragoni - epinari
6. Puwaro
7. Rubarube
8. Inyanya
9. Intolyi
10 Puwavro
11. Urusenda
12 Umwungu
13 Karoti
14 Beterave - nave - radi
15 Igitunguru

! 16. Eshalote - tungurusumu
! 17. Imbonerahamwe y'ubuhinzi bw'imboga
! 18. Igishyimbo
! 19. Amashaza - amageli
! 20. Soya
! 21. Ubunyobwa
! 22. Ikigoli
! 23. Amasaka
! 24. Ingano
! 25. Uburo
! 26. Insina
! 27. Amateke
! 28. Umwumbati
! 29. Ibijumba
! 30. Ikirayi

V. Amabwiliza yo gutunganya imilimo y'ubuhinzi n'iyo 'Ubworozi

- Kugeregeza ububasha bwo kumera bw'imbuto
- Gutegura umutabo w'imboga
- Pepinyeli y'imboga
- Pepinyeli y'ibiti by'amashyamba cyangwa by'imbuto
- Ingarani y'ifumbire - ikimpoteli
- Gutera imbuto
- Kalendali y'ubuhinzi bw'imboga
- Kugemulira ingemwe muli pepinyeli
- gusimburanya no kubisikanya imyaka
- Ikaye yo kwitegereza amatungo
- ifishe yo kwitegereza amatungo
- Kubara amafranga yavuye mu bihingwa
- Kubara amafranga ava mu bworozi
- Amafranga nsaranganywa yatanzwe
- Kubara inyungu nyakuli y'umuhinzi

.../...

- Guteka itomati
- Kurwanya isuli byoroheje
- Kubaka inzu y'inkoko
- Kubaka inzu y'intama
- Uko bakora pula y'umulima w'ishuli
- Ubutaka.

Imyuga mu myaka ya mbere y'amashuli
agamije amajyambere y'imyuga

Muli iyi myuga tulibanda k' - UBUBAJI
- UBWUBATSI
- UBUCUZI

Iyi myuga igamije :
- Kunononsora ibyo abanyeshuli bize muwa kalindwi n'uwa munani
- Gutuma bifatira neza ibikoresho
- Kwikorera ibikoresho - fatizo byo mu rugo bikenerwa cyane.

UBUBAJI

Mubiteganywa gukorwa n'abanyeshuli bo mu wambere hali:
- Ubugamba
- Agasanduku k'ibikoresho
- Inzu y'inkwavu
- Intebe y'invunwa
- Ibizingiti
- Ikaderi
- Udutebe

Ibikoresho by'ingenzi bakoresha mu itunganya ly'iyi milimo, n'amabwiliza, bikubiye mu gitabo nteganya-nyigisho.

a) Ubugamba: Ubugamba ni igikoresho cy'ingenzi mu itunganya ly'umulimo w'ububaji. Abanyeshuli bashobora kwikorera ubugamba bakoresheje imadiriye batera kumambo 2 z'ibiti bashinga mu butaka Kugirango ubugamba bumere neza, ni ngombwa gukulikiza ingero na pula bili mu gitabo cy'amafishi.

b) Isanduku y'ibikoresho ituma bashobora gushyingura ibikoresho nyuma y'akazi ntibyandagare.
Ikoreshwa imbaho bagomba guteranya bakulikije ingero na pula byatanzwe mu gitabo.
Ntibapfa guteranya imbaho uko babonye, bagomba gushyira indangamwanya ku mbaho, bigatuma bamenya umwanya wa buli ngere.

c) Inzu y'inkwavu: Umunyeshuli uli muwa mbere w'amashuli y'imyuga ashobora kwikorera bitamuruhije inzu y'inkwavu, kuko n'ubworozi buli mu ntego zayo.
Inzu y'inkwavu yo igomba ibikoresho byinshi by'imbaho n'imihilima (kureba pula)
Kubera ko inkwavu zitaba k'ubutaka, inzu yazo igizwe ahanini n'imbaho, igomba kuba ili ku mihilima

.../...

ku mihilima 4 ikomeye iteye mu butaka.
Ikizingiti cyo hasi kigomba guhitisha imyanda, icyo hejuru gitwikilizwa amadebe kugirango inkwavu zitanyagirwa. Gutunganya iliro ly'inkwavu no guca udusika mu nzu yazo ni ngombwa.

d) Gukora intebe y'invunwa

Intebe y'invunwa ikoreshwa imbaho zibaje neza.
Gukora amateranyilizo menshi y'izo mbaho bakoresheje inkarwa, hagomba rero indangamwanya ku mbaho bituma bamenya umwanya wa buli rubaho mu mbaho zose zigomba gukora intebe.

e) Gukora ibizingiti

Ibizingiti bigizwe n'insobeke bagomba kudanangira bakoresheje imisumali: hali kandi n'imbaho.
Nyuma y'iteranya bagenzura : ubuhengame, ubugororoke n'ingero.

f) Gukora Ikadere

Hagomba amateranyilizo y'intumwa n'umwinjiro, bagateranya imbaho, kadere igomba: kudahengama kugororoka, kuba ili ku rugero.

g) Gukora agatebe

Umunyeshuli yakwishimira gukora ibintu bikemurwa cyane imuhira, ahereye kubyoroshye nk'udutebe tw'utubaho, imidaho, ameza, imihini, byatuma anishakira ibindi bikoresho byo kubaza, akabaza akoresheje imihoro cyangwa imishyo n'ishoka.......

Va. UBWUBATSI

Mu bwubatsi bwa kijyambere, kandi bakoresheje ibintu bidahenda,

.../...

batoranyije gukoresha rukarakara.

Iyoboramasomo ly'ubwubatsi liteganya amasomo akulikira:

- gutegura aho babumbira rukarakara
- kubumba
- kubaka intebe y'inzu
- kubaka akazu gafite akamaro.

a) <u>Gutegura aho babumbira Rukarakara</u>

Ni naho bagomba kwitoreza no kubakira
hagomba kuba hafi y'ishuli kandi bashobora kubona amazi bitabaruhije
Batoranya igitaka cyiza, bakita no k'umubare w'abanyeshuli bagabanyamo amakipi.
Ni byiza ko abanyeshuli babanza gusura amashantiye yo hafi kugirango bamenye ibikorwamo.
Nyuma bagahitamo aho bakorera bakiyegereza amazi, gutunganya ahakorerwa, no kubaka ikibandaholi cyo kwanika rukarakara ni ngombwa.

b) <u>Kubumba rukarakara</u>

Babanza guhitamo igitaka (cyiza); bagategura n'ibyo bashobora kuvangamo (ibyatsi), bakabumba bakoresheje urutiba bashobora kwibaliza mu masomo y'ububaji, nyuma bakanika mu kibandaholi.

c) <u>Kubaka Fondasiyo</u>

Uko igomba kungana biterwa n'ubukomere bw'ubutaka n'inzu bashaka kuyubakaho. Bashinga imbonezantebe, bagaca imisingi, bagategura n'isaso ya fondasiyo

D) <u>Kubakira urukuta kuli fondasiyo</u>

Bakoresha fondasiyo bubatse mbere, batangira umurongo babanje gushyiraho icyondo cyangwa sima kugirango itafali lifate. Imikotero ikulikiranye ntigomba kugerekerana.

e) <u>Kubaka urukuta rw'inguni</u>

Bubaka urukuta rw'inguni babanje kugera no gutera imbonezantebe, kubaka intebe y'infuruka, kubaka urukuta rw'inguni, bagakotera uruhande rw'inyuma.

f) <u>kubaka akazu</u>

Nyuma y'iyi milimo yavuzwe hejuru, abanyeshuli bashobora kugira icyo biyubakira nk'icyibuti cy'inkoko cyangwa ikiraro cy'inka bakoresheje ubulyo bwose bwavuzwe.

Abanyeshuli bashoboye kwikorera iyi milimo bashobora kwisanira no kwiyubakira amazu mato bitabaruhije.

.../...

VIII UBUCUZI

Mu bucuzi si ngombwa ko abanyeshuli bakoresha ibintu bihenda bagombye kugura, bashobora gukoresha ibiboneka iwabo nk'ibice by'amabati, amadebe n'ibindi.........
Mu bikubiye mu gitabo cy'imyuga umwalimu ashobora kwongeraho ibisa nabyo bitewe n'ibikoresho biboneka.

a) Umwiko

Ukoreshwa ibati ferabeto bakulikije ingero n'amabwiliza ali mu gitabo, ibyo byatuma umunyeshuli ashobora kwikorera umwiko akoresha mu bwubatsi.

b) Ikigemuzo

Gikoreshwa ibati, babanza gutema ibyuma, gusena, guheta ibati, gufukura, gutobora no gutera amarive.

d) IPANU

Bakoresha ibati n'umuhini
Imilimo ikorwa ni nk'iyo hejuru bifashije n'igishushanyo.

e) Imbabura

Ikorwa mu mabati,umukondo ni ferabeto, igizwe n'; impeta, indiba, uruti, umukondo, akayunguruvu n'igitereko cy'inkono.

f) Umuvuba

Umuvuba ugizwe n'ingere z'ibiti, amacuba abili agizwe kandi n'inkero babumba, bakayanika bakayitwika.
Habaho n'icyahi gikorwa mu mpu cyangwa mubishamburayeli
Bakoresha umuvuba iyo bashongesha ibyuma.

Kubera ko ibyo gucura bitabura, nk'amabati, amadebe,.....
Abanyeshuli bashobora kwikorera ibikoresho bakeneye mu rugo nk'ibyo gukoresha ali mu bubaji cyangwa mu bwubatsi.

Karagire Joseph

[signature]

le 17/01/1984.

IX KUBAZA - GUSHUSHANYA

Umwaka wa kabili w'amashuli agamije amajyambere y'imyuga

Ibili muli iki gitabo

A. Gushushanya

1. Gushushanya uruhengu rw'icyo bakora
2. Gushushanya ubuteme bwahuranya n'ubwatira bw'ibyo bakora

B. Ububaji

1. Inshakagende
2. Inshakabanza
3. Gukora intamike ifite akabanza
4. Gukora inseseke ifite akabanza
5. Gukora inseseke ifite akagende
6. Gukora ikizingiti cy'urugi
7. Gukora ikizingiti cy'idilishya
8. Gukora idilishya ly'ibirahuli
9. Gutera amapata ku nzugi n'amadilishya
11. Gukora urwego
12. Gukora intebe isanzwe.

X AMAFISHI NSIGANUZI Y'IBIKORWA MU BUBAJI

Umwaka wa mbere w'amashuli agamije amajyambere y'imyuga.

Ibili muli ikigitabo

01) Idendura
02) Urukero
03) Ityazo ly'inkero
04) Guteranyisha imisumali
05) Inguni
06) Umusyi wo gushorura
07) Agacamirongo iteganye
08) Imbazo ndende
09) Ityaza ly'ibikoresho
10) Iramvura, kubaza
11) Indangamwanya
12) Amapatasi
13) Amateranyilizo y'inkarwe
14) Ipatasi, inshukuramwinjiro
15) Gukora intamike
16) Intumwa
17) Ikorwa ly'umwinjiro
18) Guteranya

.../...

19) Igifashi
20) Igicukuzo
21) Imigera
22) Kudanangiza imisumali
23) Iturunovisi
24) Amavisi bakoresha mu biti
25) Imbazo ngufi
26) Inkwaruzo
27) Gusena imbaho

XI UBWUBATSI

AMAFISHI Y'IMILIMO

Umwaka wa mbere w'amashuli agamije amajyambere y'imyuga.

Imbonerahamwe y'amafishi

- Rukarakara : Ihitamo ly'igitaka
- Rukarakara
- Isiza ly'ikibanza
- Intebe y'inzu
- Inkuta zigororotse
- Inkuta z'amaguni
- Igikwa
- Umwinjiro
- Uruhomo

XII GUSHUSHANYA

I Gushushanya ikintu cyuzuye cyangwa ibice byacyo
II Kwandika inyuguti n'imibare by'ingeli
III Guca imirongo kimenyabose
IV Gushushanya ukoresheje ihindurangano
V Gushushanya purisime uruhengu ufite ikaramu gusa
VI Gushushanya purisime uruhengu nifashisha ibikoresho

XIII AMATEKA

Ubumenyi bw'isi

Uburere mboneragihugu

Amateka

I. Imbanzilizamateka

A. umwaduko w'umuntu ku isi

1. Ibyiciro by'iterambere by'ubwoko-muntu
2. Aho abantu ba mbere baba barabaye

B. Ibice by'ingenzi by'imbanzilizamateka

1. Igihe cy'isaturabuye
2. Igihe cy'isenabuye
3. Igihe cy'ikoreshabyuma.

C. Afurika mu gihe cy'imbanzilizamateka

1. Umwanya w'Afurika mu bumenyi bw'imbanzilizamateka
2. Ahantu h'ingenzi ho muli Afurika havumbuwe ibintu by'igihe cy'imbanzilizamateka
3. U Rwanda mu gihe cy'imbanzilizamateka

   Isuzumabumenyi.

II. Itundwa ly'abirabura

1. Impamvu zateye itundwa ly'abirabura
2. Uko itundwa ly'abirabura lyagenze
3. Inkulikizi z'itundwa ly'abirabura
4. Icibwa ly'itundwa ly'abirabura

   Isuzumabumenyi.

UBUMENYI BW'ISI

I. Ibihugu bikikije u Rwanda

A. U Burundi

1. Imiterer y'u Burundi
2. Imitegekere y'u Burundi
3. Ubukungu bw'u Burundi

   Isunzumabumenyi

B. Zayire

1. Imiterere ya Zayire
2. Imitegekere ya Zayire
3. Ubukungu bwa Zayire

   Isuzumabumenyi

C. Uganda

1. Imiterere ya Uganda
2. Imitegekere ya Uganda
3. Ubukungu bwa Uganda

   Isuzumabumenyi

D. Tanzaniya

1. Imiterere ya Tanzaniya
2. Imitegekere ya Tanzaniya
3. Ubukungu bwa Tanzaniya

   Isuzumabumenyi

II. Ubukungu bw'u Rwanda

1. Ibihingwa ngandurarugo
2. Ibihingwa ngandurabukungu
3. Ubworozi
4. Ubucukuzi
5. Inganda

6. Imyuga
7. Ibikoresho byo mu myuga ya Kinyarwanda
8. Isuzumabumenyi
9. Ubucuruzi mu gihugu
10. Amayira n'ibikoresho
11. Amasoko mu Rwanda
12. Imilyango y'ubucuruzi
13. Ubucuruzi bw'u Rwanda n'amahanga
14. Isuzumabumenyi

Uburere mboneragihugu

Imilyango mpuzamahanga.

I. Umulyango w'ubukungu w'Ibihugu bituliye ibiyaga binini (C.E.P.G.L.)

1. Amavu n'amavuko
2. Intego za C.E.P.G.L.
3. Ibikorwa bya C.E.P.G.L.

II. Umulyango w'Ibihugu bituliye icyogogo cy'Akagera (O.B.K.)

1. Amavu n'amavuko
2. Intego ya O.B.K.
3. Ibikorwa bya O.B.K.

III. Umulyango rusange w'Ibihugu by'Afuliko n'Ikirwa cya Morise (O.C.A.M.)

1. Amavu n'amavuko
2. Intego ya OC.A.M.
3. Ibikorwa bya O.C.A.M.

IV. Umulyango w'ubumwe bw'Afurika (O.U.A.)

1. Amavu n'amavuko
2. Intego ya O.U.A.
3. Ibikorwa bya O.U.A.

V. Umulyango w'Abibumbye (O.N.U.) n'Amashami yawo.

A. Umulyango w'Abibumbye

1. Amavu n'amavuko
2. Intego za O.N.U.
3. Ibikorwa bya O.N.U.

B. Amashami y'Umulyango w'Abibumye

1. Ishami ly'umulyango w'Abibumbye lyita ku bilirwa no ku buhinzi (F.A.O)
   a) Amavu n'amavuko
   b) Intego za F.O.A.
   c) Ibikorwa bya F.O.A.
   d) Ibikorwa bya F.O.A. mu Rwanda
2. Ishami ly'umulyango w'Abibumbye lyita ku buzima O.M.S.
   a) Amavu n'amavuko
   b) Intego ya O.M.S.

c) Ibikorwa bya O.M.S.
d) Ibikorwa bya O.M.S. mu Rwanda

3. Ishami ly'Umulyango w'Abibumbye lyita ku burezi, ubumenyi n'umuco (UNESCO)

a) Amavu n'amavuko
b) Intego ya UNESCO
c) Ibikorwa bya UNESCO
d) UNESCO mu Rwanda

4. Ishami ly'umulyango w'abibumbye lyita ku bana (UNICEF)

a) Amavu n'amavuko
b) Intego ya UNICEF
c) Ibikorwa bya UNICEF
d) Ibikorwa bya UNICEF mu Rwanda

Isuzumabumenyi.