



## TIST HABARI MOTOMOTO JANUARY 2024

Practicing Mulching in your Farm and Weeding

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### Thankful Words from Small Groups after Receiving HMM

For the first time Small Group members are excited after receiving the Habari Moto Moto newsletter since the reviving of the TIST Program in Tanzania. They have promised to use it as part of sharing information and experiences from various areas operated by the TIST Program. These are the words of thanks from Mseta Cluster during their Cluster meeting in December 2023.

They also expressed special thanks to the TIST Leadership for seeing the importance of bringing back this publication.

Congratulations to Tanzania TIST team, (Small Groups, Cluster Servants and Wawezeshaji) for continuing with your monthly meetings and working hard in your farms during this rainy season. Keep on Planting More Trees!



*Photo 1: Distribution of HMM, Mseta Cluster. December 2023*

In this newsletter, we are going to have two articles:

- (i) Practicing Mulching in your Farm
- (ii) Weeding

## TIST HABARI MOTO MOTO

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### (1) Practicing Mulching on your Farm

Mulching is the use of any material that covers the soil's surface to help regulate soil temperature and control soil erosion. Mulching can be dry mulch or green mulch. Dry mulch include dry grass, litter from trees that is fallen leaves, sawdust and other dry materials.

#### Benefits of Dry Mulching

1. Reduces weed growth by keeping light from reaching the soil surface.
2. Reduces water loss from the soil surface, which helps maintain soil moisture.
3. Moderates soil temperatures, keeping it warmer on cold nights and cooler on hot days.
4. Protects bare soil thus reducing erosion and soil compaction.
5. Protects plants from the harsh conditions of winter freezes and winds.
6. Feeds our soil's living microorganisms with nutrients.
7. Creates healthier soil structure for plants, limiting compaction.
8. Keeps soil from splashing onto leaves thus reduces the chance of plants getting fungal and bacterial diseases.
9. Makes gardens look attractive thus giving a uniform appearance to the garden design
10. Keeps plants clean and off the ground, especially tomatoes and melons, to avoid plant disease.
11. Mulching slowly increases soil fertility and may make micronutrients already in the soil more available.
12. Make water moves more readily into soil covered with mulch instead of running off.
13. Improves plant health and growth (due to fewer weeds and more consistent moisture and soil temperature).
14. Breaks down and feeds the soil (if it's organic mulch).
15. Mulching improves the structure of clay soils and the moisture-holding capacity of sandy soils.

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### How to do it:

1. Before applying mulch, remove weeds and water thoroughly. This will help you get the most benefit from your new mulch.
2. Carry to the field the material you want to spread as mulch.
3. Spread it on the soil using your hands or a rake. Put a layer of mulch 7-15 cm (3-6 inches) deep all over the bed, or around the growing plants. Do not put on so much mulch that you bury the plants or shade them out.
4. Keep mulch 6-to-12 inches away from the base of trees.



*Photo 2: An example of practicing mulch on a farm.*

### **Weeding**

Weeding is the removal of weeds from the field. It is an effective pre-harvesting method of crop protection and crop production management. Weeds act as competitors of the crop for various resources required for growth like nutrients, light, water, etc.

Weeding is important for these reasons:

1. Your crops need water, soil nutrients and light to grow strong. If there are weeds they will compete with your crops for these things. The weeds will use the soil nutrients and water that your crops need. The result is that your crops will be weaker and may not survive.
2. If your area is not weeded there will be more pests attracted to the area. Pests can damage and kill your crops. The fewer weeds there are, the less chance there will be of snakes and insects.

### **Here are some of the advantages of weeding your fields:**

Crops grow faster because weeds don't take the nutrients and water from the soil.

Crops will become stronger and grow taller in a shorter period of time.

Crops can get the sunlight they need unhindered

Crops are not exposed to as many diseases.

Crops are more protected from a fire spreading.

Clean fields indicate that Small Groups are maintaining them and are good examples of the TIST Program. This will attract people to come and see your work.

Clean farms enable the quantifiers to count the trees quickly and accurately. We encourage you to weed your farms. The hard work will make a difference your trees will be healthier and stronger.

Once you have weeded the area make sure you remove the weeds from the field. If you leave the dead weeds by the crops they may still attract pests and diseases that can damage your crop.



*Photo 3: Clean farm after weeding*

## TIST HABARI MOTO MOTO

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### What do we create?

- 1) We create team work - by doing things this way; we end up working as a team.
- 2) We create capacity-we create organization, strength, and a system that is strong.
- 3) We create enjoyment - we see results, we accomplish big things that we enjoy.
- 4) We create Big Results - Big results in planting trees, in Conservation Farming and from other projects and business that we do.
- 5) We create Low Budget/Cost, yet we achieve big results.

### TIST VALUES

- 1) We are Honest.
- 2) We are Accurate.
- 3) We are Transparent
- 4) We are Servants to each other.
- 5) We are Mutually Accountable to Each Other.
- 6) Low Budget, Big Results

### What do we do?

- 1) We plant different species of trees for long -term.
- 2) We find ways to improve our health.
- 3) We practice Conservation Farming.
- 4) We do other projects and businesses (sustainable agriculture, nurseries, citrus growing, dairy goats and farming, chickens, bee keeping, fishponds and fish keeping, silkworm farming etc.)
- 5) We sell carbon credits.

## INTRODUCTION OF CLUSTER SERVANT

We are introducing to you **Cluster Servant SILVESTER NAOMI RAMBO** from Vinghawe Mpwapwa district. He is a farmer from Adeni Group TIST number 2023TZ4.

He joined TIST in the year 1999. Silvester serves eight (8) Clusters: Lumma, Kitati, Godegode, Kimagai, Inzomvu, Mbori, Bumila and Lupeta Clusters. Experienced in farming, quantification (tree counting) and recruitment of new Small Groups. He provides TIST seminars to the Small Groups across the whole TIST Program in Tanzania.

If you have any questions, or you need help on how to join the TIST Program, you may contact him through;

0692-620-008.



*Photo 4: Silvester Naomi Rambo, a Cluster Servant - Mpwapwa*





## TIST HABARI MOTOMOTO JANUARI 2024

Kuweka matandazo katika shamba lako na Kupalilia.

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**Maneno ya Shukrani kutoka kwa Wanavikundi baada ya kupata HMM**

Kwa mara ya kwanza wanavikundi wamefurahishwa na kurudi kwa chapisho la HABARI MOTOMOTO. Wameahidi kulitumia kama sehemu ya kupeana taarifa na uzoefu kutoka maeneo mbalimbali yanayoendeshwa na Mradi wa TIST. Haya ni maneno ya shukrani kutoka Klasta ya Mseta wakati wa kikao cha Klasta mwezi Disemba 2023. Pia walitoa shukrani za pekee kwa uongozi wa TIST kwa kuona umuhimu wa kurudisha chapisho hili.

Hongereni timu yote ya TIST Tanzania, (Vikundi Vidogo, Watumishi wa Cluster na Wawezeshaji) kwa kuendelea na mikutano yenu ya kila mwezi na kuendelea kufanya kazi kwa bidii katika mashamba yenu kipindi hiki cha mvua. Tuendeleo kupanda miti kwa wingi!



**Picha 1:** Ugawaji wa HMM Klasta ya Mseta

Katika jarida hili, tutakuwa na makala mbili:

- (i) Kuweka matandazo katika shamba lako
- (ii) Kupalilia.

### (1) Kuweka Matandazo Katika Shamba lako

Kuweka maandazo ni kitendo cha kufunika shimo lenye mazao kwa kutumia majani ili kusaidia kudhibiti joto na mmomonyoko wa udongo. Unaweza kufanya maandazo kwa kutumia maandazo ya majani makavu au maandazo ya majani mabichi. Maandazo ya majani makavu ni pamoja na nyasi kavu, majani yaliyoanguka kutoka kwenye miti, vumbi la mibao na nyenzo nyingine kavu.

#### Faida za Kutumia Maandazo ya Majani Makavu

1. Hupunguza ukuaji wa magugu kwa kuzuia mwanga kufika kwenye udongo.
2. Hupunguza upotevu wa maji kutoka kwenye udongo, ambayo husaidia kutunza unyevunyevu wa udongo.
3. Hupunguza halijoto ya udongo, huhifadhi joto zaidi wakati wa baridi na huhifadhi baridi wakati wa joto.
4. Husaidia kulinda udongo hivyo hupunguza mmomonyoko na mgandamizo wa udongo.
5. Maandazo yanasaidia kulinda mimea kutokana na hali mbaya ya baridi na upepo.
6. Husaidia kulinda viumbe hai vya kwenye udongo na kurutubisha udongo.
7. Husaidia kufanya muundo wa udongo kuwa wenye afya kwa mimea, na kuzuia mgandamizo.
8. Huzuia udongo kumwagika kwenye majani hivyo kupunguza uwezekano wa mimea kupata magonjwa ya fangasi na bakteria.
9. Hufanya bustani/shamba kuwa na muonekano wa kuvutia hivyo kutoa mwonekano wa kufanana kwenye shamba au bustani
10. Huweka mimea katika hali ya usafi kwa nje ya udongo, hasa nyanya na matikiti, ili kuepuka magonjwa ya mimea.
11. Maandazo husaidia kuongeza rutuba kwenye udongo na kufanya udongo kuwa wenye lishe zaidi.
12. Hufanya maji yasogee kwa urahisi kwenye udongo uliofunikwa na maandazo badala ya kutiririka.
13. Huboresha afya na ukuaji wa mimea (kutokana na magugu machache na unyevu thabiti na joto la udongo).
14. Hunyambua na kulisha udongo (ikiwa ni maandazo ya majani yanayooza).
15. Utandazaji huboresha muundo wa udongo wa mfinyanzi na uwezo wa kushikilia unyevu wa udongo wa kichanga.

### Jinsi ya Kuweka Matandazo

1. Kabla ya kuweka maandazo, ondoa magugu vizuri. Hii itakusaidia kupata manufaa mazuri zaidi kutoka kwenye maandazo yako mapya.
2. Beba hadi shambani maandazo unayotaka kutandaza.
3. Eneza maandazo kwenye udongo kwa kutumia mikono yako au reki. Weka safu ya maandazo yenye kina cha sentimita 7-15 (inchi 3-6) juu, au kuzunguka mimea inayokua. Usiweke maandazo kiasi kwamba unazika mimea au kuiweka kivuli.
4. Weka maandazo umbali wa inchi 6 hadi 12 kutoka chini ya miti.



**Picha 2:** Shamba lililowekewa maandazo ya majani makavu



### (3) Kupalilia

Palizi ni uondoaji wa magugu shambani. Ni mbinu madhubuti ya kabla ya kuvuna ya ulinzi, usimamizi, na uzalishaji wa mazao. Magugu huwa ni washindani wa mazao kwa rasilimali mbalimbali zinazohitajika kwa ukuaji kama vile virutubisho, mwanga, maji, n.k.

#### **Kupalilia ni muhimu kwa sababu zifuatazo:**

1. Mazao yako yanahitaji maji, rutuba ya udongo na mwanga ili kuwa imara. Ikiwa kuna magugu yatahindana na mazao yako kwa kunyang'anyana maji, rutuba na udongo. Magugu yatumia rutuba ya udongo na maji ambayo mazao yako yanahitaji. Matokeo yake ni kwamba mazao yako yatakuwa dhaifu na hayawezi kuishi.

2. Ikiwa eneo lako halijapaliliwa kutakuwa na wadudu wengi wanaovutiwa na eneo hilo. Wadudu wanaweza kuharibu na kuua mazao yako. Magugu machache yaliyopo, yanaweza kusababisha uwezekano wa na nyoka na wadudu.

#### **Zifuatazo ni baadhi ya faida za kupalilia mashamba yako:**

Mazao hukua haraka kwa sababu magugu hayachukui virutubishi na maji kutoka kwenye udongo.

Mazao yatakuwa na nguvu na kukua kwa muda mfupi.

Mazao yanaweza kupata mwanga wa jua unaohitaji bila kuzuiliwa

Mazao hayakabiliwi na magonjwa mengi.

Mazao yatalindwa zaidi hata kukitokea moto.

Shamba lililo safi linaonyesha kuwa Vikundi Vidogo vinatunza vizuri na ni mifano mizuri ya Mpango wa TIST. Hii itawavutia watu kuja kuona kazi yenu na kujifunza.

Shamba safi huwezesha wakadiriaji kuhesabu miti haraka na kwa usahihi. Tunakuhimiza kupalilia mashamba yako. Kupalilia kutafanya kazi yako kuwa tofauti. Mazao na miti yako itakuwa na afya na nguvu zaidi.

Ukishapalilia eneo hakikisha umeondoa magugu shambani. Ukiacha magugu yaliyokufa na mimea bado yanaweza kuvutia wadudu na magonjwa ambayo yanaweza kuharibu mazao yako.



*Picha 3: Shamba lililopaliliwa, Vinghawe Mpwapwa*

## TIST HABARI MOTO MOTO

### Tunaunda nini?

- 1) Tunaunda kazi ya timu—kwa kufanya mambo kwa kufanya kazi kama timu.
- 2) Tunajenga Uwezo-tunaunda shirika, nguvu, na mfumo ambao ni imara.
- 3) Tunafanya mambo yanayotufurahisha-tunaona matokeo, tunatimiza mambo makubwa ambayo tunafurahia
- 4) Tunafanya mambo yanayoleta matokeo makubwa-matokeo makubwa ya upandaji miti. matokeo makubwa katika Kilimo Hai na matokeo makubwa kutokana na miradi na biashara zingine tunazofanya.
- 5) Tunatumia gharama ndogo za Utawala, lakini tunapata matokeo makubwa

### MAADILI YA TIST

- 1) Sisi ni Waaminifu
- 2) Sisi Tunatoa Taarifa Sahihi
- 3) Sisi ni Wawazi
- 4) Sisi Tunatumikiana
- 5) Sisi ni Wawajibikaji
- 6) Bajeti Ndogo, Matokeo Makubwa

### Tunafanya Nini?

- 1) Tunapanda aina mbalimbali za miti itakayodumu kwa muda mrefu.
- 2) Tunafanya mambo kuboresha afya zetu.
- 3) Tunafanya Kilimo Hai.
- 4) Tunafanya miradi na biashara zingine.
- 5) Tunafanya biashara ya hewa ya kaboni.

### UTAMBULISHO WA MTUMISHI WA KLASTA (CLUSTER SERVANT)

Tunamtambulisha kwenu **SILVESTER NAOMI RAMBO** Mtumishi wa **Klasta** kutoka Vinghawe wilaya ya Mpwapwa. Yeye ni mkulima kutoka Kikundi cha Adeni chenye namba ya TIST 2023TZ4.

Alijiungana TIST mwaka 1999. Silvester anatumikia Klasta nane (8): Lumma, Kitati, Godegode, Kimagai, Inzomvu, Mbori, Bumila and Lupeta. Ana Uzoefu wa kilimo, Upimaji (kuhesabu miti) na Kuingiza Vikundi Vidogo Vidogo vipya kwenye Mpango wa TIST. Anatoa semina za TIST kwa Vikundi Vidogo Vidogo katika Mpango mzima wa TIST nchini Tanzania.

Ikiwa una maswali yoyote, au unahitaji usaidizi jinsi ya kujiunga na Mpango wa TIST, unaweza kuwasiliana naye kupitia 0692-620-008.



*Picha 4: Mtumishi wa Klasta Silvester Naomi Rambo, kutoka Mpwapwa*