

# MAJIRIBIO GA BUGOTA WA KUBIKA MANDEGE MWAMAKARANGA

Balimi ba si ya Tanzania bakujimijaga shiliwa shabo shingi ishibekile mu mabelele nulu mu mafuma (maghala) kunguno ya kuliwa na shibongi, huna hene banhu bakupungukilagwa shiliwa mu makaya gabo.



*Mandega gabungile*

Banhu bangi badugije kugula bugota wa kubulaga shibongi, mabugota genaya gari ga garama nhale na hangi gakwenhega busatu ku banhu.

Mradi gweneyu gulibejiwa kubambilija balimi kutumila mabogota ga asili ayo gagitanagwa “diatomaceous earth” (genaya gali ma lububu ga viumbe shacha kale ya makale muminzi huna gubiza giti mawe nuru bulongo).



*Namna ya kusanja bugota na mandege*

Lububu lwenulu lwasanjiwe na Mandege (*mahindi*) kulenganija buwezo na mabogota gangi aga katumilagwa na balini kulinda shiliwa mu mabelele/ maluli. Majaribio genaya gako sola makanza giti myeji inane kwandija ng’weji gwa mpungati (ng’wakono (2002)) mpaka gwa kadatu hang’waka (2003).

Balimi ubugota ubo bakulenganija bukudula kuburaga dudu/ shibongi, ga garamu ndo na gati na madhara ku banhu a ha ng’waka gakugeng’wa na balimi mu mabelele/ maluli gabo.



*Kwela/ kubeta kabla ya kusanja na bugota*

Mradi gweneyu gulisagila kupandika matokeo gawiza na gakwambilija kubageheja balimi matatizo ga kubika shiliwa shabo kwikanza ilehu huna hangi bakuduja kuguja shiliwa (mazao) ikanza loselose ilo balitogwa.

**Mradi gwenugu guli gwa busangi, wa serikali ya Uingereza na Tanzania, na kituo cha maliasili cha Uingereza pamoja na balimi ba kijiji cha Mlali – mkoa gwa Dodoma, Mwamakaranga na Itaga – Kishapu mkoa gwa Shinyanga, Arri na Singe mkoa gwa Manyara. Mashirika ga CARE, AFRICARE, FARM AFRICA, OXFAM, WORLD VISION, na shirika la kilimo la kanisa la katoliki shinyanga nagene galambilija. Na hangi mradi ugu guliko Zimbabwe.**



*Kuteleja mabelele*



*Namna ya kusanja bugota na mandege*



*Kutula mandege mu mabelele*



*Kulola sampuli ja mandege*

**Kupandika maelezo zaidi mujage:**

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Mabogota kubikila shiliwa mu mabelele nuru maluli ijatumikile ng'wi zoezi lenili

-mabu

-Actellic Super dust

-Protect-It na Dryacide – malububu ga 'Diatomaceous Earth'

-Mchanganyiko gwa Protect-It na kemikali ya Permethrin

Malububu genaya 'Diatomaceous earths' umu si ya Tanzania gawkilogaga Dodoma na Bukoba. Umradi gweneyu gwikanikile kusimba na kupima kulola ulu gali na buduja wa kubulaga shibungi giti ayo gagemilwe.

U lububu lwenelu lukumulaga minzi ga shibungi, ulu a minzi ga shila umu mili gwa shibungi, ishibungi shacha

### **Mina ga bugota uwatumamililwe mu majaribio genaya**

	<b>Lina la bugota</b>	<b>Nchanganyiko</b>
A	Protect-It	gramu 100 ku kilo 100 ja mandege
B	Protect-It	gramu 250 ku kilo 100 ja mandege
C	Protect-It na permethrin 2% a.i.	gramu 100 ku kilo100 ja mandege na gramu 10 ku kilo 100 ja mandege
D	Actellic Super dust	gramu 100 ku kilo 90 ja mandege
E	Dryacide	gramu 250 ku kilo 100 ja mandege
F	Mabu (ga buhunga)	kilo 8 ku kilo 100 ja mandege
G	Nduhu shoseshose	nduhu bugota

Majaribio genaga, kila bugota washakolilwe hangara inne kunguno yakupandika matokeo gawiza.

Mandega gatulilwe mu maluli/mabelele madomado ha kaya ya ng'u - Mang'ondi.

Ubulinguleji bukwitwa kila ulu yabita nyuma inane bakusola sampuli ja mandege na kulolo mandege gaganga ga bungile shi bungi ishilimo, shichile na shipanga.

Huna taarifa jikuchorwa ng'wijedwali kwandija ng'weji gwa mpungati aho ijaribio landigije mpaka kwa kadatu-na kutulwa ha lubao lwa matangajo.