

Mazingira Bora



TIST

The International Small Group & Tree Planting Program
www.tist.org

English Version

An Environmental, Sustainable
Development and Community Forestry
Program.



Mr. Godfrey Ngumo, his wife and TIST Cluster Servant, Josephine Mwangi inspecting their Small Group Nursery. Ngumo's group, River Dep. D, TIST Number 2005KE504 has close to 1,500 Croton Megalocopus (Mikinduri) seedlings. They belong to Ragati Cluster near Nanyuki Town. This group, besides planting more trees in their own private farms, will be selling some of their seedlings. If you are interested to buy, contact Godfrey on 0724 83 65 62

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We are Accurate, Honest, and Mutually Accountable: Small Groups play key role in success of your Cluster.

Working together in TIST, we have accomplished great things. Today, there are over 180 Clusters in Kenya with over 6.5 m trees planted, kept alive and quantified. We have more than 54, 000 farmers organized in close to 7,500 Small Groups participating. We achieved and celebrated World's First Validation and Verification under the Verified Carbon Standards and Climate and Community Standards, qualifying many TIST farmers to take part in the global carbon market. When we work together and follow TIST Values, we have great success.

However, we need to do more. Many of our Clusters have not planted enough trees to make carbon business profitable and sustainable. Each Cluster has a goal of planting at least 200,000 trees within five years. Moreover, Clusters need to ensure that their trees are kept alive for at least 30 years so as to fully benefit and participate in carbon business. Clusters that allow a member to clear cut their trees are harming their efforts in earning profits from carbon sales for the whole Cluster.

TIST encourages farmers to thin their trees in a sustainable manner. This enables everyone to meet their fuel needs but ensure that their participation in carbon business remain strong. For instance, a Small Group is allowed to harvest up to 5% of their trees when such trees reach the age of 10 years and older.

Your Cluster needs to discuss plans that will help you achieve your goal of planting 200,000 trees and above. The next article will teach you how to develop Action plans. Take time during your next Cluster meeting to develop an action plan that will help achieve your goal.

Here is recent information from the TIST.org/mobile website that allows you to look at your own Cluster and other ones that you are interested in. At your Cluster meetings, your Cluster Servant will be able to give you up-to-date information from the website, and also answer other questions you may have about your trees, your groups, your payments, etc.

Nanyuki Region

Cluster	Groups	Trees	Last Election	Members	County
Aguthi	27	28471	14 May 2013	191	Nyeri
Burguret	36	39300	17 Jul 2013	257	Nyeri
Buuri	28	9793	18 Jun 2013	181	Meru
Chuma	28	25377	23 Apr 2013	194	Laikipia
Gaturiri	28	33278	14 May 2012	184	Nyeri
Gikati	41	34240	04 May 2013	295	Nyeri
Ichuga	43	127800	29 Aug 2013	285	Nyeri
Itangini	48	66268	30 Aug 2013	318	Nyeri
Kahuho	19	17821	04 Apr 2013	129	Nyeri
Kamangura	38	24162	25 Jan 2013	279	Nyeri
Kamuthanga	15	9042	09 Jul 2013	96	Laikipia
Kangaita	23	30896	14 Jun 2013	142	Meru
Karaba	51	42956	07 Oct 2013	335	Laikipia
Karoki	34	55135	20 Mar 2013	237	Nyeri
Karundas	56	49588	15 Jan 2013	368	Nyeri
Kiahuko	21	12245	01 Apr 2013	147	Laikipia
Kiamariga	41	44763	16 Feb 2013	304	Nyeri
Kiamathaga	36	40385	04 Jun 2013	240	Nyeri
Kimahuri	36	62483	06 Jun 2013	240	Nyeri
Kiriogo	45	12088	09 May 2013	291	Laikipia
Kwajebi	55	32934	19 Sep 2013	377	Laikipia
Mairo Nne	22	7033	19 Sep 2013	162	Nyandarua
Male	51	35452	05 Apr 2013	326	Laikipia
Manyatta	39	67977	11 Jul 2013	271	Nyeri
Matanya	29	19766	03 May 2013	207	Laikipia
Mathingira	28	1209	12 Oct 2013	178	Laikipia
Mbiriri	33	19692	13 Jun 2013	240	Nyeri
Mia Moja	36	29770	16 May 2013	262	Meru
Mithuri	51	22869	04 Oct 2013	349	Laikipia
Muhonia	29	13075	25 Jan 2013	198	Laikipia
Muhotetu	New	0	—	0	Laikipia
Munyu	39	33287	14 Oct 2013	241	Laikipia
Mururu	43	43060	11 Sep 2013	315	Nyeri
Muruku Pesi	50	25109	19 Sep 2013	317	Laikipia

Cluster	Groups	Trees	Last Election	Members	County
Murungai	63	44881	11 May 2013	502	Laikipia
Mutamaiyu	New	0	24 Apr 2013	0	Laikipia
Mweiga	27	21972	06 May 2013	175	Nyeri
Njorua	44	29731	12 Sep 2013	318	Laikipia
Ntrukuma	39	34628	18 Sep 2013	282	Laikipia
Nyakinyua	22	0	—	141	Laikipia
Nyariginu	39	44661	06 Mar 2013	289	Laikipia
Ontilili	43	40899	18 Jan 2013	300	Meru
Pondo	58	79625	20 May 2013	516	Nyandarua
Ragati	28	63857	31 Jul 2013	187	Nyeri
Raichiri Podo	48	40024	17 Sep 2013	350	Nyandarua
Salama	47	26921	09 Sep 2013	303	Laikipia
Sweet Water	22	21591	21 Jun 2013	136	Laikipia
Tandare	54	45978	07 Oct 2013	360	Laikipia
Thome	27	20606	10 May 2013	171	Laikipia
Thung'ari	13	18327	18 Jun 2013	91	Nyeri
Wamura	38	6702	07 Feb 2013	228	Laikipia
Warazo Jet	29	29718	08 Feb 2013	200	Nyeri
Weruini	21	19176	09 Jul 2012	179	Laikipia
Wiumiririe	84	38993	18 Apr 2013	569	Laikipia
Boiman	New	0	—	—	Nyandarua
Kite	4 New	0	24 Jun 2013	12	Laikipia

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Anchenge	New	0	—	0	Meru
Ankamia	40	39910	10 Jul 2013	248	Meru
Antubochiu	29	21763	20 Sep 2013	176	Meru
Athi	17	12544	02 Oct 2013	63	Meru
Barangu	38	22312	05 Feb 2013	351	T-Nithi
Burimaria	20	16634	01 Jul 2013	121	Meru
Chung'ari	69	44148	14 May 2013	493	Meru
Ciakanyinga	64	33495	09 Sep 2013	447	T-Nithi
Gachua	77	65647	28 Feb 2013	561	Meru



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Gakurungu	12	8008	01 Jul 2013	87	T-Nithi	Miruriiri	24	15124	12 Jul 2013	185	Meru
Gatangine	41	74423	09 Jul 2013	332	Meru	Mitheru	49	66924	13 Jun 2013	409	T-Nithi
Giaki	64	66179	05 Mar 2013	489	Meru	Mitoro	35	15091	25 Jul 2013	166	Meru
Gikumene	92	68814	07 Mar 2013	658	Meru	Mituntu	57	13530	09 Aug 2013	378	Meru
Githongo	43	33754	05 Mar 2013	339	Meru	Mpuri	55	28742	06 Feb 2013	402	Meru
Gitimene	69	90627	03 Sep 2013	539	Meru	Mulathankari	21	16289	—	149	Meru
Igwanjau	70	35888	28 May 2012	494	T-Nithi	Mumbuni	24	10867	26 Apr 2013	159	T-Nithi
Ikindu	13	9932	08 Apr 2013	77	T-Nithi	Muragara	25	16864	04 Jul 2013	216	T-Nithi
ikumbo	18	5813	11 Apr 2012	168	T-Nithi	Murinya	53	67535	05 Aug 2013	378	Meru
Iriga	54	32312	02 May 2013	362	T-Nithi	Mururune	61	46883	08 Jun 2013	420	Meru
Irindiro	21	15126	07 Aug 2013	149	Meru	Muruta	54	19774	07 Feb 2013	367	Meru
Itugururu	13	6622	03 Jul 2013	28	T-Nithi	Muthambi	41	46534	04 Oct 2013	299	T-Nithi
Kaaga	32	39233	—	239	Meru	Mutuati	26	2243	18 Apr 2013	163	Meru
Kaanwa	29	15978	04 Jun 2013	190	T-Nithi	Mwichiune	37	47104	13 Jun 2013	260	Meru
Kagaene	104	94262	01 Oct 2013	685	Meru	Mworoga	77	103551	09 Aug 2013	573	Meru
Kagaene	99	29857	15 Aug 2013	492	T-Nithi	Naari	51	76871	01 Aug 2013	376	Meru
Kagumo	84	74095	08 Jan 2013	665	T-Nithi	Nchiru	75	42430	31 Aug 2013	546	Meru
Kamachege	14	4572	18 Jul 2013	124	Meru	Ngare ndare	27	9500	16 Feb 2013	213	Meru
Kamaroo	26	17715	16 Oct 2013	206	Meru	Ngiine	45	20277	03 Apr 2012	362	Meru
Kambiti	37	33815	12 Jun 2013	276	Meru	Nguruki	29	33964	06 May 2013	262	T-Nithi
Kangeta	26	949	25 Apr 2013	98	Meru	Njuthine	12	7765	—	73	Meru
Kanjagi	39	42042	16 May 2013	285	Meru	Nkando	59	26343	08 Aug 2013	496	Meru
Kanyakine	27	45423	06 Jun 2013	206	Meru	Nkondi	60	11653	01 Jan 2013	413	T-Nithi
Karama	54	10381	09 Aug 2013	434	Meru	Nkumbo	26	20400	02 Oct 2013	209	Th-Nithi
Kariakomo	16	11980	15 Aug 2013	121	T-Nithi	Ntakani	11	5409	09 May 2013	55	Meru
Karima Kambicha	25	24975	15 Aug 2013	200	Meru	Nthangathi	63	71518	22 Feb 2013	507	Meru
Karocho	19	0	19 Jan 2013	114	T-Nithi	Nthare	5	4787	08 May 2013	26	Meru
Karurune	36	31918	28 Feb 2013	262	Meru	Ntugi	75	100739	13 Jun 2013	596	Meru
Katheri	79	63026	02 Jan 2013	629	Meru	Ntumburi	37	46587	12 Jun 2013	343	Meru
Kathwene	19	2779	—	135	Meru	Nyweri	63	65302	14 Nov 2012	486	Meru
Kawiru MCK	63	27727	07 Jun 2013	500	Meru	Ruiga	20	49930	—	168	Meru
Kiambogo	38	3874	14 Jan 2013	237	Meru	Ruiru	24	17711	02 Jan 2013	167	Meru
Kiamiogo	60	82265	28 Mar 2013	455	Meru	Runyeny	40	28633	01 Aug 2013	311	Meru
Kiangondu	14	926	06 Apr 2013	14	T-Nithi	Rwanyange	38	19138	19 Mar 2013	282	Meru
Kiangua	37	21758	04 Mar 2013	37	Meru	Sirimon	60	27718	28 Apr 2012	411	Meru
Kianjagi	60	89583	05 Jul 2013	475	T-Nithi	Subuiga	37	60969	13 Jun 2013	346	Meru
Kibirichia	61	63892	01 Aug 2013	509	Meru	Tharu	45	6999	11 Feb 2013	311	Meru
Kibui	50	27354	11 Apr 2012	393	Meru	Thiira	37	20475	01 Aug 2013	343	Meru
Kibuline	35	19762	08 Oct 2013	253	Meru	Thuura	50	66915	20 Aug 2013	363	Meru
Kiegoi	15	6703	22 Feb 2013	104	Meru	Tubui	19	12925	—	159	T-Nithi
Kiengu	16	11053	04 Jun 2013	126	Meru	Tunyai	36	26925	05 Feb 2013	289	T-Nithi
Kigucwa	72	107520	04 Oct 2013	568	Meru	Urru	21	15663	28 Dec 2012	163	Meru
Kiirua	101	85055	30 Aug 2013	710	Meru	Mara / Mau Region					
Kinoro	53	23677	06 Jul 2013	461	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kiraro	12	1889	16 May 2013	78	T-Nithi	Chemaner	40	7324	11 Mar 2013	245	Bomet
Kiria	63	37201	13 Nov 2013	504	Meru	Cheptuech	6	0	07 Nov 2012	32	Nakuru
Kirimaitume	28	32246	13 Mar 2013	182	Meru	Chesoan	3	0	06 Nov 2012	13	Nakuru
Kirindini	43	47709	10 Jul 2013	283	Tharaka	Irongo	5	0	09 Nov 2012	10	Nakuru
Kirubia	48	26026	09 Aug 2013	258	Tharaka	Kapugunot	6	0	08 Nov 2012	26	Nakuru
Kisima	37	104190	17 May 2013	359	Meru	Kutete	27	9809	12 Mar 2013	184	Narok
Kitheo	57	41573	14 Aug 2013	398	Meru	Mbeere/ Kirinyaga Region					
Kithithina	57	31624	30 Jun 2012	407	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kithoka	66	57143	05 Mar 2012	491	Meru	Kamwiyendei	29	8048	26 Aug 2013	188	Embu
Kithurine	60	19654	03 Jun 2013	513	Meru	Kanjuu	33	7732	13 Jul 2013	282	Kirinyaga
Limauro	52	28532	02 Aug 2013	389	Meru	Karaba-Mbeere	18	2043	27 Sep 2013	97	Embu
Limoro	82	17101	07 Jun 2013	491	Meru	Karumande	56	5004	05 Sep 2013	535	Kirinyaga
L. Imenti Forest	12	205	—	99	Meru	Kianyaga	33	20409	03 Jun 2013	281	Kirinyaga
Magutuni	25	14936	11 Jul 2013	184	T-Nithi	Kilia	18	4178	28 Aug 2013	137	Embu
Marimati	9	0	—	61	Meru	Kiwea	34	10217	—	325	Kirinyaga
Maritati	25	55530	—	262	Meru	Ngariama	51	16545	07 Feb 2013	451	Kirinyaga
Matakiri	62	6774	01 Jan 2013	403	Meru	Njukiini	40	17499	05 Aug 2013	317	Kirinyaga
Maua	38	9247	05 Jul 2013	22	Meru	Nthingini	37	9415	27 Aug 2013	255	Embu
Mbajone	32	57144	12 Sep 2013	203	Meru	Come and see Areas					
Miathene	89	110977	07 Jun 2013	559	Meru	1. Taita/Taveta County					
Mikunduri	60	57229	05 Sep 2013	433	Meru	2. Nyamira County					
						3. Transzoia County					
						4. Machakos County					



Kujengana: Don't miss the blessing for your Small Group and Cluster.

Kujengana is a very important part of your Small Group weekly meeting. It says in Ephesians 4:15,16 that we are to build each other up into the fullness of Christ. Each person in your TIST Small Group brings his or her own special talents and gifts to the entire group. One of the wonderful things that happen in the Small Group is recognizing, sharing and using those God-given talents.

Kujengana is a way to let those talents be seen and be used. There are two parts to Kujengana:

- Before the closing prayer, every person in the group says **one specific, positive thing** that the leader did at that meeting. For example, smiled, kept to time, made good plans, encouraged all group members to speak, greeted me and made me feel welcome, pointed out something that was going very well in the meeting or in the work the group was doing, etc. Each member needs to say something different. This is not optional. Everyone gives Kujengana to the servant leader. Some groups also give Kujengana to the co-leader.
- In addition, if someone sees a gift shown by the leader, a group member can also say that.

With Rotating Leadership, each week a new leader will receive Kujengana. Through Kujengana, we encourage each other on the good things that week's leader did in the meeting and the talents the person showed.

Kujengana is also the way we learn to look for positive things about people and then say them. We all need to train our tongues to say the positive. In addition, the whole group learns what that group thinks is important in a servant leader. The next leaders will benefit from what they have heard in Kujengana about previous leaders and know what the groups think is important in being a servant leader.

In response to Kujengana, that week's servant leader just says, "Thank you." after each group member's specific, positive statement. There is no discussion about how it could have been done better, or differently. Often, the person is happy when he or she is told the good things he or she did during the meeting. Sometimes we learn things about ourselves we didn't know!

Kujengana helps the leader on that day recognize his or her talents and keep on using them. Kujengana also helps the Small Group because all the members improve their servant leadership as they learn. Kujengana is a double blessing!

Tandare Cluster: Bee Keeping made possible through tree planting.

Members of Tandare cluster have now started a bee keeping project. They have built one apiary with 14 local beehive and 12 modern top bar beehives. Tandare Cluster will produce large quantities of honey very soon. We are grateful to our leader Joseph Mukungo. We are growing stronger. Long live TIST.





How to develop Action Steps and Action Planning.

TIST groups and Clusters do a lot of practical activities: planting trees and improving agricultural techniques. When there is a lot of work to be done, it is good to create **action steps**. Each group member should tell the group what they are going to achieve that week. We are going to teach you, your Small Group and your Cluster how to do action planning.

Please learn together other members of your Cluster during your meeting.

An action step is something that is:

- Specific
- Observable
- Measurable
- Has a beginning and an end
- Make sure your action step is realistic and that you can achieve it!

For example, saying 'I will plant trees' is not an action step because it is too general. 'I will work on three mornings this week to transplant 75 seedlings into our new grove' is an action step because it is **specific** (transplant 75 seedlings), **observable** (people can see you do it), measurable (75 seedlings, 3 mornings) and **has a beginning and an end** (at the end of three days you can see the results).

When your Cluster meets again, allow ten minutes near the end of the small group meeting for each person to report on his or her action step. Each person quickly:

- (1) **Tells the group what their action step was for the past week.**
- (2) **States what they actually did.**
- (3) **States what action step they will take for the following week.**

If the person succeeded in his or her action step, the group celebrates the success. If, as often happens to start with, the group member met only part of his goal, the group encourages him / her and does not criticize or blame. When people are able to freely share their successes and failures they will be encouraged to do better each

week. Encourage your Small Group/ Cluster members to think of possible action steps. Make sure each is specific, measurable and realistic! Share and celebrate the action steps that your Small Group/ Cluster has accomplished.

Action Steps for Action Planning.

A similar method can be used when planning. Here an example is given in brackets. When your group is planning what to do, make sure your plans are:

Specific (Our Cluster will plant 50,000 trees in our farms by December 20)

Measurable (How many? - 50,000 trees will be planted)

Achievable/Realistic (Each TIST Small Group in our Cluster can plant 1000 trees in 5wks – 100 trees per Tuesday and Thursday, 10 trees per person/ per day)

Time-bound (Has a beginning and an end - we will plant the trees between Nov 15 to Dec 20)

Observable SMARTO!

This is the guide and test of your action steps for your plan and helps you be specific:

- 1) **What** – (Planting 50,000 trees)
- 2) **Who** – (TIST Small Group members by name)
- 3) **When** – (Nov 15 – Dec 20)
- 4) **Where** – (in our farms)
- 5) **How** – (We meet every Tuesday and Thursday afternoon after the heat of the day and dig holes, then plant the trees)
- 6) **Why** – (To improve the our farms, get more wood fuel, clean our environment and earn more money from carbon business)

Now, try to practice action planning in your next Small Group meeting and Cluster meeting.



Best Trees For TIST: Alternatives to Eucalyptus.

Many environmentalists are concerned about the impact eucalyptus has on the environment. The arguments against eucalyptus are complicated because of the many different species of eucalyptus. Scientists are still uncertain about some of the evidence. However, here are some of the arguments against planting eucalyptus that many environmentalist believe:

- The trees can dry up the land by taking up a lot of water from the ground.
- The trees can use a lot of soil nutrients making the land unsuitable for agriculture.
- The leaves do not decompose easily and even decrease beneficial soil microorganisms.
- Some types of local flora and fauna cannot survive in eucalyptus plantation.

While everyone may not agree on many of these points, there is enough concern over the issue that TIST has to listen carefully. Some small groups in Uganda have commented that they had water levels drop since the planting of eucalyptus. TIST would advise all farmers not to plant eucalyptus in wetlands, alongside streams or on productive agriculture land. However, some land may be suitable for eucalyptus and your local forester can advise you.

There is a second reason why TIST does not encourage eucalyptus. Many farmers will harvest their timber in less than twenty years and TIST will not be able to sell the carbon credits unless the tree grove lasts at least 30 years as only live trees qualify. If TIST pays incentives for trees that will be cut down in less than 30 years, there will be less money for the groups who have planted and faithfully maintained long term trees.

Farmers may still want to have groves of eucalyptus grown specifically for firewood and timber. Grown in the right areas, these groves may help reduce pressure on natural forests. However, groves grown for early harvest should not be counted for the TIST program.

To increase biodiversity, protect your land and encourage long-term trees that will qualify for carbon payments. We encourage groups to use an alternative to eucalyptus.

What are good alternative trees?

The following trees are some suggestions from the Kenya TIST trainers:

Grevillea Robusta, also known as silky oak (in Kikuyu it is called mukima).

This fast growing tree needs fairly well drained soil spaced 4-5m and no pre-treatment needed. The seeds can be stored for up to three months or longer if refrigerated. These trees provide soil conservation, shade for tea and coffee, and plants grow well with crops if properly managed to reduce shade and an important source of dry season fodder.

Cypress or Cupressus lusitanica, (Kikuyu: mutarakwa; Kimeru: muthithinda)

This tree is found in seasonally moist to permanently moist climates and a dry season lasting no more than 2-3 months. It cannot withstand waterlogging but flourishes in deep, moist, well-drained, fertile loams of neutral to slightly acidic composition. Pre-treatment of seeds is not necessary and the seeds can be stored up to 6 months. Cypress provides limited protection against soil erosion and should be under planted with other suitable species. While it provides a windbreak, shade and a live fence, it is not suitable for intercropping.

The Importance of Trees

Trees are very important for environmental and material reasons such as:

A) Environmental improvement -

- Trees cover soil, which protects it from wind and water erosion.
- Leaves and twigs fall to the ground and provide the soil with extra nutrients.
- Trees increase soil moisture by covering the soil and hence reducing evaporation.
- The tree roots help bind the soil and thereby reduce erosion.
- Tree roots also help water to enter the soil and improve underground water circulation.
- Trees improve local weather conditions by increasing the amount of water vapor in the air (increased humidity).
- Trees improve air quality by absorbing carbon dioxide and releasing oxygen.

B) Material and nutritional value -

- Construction materials used for making furniture, posts, fences, ropes, etc.
- Fuel wood
- Medicine
- Food and fodder

Weeding your tree groves now!

Now that the rains have started you should already have transplanted your seedlings into your groves. If you have not yet transplanted them, you need to do so now because seedlings need to be transplanted so they can grow strong in the rainy season and survive the drier months. By looking after our seedlings now they stand a better chance of survival to become strong trees. The most important activity during the rainy season is to weed your seedlings in your groves. Keep the area as clean as possible and pull up any weeds that are growing near your seedlings.

Weeding is important!

- Your seedlings need water, soil nutrients and light to grow strong. The weeds will compete for the soil nutrients and water that your seedlings need, making them weaker and unable to survive.
- If your area is not weeded, more pests will be attracted to the area and damage or kill your seedlings.
- The fewer weeds there are, the less chance there will be of snakes and insects.
- Trees grow faster because weeds won't rob the nutrients and water from the soil.
- Trees will become stronger and grow taller in a shorter period of time.
- Trees get sunlight they need unhindered.
- Trees are not exposed to as many diseases.
- Trees are more protected from a fire spreading.
- Clean groves indicate that all groups are maintaining them and are good examples of the TIST program. This will attract many people to come and see your work.
- Clean groves enable the quantifiers to count the trees quickly and accurately.

We encourage you to weed your groves. Remember to protect the seedlings so that animals, like goats, do not eat or trample on them. Consider fencing the grove or surrounding seedlings with thorn bushes, and if you have some days with no rain, remember to water the seedlings.

The hard work will make a difference by making your trees stronger and healthier.

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Kimereu Version

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Inside:

Turi augi jaria jongwa jario, ba umma na ba Kumenyanira: Ikundi bibinini nibiritaga ngugi irina bata mono kiri umbani bwa cluster yenu. Page 2

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Cluster ya Tandare: Gwika njuki nikumbikite gukurukira uandi miti. Page 4

Uria buumba kuthithia matagara na kubangira mantu jaria bubangite kuthithia. Page 5

Miti iria miega ndene ya TIST: Ya kuanda antu a mibau. Page 6



KIMERU VERSION

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Iriga	54	32312	02 May 2013	362	T-Nithi	Mururune	61	46883	08 Jun 2013	420	Meru
Irindiro	21	15126	07 Aug 2013	149	Meru	Muruta	54	19774	07 Feb 2013	367	Meru
Itugururu	13	6622	03 Jul 2013	28	T-Nithi	Muthambi	41	46534	04 Oct 2013	299	T-Nithi
Kaaga	32	39233	—	239	Meru	Mutuati	26	2243	18 Apr 2013	163	Meru
Kaanwa	29	15978	04 Jun 2013	190	T-Nithi	Mwichiune	37	47104	13 Jun 2013	260	Meru
Kagaene	104	94262	01 Oct 2013	685	Meru	Mworoga	77	103551	09 Aug 2013	573	Meru
Kagumo	99	29857	15 Aug 2013	492	T-Nithi	Naari	51	76871	01 Aug 2013	376	Meru
Kairuni	84	74095	08 Jan 2013	665	T-Nithi	Nchiru	75	42430	31 Aug 2013	546	Meru
Kamachege	14	4572	18 Jul 2013	124	Meru	Ngare ndare	27	9500	16 Feb 2013	213	Meru
Kamaroo	26	17715	16 Oct 2013	206	Meru	Ngiine	45	20277	03 Apr 2012	362	Meru
Kambiti	37	33815	12 Jun 2013	276	Meru	Nguruki	29	33964	06 May 2013	262	T-Nithi
Kangeta	26	949	25 Apr 2013	98	Meru	Njuthine	12	7765	—	73	Meru
Kanjagi	39	42042	16 May 2013	285	Meru	Nkando	59	26343	08 Aug 2013	496	Meru
Kanyakine	27	45423	06 Jun 2013	206	Meru	Nkondi	60	11653	01 Jan 2013	413	T-Nithi
Karama	54	10381	09 Aug 2013	434	Meru	Nkumbo	26	20400	02 Oct 2013	209	Th-Nithi
Kariakomo	16	11980	15 Aug 2013	121	T-Nithi	Ntakani	11	5409	09 May 2013	55	Meru
Karima Kambicha	25	24975	15 Aug 2013	200	Meru	Nthangathi	63	71518	22 Feb 2013	507	Meru
Karocho	19	0	19 Jan 2013	114	T-Nithi	Nthare	5	4787	08 May 2013	26	Meru
Karurune	36	31918	28 Feb 2013	262	Meru	Ntugi	75	100739	13 Jun 2013	596	Meru
Katheri	79	63026	02 Jan 2013	629	Meru	Ntumburi	37	46587	12 Jun 2013	343	Meru
Kathwene	19	2779	—	135	Meru	Nyweri	63	65302	14 Nov 2012	486	Meru
Kawiru MCK	63	27727	07 Jun 2013	500	Meru	Ruiga	20	49930	—	168	Meru
Kiambogo	38	3874	14 Jan 2013	237	Meru	Ruii	24	17711	02 Jan 2013	167	Meru
Kiamiogo	60	82265	28 Mar 2013	455	Meru	Runyeny	40	28633	01 Aug 2013	311	Meru
Kiangondu	14	926	06 Apr 2013	14	T-Nithi	Rwanyange	38	19138	19 Mar 2013	282	Meru
Kiangua	37	21758	04 Mar 2013	37	Meru	Sirimon	60	27718	28 Apr 2012	411	Meru
Kianjagi	60	89583	05 Jul 2013	475	T-Nithi	Subuiga	37	60969	13 Jun 2013	346	Meru
Kibirichia	61	63892	01 Aug 2013	509	Meru	Tharu	45	6999	11 Feb 2013	311	Meru
Kibui	50	27354	11 Apr 2012	393	Meru	Thiira	37	20475	01 Aug 2013	343	Meru
Kibuline	35	19762	08 Oct 2013	253	Meru	Thuura	50	66915	20 Aug 2013	363	Meru
Kiegoi	15	6703	22 Feb 2013	104	Meru	Tubui	19	12925	—	159	T-Nithi
Kiengu	16	11053	04 Jun 2013	126	Meru	Tunyai	36	26925	05 Feb 2013	289	T-Nithi
Kigucwa	72	107520	04 Oct 2013	568	Meru	Urru	21	15663	28 Dec 2012	163	Meru
Kiirua	101	85055	30 Aug 2013	710	Meru	Mara / Mau Region					
Kinoro	53	23677	06 Jul 2013	461	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kiraro	12	1889	16 May 2013	78	T-Nithi	Chemaner	40	7324	11 Mar 2013	245	Bomet
Kiria	63	37201	13 Nov 2013	504	Meru	Cheptuech	6	0	07 Nov 2012	32	Nakuru
Kirimaitume	28	32246	13 Mar 2013	182	Meru	Chesoan	3	0	06 Nov 2012	13	Nakuru
Kirindini	43	47709	10 Jul 2013	283	Tharaka	Irongo	5	0	09 Nov 2012	10	Nakuru
Kirubia	48	26026	09 Aug 2013	258	Tharaka	Kapugunot	6	0	08 Nov 2012	26	Nakuru
Kisima	37	104190	17 May 2013	359	Meru	Kutete	27	9809	12 Mar 2013	184	Narok
Kitheo	57	41573	14 Aug 2013	398	Meru	Mbeere/ Kirinyaga Region					
Kithithina	57	31624	30 Jun 2012	407	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kithoka	66	57143	05 Mar 2012	491	Meru	Kamwiyendei	29	8048	26 Aug 2013	188	Embu
Kithurine	60	19654	03 Jun 2013	513	Meru	Kanjuu	33	7732	13 Jul 2013	282	Kirinyaga
Limauro	52	28532	02 Aug 2013	389	Meru	Karaba-Mbeere	18	2043	27 Sep 2013	97	Embu
Limoro	82	17101	07 Jun 2013	491	Meru	Karumande	56	5004	05 Sep 2013	535	Kirinyaga
L. Imenti Forest	12	205	—	99	Meru	Kianyaga	33	20409	03 Jun 2013	281	Kirinyaga
Magutuni	25	14936	11 Jul 2013	184	T-Nithi	Kilia	18	4178	28 Aug 2013	137	Embu
Marimati	9	0	—	61	Meru	Kilea	34	10217	—	325	Kirinyaga
Maritati	25	55530	—	262	Meru	Mwea	34	10217	—	325	Kirinyaga
Matakiri	62	6774	01 Jan 2013	403	Meru	Ngariama	51	16545	07 Feb 2013	451	Kirinyaga
Maua	38	9247	05 Jul 2013	22	Meru	Njukiini	40	17499	05 Aug 2013	317	Kirinyaga
Mbajone	32	57144	12 Sep 2013	203	Meru	Nthingini	37	9415	27 Aug 2013	255	Embu
Miathene	89	110977	07 Jun 2013	559	Meru	Come and see Areas					
Mikunduri	60	57229	05 Sep 2013	433	Meru	1. Taita/Taveta County					
						2. Nyamira County					
						3. Transzoia County					
						4. Machakos County					



Gwakana: Ukaaga kitharimo kia gikundi na cluster yaku.

Gwakana ni gicunci kia mucemanio jwa o kiumia jwa gikundi giaku gikinini kirina bata mono. luku ria Aefeso inya, ikumi na ithano gwita ikumi na ithanthatu ati nitubati gwaka o umwe wetu twerekerete uujuru bwa Kristo. O umwe ndene ya gikundi giaku gia TIST naretaga biewa kiri gikundi kionthw. Gintu kimwe gia kurigaria kiria kionekaga ndene ya gikundi ni kwona, kugaana na gutumira biewa biu bia kuuma kiri Murungu.

Gwakana ni njira ya gutetheria ieawa biu kwonwa na gutumika. Kurina icunci biiri bia Gwakana:

- Mbele ya iromba ria kuthiria, o muntu wonthe ndene ya gikundi naugaga gintu kimwe gikwirungamira, gikiega kiria mutongeria wa gikundi athithirie. Mung'uanano, nanthekerie, neekire mathaa, nathithirie mibango imiega, neekire inya amemba bonthe kwaria, nanketherie na natumire ndaigua ng'anirite, nonanirie gintu kiria gitigwitaga bwega mucemanione kana ngugine iria gikundi gikuthithagia. Bubu ni untu ukathuura kuthithia kana kurega. Muntu wonthe naakaga mutongeria. Ikundi bimwe nibiakaga kinya mutetheria wa mutongeria.
- Gukurukira kuthiurukia utongeria, o kiumia mutongeria umweru naakagwa.

Gukurukira Gwakana, nitwikanagira inya kiri mantu jamega jaria mutongeria wa kiumia kiu athithirie ndene ya mucemanio na iewa biria oonanirie arinabio.

Gwakana kinya ni njira ya kumenya gutegaga mantu jaria mega kiri antu riu kujauga. Twinthe nitwitagia kuritana ndume cietu kwaria mantu jamega. Kwongera, gikundi kionthe nikimenyaga mantu jaria gikundi kiu kionaga jari jamega kiri mutongeria. Atongeria baria bakathingata bakoona baita kuumania na jaria baigitue kiri Gwakana kiri atongeria baria bakurukite.

Riria waakwa, nthumba iria itongeretie kiumia kiu iuge, "Ibwega", nyuma ya o mumemba auge gintu gikiega na gikwirungamira. Gutu kwariria kwegie uria kuringi kubua nkuruki kana uria kuringi kuthithua antu a ou. Jaria maingi, mumumba ou nagwiragua riria eerwa mantu jamega kwegie uria athithirie ndene ya mucemanio. Rimwe na rimwe nitumenyaga mantu kwegie batwi twingwa jaria tutikwiji!

Gwakana nigutethagia mutongeria wa ntuku iu kumenya iewa biawe na gwita na mbele kubitumira. Gwakana nigutethagia gikundi nontu amemba bonthe nibaejaga nthumba injega nkuruki o uria bakumenya mantu. Gwakana ni Kitharimo mainda jairi!

Cluster ya Tandare: Gwika njuki nikumbikite gukurukira uandi miti.

Amemba ba cluster ya Tandare nibaambiritie muradi jwa gwika njuki. Nibaakite antu a gwika njuki kurina mauga janna ja gintwire na maugu ikumi n jairi ja kinandi. Cluster ya Tandare ikambiria kuthithia naicu inyingi mono ruua. Turina nkatho kiri mutongeria wetu Joseph Mukungo. Nitugukura kiinya. TIST niiture!





Uria buumba kuthithia matagara na kubangira mantu jaria bubangite kuthithia.

Ikundi na cluster cia TIST niithithagia mantu jamaingi: kuanda miti, kuthongomia njira cia urimi. Riria kurina mantu jamaingi ja kuthithia, ni bwega kuthithia matagara ja kuthithia mantu jau. O mumemba nabati kwira gikundi kienu mantu jaria akathithia kiumia kiu. Tugakuritana, turitane gikundi giaku na kinya cluster yaku uria buumba kubangira untu.

Itu thomeni amwe na amemba bangi ba cluster yaku ndene ya mucemanio jwenu.

Itagara ni gintu:

- Gikwirungamira kiongwa
- Gikwoneka
- Gikomba kuthimwa
- Kirina mwambirio na muthia
- Menya ati itagara riu ni gintu gikoombika na gintu bukomba kuthithia!

Mung'uanano, kuuga 'nkaanda miti' ti itagara nontu niuntu buri bubwarie mono. 'nkarita ngugi mithenya ithatu kiumia giki kuthamia miti mirongo mugwanja na itano gwita muundene jwetu jumweru' ni itagara niuntu nibukwirungamira (kuthamia miti mirongo mugwanja na itano), nibukwoneka (antu bagakwona ukithithagia), nibukuthimika (miti mirongo mugwanja na itano, mithenya ithatu), na burina mwambirio na muthia (ntuku ithatu ikithira ukoona ngugi ithiri).

Cluster yaku yatirimana kairi, jukieni ndagika ikumi muthiene jwa mucemanio jwa gikundi gikinini nikenda muntu wonthe auga itagara riawe. Muntu wonthe na ukui:

- (1) **Eere gikundi itagara riawe ria kiumia kithiru riari mbi.**
- (2) **Auge uria unywa athithirie.**
- (3) **Auge itagara riria akajukia kiumia kiria kithingatite.**

Kethira mumemba ou noombanire kiri kujukia itagara riawe, gikundi nikigwiragirua uumbani bubu.

Kethira, ja uria gukarikaga jamaingi, mumemba ombire gukinyira nusu ya itagara riawe, gikundi nikimwikagira inya na gitimwonagiria uria athukitie. Riria antu boombaga kugaana na uuthu kwegia uumbani bwao na naria bakuremerwa bagekirwa inya kuthithia bwega nkuruki kiumia kiu kingi. Ikira inya amemba ba gikundi kana cluster yaku kuthuganiria matagara jaria boomba kujukia.

Menyeera ati itagara rionthe nirikwirungamira, nirikuthimika na rikombika! Gaana na ugwiranirue na gikundi kana cluster yaku riria wakinyira itagara riaku.

Matagara riria ukubangira kuthithia untu.

Njira igukara o tai u iri au iguru noitumirwe riria ukubangira kuthithia untu. Aja mung'uanano nijwonenu aja. Riria gikundi giaku gikubanga mantu ja kuthithia, menyeera ati mibango yenu iri:

Nikwirungamira (Cluster yetu ikaanda miti ngiri mirongo itano ndene ya miunda yetu mbele ya tariki mirongo iiri mweri jwa December)

Niikuthimika (Ni ing'ana? - miti ngiri mirongo itano ikaandwa)

Igakinyirika/ ikoombika (O gikundi gia TIST ndene ya cluster gikaanda miti ngiri ndene ya biumia bitano- miti igana o Jumaine na Alhamisi cionthe, miti ikumi o muntu o ntuku)

Nibuthimiri ntuku (Burina mwambirio na muthia – tukaanda miti iu gatigati ka Novemba tariki ikumi na ithano na Decemba tariki mirongoiiri)

Nibukwoneka.

SMARTO!

Aja ni jaria bukathingata na jaria bugatumira kuthima matagara jenu riria bukubanga na jakabutethia kuthithia matagara jakwirungamira:

- 1) **Nimbi** – (Kuanda miti ngiri mirongo itano)
- 2) **Nibau** – (mariitwa ja amemba ba gikundi gikinini gia TIST)
- 3) **Rii** – (Nov 15 – Dec 20)
- 4) **Naa** – (ndene ya miunda yetu)
- 5) **Atia** – (Tugatirimana o jumaine na alhamisi ugoro riu riathira na twinje marinya, riu tuande miti)
- 6) **Niki** – (Kuthongomia miunda yetu, kugia nkuu inyingi, kutheria naria gututhiurukite na kwona mbeca kuumania na biashara ya kwendia ruugo)

Nandi gerieni kuthithia mibango ya kuthithia untu ndene ya mucemanio jwa gikundi kienu na jwa cluster ndene ya mucemanio jou jungi.



Miti iria miega ndene ya TIST: Ya kuanda antu a mibau.

Antu babaingi baria bamenyagira naria gututhiurukite barina nkanja kwegie uria mubau juthithagia naria gututhiurukite. Mantu jaria jonanagia uthuuku bwa mibau ti jamothu niuntu bwa uria kuri mithemba imingi ya mibau. Athomi noobetikagia mantu jamwe ja jaja. Indi-ri, aja kurina mantu jamwe ja kuuga niki amemnyeeeri ba naria gututhiurukite batiendaga uandi bwa mibau:

- Miti niomagia antu na njira ya kujukia ruuji rurwingi kuuma nthiguru.
- Miti iji nijukagia irio bibingi kuuma kiri muthetu na gutuma jukarema gutumirika kiri urimi.
- Mathangu jatoraga na uuthu na kinya nijanyagia tunyomoo turia tukaraga muthetune turia turi baita..
- Mithemba imwe ya imera na nyomoo itiumba gutuura aria kwina miti imingi ya mibau.

Antu bonthe no barege gwitikaniria kiri mantu jamaingi jaria jaandiki au, indi kurina gitumi king'ani na kwou TIST niibati kuthikira bwega. Ikundi bimwe ndene ya Uganda nibaejene ripoti ati ruuji nirwanyire kuuma bakuanda mibau. TIST nikuatha arimi bonthe kurega kuanda mibau naria kurina ruuji, nteere cia nduui na miundene iminoru. Indi-ri, miunda imwe no ibwire mibau na mumenyeri mwitu juria juri akui no akue mawaitha.

Kurina gitumi kia jairi niki TIST itikagira inya uandi bwa mibau. Arimi babaingi bakagita miti yao itikinyitie miaka mirongoiri na TIST itiumba kwendia ruugo ruru tiga miti igakara miaka mirongo ithatu nontu ni miti iria iri mwoyo aki iriagwa. TIST yaria motisha kiri miti iria ikagitwa ndene ya miaka itigukinyia mirongo ithatu, gukethirwa kurina mbea inkai kiri ikundi biria biandite miti na biria biikite miti iu igita ririraja.

Arimi nobende kuanda mibau miundene niuntu bwa nkuu na mpao. landi naria ibati, miti iji no itethie kunyiyia urito kiri miitu iria iumite yongwa iria irio. Indi-ri, miunda ya miti iria iandagwa nikenda ikwethwa iri imianake itibati gutarwa ndene ya TIST

Kwongera gukaraniria kwa nyomoo na imera bia mithemba mwanya, menyeera muunda jwaku na uande miti ya igita riraja iria ikoomba kuriwa niuntu bwa gwika ruugo ruruthuku. Nitwathaga ikundi kuanda muti jungi juti mubau.

Ni miti iriku iri imiega antu a mibau?

miti iji iri aja ni imwe iria aritani ba TIST ndene ya Kenya bakuuga ni imiega:

Grevillea Robusta, kinya nijwitagwa silky oak (Na gikuyu jwitagwa mukima).

Muti juju jukurangaga na mpwi nijwendaga muthetu juria jutigwika ruuji, itarenie na mita inya gwita ithano na itithuranagirwa mbele ya kuanda. Mbeu noikwe mwanka mieri ithatu kana nkuruki riria iki antu kurina mpio inyingi. Miti iji nimenyagira muthetu, nikunikagira majani na kauwa, na nikuraga bwega amwe na irio yamenyerwa bwega uria itikunikira mono na ni kiumo gikiega mono kia irio bia ndithia riria kunyari.

Cypress kana Cupressus lusitanica, (Kikuyu: mutarakwa; Kimeru: muthithinda)

Muti juju nijwonekaga rimwe juri naria kurina ruuji rimwe na rimwe kana naria kwithagirwa kurina ruuji rionthe kana uumo butigukuraka mieri iiri gwita ithatu . jutiumiria antu ruuji rwigaraga indi nijuthongomaga antu kuri na muthetu jumwingi, jurina ruuji, jutigwika muthetu, na jumunoru na jutina acid inyingi. Mbeu itiendaga uthuraniri kinya buriku na mbeu no iikwe mwanka mieri itantatu. Muthithinda kinya nijurigagira gukamatwa kwa muthatu na nijubati kuandwa amwe na mithemba ingi ya miti. Kinya kethira ninyiagia ruugo, na gutua kirundu na rwego, jutibui jwa kuandaniria na irio.

Niki miti irina bata

Miti irina bata mono kiri naria gututhiurukite na kiri gutua into niuntu bwa:

A) Kuthongomia naria gututhiurukite -

- Miti nikunikagira muthetu, na kujurigiria jutakamatwe ni ruugo kana ruuji.
- Mathangu na maang'i nijagujaga muthetune na kua muthetu irio.
- Miti niingiagia ruuji muthetune na njira ya kujukunikira na kwou kunyiyia gukamatwa kwa ruuji niuntu bwa murutira.
- Miri nitethagia kugwatia muthetu na kwou kunyiyia gukamatwa kwaju .
- Miri ya miti kinya nitethagia ruuji gutonya muthetune na kuthongomia kuthiuruka kwa ruuji nthiguru.
- Miti nithongomagia rera ya o ntuku gukurukira kwongera ruuji ruria ruri ruugone.
- Miti nithongomagia ruugo gukurukira kujukia ruugo ruruthuku na kurika ruugo rurwega kiri nyomoo. .

B) Into na irio-

- Into bia guaka biria bitumagirwa kuthithia into bia nyomba, ikingi, nwego, mirigi na bingi.
- Nkuu
- Ndawa
- Irio bia muntu na bia ndithia

Kuurira iria miunda yaku ya miti nandi!

Nandi niuntu ngai niambiritie nubati kwithirwa uthamitie miti yaku yeeta muundene. Kethira utamithamia, nubati kuthithia u nandi nikenda miti yaku ikagia inya igitene ria mbura na yumba gutuura kwooma. Gukurukira kumenyeera miti yetu nandi ikooona kanya gakega ga gutuura na kua miti irina inya. Untu buria burina bata buru mburene ni kurimira miti yaku. lika antu au kutheri uria kuumbika na ukurire iria riria rikuuma akui na miti yaku iminini.

Gukuurira iria kurina bata!

- Miti yaku iminini nikwenda ruuji, irio na weru nikenda igia inya. Iria rigashindanira irio na ruuji ruria miti yaku ikwenda na gutuma iage inya na itiumba gutuura.
- Kethira munda jwaku jutikuuriri iria, tunyomoo tututhuku tugakucua antu au na kuthukia kana kinya kuuraga miti yaku.
- O uria kurina iria ririkai nou kanya ga kwona njoka na tunyomoo gakanya.
- Miti nineneaga ntuti niuntu iria ritiya irio na ruuji kuuma kiri muthetu.
- Miti ikagia inya na ire ndene ya igita ririkai. .
- Miti nikinyagirwa ni riuwa riria ikwenda itikwithwa. .
- Miti itikurugurirwa mirimo imingi.
- Miti nimenyagirwa kuumani na gutamba kwa mwanki.
- Miunda itina maria nionanagia ati ikundi bionthe nibikumimenyeera na ni ming'uanano imiega ndene ya TIST. Bubu bugakucia antu babaingi kwija na kwona ngugi yenu.
- Miunda imitheru nitethagira Atari miti gutara ntuti na gutara bwega..

Nitukubwikira moyo gukurira miunda yenu iria. Rikana kumenyeera miti yenu iminini nikenda ndithia, ja mburi, itikamirie kana iminyangia. Thuganiria gwaka rwego kuthiuruka muunda kana kwirigira miti na kithaka kia miigua na kethira urina ntuku imwe itina ruuji, rikana gwikira miti yaku iminini ruuji.

Ngugi iu ya inya ikathithia mwanya na njira ya gutuma miti yaku igia inya na igia thiria nkuruki.

Mazingira Bora



TIST

The International Small Group & Tree Planting Program
www.tist.org

Kikuyu Version

An Environmental, Sustainable
Development and Community Forestry
Program.



Mr. Godfrey Ngumo, his wife and TIST Cluster Servant, Josephine Mwangi inspecting their Small Group Nursery. Ngumo's group, River Dep. D, TIST Number 2005KE504 has close to 1,500 Croton Megalocopus (Mikinduri) seedlings. They belong to Ragati Cluster near Nanyuki Town. This group, besides planting more trees in their own private farms, will be selling some of their seedlings. If you are interested to buy, contact Godfrey on 0724 83 65 62

Thiini:

Turi a ma, utheri na nitwihokanite: Ikundi nicinyitaga itemi inene muno hari gukura gwaa Cluster. Page 2

Kujengana: Ndugatigirirwo ni irathimo cia gikundu na cluster yanyu. Page 4

Cluster ya Tandare: Uigi wa njuki kuhoteteka niundu wa uhandi wa miti. Page 4

Uria mungithondeka makinya na mibango ya ciiko. Page 5

Miti iria miega kuri TIST: Handu ha mibau. Page 6



Turi a ma, utheri na nitwihokanite: Ikundi nicinyitaga itemi inene muno hari gukura gwaa Cluster.

Tukiruta wira hamwe thiini wa TIST, nituhotete gwika maundu maingi. Umuthi, kuri namakiria ma Cluster 180 thiini wa Kenya na ciri na miti makiria ma 6.5m iria ihanditwo na igakorwo igikura na igatarwo. Turi na makiria ma arimi 54,000 aria mari thiini wa ikundi 7,500. nitwakunguiire gukorwo tuthuthuritia na tukahitukio ni ruhonge rwa Verifiedn Carbon Standards and Climate and community Staandards. Iria ihitukitie arimi kuoya ikinya thiini wa thoko ya carbon. Riria twanyitanira na twarumirira mawatho ma TIST nituhotaga gwika maundu manene.

Ona kuri o uguo, niturabatara makiria. Nyingi cia cluster ciitu nicihandite miti miiganu kuhotithia biashara ya carbon gukorwo na faida na kwirugamirira. O cluster niikoragwo na mworoto wa kuhanda miti makiria ma 200,000 thiini wa miaka 5. na makiria, cluster nicirabatara gutigirira ati miti yao niyaikara iri muoyo gwa kahinda gatanyihiire miaka 30 niguu guteithika na na wendia wa carbon. Cluster iria ciitikiragia amemba gutema miti

nicirathukia muoroto wao wa kwigira na maciaro kumana na wendia wa carbon thiini wa cluster yothe. TIST niihinyagiriria arimi mataganie miti yao na njira itakuminina. Njira ino nihotithagia o mundu gukorwo na ngu cia kuigana na wendia wa carbon ugakorwo uri o mwega. Kwa muhiano, ikundi nicitikiritia kugetha miti gicunji kia 5% riria yakinya miaka 10 na makiria.

Cluster yanyu nimwagiriirwo nikwaraniria uria mugukinyaniria kioneki gia kuhanda miti 200,000 na makiria. Mandiko mangi nimekumuthomithia uria muguthondeka mubango wa makinya maria mukuoya. Oya kahinda hingo ya mucemanio na muthondeke mubango uyu.

Haha ni uhoro kuma TIST.org/mobile iria ikuhotithagia kwona cluster yaku na ingi nyingi iria urenda kumenya uhoro wacio. Thiini wa micemanio yanyu ya cluster, mutungti wa cluster yanyu niekuhota kumuhe uhoro mukinyaniru kuma rurenda-ini na moho acokie ciuria cianyu cia miti na maundu mangi.

Nanyuki Region

Cluster	Groups	Trees	Last Election	Members	County
Aguthi	27	28471	14 May 2013	191	Nyeri
Burguret	36	39300	17 Jul 2013	257	Nyeri
Buuri	28	9793	18 Jun 2013	181	Meru
Chuma	28	25377	23 Apr 2013	194	Laikipia
Gaturiri	28	33278	14 May 2012	184	Nyeri
Gikati	41	34240	04 May 2013	295	Nyeri
Ichuga	43	127800	29 Aug 2013	285	Nyeri
Itangini	48	66268	30 Aug 2013	318	Nyeri
Kahuho	19	17821	04 Apr 2013	129	Nyeri
Kamangura	38	24162	25 Jan 2013	279	Nyeri
Kamuthanga	15	9042	09 Jul 2013	96	Laikipia
Kangaita	23	30896	14 Jun 2013	142	Meru
Karaba	51	42956	07 Oct 2013	335	Laikipia
Karoki	34	55135	20 Mar 2013	237	Nyeri
Karundas	56	49588	15 Jan 2013	368	Nyeri
Kiahuko	21	12245	01 Apr 2013	147	Laikipia
Kiamariga	41	44763	16 Feb 2013	304	Nyeri
Kiamathaga	36	40385	04 Jun 2013	240	Nyeri
Kimahuri	36	62483	06 Jun 2013	240	Nyeri
Kiriogo	45	12088	09 May 2013	291	Laikipia
Kwajebi	55	32934	19 Sep 2013	377	Laikipia
Mairo Nne	22	7033	19 Sep 2013	162	Nyandarua
Male	51	35452	05 Apr 2013	326	Laikipia
Manyatta	39	67977	11 Jul 2013	271	Nyeri
Matanya	29	19766	03 May 2013	207	Laikipia
Mathingira	28	1209	12 Oct 2013	178	Laikipia
Mbiriri	33	19692	13 Jun 2013	240	Nyeri
Mia Moja	36	29770	16 May 2013	262	Meru
Mithuri	51	22869	04 Oct 2013	349	Laikipia
Muhonia	29	13075	25 Jan 2013	198	Laikipia
Muhotetu	New	0	—	0	Laikipia
Munyu	39	33287	14 Oct 2013	241	Laikipia
Mururu	43	43060	11 Sep 2013	315	Nyeri
Muruku Pesi	50	25109	19 Sep 2013	317	Laikipia

Cluster	Groups	Trees	Last Election	Members	County
Murungai	63	44881	11 May 2013	502	Laikipia
Mutamaiyu	New	0	24 Apr 2013	0	Laikipia
Mweiga	27	21972	06 May 2013	175	Nyeri
Njorua	44	29731	12 Sep 2013	318	Laikipia
Ntrukuma	39	34628	18 Sep 2013	282	Laikipia
Nyakinyua	22	0	—	141	Laikipia
Nyariginu	39	44661	06 Mar 2013	289	Laikipia
Ontilili	43	40899	18 Jan 2013	300	Meru
Pondo	58	79625	20 May 2013	516	Nyandarua
Ragati	28	63857	31 Jul 2013	187	Nyeri
Raichiri Podo	48	40024	17 Sep 2013	350	Nyandarua
Salama	47	26921	09 Sep 2013	303	Laikipia
Sweet Water	22	21591	21 Jun 2013	136	Laikipia
Tandare	54	45978	07 Oct 2013	360	Laikipia
Thome	27	20606	10 May 2013	171	Laikipia
Thung'ari	13	18327	18 Jun 2013	91	Nyeri
Wamura	38	6702	07 Feb 2013	228	Laikipia
Warazo Jet	29	29718	08 Feb 2013	200	Nyeri
Weruini	21	19176	09 Jul 2012	179	Laikipia
Wiumiririe	84	38993	18 Apr 2013	569	Laikipia
Boiman	New	0	—	—	Nyandarua
Kite	4 New	0	24 Jun 2013	12	Laikipia

Meru Region	Groups	Trees	Last Election	Members	County
Cluster					
Anchenge	New	0	—	0	Meru
Ankamia	40	39910	10 Jul 2013	248	Meru
Antubochiu	29	21763	20 Sep 2013	176	Meru
Athi	17	12544	02 Oct 2013	63	Meru
Barangu	38	22312	05 Feb 2013	351	T-Nithi
Burimaria	20	16634	01 Jul 2013	121	Meru
Chung'ari	69	44148	14 May 2013	493	Meru
Ciakanyinga	64	33495	09 Sep 2013	447	T-Nithi
Gachua	77	65647	28 Feb 2013	561	Meru



KIKUYU VERSION

Cluster	Groups	Trees	Last Election	Members	County	Cluster	Groups	Trees	Last Election	Members	County
Gakurungu	12	8008	01 Jul 2013	87	T-Nithi	Miruriiri	24	15124	12 Jul 2013	185	Meru
Gatangine	41	74423	09 Jul 2013	332	Meru	Mitheru	49	66924	13 Jun 2013	409	T-Nithi
Giaki	64	66179	05 Mar 2013	489	Meru	Mitoro	35	15091	25 Jul 2013	166	Meru
Gikumene	92	68814	07 Mar 2013	658	Meru	Mituntu	57	13530	09 Aug 2013	378	Meru
Githongo	43	33754	05 Mar 2013	339	Meru	Mpuri	55	28742	06 Feb 2013	402	Meru
Gitimene	69	90627	03 Sep 2013	539	Meru	Mulathankari	21	16289	—	149	Meru
Igwanjau	70	35888	28 May 2012	494	T-Nithi	Mumbuni	24	10867	26 Apr 2013	159	T-Nithi
Ikindu	13	9932	08 Apr 2013	77	T-Nithi	Muragara	25	16864	04 Jul 2013	216	T-Nithi
ikumbo	18	5813	11 Apr 2012	168	T-Nithi	Murinya	53	67535	05 Aug 2013	378	Meru
Iriga	54	32312	02 May 2013	362	T-Nithi	Mururune	61	46883	08 Jun 2013	420	Meru
Irindiro	21	15126	07 Aug 2013	149	Meru	Muruta	54	19774	07 Feb 2013	367	Meru
Itugururu	13	6622	03 Jul 2013	28	T-Nithi	Muthambi	41	46534	04 Oct 2013	299	T-Nithi
Kaaga	32	39233	—	239	Meru	Mutuati	26	2243	18 Apr 2013	163	Meru
Kaanwa	29	15978	04 Jun 2013	190	T-Nithi	Mwichiune	37	47104	13 Jun 2013	260	Meru
Kagaene	104	94262	01 Oct 2013	685	Meru	Mworoga	77	103551	09 Aug 2013	573	Meru
Kagumo	99	29857	15 Aug 2013	492	T-Nithi	Naari	51	76871	01 Aug 2013	376	Meru
Kairuni	84	74095	08 Jan 2013	665	T-Nithi	Nchiru	75	42430	31 Aug 2013	546	Meru
Kamachege	14	4572	18 Jul 2013	124	Meru	Ngare ndare	27	9500	16 Feb 2013	213	Meru
Kamaroo	26	17715	16 Oct 2013	206	Meru	Ngiine	45	20277	03 Apr 2012	362	Meru
Kambiti	37	33815	12 Jun 2013	276	Meru	Nguruki	29	33964	06 May 2013	262	T-Nithi
Kangeta	26	949	25 Apr 2013	98	Meru	Njuthine	12	7765	—	73	Meru
Kanjagi	39	42042	16 May 2013	285	Meru	Nkando	59	26343	08 Aug 2013	496	Meru
Kanyakine	27	45423	06 Jun 2013	206	Meru	Nkondi	60	11653	01 Jan 2013	413	T-Nithi
Karama	54	10381	09 Aug 2013	434	Meru	Nkumbo	26	20400	02 Oct 2013	209	Th-Nithi
Kariakomo	16	11980	15 Aug 2013	121	T-Nithi	Ntakani	11	5409	09 May 2013	55	Meru
Karima Kambicha	25	24975	15 Aug 2013	200	Meru	Nthangathi	63	71518	22 Feb 2013	507	Meru
Karocho	19	0	19 Jan 2013	114	T-Nithi	Nthare	5	4787	08 May 2013	26	Meru
Karurune	36	31918	28 Feb 2013	262	Meru	Ntugi	75	100739	13 Jun 2013	596	Meru
Katheri	79	63026	02 Jan 2013	629	Meru	Ntumburi	37	46587	12 Jun 2013	343	Meru
Kathwene	19	2779	—	135	Meru	Nyweri	63	65302	14 Nov 2012	486	Meru
Kawiru MCK	63	27727	07 Jun 2013	500	Meru	Ruiga	20	49930	—	168	Meru
Kiambogo	38	3874	14 Jan 2013	237	Meru	Ruiiri	24	17711	02 Jan 2013	167	Meru
Kiamiogo	60	82265	28 Mar 2013	455	Meru	Runyeny	40	28633	01 Aug 2013	311	Meru
Kiangondu	14	926	06 Apr 2013	14	T-Nithi	Rwanyange	38	19138	19 Mar 2013	282	Meru
Kiangua	37	21758	04 Mar 2013	37	Meru	Sirimon	60	27718	28 Apr 2012	411	Meru
Kianjagi	60	89583	05 Jul 2013	475	T-Nithi	Subuiga	37	60969	13 Jun 2013	346	Meru
Kibirichia	61	63892	01 Aug 2013	509	Meru	Tharu	45	6999	11 Feb 2013	311	Meru
Kibui	50	27354	11 Apr 2012	393	Meru	Thiira	37	20475	01 Aug 2013	343	Meru
Kibuline	35	19762	08 Oct 2013	253	Meru	Thuura	50	66915	20 Aug 2013	363	Meru
Kiegoi	15	6703	22 Feb 2013	104	Meru	Tubui	19	12925	—	159	T-Nithi
Kiengu	16	11053	04 Jun 2013	126	Meru	Tunyai	36	26925	05 Feb 2013	289	T-Nithi
Kigucwa	72	107520	04 Oct 2013	568	Meru	Urru	21	15663	28 Dec 2012	163	Meru
Kiirua	101	85055	30 Aug 2013	710	Meru	Mara / Mau Region					
Kinoro	53	23677	06 Jul 2013	461	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kiraro	12	1889	16 May 2013	78	T-Nithi	Chemaner	40	7324	11 Mar 2013	245	Bomet
Kiria	63	37201	13 Nov 2013	504	Meru	Cheptuech	6	0	07 Nov 2012	32	Nakuru
Kirimaitume	28	32246	13 Mar 2013	182	Meru	Chesoan	3	0	06 Nov 2012	13	Nakuru
Kirindini	43	47709	10 Jul 2013	283	Tharaka	Irongo	5	0	09 Nov 2012	10	Nakuru
Kirubia	48	26026	09 Aug 2013	258	Tharaka	Kapugunot	6	0	08 Nov 2012	26	Nakuru
Kisima	37	104190	17 May 2013	359	Meru	Kutete	27	9809	12 Mar 2013	184	Narok
Kitheo	57	41573	14 Aug 2013	398	Meru	Mbeere/ Kirinyaga Region					
Kithithina	57	31624	30 Jun 2012	407	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kithoka	66	57143	05 Mar 2012	491	Meru	Kamwiyendei	29	8048	26 Aug 2013	188	Embu
Kithurine	60	19654	03 Jun 2013	513	Meru	Kanjuu	33	7732	13 Jul 2013	282	Kirinyaga
Limauro	52	28532	02 Aug 2013	389	Meru	Karaba-Mbeere	18	2043	27 Sep 2013	97	Embu
Limoro	82	17101	07 Jun 2013	491	Meru	Karumande	56	5004	05 Sep 2013	535	Kirinyaga
L. Imenti Forest	12	205	—	99	Meru	Kianyaga	33	20409	03 Jun 2013	281	Kirinyaga
Magutuni	25	14936	11 Jul 2013	184	T-Nithi	Kilia	18	4178	28 Aug 2013	137	Embu
Marimati	9	0	—	61	Meru	Kilea	34	10217	—	325	Kirinyaga
Maritati	25	55530	—	262	Meru	Mwea	34	10217	—	325	Kirinyaga
Matakiri	62	6774	01 Jan 2013	403	Meru	Ngariama	51	16545	07 Feb 2013	451	Kirinyaga
Maua	38	9247	05 Jul 2013	22	Meru	Njukiini	40	17499	05 Aug 2013	317	Kirinyaga
Mbajone	32	57144	12 Sep 2013	203	Meru	Nthingini	37	9415	27 Aug 2013	255	Embu
Miathene	89	110977	07 Jun 2013	559	Meru	Come and see Areas					
Mikunduri	60	57229	05 Sep 2013	433	Meru	1. Taita/Taveta County					
						2. Nyamira County					
						3. Transzoia County					
						4. Machakos County					



Kujengana: Ndugatigirirwo ni irathimo cia gikundu na cluster yanyu.

Kujengana ni kindu kia bata muno hari gikundi thiini wa mucemano wa o kiumia. Thiini wa Ephesians 4:15,16 yugite ati twakane turi thiini wa mwathani. O mundu thiini wa gikundi kianyu akoragwo na kiheo giake kiria angihe gikundi giothe. Umwe wa maundu maria ma magegania thiini wa ikundi ni gutamburana, guthomithania na kuhuthira iheo ciitu.

Kujengana ni njira ya gutuma iheo ici cioneka na cihuthike. Kuri miena iiri ya kujengana:

- Mbere ya mahoya ma muthia, o mundu thiini wa gikundi akauga kaundu kamwe kari na mworoto na ga guteithi karia mutongoria eka thiini wa mucemano. Kwa muhiano, niathekire, niaigire mathaa, auma na mibango miega, niekirire amemba hinya wa kwaria, niangeithirie na atuma njigwe ndi mucii, agweta kaundu kamwe karia gatumire mucemano wagire muno kana wira-ini wa gikundi. O mumemba agiriirwo nikuga kaundu gake ka mwanya. Kaundu gaka nika o muhaka. O mundu akaheana kujengana kuri mutongoria. Ikundi ingi niciheanaga kujengana kuri munini wa mutongoria
- Iguru ria uguo, mundu angiona kiheo kionanio ni mutongoria, memba wa gikundi no auge uguo.

Niundu wa utongoria wa guthiururukana, o kiumia o mutongoria niariheagwo kujengana. Kuhitukira kujengana, nitwikiranaga hinya maunduini maria twahota kiumia kiuu thiini wa micemano na iheo iria mutongoria ucio onania.

Kujengana ningi ni njira ya guthoma maundu maguteithia maria megii andu na ukamauga. Ithuothe nitwagiriirwo ni guthomithia nimi ciitu kwaria maundu mega. Na makiria, gikundi giothe gigathoma kiria gikundi kireciria nikia bata hari mutongoria. Mutongoria ucio ungi nieguteithika na maundu maria aigua mucemano-ini na amenye maundu maria gikundu kironamari ma bata hari mutongoria.

Niundu wa kujengana, kiumia kiu mutongoria akauga “Ni ngatho” thutha wa mumemba kwaria wega wake. Gutiagiriirwo nikwariririo uria gukwagiriirwo ni guthii kana uria gukwagiriirwo nigwikwo ngurani. Maita maingi, mutongoria niakenaga riria erwo maundu mega thiini wa mucemano. Maita mangi nituthomaga maundu maitu tutaroi!

Kujengana niguteithagia mutongoria muthenya ucio guthambura iheo ciake na agathii na mbere na gucihuthira. Kujengana niguteithagia ikundi tondu amemba othe nimathomaga. Kujengana ni kirathimo maita 2!

Cluster ya Tandare: Uigi wa njuki kuhoteteka niundu wa uhandi wa miti.

Amemba a cluster ya Tandare nimambiriirie kuiga njuki. Nimathondekete apiary ime iria iri na miatu 14 ya kii-riu na ingi 12 ya gitene. Cluster ya Tandare niikugetha uki na githimi kinene kahinda gatari hanene. Nituracokeria mutongoria witu Joseph Mukungo ngatho. Niturakura na hinya. TIST irotura.





Uria mungithondeka makinya na mibango ya ciiko.

Ikundi cia TIST na cluster niciikaga maundu maingi maroneka: Uhandi wa miti na kugacirithia njira cia urimi. Riria kuri na wira muingi wakurutwo, niwega guthondeka makinya ma kuruta wira ucio. O mumemba wa gikundi niagiriirwo nikwira gikundi kiria erigiriire gwika kiumia kiu. Nitukumuthomithia, thuthomithie ikundi na cluster uria mugukorwo na mubango uyu.

Thomithania-i thiini wa cluster na muno thiini wa micemanio.

Mubango wa kuruta wira uhana ta uu;

- menya uria ureka.
- Kindu kingioneka
- kindu kingithimika
- kindu kiri na kiambiriria na muico
- kindu kingihoteteka.

Kwa muhiano, riria wauga “ninguhanda miti” ucio ti mubango muega tondu urahutia maundu maingi. “Ninguhuthira ruciini ithatu kiumia giki kuhanda miti75” ni mubango mwega tondu niuramenyeka uria ugwika(kuhanda miti 75) niurioneka (andu nomone uria ureka) niurathimika (miti 75 ruciini 3) na uri na kiambiriria na muico (matuku matatu magithira)

Cluster yanyu yacemania ringi, itikiria ndagika 10 hakuhi na muthia wa mucemanio niguo o mundu auge makinya make nimariku, o mundu naihenya:

1. **Ira ikundi mubango wao wa kiumia githiru wari uriku.**
2. **Uga uria mekire.**
3. **Uga makinya maira mekwoya hari kiumia giukite.**

Angikorwo mundu niahota gwika uria augite niegwika, gikundu gigakenera uhoti ucio.

Angikorwo, tauria kuhanikaga muno andu makiambiriria, mumemba wa gikundi ahotete gwika maundu o mamwe ma maria augite egwika,

mutikamutuire. Riria andu marahota kuga uria mahotete gika matakuringiririo nimahotaga na magekirwo hinya gwika maundu mangi manene o kiumia. Ikira gikundi kianyu hinya ohamwe na amemba niguo mecirie wega makinya maya. Tigirira o ikinya riri na kioneki, norithimike na norihoteteke! Heana na ukunguire maundu mariagikundi kana cluster ihotete gwika.

Makinya na mibango ya ciiko.

Njira ta iyo noihuthirwo riria murabanga. Kionereria haha nikiheane. Riria gikundi kianyu kirabanga uria gigwika, tigrira mibango yanyu ni;

Iri na kioneki (Cluster iitu ikuhanda miti 50,000 thiini wa migunda iitu tugikinyiria December)

Noithimike (Miti iigana? - 50,000 niyo ikuhandwo)

Noihoteteke (o gikundi gia TIST thiini wa clusternokihande miti 1000 thiini wa ciumia 5 – miti 100 hari Tuesday na thursday, miti 10 hari o mundu o muthenya)

Niironeka SMARTO!

Giki nikio kionereria na kigerio kia makinya n maibango yanyu iria ikumuteithia.

1. **Kii** – (kuhanda miti 50,000)
2. **Uu?** - (amemba a ikundi cia TIST na maritwa mao)
3. **O ri?** - (November 15 – december 20)
4. **o ku?** - (Migunda-ini iitu)
5. **Atia?** - (tucemanagia o tuesday na thursday miaraho na tukenja marima na tugacoka tukahanda miti)
6. **Niki?** - (kwagirithia migunda iitu, kugia na ngu nyingi, gutheria riera na kugia na mbecha kumana na carbon.

Riu thii ugerie mubango ucio thiini wa mucemanio wa ikundi na cluster.



Miti iria miega kuri TIST: Handu ha mibau.

A taalamu aingi a maria maturigiciirie nimararora muno mathina maria mararehwo ni miti ya mibau. Ndereti iria ikoretwo kuo igii miti ya mibau ni ati kuri mithemba miingi ya miti ya mibau. Athomi matiri marekira uhoro ucio mukonde. No ona kuri o uguo, maya ni maundu mamwe ma maria athomi aya metikitie hari uhandi wa miti ya mibau.

- Miti ino niibataraga unoru wa tiiri muingi muno kwa uguo ukahinjia mugunda.
- Mahuti maguo matibuthaga na-ihanya kwa uguo matingiteithia tiiri.
- Mithemba miingi ya miti ndikuranagira na mibau.

Ona angikorwonundu o wothe ndaretikania na maundu maya, kuri na kimako kiiganu uria TIST irarora uhoro uyu na kinyi. Ikundi imwe thiini wa Uganda nimaugite ati githimi kiao kia maai nigicokete thi thutha wa kuhanda miti ya mibau. TIST niirahinyiriria arimi matikahande miti ya mibau maai-ini kana mugunda-ini munoru. Ningi, migunda ingi noikorwo iri miega kuhandwo mibau na forester wa kwanyu no amutaare.

Kuri na gitumi kiiganu gia TIST kuhinyiriria arimi matikahande miti ya mibau. Arimi angii nimegwatura mbau gwa kahinda kanyihire miaka 20 na TIST ndikohota kwendia carbon credits angikorwo miti iyo ndigukura gwa kahinda gatanyihire miaka 30. TIST ingiriria njohereza kuri miti iria igutemwo itakinyitie miaka 30, nigugukorwo na mbecha itari njiganu kuri ikundi aria mahotete kuiga miti yao iri muoyo.

Arimi nomende guthii na-mbere na gukorwo na miti ya mibau niundu wa ngu na mbau no ihandwo kuria kwagiriire, miti ino noithii na-mbere na guteithia utemi wa miti ya ki-nduire. No ona nkuri o uguo, miti ino ndingitaranirio na miti ya TIST.

Niguo kwongerera biodiversity, gitira mugunda waku na uhande miti ya guikara kahinda kanene. Niturahinyiriria arimi kuhanda miti ingi tiga ya mibau.

Miti ingi miega tiga mibau ni iriku?

Miti ino ni imwe ya iria miega icaguritwo ni TIST.

Grevillea Robusta, (Mukima)

Muti uyu uria ukuraga na-ihanya ubataraga kundu gutari maai maingi na utaganu wa 4-5cm na ndurabataraga mbegu guthondekwo mbere ya kuhandwo. Mbegu ciaguo nocigwo gwa kahinda ka mieri 3 kana makiria cingikorwo thiini wa fridge. Miti ino niigitagira tiiri, ciiruru cia kahuwa na macani na niikuranagira wega na irio cia mugunda.

Cypress kana Cupressus lusitanica, (Kikuyu: Mutarakwa; Kmeru: muthithinda)

Muti uyu wonekaga kundu kugunyu kana kumu gutaraikara gutari mbura gwa kahinda ka 2-3 months. Ndukuraga wega maai-ini maingi no niwagiraga kundu kuri na tiiri munoru. Mbegu citibataraga guthondekwo na nocigwo gwa kahinda ka mieri 6. cypress niigitagira tiiri no wagiriirwo kuhandwo muthemba uria muega. Niukoragwo na rugiri, kiiruru na niukuranagira na irio cia mugunda.

Bata wa miti.

Miti nimiega niundu wa maria maturigiciirie na maundu mangi ta;

A) Kwagirithia maria maturigiciirie.

- miti niuhumbagira tiiri, iria imiteithagiriria kumana na ruhuho na maai.
- Mahuti ma miti nimekagira tiiri unoru.
- Miti niyongagirira ugunyu wa tiiri na igatuma tiiri uikare na maai.
- Miri ya miti niinyitaga tiiri na igatuma ndugakuu ni maai.
- Miri ya miti ningi niiteithagia maai kuingira tiiri-ini wega.
- Miti niithondekaga riera
- miti niiteithagia kugucia carbon dioxide kuma rieraini na kurekereria oxygen.

B) Indo cia gwaka na ciakuria.

- Indo cia gwaka iria cihuthikaga hari indo cia nyumba, ikingi, rugiri na ingi nyingi.
- Ngu.
- Dawa.
- Irio cia mahiu.

Kurimira miti yaku riu!

Riu tondu mbura niyurite, niwagiriirwo nigukorwo uhandite mimera yaku mugunda-ini. Angikorwo nduhandite, niwagiriirwo nigwika uguo tondu mimera niyagiriirwo nikuhandwo kahinda gaka ka mbura niguo ikure iri na hinya. Riria twamenyerera mimera iitu riu, niigukorwo namweke wa gukura ituike miti iri na hinya. Kaundu karia ka bata muno kahinda-ini gaka ka mbura ni kurimira miti na gutigirira niithereirwo wega.

Kurimira ni kwa bata!

- Mimera yaku niirabataraga maai, unoru wa tiiri na utheri wa riu niguo ikure iri na hinya. Riia nirigucindana na mimera yaku kuona indo ici na ritume ikure itari na hinya.
- Angikorwo mugunda waku timurimire wega, tutambi tuingi nitukugumira mugunda waku na tuthukie mimera.
- O uria kuri na riia inini, noguo gutangikorwo na nyoka na tutambi tuingi.
- Miti ikuraga na-ihanya tondu riia ritiramitunya unoru na maai kuma tiiri-ini.
- Miti niikugua hinya na iraihe na-iguru gwa kahinda kanini.
- Miti niikinyagirwo ni utheri wa riu muiganu.
- Miti ndinyitagwo ni mirimu muno.
- Miti niigitagira kumana na gutherema kwa mwaki.
- Mugunda mutheru wa miti wonanagia gikundi nikiramenyereza miti yoa wega na gigakorwo kiri kionereria kiega gia TIST. Njira ino niikuguciriria andu anigi kuingira TIST.
- Migunda mitheru niiteithagia atari a miti gutara miti na uhuthu na naihenya.

Niturahinyiriria utherie mugunda waku. Ririkana kugitira mimera kumana na mahiu. Na kungikorwo niguikarite gutari na mbura, ririkana kumiitiriria maai.

Wira mwega niukwonia ngurani na kuhotithia miti gukura iri na hinya na miega.

Mazingira Bora



TIST

The International Small Group & Tree Planting Program
www.tist.org

Kiswahili Version

An Environmental, Sustainable
Development and Community Forestry
Program.



Bwana Gedfrey Ngumo, bibi yake and wafanyikazi wa Cluster ya TIST Josephine Mwangi wakikagua miche ya kikundi chao Ngomo Group, River Dep D, Tist numbari 2005KE504 wakiwa na miche zaidi ya 1,500 ya *Croton Magalocypus* (Mikinduri). Wao wametoka katika cluster ya Ragati karibu Nanyuki. Wao pamoja na kupanda miti katika mashamba yao wanauza miche ya miti. Ukiwa unataka piga simu kwa Gedfrey kwa numbari ya simu 0724 83 65 62.

Ndani:

Sisi ni wenye usahihi , Uaminifu , na wawajibikaji kati ya sisi wenyewe : Vikundi vidogo huchukua jukumu muhimu sana katika mafanikio ya Cluster yako. Uku. 2

Kujengana: Usikose baraka kwa ajili ya Kikundi na cluster yako. Uku. 4

Cluster ya Tandare : Kufuga nyuki kunawezekana kupitia upandaji miti. Uku. 4

Jinsi ya kuendeleza Hatua na Mipango ya utekelezaji. Uku. 5

Miti Bora zaidi kwa TIST : Miti badala ya Mikaratusi. Uku. 6

**Sisi ni wenye usahihi , Uaminifu , na wawajibikaji kati ya sisi wenyewe :Vikundi vidogo huchukua jukumu muhimu sana katika mafanikio ya Cluster yako.**

Tukifanya kazi pamoja katika TIST, sisi tumetimiza mambo makubwa. Leo , kuna zaidi ya cluster mia moja themanini katika Kenya na zaidi ya miti milioni sita na nusu iliyopandwa , iliyo hai na iliyoweza kukaguliwa. Tuna zaidi ya wakulima elfu hamsini na nne , waliopangwa katika Vikundi vidogo karibu elfu saba mia tano vinavyoshiriki. Tulifanikiwa na kusherehekea udhibiti na Ukaguzi wa kwanza duniani chini ya VCS (Verified Carbon Standards) na CCS (Climate and Community Standards), jambo ambalo liliwafanya wakulima wengi wa TIST kufuata kushiriki katika soko la kimataifa la kaboni. Wakati tunafanya kazi pamoja na kufuata Maadili ya TIST , tuna mafanikio makubwa.

Hata hivyo, tunahitaji kufanya zaidi. Cluster zetu nyingi hazijapanda miti yakutosha kufanya biashara ya kaboni yenye faida na endelevu. Kila cluster ina lengo la kupanda miti angalau elfu mia mbili katika miaka mitano . Aidha, cluster zinafaa kuhakikisha kuwa miti yao ipo hai kwa angalau miaka thelathini ili kufaidika kikamilifu na kushiriki katika biashara ya kaboni. Cluster zinazomruhusu mwanachama kukata miti yake yote zinadhuru juhudi za cluster

yote katika kupata faida kutokana na mauzo ya kaboni. TIST inawatia moyo wakulima kupunguza miti yao kwa namna endelevu. Hii itawezesha kila mtu kukidhi mahitaji yao ya kuni au makaa huku ikihakikisha kwamba ushiriki wao katika biashara ya kaboni utabaki dhabiti. Kwa mfano, Kikundi kidogo kinaruhusiwa kuvuna hadi asilimia tano ya miti yao wakati miti ile imefikia umri wa miaka kumi au zaidi.

Cluster yako inahitaji kujadili mipango ambayo itasaidia kufikia malengo yenu ya kupanda miti elfu mia mbili na zaidi. Makala yanayofuata yatawafunza jinsi ya kuendeleza mipango ya hatua za Utekelezaji. Chukueni muda wakati wa mkutano unaofuata wa Cluster wa kuendeleza mpango wa hatua ambao utasaidia kufikia lengo lenu.

Hapa ni taarifa za hivi karibuni kutoka TIST.org / tovuti ya simu inayokuruhusu kuangalia kuhusu Cluster yako mwenyewe na zile za wengine unazohitaji. Katika mikutano yenu ya cluster, Mtumishi wa cluster yenu atakuwa na uwezo wa kutoa habari za hadi sasa kutoka kwenye tovuti , na pia kujibu maswali mengine unaweza kuwa nayo kuhusu miti yako , makundi yako , malipo yako , na kadhalika.

Nanyuki Region

Cluster	Groups	Trees	Last Election	Members	County
Aguthi	27	28471	14 May 2013	191	Nyeri
Burguret	36	39300	17 Jul 2013	257	Nyeri
Buuri	28	9793	18 Jun 2013	181	Meru
Chuma	28	25377	23 Apr 2013	194	Laikipia
Gaturiri	28	33278	14 May 2012	184	Nyeri
Gikati	41	34240	04 May 2013	295	Nyeri
Ichuga	43	127800	29 Aug 2013	285	Nyeri
Itangini	48	66268	30 Aug 2013	318	Nyeri
Kahuho	19	17821	04 Apr 2013	129	Nyeri
Kamangura	38	24162	25 Jan 2013	279	Nyeri
Kamuthanga	15	9042	09 Jul 2013	96	Laikipia
Kangaita	23	30896	14 Jun 2013	142	Meru
Karaba	51	42956	07 Oct 2013	335	Laikipia
Karoki	34	55135	20 Mar 2013	237	Nyeri
Karundas	56	49588	15 Jan 2013	368	Nyeri
Kiahuko	21	12245	01 Apr 2013	147	Laikipia
Kiamariga	41	44763	16 Feb 2013	304	Nyeri
Kiamathaga	36	40385	04 Jun 2013	240	Nyeri
Kimahuri	36	62483	06 Jun 2013	240	Nyeri
Kiriogo	45	12088	09 May 2013	291	Laikipia
Kwajebi	55	32934	19 Sep 2013	377	Laikipia
Mairo Nne	22	7033	19 Sep 2013	162	Nyandarua
Male	51	35452	05 Apr 2013	326	Laikipia
Manyatta	39	67977	11 Jul 2013	271	Nyeri
Matanya	29	19766	03 May 2013	207	Laikipia
Mathingira	28	1209	12 Oct 2013	178	Laikipia
Mbiriri	33	19692	13 Jun 2013	240	Nyeri
Mia Moja	36	29770	16 May 2013	262	Meru
Mithuri	51	22869	04 Oct 2013	349	Laikipia
Muhonia	29	13075	25 Jan 2013	198	Laikipia
Muhotetu	New	0	—	0	Laikipia
Munyu	39	33287	14 Oct 2013	241	Laikipia
Mururu	43	43060	11 Sep 2013	315	Nyeri
Muruku Pesi	50	25109	19 Sep 2013	317	Laikipia

Cluster	Groups	Trees	Last Election	Members	County
Murungai	63	44881	11 May 2013	502	Laikipia
Mutamaiyu	New	0	24 Apr 2013	0	Laikipia
Mweiga	27	21972	06 May 2013	175	Nyeri
Njorua	44	29731	12 Sep 2013	318	Laikipia
Ntrukuma	39	34628	18 Sep 2013	282	Laikipia
Nyakinyua	22	0	—	141	Laikipia
Nyariginu	39	44661	06 Mar 2013	289	Laikipia
Ontilili	43	40899	18 Jan 2013	300	Meru
Pondo	58	79625	20 May 2013	516	Nyandarua
Ragati	28	63857	31 Jul 2013	187	Nyeri
Raichiri Podo	48	40024	17 Sep 2013	350	Nyandarua
Salama	47	26921	09 Sep 2013	303	Laikipia
Sweet Water	22	21591	21 Jun 2013	136	Laikipia
Tandare	54	45978	07 Oct 2013	360	Laikipia
Thome	27	20606	10 May 2013	171	Laikipia
Thung'ari	13	18327	18 Jun 2013	91	Nyeri
Wamura	38	6702	07 Feb 2013	228	Laikipia
Warazo Jet	29	29718	08 Feb 2013	200	Nyeri
Weruini	21	19176	09 Jul 2012	179	Laikipia
Wiumiririe	84	38993	18 Apr 2013	569	Laikipia
Boiman	New	0	—	—	Nyandarua
Kite	4 New	0	24 Jun 2013	12	Laikipia

Cluster	Groups	Trees	Last Election	Members	County
Anchenge	New	0	—	0	Meru
Ankamia	40	39910	10 Jul 2013	248	Meru
Antubochiu	29	21763	20 Sep 2013	176	Meru
Athi	17	12544	02 Oct 2013	63	Meru
Barangu	38	22312	05 Feb 2013	351	T-Nithi
Burimaria	20	16634	01 Jul 2013	121	Meru
Chung'ari	69	44148	14 May 2013	493	Meru
Ciakanyinga	64	33495	09 Sep 2013	447	T-Nithi
Gachua	77	65647	28 Feb 2013	561	Meru



KISWAHILI VERSION

Cluster	Groups	Trees	Last Election	Members	County	Cluster	Groups	Trees	Last Election	Members	County
Gakurungu	12	8008	01 Jul 2013	87	T-Nithi	Miruriiri	24	15124	12 Jul 2013	185	Meru
Gatangine	41	74423	09 Jul 2013	332	Meru	Mitheru	49	66924	13 Jun 2013	409	T-Nithi
Giaki	64	66179	05 Mar 2013	489	Meru	Mitoro	35	15091	25 Jul 2013	166	Meru
Gikumene	92	68814	07 Mar 2013	658	Meru	Mituntu	57	13530	09 Aug 2013	378	Meru
Githongo	43	33754	05 Mar 2013	339	Meru	Mpuri	55	28742	06 Feb 2013	402	Meru
Gitimene	69	90627	03 Sep 2013	539	Meru	Mulathankari	21	16289	—	149	Meru
Igwanjau	70	35888	28 May 2012	494	T-Nithi	Mumbuni	24	10867	26 Apr 2013	159	T-Nithi
Ikindu	13	9932	08 Apr 2013	77	T-Nithi	Muragara	25	16864	04 Jul 2013	216	T-Nithi
ikumbo	18	5813	11 Apr 2012	168	T-Nithi	Murinya	53	67535	05 Aug 2013	378	Meru
Iriga	54	32312	02 May 2013	362	T-Nithi	Mururune	61	46883	08 Jun 2013	420	Meru
Irindiro	21	15126	07 Aug 2013	149	Meru	Muruta	54	19774	07 Feb 2013	367	Meru
Itugururu	13	6622	03 Jul 2013	28	T-Nithi	Muthambi	41	46534	04 Oct 2013	299	T-Nithi
Kaaga	32	39233	—	239	Meru	Mutuati	26	2243	18 Apr 2013	163	Meru
Kaanwa	29	15978	04 Jun 2013	190	T-Nithi	Mwichiune	37	47104	13 Jun 2013	260	Meru
Kagaene	104	94262	01 Oct 2013	685	Meru	Mworoga	77	103551	09 Aug 2013	573	Meru
Kagumo	99	29857	15 Aug 2013	492	T-Nithi	Naari	51	76871	01 Aug 2013	376	Meru
Kairuni	84	74095	08 Jan 2013	665	T-Nithi	Nchiru	75	42430	31 Aug 2013	546	Meru
Kamachege	14	4572	18 Jul 2013	124	Meru	Ngare ndare	27	9500	16 Feb 2013	213	Meru
Kamaroo	26	17715	16 Oct 2013	206	Meru	Ngiine	45	20277	03 Apr 2012	362	Meru
Kambiti	37	33815	12 Jun 2013	276	Meru	Nguruki	29	33964	06 May 2013	262	T-Nithi
Kangeta	26	949	25 Apr 2013	98	Meru	Njuthine	12	7765	—	73	Meru
Kanjagi	39	42042	16 May 2013	285	Meru	Nkando	59	26343	08 Aug 2013	496	Meru
Kanyakine	27	45423	06 Jun 2013	206	Meru	Nkondi	60	11653	01 Jan 2013	413	T-Nithi
Karama	54	10381	09 Aug 2013	434	Meru	Nkumbo	26	20400	02 Oct 2013	209	Th-Nithi
Kariakomo	16	11980	15 Aug 2013	121	T-Nithi	Ntakani	11	5409	09 May 2013	55	Meru
Karima Kambicha	25	24975	15 Aug 2013	200	Meru	Nthangathi	63	71518	22 Feb 2013	507	Meru
Karocho	19	0	19 Jan 2013	114	T-Nithi	Nthare	5	4787	08 May 2013	26	Meru
Karurune	36	31918	28 Feb 2013	262	Meru	Ntugi	75	100739	13 Jun 2013	596	Meru
Katheri	79	63026	02 Jan 2013	629	Meru	Ntumburi	37	46587	12 Jun 2013	343	Meru
Kathwene	19	2779	—	135	Meru	Nyweri	63	65302	14 Nov 2012	486	Meru
Kawiru MCK	63	27727	07 Jun 2013	500	Meru	Ruiga	20	49930	—	168	Meru
Kiambogo	38	3874	14 Jan 2013	237	Meru	Ruii	24	17711	02 Jan 2013	167	Meru
Kiamiogo	60	82265	28 Mar 2013	455	Meru	Runyeny	40	28633	01 Aug 2013	311	Meru
Kiangondu	14	926	06 Apr 2013	14	T-Nithi	Rwanyange	38	19138	19 Mar 2013	282	Meru
Kiangua	37	21758	04 Mar 2013	37	Meru	Sirimon	60	27718	28 Apr 2012	411	Meru
Kianjagi	60	89583	05 Jul 2013	475	T-Nithi	Subuiga	37	60969	13 Jun 2013	346	Meru
Kibirichia	61	63892	01 Aug 2013	509	Meru	Tharu	45	6999	11 Feb 2013	311	Meru
Kibui	50	27354	11 Apr 2012	393	Meru	Thiira	37	20475	01 Aug 2013	343	Meru
Kibuline	35	19762	08 Oct 2013	253	Meru	Thuura	50	66915	20 Aug 2013	363	Meru
Kiegoi	15	6703	22 Feb 2013	104	Meru	Tubui	19	12925	—	159	T-Nithi
Kiengu	16	11053	04 Jun 2013	126	Meru	Tunyai	36	26925	05 Feb 2013	289	T-Nithi
Kigucwa	72	107520	04 Oct 2013	568	Meru	Urru	21	15663	28 Dec 2012	163	Meru
Kiirua	101	85055	30 Aug 2013	710	Meru	Mara / Mau Region					
Kinoro	53	23677	06 Jul 2013	461	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kiraro	12	1889	16 May 2013	78	T-Nithi	Chemaner	40	7324	11 Mar 2013	245	Bomet
Kiria	63	37201	13 Nov 2013	504	Meru	Cheptuech	6	0	07 Nov 2012	32	Nakuru
Kirimaitume	28	32246	13 Mar 2013	182	Meru	Chesoan	3	0	06 Nov 2012	13	Nakuru
Kirindini	43	47709	10 Jul 2013	283	Tharaka	Irongo	5	0	09 Nov 2012	10	Nakuru
Kirubia	48	26026	09 Aug 2013	258	Tharaka	Kapugunot	6	0	08 Nov 2012	26	Nakuru
Kisima	37	104190	17 May 2013	359	Meru	Kutete	27	9809	12 Mar 2013	184	Narok
Kitheo	57	41573	14 Aug 2013	398	Meru	Mbeere/ Kirinyaga Region					
Kithithina	57	31624	30 Jun 2012	407	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kithoka	66	57143	05 Mar 2012	491	Meru	Kamwiyendei	29	8048	26 Aug 2013	188	Embu
Kithurine	60	19654	03 Jun 2013	513	Meru	Kanjuu	33	7732	13 Jul 2013	282	Kirinyaga
Limauro	52	28532	02 Aug 2013	389	Meru	Karaba-Mbeere	18	2043	27 Sep 2013	97	Embu
Limoro	82	17101	07 Jun 2013	491	Meru	Karumande	56	5004	05 Sep 2013	535	Kirinyaga
L. Imenti Forest	12	205	—	99	Meru	Kianyaga	33	20409	03 Jun 2013	281	Kirinyaga
Magutuni	25	14936	11 Jul 2013	184	T-Nithi	Kilia	18	4178	28 Aug 2013	137	Embu
Marimati	9	0	—	61	Meru	Kilea	34	10217	—	325	Kirinyaga
Maritati	25	55530	—	262	Meru	Mwea	34	10217	—	325	Kirinyaga
Matakiri	62	6774	01 Jan 2013	403	Meru	Ngariama	51	16545	07 Feb 2013	451	Kirinyaga
Maua	38	9247	05 Jul 2013	22	Meru	Njukiini	40	17499	05 Aug 2013	317	Kirinyaga
Mbajone	32	57144	12 Sep 2013	203	Meru	Nthingini	37	9415	27 Aug 2013	255	Embu
Miathene	89	110977	07 Jun 2013	559	Meru	Come and see Areas					
Mikunduri	60	57229	05 Sep 2013	433	Meru	1. Taita/Taveta County					
						2. Nyamira County					
						3. Transzoia County					
						4. Machakos County					



Kujengana: Usikose baraka kwa ajili ya Kikundi na cluster yako.

Kujengana ni sehemu muhimu sana ya mikutano yenu ya vikundi vidogo ya kila wiki. Katika Waefeso 4:15,16 inasema kwamba tunafaa Kujengana hadi ukamilifu wa Kristo . Kila mtu katika kikundi kidogo chako cha TIST huleta vipaji na vipawa vyake mwenyewe katika kundi zima. Jambo moja la kuajabisha ambalo hutokea katika kikundi ni kule kutambua , kuchangia na kutumia vipaji hivyo mlivyopewa na Mungu .

Kujengana ni njia ya kufanya vipaji na vipawa hivyo vionekane na vitumike. Kuna sehemu mbili katika kujengana:

- Kabla ya sala ya kufunga kikao, kila mtu katika kikundi hutaja kitu kimoja maalum cha kujenga ambacho mwezeshaji alikifanya wakati wa mkutano huo. Kwa mfano, alitabasamu, alitunza muda, alitengeneza mipango mizuri, aliwahasisha wanakikundi kutoa mawazo, alinisalimu na kunifanya nijisikie vizuri, alitaja kitu kilichokuwa kikiendelea vizuri sana katika kikao, au katika kazi kikundi kilichokuwa kikifanya , na kadhalika. Kila mwanachama anahitaji kusema kitu tofauti. Hii si hiari. Kila mmoja anamjenga mwezeshaji. Baadhi ya makundi pia hutoa Kujengana kwa kiongozi mwenza .
- Aidha , kama mtu ameona kipawa katika mwezeshaji, mwanakikundi pia anaweza kukitaja.

Katika uwezeshaji au uongozi wa mzunguko , kila juma mwezeshaji mpya atapata kujengwa. Kupitia Kujengana , sisi hutia moyo kila mmoja katika mambo mazuri ambayo kiongozi wa wiki alifanya katika kikao na vipaji alivyoonyesha.

Kujengana pia ni njia tunayotumia kujifunza kuona mambo mazuri kuhusu watu na kisha kuyasema. Sisi wote tuna haja kufunza ndimi zetu kusema mambo mazuri. Aidha, kikundi kizima hujifunza nini kikundi hicho kinachukuwa ikiwa muhimu katika mwezeshaji . Viongozi wajao watafaidika kutokana na walichokisikia katika Kujengana kuhusu wawezeshaji waliopita na kujua nini kikundi ufikiri ni muhimu katika kiongozi mtumishi.

Baada ya taarifa ya kila mwanachama wa kundi iliyo maalum na nzuri, Kiongozi husema, “Asante”. Hakuna mjadala kuhusu jinsi gani kungekuwa bora, au tofauti. Mara nyingi, mtu hufurahia anapoambiwa mambo mema kuhusu alivyofanya wakati wa mkutano. Wakati mwingine sisi hujifunza mambo kuhusu sisi wenyewe ambayo hatukujua !

Kujengana humsaidia mwezeshaji siku hiyo kutambua vipaji vyake na kuendelea kuvitumia . Kujengana pia husaidia kikundi kidogo kwa sababu wanakikundi wote huboresha uongozi wao jinsi wanavyojifunza . Kujengana ni baraka mara mbili!

Cluster ya Tandare : Kufuga nyuki kunawezekana kupitia upandaji miti.

Wanachama wa cluster ya Tandare sasa wameanza mradi wa ufugaji wa nyuki. Wamejenga moja mahali pa kuwafuga palipo na mizinga kumi na nini ya kiasili na kumi na mbili ya kisasa. Cluster ya Tandare itaweza kuzalisha idadi kubwa ya asali hivi karibuni. Tunamshukuru kiongozi wetu Joseph Mukungo .Tunazidi kuongeza nguvu. TIST naiishi kwa muda mrefu.





Jinsi ya kuendeleza Hatua na Mipango ya utekelezaji.

Vikundi na cluster za TIST hutenda vitendo vingi: Upandaji miti na kuboresha njia za kilimo. Kunapokuwa na kazi nyingi ya kufanyika, ni vizuri kuunda **hatua** za utekelezaji. Kila mwanakikundi lazima aseme kwenye kikundi nini atafanya wiki hiyo. Tutawafunza, Kikundi chako kidogo na cluster yako jinsi ya kufanya upandaji wa utekelezaji wa kitendo.

Tafadhali jifunze pamoja wanachama wengine wa cluster yako wakati wa mkutano wako.

Hatua ya utekelezaji ni kitu ambacho ni :

- Mahsusi
- Kinaonekana
- Kinachoweza kupimika
- Kina mwanzo na mwisho
- Hakikisha hatua yako ya utekelezaji ni ya kweli unaweza unayoweza kufikia!

Kwa mfano, kusema ‘Nitapanda miti’ sio hatua ya utekelezaji kwa sababu iko jumla sana. “Nitafanya kazi siku tatu asubuhi wiki hii kupandikiza miche sabini na tano katika shamba letu jipya” ni hatua ya utekelezaji kwa sababu ni maalum (kupandikiza miche sabini na tano), inaonekana (watu wanaweza kuona ukifanya) inapimika (miche sabini na tano, asubuhi tatu) na ina mwanzo na mwisho (mwisho wa siku tatu unaweza kuona matokeo).

Wakati cluster yako itakutana tena, mruhusu dakika kumi karibu na mwisho wa mkutano wa kikundi kidogo ili kila mtu aweze kutoa taarifa kuhusu hatua yake ya utekelezaji. Kila mtu kwa haraka :

- (1) **Aeleza kikundi hatua yake ya utekelezaji ya wiki iliyopita.**
- (2) **Aseme alichofanya kwa ukweli.**
- (3) **Aeleze hatua ya utekelezaji ya wiki inayofuata.**

Kama mtu alifanikiwa katika hatua yake ya utekelezaji, kundi lisherehekee mafanikio. Kama, kama mara nyingi inavyotokea, mwanakikundi alikuweza kufanya sehemu tu ya lengo lake, kundi linamhimiza na halimkosoi au kumpa lawama. Wakati watu wana uwezo wa kuongea kwa uhuru kuhusu mafanikio yao na kushindwa kwao watakuwa na moyo wa kufanya vizuri zaidi kila wiki. Hamasisha wanakikundi / wanachama wa cluster yako kufikiria hatua wanazoweza kuchukua. Hakikisha kila mojawapo ni maalumu, inapimika na yaweza

kufanyika! Ongeeni na msherehekee hatua za utekelezaji ambazo kikundi au cluster yenu imeweza kukamilisha.

Hatua za Utekelezaji katika Mipango ya utekelezaji.

Mbinu sawa inaweza kutumika wakati wa kupanga. Hapa, mfano umetolewa katika mabano. Wakati kundi lako linapanga cha kufanya, hakikisha mipango yenu ni:

Maalum (cluster yetu itapanda miti elfu hamsini katika mashamba yetu kabla ya Desemba tarehe ishirini)

Inayopimika (mingapi -? Miti elfu hamsini itapandwa)

Inayoweza kufikiwa / Ya Kweli (Kila Kikundi kidogo cha TIST katika cluster yetu kinaweza kupanda miti elfu moja katika wiki tano - miti mia moja kila Jumanne na Alhamisi, miti kumi kwa kila mtu / kwa siku)

Imefungwa kiwakati (ina mwanzo na mwisho - sisi kupanda miti kati ya Novemba kumi na tano - Desemba ishirini)

Inaonekana

SMARTO

Huu ni mwongozo na mtihani wa hatua zako zampango wako wa utekelezaji na inakusaidia kuwa maalum :

- 1) **Nini** - (Upandaji wa miti elfu hamsini)
- 2) **Nani** - (Wanavikundi vya TIST kwa majina)
- 3) **Wakati** - (Novemba 15 - Desemba 20)
- 4) **Pale** - (katika mashamba yetu)
- 5) **Jinsi** - (Sisi kukutana kila alasiri ya Jumanne na Alhamisi baada ya joto ya siku na kuchimba mashimo, kisha kupanda miti)
- 6) **Kwa nini** - (Ili kuboresha mashamba yetu, kupata kuni zaidi, kusafisha mazingira yetu na kupata fedha zaidi kutokana na biashara ya kaboni)

Sasa, jaribu kufanya mazoezi ya hatua za mipango katika mkutano wako kikundi kidogo na mkutano cluster ujao.



Miti Bora zaidi kwa TIST : Miti badala ya Mikaratusi.

Wanamazingira wengi wana wasiwasi juu ya athari za mikaratusi kwa mazingira. Hoja dhidi ya mikaratusi ni ngumu kwa sababu kuna aina mbalimbali za mikaratusi .Wanasayansi haawna uuhakika kuhusu baadhi ya ushahidi. Hata hivyo, hapa ni baadhi ya hoja dhidi ya kupanda mikaratusi ambazo mwanamazingira wengi wanaamini :

- Miti hii inaweza kukausha ardhi na kuchukua maji mengi kutoka ardhini.
- Miti hii inaweza kutumia madini mengi yaliyo katika udongo na kuifanya ardhi kutofaa kwa kilimo.
- Majani hayaozi kwa urahisi na hata hupunguza vidudu vidogo vyenye manufaa katika udongo.
- Baadhi ya aina za mimea na wanyama haziwezi kuishi katika shamba la mikaratusi.

Hata kama si kila mtu anakubaliana na mengi wa masuala haya, kuna ushahidi wa kutosha na wasiwasi juu ya suala hili na TIST inahitajika kusikiliza kwa makini. Baadhi ya vikundi vidogo nchini Uganda wamepeana maoni kwamba walkuwa na kiwango cha maji kilishuka tangu upandaji wa mikaratusi. TIST ingewashauri wakulima wote wasipande mikaratusi katika maeneo oevu , pamoja na kando ya mito au juu ya ardhi yenye uzalishaji wa kilimo. Hata hivyo, kuna ardhi inayofaa mikaratusi na mchunga msitu wako anaweza kukushauri .

Kuna sababu ya pili ya TIST kutotia nguvu upandaji wa mikaratusi. Wakulima wengi watawuna mbaao zao katika chini ya miaka ishirini na TIST haitaweza kuuza kaboni isipokuwa miti iwe hai angalau miaka thelathini kwani ni miti iliyo hai huhitimu. Kama TIST inalipa motisha kwa ajili ya miti ambayo itakatwa katika chini ya miaka thelathini , kutakuwa na fedha kidogo kwa ajili ya vikundi vya watu ambao wamepanda na uaminifu iimarishwe miti ya muda mrefu.

Wakulima bado wanaweza taka kuwa na mashamba ya mikaratusi yanayolimwa hasa kwa ajili ya kuni na mbaao. Mashamba haya yakiwa katika maeneo yanayofaa , wanaweza kusaidia kupunguza shinikizo juu ya misitu ya kiasili. Hata hivyo , mashamba yaliyolimwa miti kwa ajili ya mavuno ya mapema hayapaswi kuhesabiwa kwa ajili ya mpango wa TIST.

Kuongeza viumbe hai, kulinda nchi yako na kuhimiza miti ya muda mrefu ambayo itafuzu kupata malipo ya kaboni. Sisi tunahimiza vikundi kulima miti mingine badala ya mikaratusi.

Je, ni miti ipi iliyo bora kupanda badala ya mikaratusi?

Miti zifuatazo ni baadhi ya mapendekezo kutoka wakufunzi wa TIST katika Kenya:

Grevillea robusta , pia unajulikana kama Silky oak (katika Kikuyu huitwa mukima) .

Mti huu hukua kwa haraka na uhitaji udongo unaopoteza maji kwa haraka, nafasi kati ya miti iwe mita nne au tano, na hakuna matibabu kabla yanahitajika. Mbegu zaweza kuhifadhiwa kwa hadi miezi mitatu au zaidi inapowekwa kwenye friji. Miti hii huhifadhiwa na udongo , kivuli kwa ajili ya chai na kahawa, na mimea hukua vizuri ikipandwa pamoja na vyakula inaposimamiwa vizuri hupunguza kivuli na ni chanzo muhimu cha lishe wakati wa kiangazi.

Cypress au Cupressus lusitanica , (Kikuyu : mutarakwa ; Kimeru : muthithinda)

Mti huu hupatikana katika maeneo yenye misimu yenye unyevu na hali ya kudumu ya unyevu na msimu wa kiangazi unaodumu miezi isiyozidi miwili au mitatu. Haiwezi kuhimili mafuriko lakini hukua katika udongo wenye kina kirefu , unyevu, pamoja na udongo wenye rutuba wenye asidi kidogo au usiokuwa nayo . Matibabu ya kabla ya mbegu sio lazima na mbegu zaweza kuhifadhiwa hadi miezi sita. Mti huu inatoa ulinzi mdogo dhidi ya mmomonyoko wa udongo na unapaswa kupandwa pamoja na aina nyingine za miti. Ingawa inazuia upepo , na kutupa kivuli na uzio hai , siyo mzuri kwa ajili ya mseto .

Umuhimu wa Miti

Miti ni muhimu sana kwa sababu za kimazingira na nyenzo kama vile:

- A) Uboreshaji wa Mazingira -
 - Miti hufunika udongo , jambo ambalo huulinda kutokana na mmomonyoko wa udongo kupitia upepo na maji.
 - Majani na matawi huanguka chini na kuongeza virutubisho kwenye udongo .
 - Miti huongeza unyevu katika udongo kwa kufunika udongo na hivyo kupunguza kupotea kwa maji.
 - Mizizi ya miti inasaidia kushikanisha udongo na hivyo kupunguza mmomonyoko wa udongo.
 - Mizizi ya miti pia inasaidia maji kuingia udongoni na kuboresha mzunguko wa maji ardhini .
 - Miti kuboresha hali ya hewa ya kila siku na kuongeza kiasi cha mvuke wa maji katika hewa (kuongeza unyevu).
 - Miti hukoresha hewa kwa kufyonza kaboni na kutoa oksijeni.
- B) Nyenzo na thamani ya lishe -
 - Vifaa vya ujenzi vinavyotumika kwa ajili ya kufanya samani, ua , kamba , na kadhalika
 - Kuni
 - Dawa
 - Chakula na lishe

Palilia miti yako sasa!

Sasa kwa kuwa mvua imeanza unapaswa kuwa ushapandikiza miche yako shambani mwako . Kama bado kuyafanya haya , unahitaji kufanya hivyo sasa kwa sababu miche inahitaji kupandikizwa ili iweze kukua kinguvu katika msimu wa mvua ili kuweza kuishi wakati wa miezi kame. Kwa kuichunga miche yetu sasa, ina nafasi bora zaidi ya kuishi na kuwa na nguvu. Shughuli muhimu zaidi wakati wa msimu wa mvua ni kupalilia miche yako katika mashamba yako. Weka mazingira ya miche yako safi kama iwezekanavyo na hutoe magugu yoyote yanayomea karibu miche yako.

Kupalilia ni muhimu !

- Miche yako inahitaji maji, virutubisho na mwangaza ili kukua. Magugu yatashindana ili kupata virutubisho vilivyo katika udongo na maji ambayo miche yako inahitaji , na kuifanya kuwa dhaifu na kushindwa kuishi.
- Kama eneo lako halijapaliliwa , wadudu zaidi wavutwa eneo hilo na kuharibu au kuua miche yako.
- Jinsi magugu yalivyo machache ndivyo kuna nafasi ndogo ya nyoka na wadudu.
- Miti hukua haraka kwa sababu magugu hayaibi virutubisho na maji kutoka kwenye udongo.
- Miti itakuwa imara na itarefuka kwa kipindi kifupi .
- Miti itapata mwanga inayohitaji bila kuzuiwa.
- Miti haipo wazi kwa magonjwa mengi.
- Miti inakuwa imelindwa kutokana nakuenea kwa moto.
- Mashamba safi yanaonyesha kwamba makundi yote yanayalinda na ni mifano mizuri katika mpango wa TIST. Hili litawavutia watu wengi kuja na kuona kazi yenu.
- Mashamba safi yanasaidia wahesabu miti kuhesabu miti kwa haraka na kwa usahihi. Tunawahimiza kupalilia mashamba yenu. Kumbuka kulinda miche ili wanyama , kama mbuzi , wasije wakaila au kuikanyaga . Fikiria kujenga uzio au uzungushe miti ya miiba , na kama mna siku sizizo na mvua , kumbuka kuwekea miche maji.

Kazi ya bidii italeti tofauti kwa kuifanya miti yako kuwa na nguvu na afya njema .

Mazingira Bora



TIST

The International Small Group & Tree Planting Program
www.tist.org

Kikamba Version

An Environmental, Sustainable
Development and Community Forestry
Program.



Mr. Godfrey Ngumo, his wife and TIST Cluster Servant, Josephine Mwangi inspecting their Small Group Nursery. Ngumo's group, River Dep D, TIST Number 2005KE504 has close to 1,500 Croton Megalocopus (Mikinduri) seedlings. They belong to Ragati Cluster near Nanyuki Town. This group, besides planting more trees in their own private farms, will be selling some of their seedlings. If you are interested to buy, contact Godfrey on 0724 83 65 62

Inside:

Twina uw'o, Ukiiku na Nitutonya kumya utalo: tukundi tunini kuthauka kilioni kinene undu wa useo wa ngwatanio yaku (cluster). Page 2

Kwakana: Ndukakose uathimo wa kakundi kaku kanini na ngwatanio yaku. Page 4

Ngwatanio ya Tandare: Kuithya nzuki kutonyeka kwisila kwa uvandi wa miti. Page 4

Undu wa useuvia matambya ma kwika na mawalany'o. Page 5

Miti miseo kwa TIST: Vandu va musanduku (Eucalyptus). Page 6



KIKAMBA VERSION

3

Cluster	Groups	Trees	Last Election	Members	County	Cluster	Groups	Trees	Last Election	Members	County
Gakurungu	12	8008	01 Jul 2013	87	T-Nithi	Miruriiri	24	15124	12 Jul 2013	185	Meru
Gatangine	41	74423	09 Jul 2013	332	Meru	Mitheru	49	66924	13 Jun 2013	409	T-Nithi
Giaki	64	66179	05 Mar 2013	489	Meru	Mitoro	35	15091	25 Jul 2013	166	Meru
Gikumene	92	68814	07 Mar 2013	658	Meru	Mituntu	57	13530	09 Aug 2013	378	Meru
Githongo	43	33754	05 Mar 2013	339	Meru	Mpuri	55	28742	06 Feb 2013	402	Meru
Gitimene	69	90627	03 Sep 2013	539	Meru	Mulathankari	21	16289	—	149	Meru
Igwanjau	70	35888	28 May 2012	494	T-Nithi	Mumbuni	24	10867	26 Apr 2013	159	T-Nithi
Ikindu	13	9932	08 Apr 2013	77	T-Nithi	Muragara	25	16864	04 Jul 2013	216	T-Nithi
ikumbo	18	5813	11 Apr 2012	168	T-Nithi	Murinya	53	67535	05 Aug 2013	378	Meru
Iriga	54	32312	02 May 2013	362	T-Nithi	Mururune	61	46883	08 Jun 2013	420	Meru
Irindiro	21	15126	07 Aug 2013	149	Meru	Muruta	54	19774	07 Feb 2013	367	Meru
Itugururu	13	6622	03 Jul 2013	28	T-Nithi	Muthambi	41	46534	04 Oct 2013	299	T-Nithi
Kaaga	32	39233	—	239	Meru	Mutuati	26	2243	18 Apr 2013	163	Meru
Kaanwa	29	15978	04 Jun 2013	190	T-Nithi	Mwichiune	37	47104	13 Jun 2013	260	Meru
Kagaene	104	94262	01 Oct 2013	685	Meru	Mworoga	77	103551	09 Aug 2013	573	Meru
Kagaene	99	29857	15 Aug 2013	492	T-Nithi	Naari	51	76871	01 Aug 2013	376	Meru
Kagumo	84	74095	08 Jan 2013	665	T-Nithi	Nchiru	75	42430	31 Aug 2013	546	Meru
Kamachege	14	4572	18 Jul 2013	124	Meru	Ngare ndare	27	9500	16 Feb 2013	213	Meru
Kamaroo	26	17715	16 Oct 2013	206	Meru	Ngiine	45	20277	03 Apr 2012	362	Meru
Kambiti	37	33815	12 Jun 2013	276	Meru	Nguruki	29	33964	06 May 2013	262	T-Nithi
Kangeta	26	949	25 Apr 2013	98	Meru	Njuthine	12	7765	—	73	Meru
Kanjagi	39	42042	16 May 2013	285	Meru	Nkando	59	26343	08 Aug 2013	496	Meru
Kanyakine	27	45423	06 Jun 2013	206	Meru	Nkondi	60	11653	01 Jan 2013	413	T-Nithi
Karama	54	10381	09 Aug 2013	434	Meru	Nkumbo	26	20400	02 Oct 2013	209	Th-Nithi
Kariakomo	16	11980	15 Aug 2013	121	T-Nithi	Ntakani	11	5409	09 May 2013	55	Meru
Karima Kambicha	25	24975	15 Aug 2013	200	Meru	Nthangathi	63	71518	22 Feb 2013	507	Meru
Karocho	19	0	19 Jan 2013	114	T-Nithi	Nthare	5	4787	08 May 2013	26	Meru
Karurune	36	31918	28 Feb 2013	262	Meru	Ntugi	75	100739	13 Jun 2013	596	Meru
Katheri	79	63026	02 Jan 2013	629	Meru	Ntumburi	37	46587	12 Jun 2013	343	Meru
Kathwene	19	2779	—	135	Meru	Nyweri	63	65302	14 Nov 2012	486	Meru
Kawiru MCK	63	27727	07 Jun 2013	500	Meru	Ruiga	20	49930	—	168	Meru
Kiambogo	38	3874	14 Jan 2013	237	Meru	Ruii	24	17711	02 Jan 2013	167	Meru
Kiamiogo	60	82265	28 Mar 2013	455	Meru	Runyeny	40	28633	01 Aug 2013	311	Meru
Kiangondu	14	926	06 Apr 2013	14	T-Nithi	Rwanyange	38	19138	19 Mar 2013	282	Meru
Kiangua	37	21758	04 Mar 2013	37	Meru	Sirimon	60	27718	28 Apr 2012	411	Meru
Kianjagi	60	89583	05 Jul 2013	475	T-Nithi	Subuiga	37	60969	13 Jun 2013	346	Meru
Kibirichia	61	63892	01 Aug 2013	509	Meru	Tharu	45	6999	11 Feb 2013	311	Meru
Kibui	50	27354	11 Apr 2012	393	Meru	Thiira	37	20475	01 Aug 2013	343	Meru
Kibuline	35	19762	08 Oct 2013	253	Meru	Thuura	50	66915	20 Aug 2013	363	Meru
Kiegoi	15	6703	22 Feb 2013	104	Meru	Tubui	19	12925	—	159	T-Nithi
Kiengu	16	11053	04 Jun 2013	126	Meru	Tunyai	36	26925	05 Feb 2013	289	T-Nithi
Kigucwa	72	107520	04 Oct 2013	568	Meru	Urru	21	15663	28 Dec 2012	163	Meru
Kiirua	101	85055	30 Aug 2013	710	Meru	Mara / Mau Region					
Kinoro	53	23677	06 Jul 2013	461	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kiraro	12	1889	16 May 2013	78	T-Nithi	Chemaner	40	7324	11 Mar 2013	245	Bomet
Kiria	63	37201	13 Nov 2013	504	Meru	Cheptuech	6	0	07 Nov 2012	32	Nakuru
Kirimaitume	28	32246	13 Mar 2013	182	Meru	Chesoan	3	0	06 Nov 2012	13	Nakuru
Kirindini	43	47709	10 Jul 2013	283	Tharaka	Irongo	5	0	09 Nov 2012	10	Nakuru
Kirubia	48	26026	09 Aug 2013	258	Tharaka	Kapugunot	6	0	08 Nov 2012	26	Nakuru
Kisima	37	104190	17 May 2013	359	Meru	Kutete	27	9809	12 Mar 2013	184	Narok
Kitheo	57	41573	14 Aug 2013	398	Meru	Mbeere/ Kirinyaga Region					
Kithithina	57	31624	30 Jun 2012	407	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kithoka	66	57143	05 Mar 2012	491	Meru	Kamwiyendei	29	8048	26 Aug 2013	188	Embu
Kithurine	60	19654	03 Jun 2013	513	Meru	Kanjuu	33	7732	13 Jul 2013	282	Kirinyaga
Limauro	52	28532	02 Aug 2013	389	Meru	Karaba-Mbeere	18	2043	27 Sep 2013	97	Embu
Limoro	82	17101	07 Jun 2013	491	Meru	Karumande	56	5004	05 Sep 2013	535	Kirinyaga
L. Imenti Forest	12	205	—	99	Meru	Kianyaga	33	20409	03 Jun 2013	281	Kirinyaga
Magutuni	25	14936	11 Jul 2013	184	T-Nithi	Kilia	18	4178	28 Aug 2013	137	Embu
Marimati	9	0	—	61	Meru	Kiwea	34	10217	—	325	Kirinyaga
Maritati	25	55530	—	262	Meru	Ngariama	51	16545	07 Feb 2013	451	Kirinyaga
Matakiri	62	6774	01 Jan 2013	403	Meru	Njukiini	40	17499	05 Aug 2013	317	Kirinyaga
Maua	38	9247	05 Jul 2013	22	Meru	Nthingini	37	9415	27 Aug 2013	255	Embu
Mbajone	32	57144	12 Sep 2013	203	Meru	Come and see Areas					
Miathene	89	110977	07 Jun 2013	559	Meru	1. Taita/Taveta County					
Mikunduri	60	57229	05 Sep 2013	433	Meru	2. Nyamira County					
						3. Transzoia County					
						4. Machakos County					



Kwakana: Ndukakose uathimo wa kakundi kaku kanini na ngwatanio yaku.

Kwakana nikwavata muno yila mwakomana wumbanoni wa kakundi kenyu kila kyumwa. Mbivilia

yaasyaa uu nthini wa **Aeveso 4:15,16**: Nitwaile kwanana ithyi kwa uima wa mwii wa Kristo. kila umwe nthini wa kakundi kenyu katist niwaile ute kinengo kyake na muthinzio wake . kindu kimwe kithiawa nthini wa tukundi tunini nikana nimwakanaa yila mundu ukutavya vala ulumu kana muthinzio wake ui nundu yila mwivamwe kila umwe niwonanasya kita utonya muno.

Kwakana ninzia imwe ya kutuma amwe matesi inengo syoo na mithinzio yoo mamimanya nundu niyonekaa na kutumika. kwi nzia ili sya kwakana:-

- Mbee wa mboya sya kuinga wumbano, kila umwe niwaile uneena undu wa kwaka ula eitongoesye wumbano muthenya usu. Ngelekany'o Kukeny'a, kwia masaa, kwia walany'o museo, kuthuthany'a uthuthanisyee, kuukethya, kuuthokya, aka mutongosya wenyu kwa undu museo wikie muendee na wumbano na lilkana kila umwe niwaile uneena undu. Tukundi tumwe nitunengae ula ei munini wa mutongosya uthuthio/wako kwa undu wikie museo.
- Kwa kwongeleela ethiwa mundu niwoona muthinzio wina mundu niwaile uweta vandu va kuvindisya.

Nundu wa utongoi wa kumanisya/kithyululu kila kyumwa kwithiwa na mutongoi mweu nikutumaa kila umwe akwa nundu nituthuthanasya vala kila ula eitongoetye muthenya usu wolootelawa useo wake na kuthuthw'a iulu wa mithinziop yake na kinengo kila woonany'a.

Kwakana ni nzia imwe itumaa twikala tumanyite useo wa mundu umwe kuthi ula ungi na kwimanyisya kuiweta mevo. ithyoothe nitwaile kumanyisya makanyw'a na nimi situ kuneena useo wa mundu.

kwongeleela ni kana kila umwe kakundini kau numanyaa kila kyaile nthini wa mutongoi na kila kiseo kwa utongoi.

Itina wa ndeto sya kwakana iulu wa mutongoi usu niwaile kusungia kwa kwasya nimuvea kwa kila umwe amina kuneena undu wa kwaka.Vayaile ithiwa na uneenany'a wa undu mundu eale ika nikana withwe useo mbee nundu mundu niwonzaw'a kwa konw'a mavityo itina wa kukathiiwa. Niuseo kwakana kwa kuneena useo w'oka na ndukaneenaniw'e. kaingi nitumanyaa maundu meu iulu witu kwa kutavwa.

Kwakana nikutumaa mutongoi wa muthenya usu amanya kinengo kyake na kukitumia. Ingi kwakana nikutumaa kakundi kenyi keana na kwongeleka nundu kila umwe nuetae kinengo na muthinzio wake kyenini yila watongosya muthenya usu. Ingi nitumanyianasya kwa nzia ino ya kwakana. Kwakana ni uathimo keli.

Ngwatanio ya Tandare: Kuithya nzuki kutonyeka kwisila kwa uvandi wa miti.

Ene ma ngwatanio ya Tandare yu nimambiite wia wa kuithya Nzuki. Kwayu mena myatu isioni kundu 14 kila kimwe kina myatu ikumi na ili (12) ya kimuthi. Ngwatanio ya tandare nikutonya kitwa uki wa nzuki mwingi itina wa ivinda yiteyiasa. Twina utanu na muvea kwa mutongoi witu Joseph Mukungo. Nituendee na kwiana na vinya. Tist Yikale tene na tene.





Undu wa useuvia matambya ma kwika na mawalany'o.

Ikundi na ngwatanio mbingi sya Tist nisyikaa maundu vamwe ta uvandi wa miti na kwimayisya nzia nzau sya ndilikasa. Yila vena wia mwingi wa kwika nuseo kuseuvia matambya makuatiia yila mukwika. Kila umwe wa kikundi niwaile utavya kikundi kila meuvikia kyumwa kiiu. Nituukumanyisya we, kakundi kaku na ngwatanio yaku undu wa kwika kuvanga matambya wa kwika.

Kwandaia manyiany'ai vamwe yila mwiwumbanoni.

Matambya ma kuatiia ni:-

- Methiawa na kieleelo
- Nimatonya kwoneka
- Nomathimwe
- Nimethiawa na mwambiio na muthya
- Ikiithya itambya yesu niyikueleeka na nanoyivikiwe

Kwa ngelekeny'o, kwasya "ninguvanda miti" yii ti itambya ya kwika nundu ndwikiite walany'o. "Ninguthukuma makwakya atatu kyumwa kii kuvanda miti 75 kuma kivuioni" uu ni wiko wina walany'o nundu ninenganite itambya, yina kieleelo, nitonya kwoneka, noithimike (miti 75 mithenya 3) na yina mwambiio na mwisu (itina wa mithenya itatu ya kyumwa nukumina wia usu).

Yila ngwatanio yenyu ikwithiwa na wumbano ingi ikiithya nimwoosa ndatika nini sya muthya kila memba kwonany'a wiko wa matambya make.

1. **Kutavya kikundi kila kyai walanyo wa kiko kyake kya kyumwa kivotu.**
2. **Kuweta undu kwaw'o wikite.**
3. **Weta undu uvangite kwika kyumwa kiu kiatie.**

Ethiwa mundu niwavikiie kieleelo kyake, kikundi kikamutania. Ethiwa ve umwe wikite nusu ya kieleelo kyake kikundi kikamuthuthia indi ti kumutula muti na kumutulya. Ethiwa andu nimatonya kwithiwa matonya kwiyielesya vate wiaulu wa kuendee kwoo kwana kuvaluka kwoo ni useo kumathuthya kwika nesa kila kyumwa. Thuthya kila umwe wenyu nthini wa kikundi kyenyu kwithiwa atonya

kwithiwa na itambya ya kwika na kumanya nivatonyeka. lilikana kana kila wiko waile ithiwa utonya kuthimwa na ueleeka tananiai yila umwe wavikia kieleelo kya wiko wake.

Itambya ya wiko na walany'o /kieleelo kya kiko.

Nzia ino ni utumika kwikia walany'o. ngelekany'o, yila kikundi kyenyu kikwia mawalany'o ikiithya kana

Ithiwa na kilamukwenda (ta nituuvanda miti 50,000 kuvikia matuku 20 Dec. 2013)
Kithimo (Ni yiana 50,000)

Niivikiika/ Ni undu utonyeka (Kila kakundi no kuvande miti 1,000 kwa sumwa 5 - miti 100 kila wakana na wakeli miti ikumi kila memba kwa muthenya)

Ivinda yiana ata (mukambiia indi na mukamina indii (Nov. 15 - 20 Dec)

Kwoneka

SMARTO!

Uuniwo mutonya kwika kusisya kana itambya yenyu, kielelo na mivango yenyu niyindete nesa

- 1) **Kyau?** (Kuvanda miti 50,000)
- 2) **Uu?** (Tukundi twa tists na amemba kwa masyitwa)
- 3) **Indii?** (Nov. 15 - Dec 20)
- 4) **Va?** (Miundani yitu)
- 5) **Ata?** (Kukomana kila wakana na wakeli iyawiyoo kwisa maima na kuvanda miti)
- 6) **Niki?** (twailangye miunda yiotu, tukwate ngu mbingi, tuthesye mawithyululuko na tuikwata mbesa mbingi kuma kwa viasala wa nzeve itavisaa) (carbon business).

Kwayu tatai kwikia muvangoni walany'o uu wa itambya yina kieleelo yila muukomana tukundini twenyu na nthini wa ngwatanio syenyu.



Miti miseo kwa TIST: Vandu va musanduku (Eucalyptus).

Andu aingi ala masiasya mawithyululuko mena thina wa undu muti uyu wa musanduku uetae wanangiko kwa mawithyululuko. Nthina woo iulu wa miti ya misanduku nimusaanu nundu mithemba ya misanduku ni mingi. Akunikili ma nzeve (Scientist) mena nzika iulu wa uw'o wa miti ino. Onakau vaa ve amwe kati wa mathina ala meawa maetawe ni kuvanda muti uyu kwianana na ala masiasya mawithyululuko makiie kana:-

- Miti ino nitumaa vandu vatwika ing'alata nundu inyusaa kiw'u kingi kuma muthangani
- Miti ino nitumiaa unou mwingi wa muthanga kwoou ukethia ndivandaniw'a na kindu kingi.
- Matu maw'o mayoaa na mituki na kwoou kuaa tusamu tula twikalaa muthangani na kuune nzeve
- Mithemba imwe ya miti ila ya kikwitu nditonya kwikalany'a kisioni kimwe nayo nundu ikitaa kuma.

Onakau ti kila mundu witikilanaa na maundu aa vena undu nundu TIST yeethukiisya nonginya yithiwe metho/ngunuu iulu wa undu uu. Kingi muti uyu wavandwa ni muimi wa Tist ndwiithiwa na vaita munonundu muti uu utonya ukethwa utavikitye myaka miongo itatu (30) nundu kaingi andu nimaukethaa wina myaka miongo ili (20) kana myaka minini kwi isu. Nikana kukwata ndivi undu vaile nthini wa soko wa nzeve itavisaa miti niyaile ikala iiyiva myaka miongo itatu na ingi Tist nditonya kwitikila kuiva ndivi ya uthuthio kwa miti yisi ndiikala ivinda yila yaile nundu ikeka uu vayithiwa mbesa mbianu kuiva ala maatii mwiao wa Tist wa kuvanda miti ya kwikala myaka 30.

Aimi nomethiwe mayenda kwithiwa na miti ino ya misanduku/minyoonyoo kwondu wa kukwata ngu na miti ya kwaka. Miti ino ivanditwe vala yaile ndiundu muno nundu noirole utumiku wa miti ya kwimesya, onakau miti ila ivanditwe kwondu wa kukethwa ivinda ikuvi ndikatalwa ta ya ndivi nthini wa walany'o wa Tist.

Kwongeleela unyaiiku wa miti ya kiene na kusuvia itheka na kuthuthia aimi kuvanda miti ya kwikala ivinda iasa nikana ivitukithw'e sokoni wa nzeve itavisaa. Nituuthuthya ikundi ivande miti ingi vandu va misanduku/minyoonyoo.

Ni miti ingi yiva miseo vandu va misanduku?

Miti ino ni imwe tunengetwe ni amanyisya matist ta miseo:-

Mukuvulya: Silky Oak (Grevillea Robusta) (Kikuyu - Mukima)
Muti uyu ni umeaa na kwiana na mituki. Niwendaa muthanga uteiliva vala kiw'u kitopnya uthi na mituki, uvandawa utaniu wa matambya 4-5 na ngii/mbindi syaw'o iyendaa kuitwa. Ngii ithi no syikale vandu va ivinda ya myai itatu kana ivinda iasa syi mbalavuni. Miti ino ni usuvia muthanga, ikeka muuyi kwa maiani ka kaawa na niyikaa nesa ona ivandaniw'e na liu yasewa nesa kuola muunyi na ni unenganae uithyo wa indo ivindani ya sua.

Cypress or Cupressus Lusitanica (kikuyu: Mutarakwa; Kimeru: Muthithinda)

Muti uyu withiwa kaingi kundu kwiu na kula kute kumu muno kana kutayaa vandu va ivinda iasa kwi mya 2-3. Muti uyu ndumiasya ilimba/ilivi niwendaa muthanga wa kituni kana nthangathi ila itena ngaati mbingi. Mbindi/ngii syaw'o iyendaa kuitwa mbee wa kuvandwa indi nosiwe vandu va ivinda ya myai thathatu (6). Muti uyu nusiiaa muthanga kukuwa na nouvandwe na

mivai ingi ya miti indi ti museo kwa kuvandaniw'a na liu. nusiiaa kiseve, ukanengane muunyi na ni museo kwa w'ii.

Vaita wa Miti

Miti niyithiawa ya vata kwa mawithy'ululuko na utumiku ungi kwa itumi ithi:-

A) Useo kwa Mawithyululuko:-

- Miti niwika na kusuvia muthanga kumana na kukuwa ni kiseve kana kiw'u
- Matu na tuukava twavaluka nitwoaa na kunenge muthanga unou
- Miti niyongelaa kimeu muthangani nundu niyikia muuyi na kuola kiw'u kuny'aa na mituki
- Mii ya miti niyovaa muthanga na kusii kukuwa kwa w'o ni kiw'u
- Mii ya miti nitetheeasya kiw'u kulika muthangani
- Ni nisevasya Nzeve ya vandu kwa kwongela kiw'u kila kikiseveni. (humidity)
- Miti ni sevasya nzeve kwa kwosa nzeve ila itavisaa (Carbon Dioxide) na kumya nzeve ila ivisaa (Oxygen).

B) Vata wa miti ta liu na syindu sya utumnia-

- Miti ya kwaka, mbwau sya kwaka na kusevya miio ya nyumba vamwe na makanda.
- Ngu na makaa
- Ndawa
- Liu na uithyo

Kuimia miti yaku yu!

Nundu yu mbua niyambiie niuseo wambiie uthamya mbeu ila syi kivuioni ethiwa ndwaa ambii na kutwaa kithekani nikana ikwate na iimea nesa yu kwi mbua nikana itonye kumiisya myaini ya sua. Kingi kya vata nikana niwaile uimia miti yaku yu nikana yike nesa nundu kwi mbua. ikiithya vala uvandite miti nivekala ve vatheu undu vatonyeka.

Kuimia ni kwa vata!

- Miti yaku nikwenda kiw'u, unou wa muthanga, na kyeni nikana yiane yina vinya. Ethywa ve yiia nisikwambiia kuania kiw'u kyeni na iituma miti yaku yiana yimyonzu.
- Ethywa kisio kyaku nduimite, tusamu tula twanangaa nitukuka na kwananga/kuua miti yaku.
- Oundu vena yiia inini now'o tusamu na nzoka itethiwa vo.
- Vate yiia miti niyiana na mituki nundu vai kindu mekuaniia liu na kiw'u.
- Vate yiia miti niyiana na kuasava na mituki kwa ivinda inini
- Miti nikwataa kyeni kila ikwenda vate kusiiwa.
- Miti ndivikiwa ni mowau maingi
- Miti nisiwe kuma mwaki kuyaiika kwa mituki.
- Miti mitheu yionany'a kana ngwatanio yenyu niyithiitwe iyika undu vaile kwianana na walany'o wa Tist na ii ni ikwendeesya andu aingi na mayendeewa nikuka kuthukuna nenyu.
- Miti mitheu nitetheeasya muthuimi na muvitukithya kumitala namituki na kwa w'o.

Nituu kuthuthya uimie miti yaku. Lilkana kusuvia indo kwananga miti yaku. nowikiie wiio vala vena miti minini kumisuvia na ethiwa kunamba kua ngithya na uyikia muuyi ungu.

Kuthukuma na kithito nikuu ete kivathukanyo kwa kutuma miti yaku yithiwa yina vinya na yiminou.

Mazingira Bora



TIST

The International Small Group & Tree Planting Program
www.tist.org

Kipsigis Version

An Environmental, Sustainable
Development and Community Forestry
Program.



Mr. Godfrey Ngumo, his wife and TIST Cluster Servant, Josephine Mwangi inspecting their Small Group Nursery. Ngumo's group, River Dep D, TIST Number 2005KE504 has close to 1,500 Croton Megalocopus (Mikinduri) seedlings. They belong to Ragati Cluster near Nanyuki Town. This group, besides planting more trees in their own private farms, will be selling some of their seedlings. If you are interested to buy, contact Godfrey on 0724 83 65 62

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KIPSIGIS VERSION

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Cluster	Groups	Trees	Last Election	Members	County	Cluster	Groups	Trees	Last Election	Members	County
Gakurungu	12	8008	01 Jul 2013	87	T-Nithi	Miruriiri	24	15124	12 Jul 2013	185	Meru
Gatangine	41	74423	09 Jul 2013	332	Meru	Mitheru	49	66924	13 Jun 2013	409	T-Nithi
Giaki	64	66179	05 Mar 2013	489	Meru	Mitoro	35	15091	25 Jul 2013	166	Meru
Gikumene	92	68814	07 Mar 2013	658	Meru	Mituntu	57	13530	09 Aug 2013	378	Meru
Githongo	43	33754	05 Mar 2013	339	Meru	Mpuri	55	28742	06 Feb 2013	402	Meru
Gitimene	69	90627	03 Sep 2013	539	Meru	Mulathankari	21	16289	—	149	Meru
Igwanjau	70	35888	28 May 2012	494	T-Nithi	Mumbuni	24	10867	26 Apr 2013	159	T-Nithi
Ikindu	13	9932	08 Apr 2013	77	T-Nithi	Muragara	25	16864	04 Jul 2013	216	T-Nithi
ikumbo	18	5813	11 Apr 2012	168	T-Nithi	Murinya	53	67535	05 Aug 2013	378	Meru
Iriga	54	32312	02 May 2013	362	T-Nithi	Mururune	61	46883	08 Jun 2013	420	Meru
Irindiro	21	15126	07 Aug 2013	149	Meru	Muruta	54	19774	07 Feb 2013	367	Meru
Itugururu	13	6622	03 Jul 2013	28	T-Nithi	Muthambi	41	46534	04 Oct 2013	299	T-Nithi
Kaaga	32	39233	—	239	Meru	Mutuati	26	2243	18 Apr 2013	163	Meru
Kaanwa	29	15978	04 Jun 2013	190	T-Nithi	Mwichiune	37	47104	13 Jun 2013	260	Meru
Kagaene	104	94262	01 Oct 2013	685	Meru	Mworoga	77	103551	09 Aug 2013	573	Meru
Kagaene	99	29857	15 Aug 2013	492	T-Nithi	Naari	51	76871	01 Aug 2013	376	Meru
Kagumo	84	74095	08 Jan 2013	665	T-Nithi	Nchiru	75	42430	31 Aug 2013	546	Meru
Kamachege	14	4572	18 Jul 2013	124	Meru	Ngare ndare	27	9500	16 Feb 2013	213	Meru
Kamaroo	26	17715	16 Oct 2013	206	Meru	Ngiine	45	20277	03 Apr 2012	362	Meru
Kambiti	37	33815	12 Jun 2013	276	Meru	Nguruki	29	33964	06 May 2013	262	T-Nithi
Kangeta	26	949	25 Apr 2013	98	Meru	Njuthine	12	7765	—	73	Meru
Kanjagi	39	42042	16 May 2013	285	Meru	Nkando	59	26343	08 Aug 2013	496	Meru
Kanyakine	27	45423	06 Jun 2013	206	Meru	Nkondi	60	11653	01 Jan 2013	413	T-Nithi
Karama	54	10381	09 Aug 2013	434	Meru	Nkumbo	26	20400	02 Oct 2013	209	Th-Nithi
Kariakomo	16	11980	15 Aug 2013	121	T-Nithi	Ntakani	11	5409	09 May 2013	55	Meru
Karima Kambicha	25	24975	15 Aug 2013	200	Meru	Nthangathi	63	71518	22 Feb 2013	507	Meru
Karocho	19	0	19 Jan 2013	114	T-Nithi	Nthare	5	4787	08 May 2013	26	Meru
Karurune	36	31918	28 Feb 2013	262	Meru	Ntugi	75	100739	13 Jun 2013	596	Meru
Katheri	79	63026	02 Jan 2013	629	Meru	Ntumburi	37	46587	12 Jun 2013	343	Meru
Kathwene	19	2779	—	135	Meru	Nyweri	63	65302	14 Nov 2012	486	Meru
Kawiru MCK	63	27727	07 Jun 2013	500	Meru	Ruiga	20	49930	—	168	Meru
Kiambogo	38	3874	14 Jan 2013	237	Meru	Ruii	24	17711	02 Jan 2013	167	Meru
Kiamiogo	60	82265	28 Mar 2013	455	Meru	Runyeny	40	28633	01 Aug 2013	311	Meru
Kiangondu	14	926	06 Apr 2013	14	T-Nithi	Rwanyange	38	19138	19 Mar 2013	282	Meru
Kiangua	37	21758	04 Mar 2013	37	Meru	Sirimon	60	27718	28 Apr 2012	411	Meru
Kianjagi	60	89583	05 Jul 2013	475	T-Nithi	Subuiga	37	60969	13 Jun 2013	346	Meru
Kibirichia	61	63892	01 Aug 2013	509	Meru	Tharu	45	6999	11 Feb 2013	311	Meru
Kibui	50	27354	11 Apr 2012	393	Meru	Thiira	37	20475	01 Aug 2013	343	Meru
Kibuline	35	19762	08 Oct 2013	253	Meru	Thuura	50	66915	20 Aug 2013	363	Meru
Kiegoi	15	6703	22 Feb 2013	104	Meru	Tubui	19	12925	—	159	T-Nithi
Kiengu	16	11053	04 Jun 2013	126	Meru	Tunyai	36	26925	05 Feb 2013	289	T-Nithi
Kigucwa	72	107520	04 Oct 2013	568	Meru	Urru	21	15663	28 Dec 2012	163	Meru
Kiirua	101	85055	30 Aug 2013	710	Meru	Mara / Mau Region					
Kinoro	53	23677	06 Jul 2013	461	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kiraro	12	1889	16 May 2013	78	T-Nithi	Chemaner	40	7324	11 Mar 2013	245	Bomet
Kiria	63	37201	13 Nov 2013	504	Meru	Cheptuech	6	0	07 Nov 2012	32	Nakuru
Kirimaitume	28	32246	13 Mar 2013	182	Meru	Chesoan	3	0	06 Nov 2012	13	Nakuru
Kirindini	43	47709	10 Jul 2013	283	Tharaka	Irongo	5	0	09 Nov 2012	10	Nakuru
Kirubia	48	26026	09 Aug 2013	258	Tharaka	Kapugunot	6	0	08 Nov 2012	26	Nakuru
Kisima	37	104190	17 May 2013	359	Meru	Kutete	27	9809	12 Mar 2013	184	Narok
Kitheo	57	41573	14 Aug 2013	398	Meru	Mbeere/ Kirinyaga Region					
Kithithina	57	31624	30 Jun 2012	407	Meru	Cluster	Groups	Trees	Last Election	Members	County
Kithoka	66	57143	05 Mar 2012	491	Meru	Kamwiyendei	29	8048	26 Aug 2013	188	Embu
Kithurine	60	19654	03 Jun 2013	513	Meru	Kanjuu	33	7732	13 Jul 2013	282	Kirinyaga
Limauro	52	28532	02 Aug 2013	389	Meru	Karaba-Mbeere	18	2043	27 Sep 2013	97	Embu
Limoro	82	17101	07 Jun 2013	491	Meru	Karumande	56	5004	05 Sep 2013	535	Kirinyaga
L. Imenti Forest	12	205	—	99	Meru	Kianyaga	33	20409	03 Jun 2013	281	Kirinyaga
Magutuni	25	14936	11 Jul 2013	184	T-Nithi	Kilia	18	4178	28 Aug 2013	137	Embu
Marimati	9	0	—	61	Meru	Kiwea	34	10217	—	325	Kirinyaga
Maritati	25	55530	—	262	Meru	Ngariama	51	16545	07 Feb 2013	451	Kirinyaga
Matakiri	62	6774	01 Jan 2013	403	Meru	Njukiini	40	17499	05 Aug 2013	317	Kirinyaga
Maua	38	9247	05 Jul 2013	22	Meru	Nthingini	37	9415	27 Aug 2013	255	Embu
Mbajone	32	57144	12 Sep 2013	203	Meru	Come and see Areas					
Miathene	89	110977	07 Jun 2013	559	Meru	1. Taita/Taveta County					
Mikunduri	60	57229	05 Sep 2013	433	Meru	2. Nyamira County					
						3. Transzoia County					
						4. Machakos County					



Tegetabgei: mat ibagach koberuratab krubit ak nebo kilasta.

Tegetabgei kobo komonut en tuiyetab kurubit en kila wigi, muwoe en eposoek 4:15,16 chitugul en kurubit nebo tist koiib kabwate nenyin nekararan ko niton ko konunotiot koyob kurubit kiit ne kararan akobo kwongutik en kurubit konoiyet, bcheet ak keboisien konunotoik kiyok chekitinye.

Tegetabgei ko oret negimuchi kegeren ak keboisien, miten ortinuek o’eng chebo tegetabgei;

- Kotomo kesa nebo let en tuiyet kotinye chitugul muwaet ne tononot nebo imanit ne kayai kondointet ne kotonochin tuiyet kou, korib sait, kogon tetutik chegororon ak alak, tinye chitugul boroindo komwa kitage netomo komwa chito age en kila wigi

konyoru kondointet age tugul ne kotonochin tuiyet tekset

- En tegetabgei kenyorunen tuguk chegororonen amun ngolole biik agobo tuguk che imani onginetgei kemwa tuguk chegororonen en kutuswe kiyok amun kinyorunen konetisiet ingonetgei krubit kotugul kole bo komonut komiten kondointet, kondointet neisibu konoe kole borotet yon kagiteigei en tuiyet, en betun noton koyomegei komwa kogoi kondointet ne kotonochin tuiyet yon kogimwochi kiit nebo imanit en niton komotinye ngalalet anan ororonet, kinyorunen konetisiet niton ehek, en tuiyet neisibu konyorunen kondointet nebo betunoton kongiletagei ak konyorunen kimnotet, tegetabgei ko koberuret

Tandare cluster: Kogochin kobai segemik amun kogomin ketik.

Membaekab tandare kotinye tetet kobai segemik en inguni, tinye moingonik 14 chebo kipkaa ak 12 chebo kasari konegit konyoru komiik en chogindo kiwegini kogoi kondointet nyon joseph mukungo, kinyorunen kimnotet en TIST.





Ole kimuchi ketetita koguwootik ak yaet.

Kurubisiekab tist ak kilastaisiek koyoe boisionik chechang ago chetogu. Minetab ketik ak temisietab kasari yon miten boisionik chechang ko kararan ketet koguwootik. En kurubit kotinye chitugul boroinde komwa agobo kabuwatenyin ak kelut nenyor kurubit en wegite, neisubu kogonetisietab ole omuche otetite yaet, ogeyaniton en tuiyet nyon.

Tetab koguwootik komi kouni;

- Tinye tononet
- Tinye keret
- Tinye koitet
- Tinye kanamet ak kogesunet
- Keri ile tinye koguwootik keret yeibata betusiek, wolutik.

Korogutiek, yon kemuwa ile omine ketik, ko ngoliot neiumi tugul chechang yon kemwa ile en betusiek somok en wigini omine ketik 75 en imbarenynun ko kaituosi kokwoutietab yae amun koinde tononegun ile amine ketik (75) tinye keret biik amun kerin iyoe, tinye koitet amun koimin ketik (75) en betusiek somok ak tinye kanamet ak kogesunet en yeibata betuseik somoku kotogu wolutik, yon kotuye en tuiyet kotinye boroinde chitugul kogon akobo yaetab kokwoutik en kasarta nemingin;

1. **Komwochi biik agobo olekou yaetab koguotik**
2. **Komwochi biik kiit ne koyai**
3. **Komwochi biik agobo koguwootiet nebo wigite ne nyone**

Igot koisulta yaetab koguotik koboiboyechin kurubit kogilenchin bo gei, amat kosas anan kowech membaek amun niton kokiletab gei, kemwochin kogilgei en betut nenyone ogebchei ak ketach yaetab wolutik en kurubisiekab ak en kilasta amun kogeyai niton

Yaetab koguwootik ak yaet

Kimuche keboisien ore negergei yon kitete, yon moche kurubit kotet kit neyoe, koger kole katet kouni;+

Tinye tononet (kemin ketik 50,000 en imbarenik kiyok en arewetab taman ak o'eng)

Tinye koitet (ketik ata? 50,000 chegokemin)

Tinye keret (imuche komin kurubit agetugul ketik 1000 en wigisiek 5, chitugul komin ketik 10 en betut) Kasaeta – negikonu(kotinye kanamet ak kogesunet – kimine kongeten nov 15- dec 20

Keret niton koberu oret ak yaetab koguwootik en tetetab boisiet ago koni tononet ne kararan.

1. Nee- (kemin ketik 50,000)
2. Ngo-(membraekab tist chebo kurubit)
3. Ou- (nov 15- dec 20)
4. En ono – (en imbarenik kiyok)
5. Kokalian – (kituitosi en kila kasitab o'eng ak angwan kasi asi kebal keringonik ak kemin ketik)

Amune – (kerib imbarenik kiyok, kenyoru kwenik, kotililit kaa ak kenyoru rabinik koyob mungaretab koristo)



Ketik chegorororon en TIST; chegata chebkokutgei.

Miten kweretabgei en niguni ngomutik che tononchin itonwekab emet en agobo (chepkogutgei) miten kesuek alagei chechang mising chebo chepkogutgei, miten kochenge komutik agobo chuton kora komiten kerutik chegonu yon kagimin ketichuton chemuche koyan ngomutik

- Ketichu koyomse emet amun eebeek chechang
- Keti kwome oguwoindo nebo emet ne mogimuche kegol tuguk alagei
- Moginyorunen sogegik aguwoindo
- Ole miten keti komokinyorunen kiinedobei

Biik chechang komotinye koyan agobo niton amun chome akobo mungaret en tist kotinye kasetab iit agobo nitin, kurubusiek chebo uganda komwoe kole kibosok beek yengigemin chepkogutgei, tist kenya komwochin temik tugul go mamin chepkogutgei en nyanchosiek en oinosiek anan ko ole miten oguwoindo nebo emet, miten imbarenik chegimunche kegolen ketiton imuchi inyoru ngomotiok tab timwek asi kongololul.

Amunee nebo o'eng komoiyono tist kegol ketichuton, temik chechang komuchi koges ketichuton en kasartab kenyisiek (20) komoimuchi tist koyanda koristo ago kimoche ketil kokatar kenyisiek (30) komonyoru kelut biik chegamin iyonotin katikap kaa mising.

Temik chechang kotinye mget kogol chebo kwenik ak bogoinik, ye kiyai kouni ko kogibos kimnotetab timwek, agot konyor tist imbarenik chetinye ketichuton komoiyoni, ogetes minetab ketik ak gerib imbarenik kiyok ak kemin ketigab kaa nito koyanat en mungaretab koristo, omin ketik alagei chemo chepkogutgei

Nee ketit alagei chegororon

Cheisubu ko ketik chegigolewen temikab kenyatist *Gravillea robuster*, ketitab usisiek (*kikuyu – mukima*, *kipsigis sepesepe*).

Keti konyone komie en ole kararan kwoutik go (4 – 5m) motinye konyoset kesuwiek kegonori en kasarta negoi keti kogonu teretab ngungunyek, kimine ak minutik alak olemi kogochi minutik komoyomio.

Cypress or cupressus- kikuyu mutarakwa, kimeru muthithinda, kipsigis- cheborus.

keti kenyorchi ole kaitit emetab robta, ak ole yamat, keti komomoche ole chang beek mising kesuwiek kimuche kegonor orowek 6 tere kora ngungunyek ago mosing, kimuche kemin ak keti alak, tere koristo, uruwet mogimine ak rurutik.

Miyeitab ketik

Miyeitab ketik kogochin emet itondo ne kararan ak tuguk cheginyorunen kou;

A. Itondab emet

- Ketik kotere ngungunyek, komoib koristo anan ko beek.
- Sogek kotoreti ngungunyek kogochin oguwoindo.
- Igochin ngungunyek konyor beek ak koter beek.
- Igochin tigitik konam ngungunyek asi moib beek.
- Igochin tigitik beek kochut ngungunyek.
- Igochin ketik itondo konyor beek.
- Igochin ketik kounetab koristo.

B. Tuguk che kiboisien ak omitwokik

- Kinyorunen ketik tuguk chegitegsen.
- Kwenik.
- Kerichiek.
- Omitwokik ak che tuga.

Sember ketiguk en iguni

Kotomo konyo robta iger ile kemin ketik en imbarenguk kotom iya inguni iyai amun asi konyor robta kominotin sigochon ak kogime kitun amun kosich beek kit nebo komonut ko isember ketik en imbarenguk, chob imbaret kotililit.

Semberet kobo komonut.

Ketik komoche beek, moche omitwokik, moche loboiyetasi konyo koet, akot komesember kotorer beek ketik ago monyuru itondo ketik.

- Agot komagisember imbaret koibu susurik che imuchi kwam ketik.
- Yon tilili imbar komobwone tiyongik cheu ndorok ak susurik.
- Bwone ketik kochogu.
- En kasarta ne nuach koegitu ketik.
- Nyoru asista ketik.
- Monyuru ketik miyouwek.
- Itabitu mat komololtose ketik amun momiten timndo.
- Imberet netilil koboru koribotin tuguk tugul chemiten yoton ago iboru koborunet ne kararan agobo TIST.
- Imbaret ne karan kogochin koitindet koit ketik en choginet ak en imanit.
- Ngot imbarenguk asi mochut tuga, nego asi komowech ketikk.

Kogiletabgei en boisionik kogonu besiet en igochin ketik kogimegitun ak konyor itondo ne kararan