

	Uburyo bwo gukusanya, gutunganya no gukwirakwiza amakuru kuri filiyeri y'imbuto mu Rwanda	Kode y'inyandiko: 41KR1701179v0
	IGICE CYA 4 : UBUMENYI BW'IMIKORERE MU BYA TEKINIKI	Itariki yo kujyanisha inyandiko n'igihe UKUBOZA 2007
IFISHI YA TEKINIKI ZO GUHINGA KIYAMBERE : IGITUNGURU		Inyandiko ikomatanyije

Inkomoko y'inyandiko	AJENDA Y'UBUHINZI / MINAGRI
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Itariki inyandiko yasohokweye	2002
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Umubare w'amapagi	3
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IFISHI YA TEKINIKI ZO GUHINGA KIYAMBERE : IGITUNGURU (ONYO)

- 1. Umuryango w'ibihingwa :** ibitunguru « **ALLIUM CEPA** » kimwe na puwalo, ibitungurusumu bibarirwa mu muryango wa « **Liliaceae** » muri ordre ya **Liliflores** no mu muryango mugari wa « **Monocotyledones** »
- 2. Aho bikunda :** bikunda mu Rwanda hose. Ariko kugirango ibijumba bibe binini, hagomba uburebure bw'umunsi mugufi buri hagati y'amasaha 12 na 16. Hagomba kandi ubushyuhe buri hejuru ya dogere 18 (18°C) kugirango ibitunguru bibyimbe bimere nk'ibihaze. Ubushyuhe buke bwo bubifasha mu gihe cyo gushibuka, gukura no kuzana indabo.
- 3. Ubutaka:** Onyo ikunda ubutaka bworoshye, butari burebure cyane kandi bwumutse neza. Ntabwo ikunda ubutaka buhora butose kandi n'ubutaka bw'ibumba si bwiza. Ikunda ubutaka burimo potasi. Niyo mpamvu, umuhinzi agomba kubufumbiza ivu.
- 4. Amoko :** Amoko yamamazwa mu Rwanda ni aya :
 - igitunguru gitukura : **Red Cléole**
 - igitunguru cy'umuhondo : **Texas grano**Ayo moko afite amabara atandukanye. Niyo mpamvu umuhinzi areba ibara n'impumuro (parfum) y'ubwoko agiye guhinga kuko aribyo abaguzi bakunze kwibandaho.
- 5. Ifumbire :** kubera ko ifumbire ari ingirakamaro mu gutunganya imiterere y'ubutaka, ni ngombwa gushyiramo ifumbire iboze neza cyane. Kg 200/are 1 iba ihagije.
- 6. Igihe cy'ihinga :-** kwizaza muri pepiniyeri : Mata-Kamena
 - bihingwa (kugemura) mu mpeshyi ariko bikavomerwa. Bigomba gutangira kwera mbere y'imvura yo mu kwezi kwa Nzeri
- 7. Gutera ibitunguru :**
 - Habanza kwizaza umurama mu buhumbikiro bakoresha g 5/m² 1. Bataba umurama muri mm 5-10 ku mirongo bagasigamo cm 10 hagati yayo.
 - Urwinarizo rufite m² 100 rurahagije kugirango ubone ingemwe zahinga ha 1
 - Igihe bimara mu rwinarizo : iminsi 45 kugeza kuri 60
 - Bagemura onyo ifite umubyimba w'igice cyo hasi ungana n'ikaramu nto, icyo gihe amababi aba areshya na cm 15-20
 - Uko bagemura : mbere yo gutera ingemwe, babanza gushabura iminsi y'ingemwe, itemerwa kuri cm 1 hepfo y'ikijumba cya onyo kandi ntibakuraho imitwe y'amababi
 - Bazitera kuri cm 20-25 hagati y'imirongo na cm 5-10 ku mirongo ni ukuvuga ingemwe 450.000/ha
 - Urugemwe ruterwa kuri cm 3 z'ibujyakuzimu, nyuma bamara gutera bagasubiranyika kandi bagatsindagira itaka ryo hejuru
 - Iyo ushaka ibitunguru bitari binini kuko aribyo bibikika, utera ingemwe nyinshi/are
- 8. Gukorera ibitunguru :**
 - Kubagara kenshi ariko unamenera kugirango ubutaka bworohe no kugirango ibyatsi bidakura vuba bigakwirakwiza indwara
 - Iyo onyo itangiye kubyibuha, bataba ivu iruhande rwayo.
 - Kwambura ibijumba by'ibitunguru ubutaka kugirango bishobore kubyimba no gufata ibara. Bikorwa ibitunguru biri hafi yo kwera babanza kubigondera amababi ku munigo wayo (collet).

9. Indwara n'ibyonnyi :

a) Isazi ya onyo :

Ikiyitera : isazi y'ibitunguru

Aho ifata : igihingwa cyose

Ibimenyetso : amababi aratumba. Inyo ziyo sazi zica utuyira mu gitunguru maze kikabora kikananuka cyane

Uko bayirwanya :

- kurandura no gutwikira mu mwobo ibitunguru byafashwe
- kuvanga onyo na karoti kuko karoti yirukana isazi ifata onyo, naho onyo ikirukana ifata karoti
- aho isazi yageze, nta onyo igomba gusubira muri uwo murima mbere y'imyaka 3

b) Ububore bw'umweru (mildiou + alternariose)

Ikiyitera : uduhumyo **Peronospora scheidoni + Alternaria porri**

Aho ifata : ku mababi no ku bijumba by'igitunguru

Ibimenyetso : Onyo zikiri nto zihinduka umuhondo kandi zikarandurwa n'ubusa. Ku bitunguru haba hatwikiriwe n'utwoya tweruruka ndetse rimwe na rimwe hakabaho utuntu tw'umukara

Uko bayirwanya : - gusimburanya ibihingwa mu murima

- guhumbika no gutera onyo mu murima uhinze neza

- gukoresha imiti ya kizungu :

- Dithane : gr 50/L 10 z'amazi/ari 2

- Cupro-antracol : 2 Kg/ha

- Milraz : 2 Kg/ha

c) Ububore bw'ikijuju :

Ikiyitera : uduhumyo (**Aspergillus niger na Sclerotium cepivorum**)

Aho ifata : ibitunguru

Ibimenyetso : mu gihe bibitse, ibitunguru byuzuraho amoya y'ikijuju cyangwa ibintu by'umukara kandi bikomeye. Amaherezo ibitunguru birabora neza neza

Uko bayirwanya :

- kwanika neza ibitunguru mbere yo kubihunika kandi bigahunikwa ahantu humutse
- gukuramo ibitunguru byafashwe kugirango bitanduzwa ibindi
- kubibika ahantu hari umwuka uhagije kandi bimanitse

d) Indwara iterwa n'inzoka y'ibimera :

Ikiyitera : inzoka yitwa **Angilile (Ditylenchus dispaci)**

Aho ifata : amababi, ibitunguru

Ibimenyetso : onyo ziranuka. Amababi aratumba. Ibitunguru birafobagana. Igitunguru kirisatura maze kikabora.

Uko bayirwanya : - gutwikira mu mwobo onyo zafashwe

- gusubiza onyo muri uwo murima nyuma y'imyaka 4-5

10. Iminsi zerera : basarura onyo iyo ibibabi byazo byumye neza neza, igishishwa cy'inyuma kimeze nk'urupapuro rushaje. Bitewe n'ubwoko bw'ubutunguru n'akarere bihinzemo, ibitunguru byera nyuma y'amezi 3-4 bigemuriwe mu murima

11. Umurumbuko : umusaruro w'ibitunguru kuri ha 1 uri hagati ya toni 30 na toni 70 bitewe n'uburemere bwa buri gitunguru.

12. Guhunika : - iyo bamaze gusarura onyo zeze, bazanika ku zuba
- izimaze kugabanukamo amazi bareba izitarwaye, izidatemye bakazibika ku mbaho cyangwa ku byatsi byumye ahantu humutse kandi hinjiramo umwuka uhagije
- bashobora no kumanika ibitunguru byiza mu gisenge



N.B. : *Ibitunguru bishobora kubikwa mu gihe kiri hagati y'amezi 4 na 6. Ibyo aribyo byose ibigomba gupfa muri icyo gihe ntibigomba kurenga 30% y'ibyabitswe.*