

	<b>Uburyo bwo gukusanya, gutunganya no gukwirakwiza amakuru kuri filiyeri y'imbuto mu Rwanda</b>	Kode y'inyandiko: <b>41KR162I171v2</b>
	<b>IGICE CYA 4 : UBUMENYI BW'IMIKORERE MU BYA TEKINIKI</b>	Itariki yo kujyanisha inyandiko n'igihe <b>Kanama 2009</b>
<b>TEKINIKI ZO GUHINGA KIYAMBERE : IKAWA</b>		Inyandiko ikomatanyije

<b>Inkomoko y'inyandiko</b>	<b>AJENDA Y'UBUHINZI/MINAGRI</b>
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<b>Itariki inyandiko yasohokweye</b>	<b>2008-2009</b>
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<b>Umubare w'amapagi</b>	<b>4</b>
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## IKAWA



*Ishusho n° 22 : Igipimo gisasiye neza.*

**1. Uturere tuberanye n'igihingwa cya kawa :** Mu turere tw'ubuhinzi, ikawa ihingwa cyane mu nkengero z'i Kivu, mu murambi yo hagati no mu karere k'urusekabuye.

**2. Ubutaka :** Ikawa ishaka ubutaka bwiza, burebure, buhehereye kandi budakomeye cyane.

**3. Amoko yamamazwa :** Jackson 2/1257, Harrar, POP 3302/21, BM 71, BM 139.

### **4. Ubuhumbikiro/Pepiniyeri**

Bahumbika imbuto mu kwezi k'Ukwakira n'Ugushyingo kandi kg 1 y'imbuto itanga ingemwe ziri hagati ya 2 500 na 3 000.

### **5. Gutegura umurima**

***Imirimo ikorwa mu gutegura umurima ni iyi ikurikira:*** kurwanya isuri, gutema ibihuru no kuvanamo imizi, gucukura imyobo ya cm 60 z'ubugari kuri cm 60 z'uburebure na cm 80 z'ibujyakuzimu.

### **6. Gufumbira :**

#### ***Hari uburyo bukurikira bwo gufumbira kawa:***

\* Bashyira kg 20 z'ifumbire y'imborera iboze neza kuri buri giti, imvura igitangira kugwa (Werurwe na Nzeri)

\* Icyo gihingwa bagaha kandi gr 400 za NPK 20.10.10 mu byiciro bibiri

\* Mu butaka bukarishye cyane, ni ngombwa ko umuhinzi ashiramamo kg 1

y'ishwagara ku giti buri myaka itatu (3).

\* Ni ngombwa kandi gutera mu gipimo cya kawa ibiti ndumburabutaka.

### 7. Gutera ingemwe

Haterwa ingemwe 2 500 kuri Ha 1 hagakoreshwa ibipimo bya m 2 hagati y'imirongo n'undi na m 2 hagati y'ugemwe n'urundi ku murongo 1.

Batera kawa mu kwezi kwa Ukwakira n'Ugushyingo naho gusimbura ingemwe zapfuye muri Werurwe.

### 8. Gufata neza kawa mu mirima

Ni ngombwa kubagara uvanamo ibyatsi, wirinda gukomeretsa imizi ya kawa; Ni itegeko gusasira igipimo cyose ukoresheje Temeda, setariya, ibirere n'ibindi bishishwa biboneka

Gukata kawa, hari uburyo butatu bwo gukata kawa:

**a. kugonda kawa:** ikawa ziba zimaze amezi 10 zitewe hagamijwe kuzatereka amashami 3 kuri buri giti. Iryo kata baryita : **ikata ritereka kawa**

**b. ikata ryongera umusaruro:** Buri mwaka, amashami yo hasi atacyera, yumye, asobekeranye n'ibisambo, ayumye ayo yose agomba gukatwa.

**c. ikata ryo gusazura igipimo:** bikorwa nyuma y'imyaka 5 cyangwa 7 kawa itanga umusaruro.

Ku mwaka wa mbere w'iryo kata, batema ibiti bibiri, nyuma y'isarura (muri Nyakanga-Kanama) hagasigara igiti 1, ku mwaka wa kabiri w'iryo kata, batema igiti cya 3 cyari gisigaye. Ibyo biti bitemwa bamaze kongera gutoranya ibishibu 3 bifite cm 50.

### Kurwanya indwara n'ibyonnyi bya kawa:

Mu byonnyi n'indwara by'ingenzi twavuga ibi bikurikira:

**a. Agasurira :** ni agakoko bita Antostiopsis lineaticolis gafite ibara ry'umuhondo n'ibara ry'umukara n'ubururu bujya kuba icyatsi ku nda no ku mugongo. Iyo utwo dusimba utwiciye ku rutoki turanuka. Ni natwo twangiza kawa bigatubya umusaruro. Utwo dusimba dukunze kuba ahantu hihishe, nko mu mababi menshi, muni y'amababi no hagati y'imbutu nyinshi z'ikawa.

### Uko utwo dusimba twangiza:

\* Twonona kawa dushinga umugobora watwo mu ruteja rukiri igitumbwe maze tukanyunyuzwa amazi bityo ntirushobora gukomera neza, ahubwo ruba igihuhwa;

\* Uretse uruteja, udusurira twangiza amababi akiri mato, imitwe y'amashami n'ururabyo. Ibyo nabyo bituma kawa ikura nabi igiti kikazana amababi akonjamye kandi akaba menshi kandi mabi, ururabyo rukaba ruke n'utubuto tujeho, utwo dusimba tukaturya maze umusaruro ukagabanuka;

**Uburyo bwo kurwanya utwo dusimba**

Batera imiti yica udukoko nka Chloropyriphas ethyl y'amazi. Uwo muti ugomba guterwa ku gihe kandi hamwe, batera inshuro 2 birangije ibyumweru bibiri. Bavanga ml 22,5 z'umuti na litiro 15 z'amazi maze iyo mvange igaterwa ku biti hafi 40. Batera kandi umuti mu kwezi kw'Ukwakira n'Ugushyingo bivuga nyuma yirabya rya kawa.

**Indwara z'ingenzi:**

- a. **Akaribata:** ni indwara iterwa n'udukoko duto cyane twitwa „*Colletotricum coffeanum*“.

**Ibimenyetso:**

- Imbutu zigaragaraho amabara ahombanye aho yafashe, zikagera n'ubwo zibora cyangwa rigahinduka umukara.
- Amababi y'igiti cyafashwe amera nkayababutse, ururabo n'intete bikumira ku giti ndetse rimwe na rimwe n'amashami akuma imitwe.
- Iyo ndwara yiyongera cyane mu bihe by'imvura

**Uko bayirinda:** gufata neza kawa (bivuga kuzibagarira, kuzisasira, kuzifumbira no kuzikata ku gihe).

**Uko barwanya indwara:** Gutera umuti wa Oxychlorure de cuivre inshuro 7 kugeza kuri 14 bitewe n'ubwinshi bw'imvura. Haterwa gr 140 bavanga na litiro 20 z'amazi batera ibiti hafi 25 bakagenda birenga iminsi 15, batangira gutera umuti hashize ukwezi 1 kawa zirabije.

Batera umuti mu mezi ya Nzeli, Ukwakira, Ugushyingo, Ukuboza, Gashyantare (iyo imvura yatangiye kugwa) no muri Werurwe, Mata na Gicurasi (iyo imvura ikigwa).

**b. Umugese:**

Iyo ndwara iterwa n'uduhumyo duto cyane bita Hemileia vastatrix.

**Ibimenyetso :**

Ku ruhande rwo hasi rw'amababi hazaho ifu y'umuhondo imeze nk'agakungugu gasa n'icunga rihye. Ikunze kuboneka mu gihe cy'ubushyuye, cyane cyane mu mpera z'itumba no mu ntangiriro z'impeshyi

**Uko birinda umugese**

Ni ngombwa gutera ubwoko bwihanganira indwara y'umugese (ari nabwo bwamamazwa mu Rwanda) kandi bagafata neza kawa (kuzibagarira, kuzisasira, kuzifumbira no kuzikata).

**Uko barwanya umugese**

Gutera umuti wa Oxychlorure de cuivre: gr 70 bavanga na litiro 20 z'amazi

bagatera ku biti hafi 25. batera 1 mu kwezi, batangira gutera mu kwezi kwa Nzeri, bagakomeza mu kwezi kwa Nzeri, bagakomeza mu Ukwakira, Ugushyingo, Ukuboza, Gashyantare, iyo imvura igwa Werurwe, Mata na Gicurasi.

**c. Indwara ya gikongoro**

Ni indwara bita « Die-Back » iterwa n'umukeno. Ikinze gufata kawa ziteye ku butaka bubu, izidakomeye ndetse na kawa zeze cyane ariko ntizibone ifumbire ihagije.

**Ibimenyetso:**

Uyibwirwa n'uko imbuto zihisha imburagihe (guhinduka umuhondo) maze zikirabura, zikumira ku giti. Amashami nayo arirabura akuma ahereye ku mitwe.

**Kwirinda no kurwanya iyo ndwara:**

- gutera kawa mu butaka bwiza kandi kawa zigasukurwa neza, gufumbira cyane kandi buri gihe, gusasira buri gihe ndetse no kuzikata neza kandi ku gihe.

d. **Serikosiporiyoze:** Iyo ndwara iterwa n'uduhumyo duto cyane, kandi igakara iyo kawa ifite ingufu nke

- Iboneka cyane cyane ahantu hafite uburumbuke bivuga hadafite Azote ihagije.

**Ibimenyetso:**

Ku mababi hazaho amabara y'ikigina arimo hagati ibara ribengerana ry'umweru ku mbuto zigiyeye guhisha hazaho amabara y'ikigina ahombanye aho uburwayi bwafashe.

**Kurwanya iyo ndwara:**

Gutera imiti wa Oxylchlorure de cuivre gr 20 muri litiro 10 z'amazi no gukoresha amafumbire arimo Azoti (uree 46% n'indi).

**9. Igihe yerera:** Kawa yera hagati y'imyaka 2 na 3.

**10. Gusarura no gutunganya kawa:**

o Kawa isarurwa yeze neza (imbuto zitukura) igahita igemurwa mu ruganda rutunganya ibitumbwe (coffee washing station) kugira ngo uruganda rushobore kuyihera no kuyironga, ikanikwa ku meza (tables de séchage) asukuye ku zuba ritari ryinshi ku buryo kawa yuma neza ntirenze 12% z'ubuhehere.

o Umusaruro ushobora kuboneka: uri hagati ya kg 750 na toni 2 500 y'i kawa yumye bitewe n'imihingire.

o Kawa isarurwa, igomba kurara igemuwe ku ruganda rutorora kawa kuko ari kuri uwo murimo umuhinzi agarukira.