



Kenya Forestry Research Institute



Japan International Cooperation Agency

Field Seminar Proceedings

Mathima Location

Mutomo Division, Kitui District

26th March 1993

KENYA/JAPAN SOCIAL FORESTRY TRAINING PROJECT

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1. BACKGROUND

Kenya/Japan Social Forestry Training Project started implementing its training programme after construction completion of the Kitui Social Forestry Training Centre in December 1988. At first, 3 day/one week courses were implemented and later changed to 2-week courses. Since the successful development and implementation of the two week courses, the social forestry training programme in the arid and semi-arid region of Eastern Kenya has become a popular activity. The current institutional courses, however, have not addressed all the training needs of social forestry activities for grass roots level personnel in this region. Participation limitations still exist which have made the programme not to realize its targets. Some factors which were observed to limit the target persons or farmers to enjoy our training or make them unable to attend such training courses were as follows:

1. **Illiteracy:** The illiteracy of the target group is relatively high and for them to understand all the contents and materials prepared for the current formal courses in Kitui Centre they apt require certain literacy abilities. English and Kiswahili, the two official communication languages for the courses are sometimes not understood by most of the target farmers at grass roots level. Some lecturers have good command of the local Kamba language but may not adequately communicate with all participants because some of them come from various language groups within the Eastern Province.

2. **Duration of Training:** Most farmers, especially the women are very busy with domestic duties but the duration of the current training courses are relatively long, this leaves most of them with a choice of attending or not. In the rural context, it seems that few farmers can attend such long duration and that is why the project has and still focuses on progressive persons such as leading farmers, women group leaders, teachers and community leaders to attend the courses rather than concentrating on target peasant farmers.

But the current practice of concentrating on progressive farmers does not auger well with the project policies of creating environmental management awareness to the wider rural societies. Generally, evolution of environmental awareness in rural societies is gradual and there is need for the participants who are recruited for courses in Kitui Centre to attain medium to high level of such awareness for realization of best results from the training. This question led to the training course organizers re-evaluating the existing approach and the introduction of field training activities such as Field Seminar under discussion and Follow Up Workshop which has been planned and approved as a new activity to be extended to the grass roots level target

groups. These are the proceedings of the first Field Seminar held on 26th March 1993 at Mathima Location, Mutomo division, in Kitui District.

2. SEMINAR PLANNING AND ARRANGEMENT

2.1 Site Definition

A location was selected on the following conditions:

1. The location should be in remote area to enable the trainers address to the needs of ordinary and remote farmers more effectively.
2. The chief of the particular location should be an ex-participant of Community Leaders' Course held in Kitui Centre for him/her to understand the concept and importance of social forestry activities better than those who have not attended.

The chosen site is located 16 Km south-east of Mutomo Market (See Figure 1). The natural environment in this area seems relatively well conserved compared to other locations and it has not been disturbed through agricultural activities. Recent increase of population in the area, however, has been very high and this has increased the need for sound environmental conservation and tree planting activities requested by the local administrative personnel such as the locational chiefs.

2.2 Date Definition

The date for the seminar was decided with following considerations:

1. Do not fall in a rainy or busy season for farmers
2. Do not fall on a market day
3. Do not fall on a day with any other meeting.

Initially, it was planned to be held in February 1993 but because the rainy season extended than expected, the date had to be postponed to the 26 of March 1993.

2.3 Publicity and Motivation

Publicity and people's invitation were arranged through Divisional Culture and Social Service Office (C.S.S.O), Mutomo. It has well-established rural networks (having officers up to location level) and well experienced in such kind of arrangement. Also, the information was given to the rural community members through the Chief's Baraza etc. Posters containing the Event Title, Date, Time and Venue were prepared for publicity and propaganda purposes and 40 copies were distributed and placed on strategic boards through the C.S.S.O (See Appendix I).

2.4 Number of Participants

About 400 participants were expected following consultations with the Chief's Office and C.S.S Office's experience with similar activities in this region and materials were prepared for that number of people.

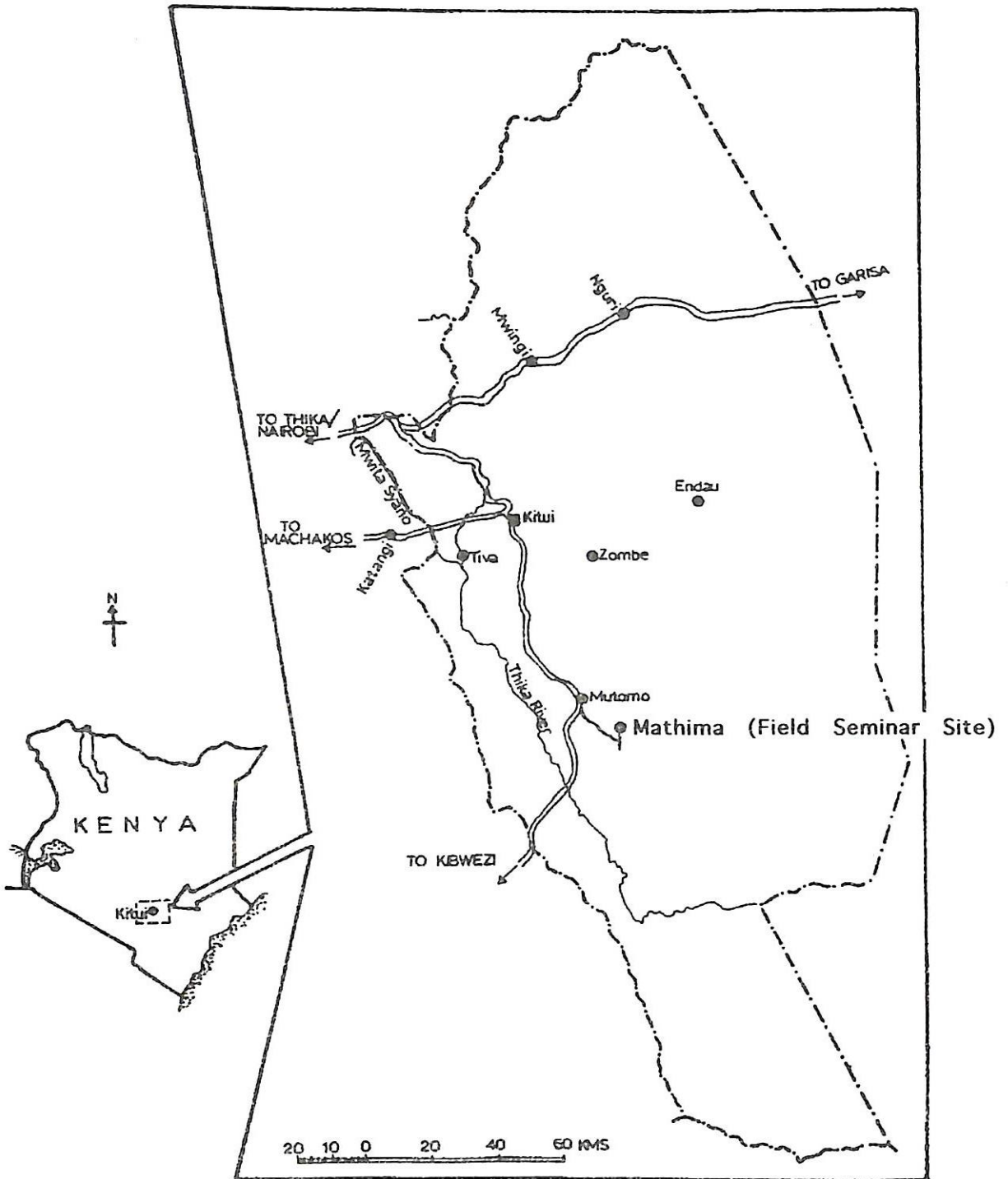


Figure 1. Field Seminar Site

2.5 Pre-Seminar Arrangement

Pre-Seminar arrangement was carried out as followings.

Chart 1. Pre-Seminar Arrangement Itinerary

Date	Remaining	Occurrences
1 Feb.	53 Days	Appointment over telephone with CDO, Mutomo for 11 Feb.
11	43 Days	First contact to Culture & Social Service Office, Mutomo
19	35	First follow up from CDO on agreement of chief and site difintion
24	30	Visit and Confirmation of Venue or Site, Mutomo Chief's Camp
26	28	Hand over of Posters to Culture & Social Service Officer
23 Mar.	3	Visit to Site by All Presentators and Site Preparation Arrangement
24	2	Supervision of Site Preparation Work by 2 Presentators
25	1	Site Preparation, Display Set Up, and Stay Over Night Mutomo
26	0	Field Day

3. EQUIPMENT AND MATERIALS

For the particular day, three 4WD vehicles and two pickups were arranged for transport purposes. Other equipment and materials provided for this seminar are shown in Appendix II.

4. SITE PREPARATION

Seminar sessions were arranged as indicated by the poster presentation so that the participants were able to come in any time when it was convenient for them to do so. Time scheduled presentation like in any other course was not effective because there would not be enough participants at the same time especially in the morning hours. As usual farmers are very busy people and as expected in such remote location, means of transport is very scarce.

The design of the site was as follows: The area was enclosed by posts and rope and the entrance was provided at one side. The participants were registered at the entrance. In the enclosure, they listened to presentation by each instructor and saw displays and demonstrations following the number indicated on the label boards. When satisfied with the sessions, they were served with some drink in a kiosk and went out through the exit. Displays had been set up under tree stands on the site because the shade was considered as the most important factor for this kind of under the hot sunny conditions experienced in the area. (See the Layout Map).

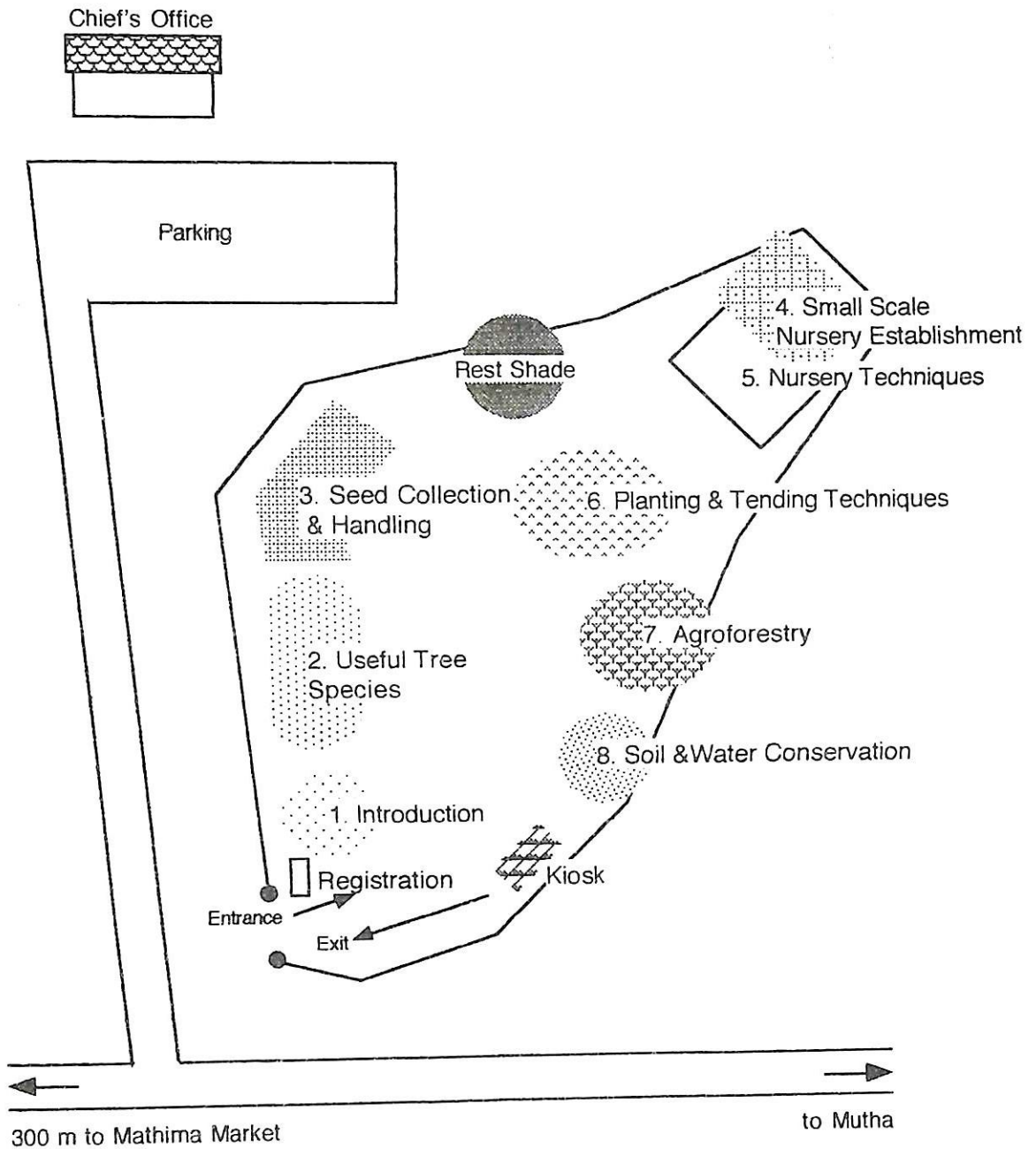


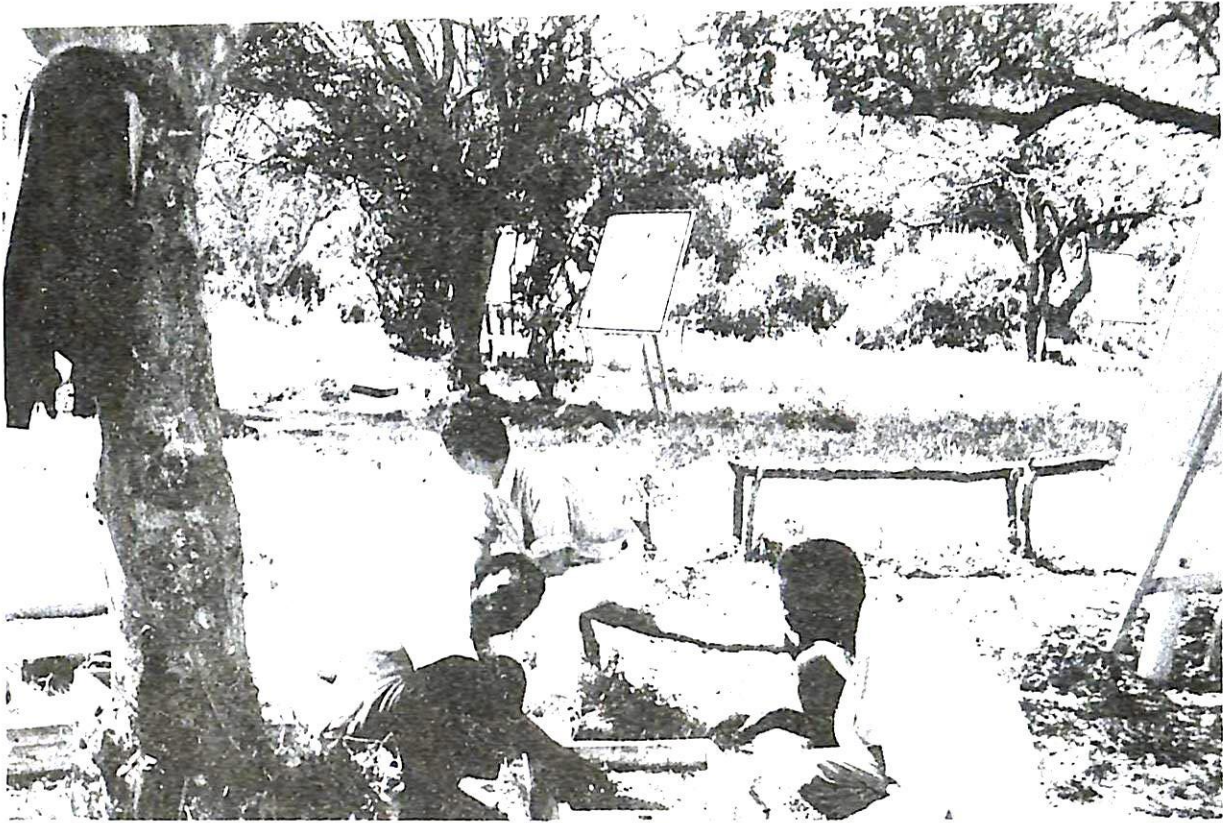
Figure 2. Layout Map



Photograph 4-1. Site Preparation and Enclosure by Rope



Photograph 4-2. Preparation of Small Scale Nursery



Photograph 4-5. Preparation of Germination Box



Photograph 4-6. General Aspect of Site and Display Marked by Label Board

5. SEMINAR IMPLEMENTATION

The last preparation or set up was started at 7:30 AM and before 9:00 AM the displays were ready. All participants were registered at the entrance within the form prepared for farmers and for school participants (See Appendix II and III). The organizers stop and pool the participants for a short while after the registration at the entrance and after getting enough participants (15 to 20) allow them to enter and start presentations. Each instructor started presentation after receiving those groups. The normal order of the sessions was as follows:

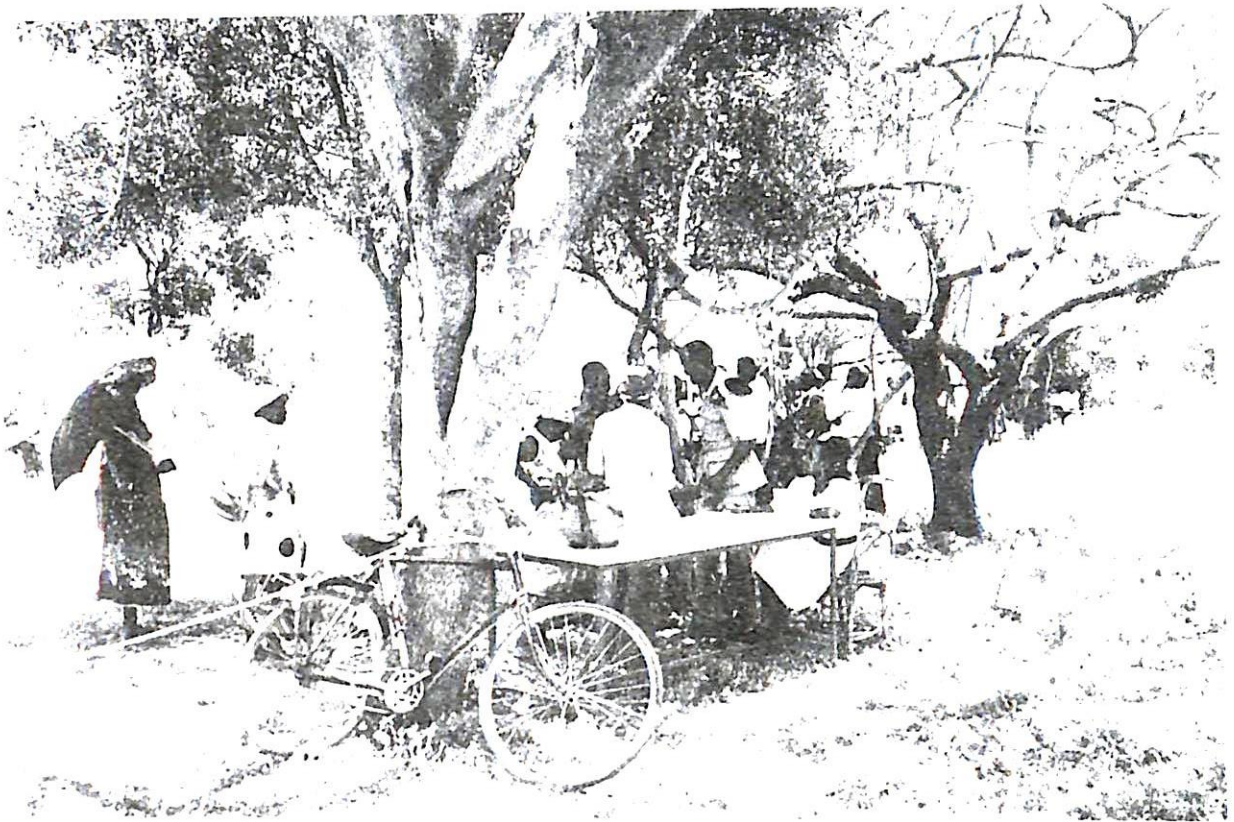
1. Introduction
2. Useful Tree Species
3. Seed Collection and Pre-Treatment
4. Small Scale Nursery Establishment
5. Nursery Techniques
6. Planting and Tending Techniques
7. Agroforestry
8. Soil and Water Conservation
9. Drink

Names of instructors and organizing staff are indicated in Appendix V.

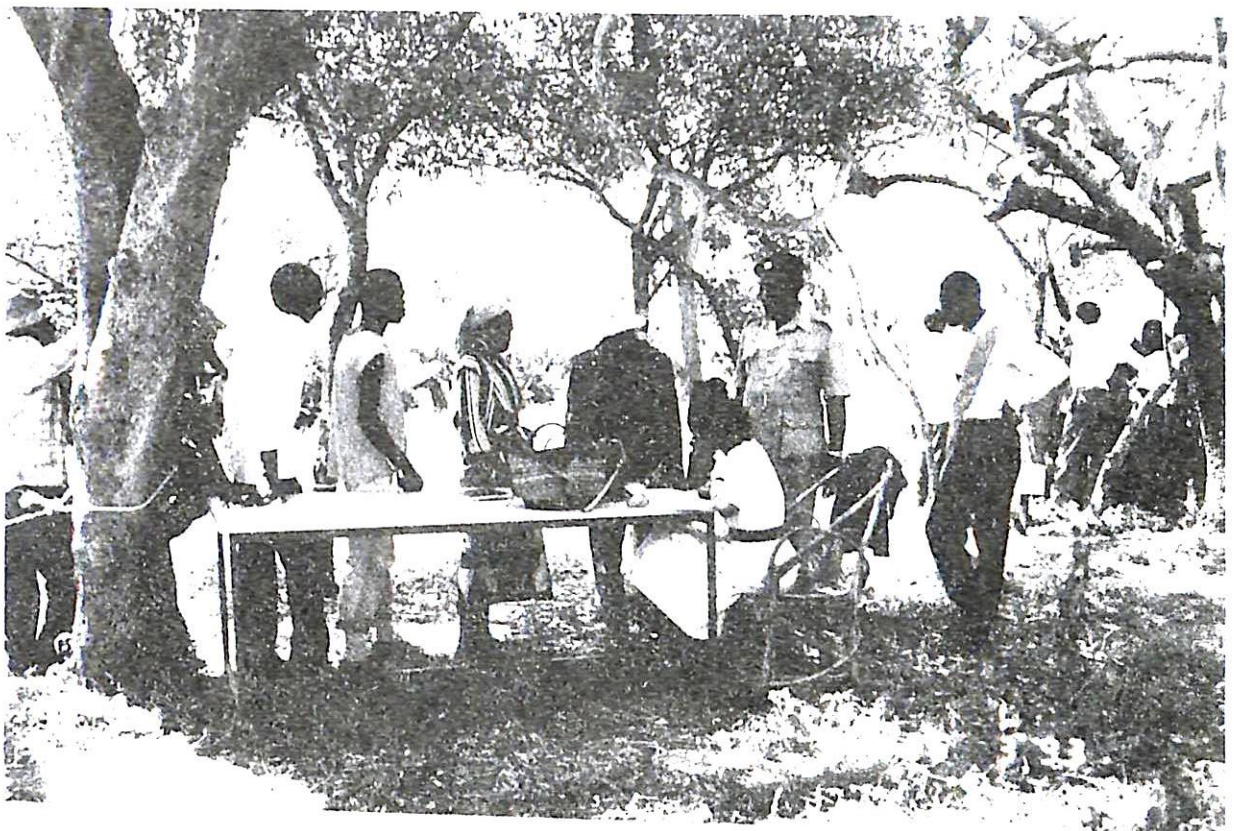
Up to closing, 288 participants had attended including 171 school pupils and 8 teachers.

After almost full-day's continuous presentation, closing session was started around 4:00 PM and the event was officially closed by Mr. Obiero (District Officer Kitui, in charge of Environment) at 4:30 PM.

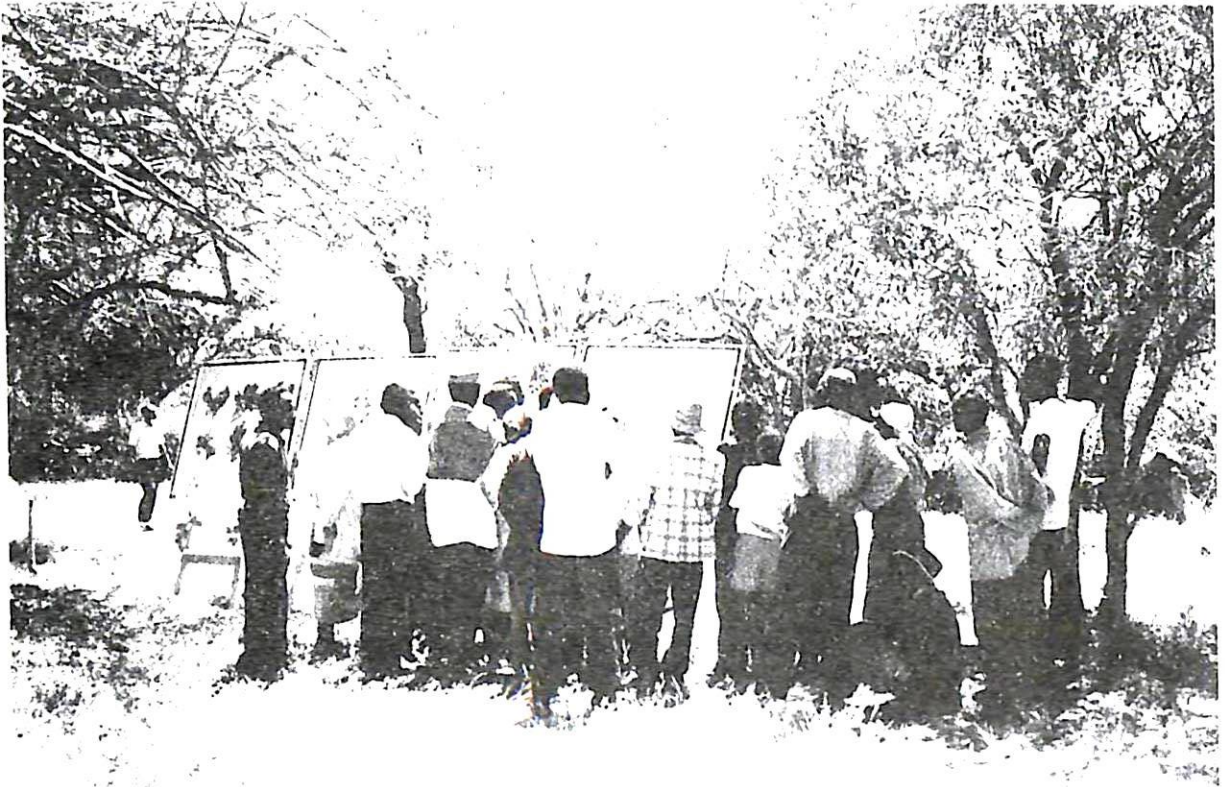
Also, the activities were covered by a KBC agent based in Kitui. For more detailed aspects, please see the photographs below.



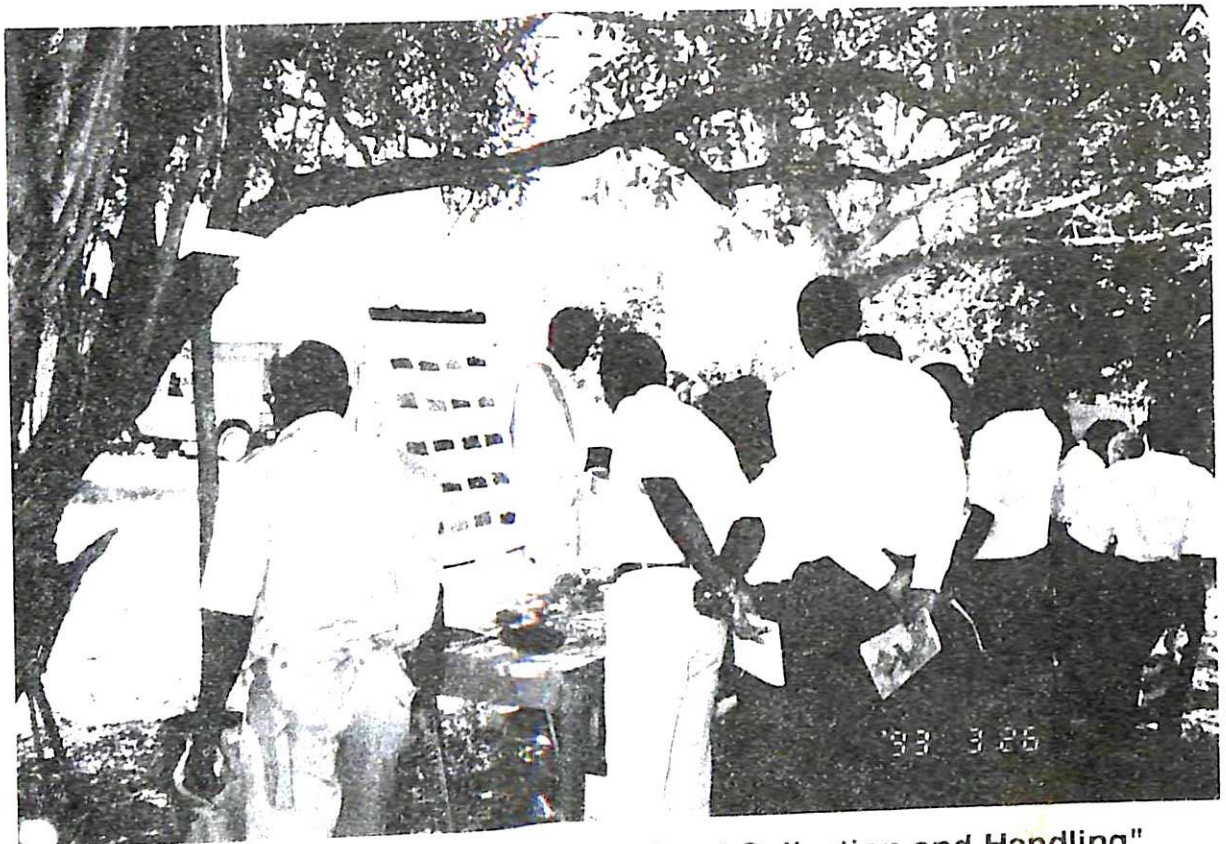
Photograph 5-1. Coming Participants and Registration



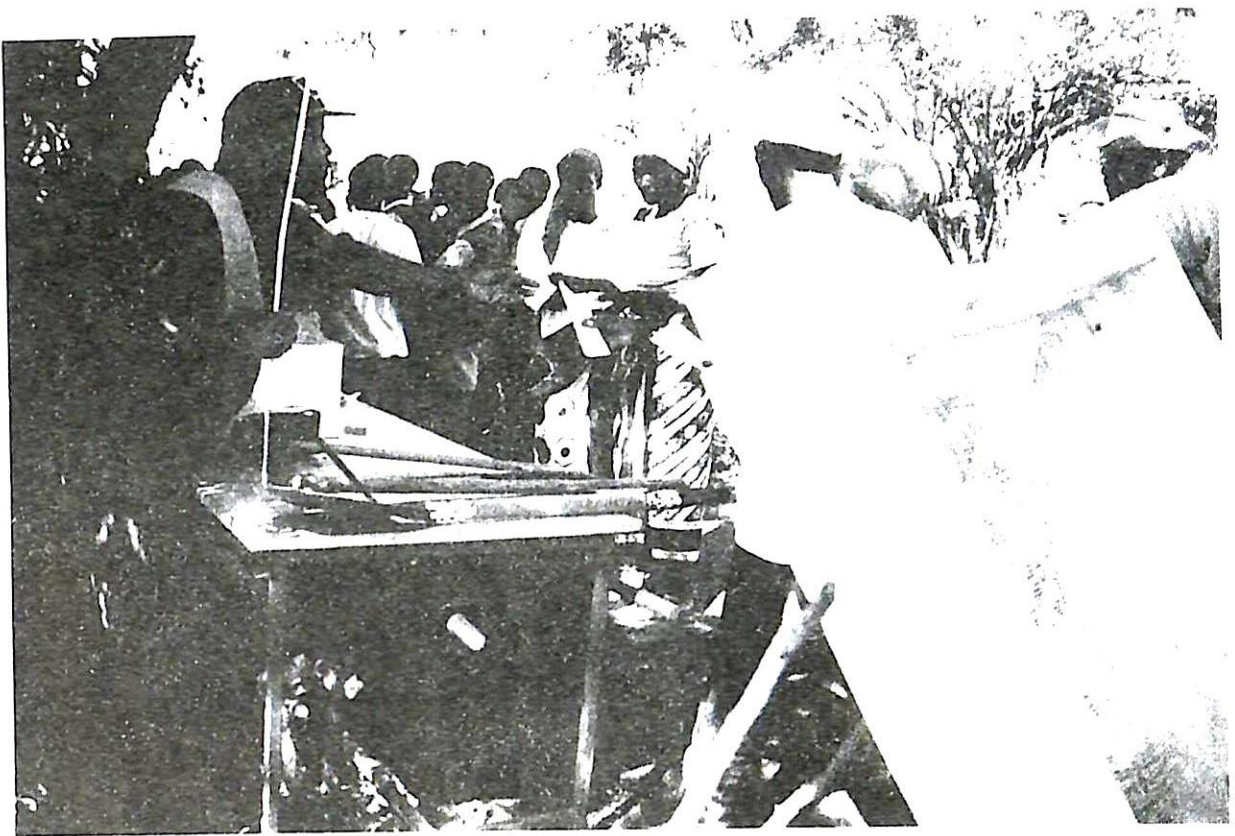
Photograph 5-2. After Registration, a brief Introduction were given



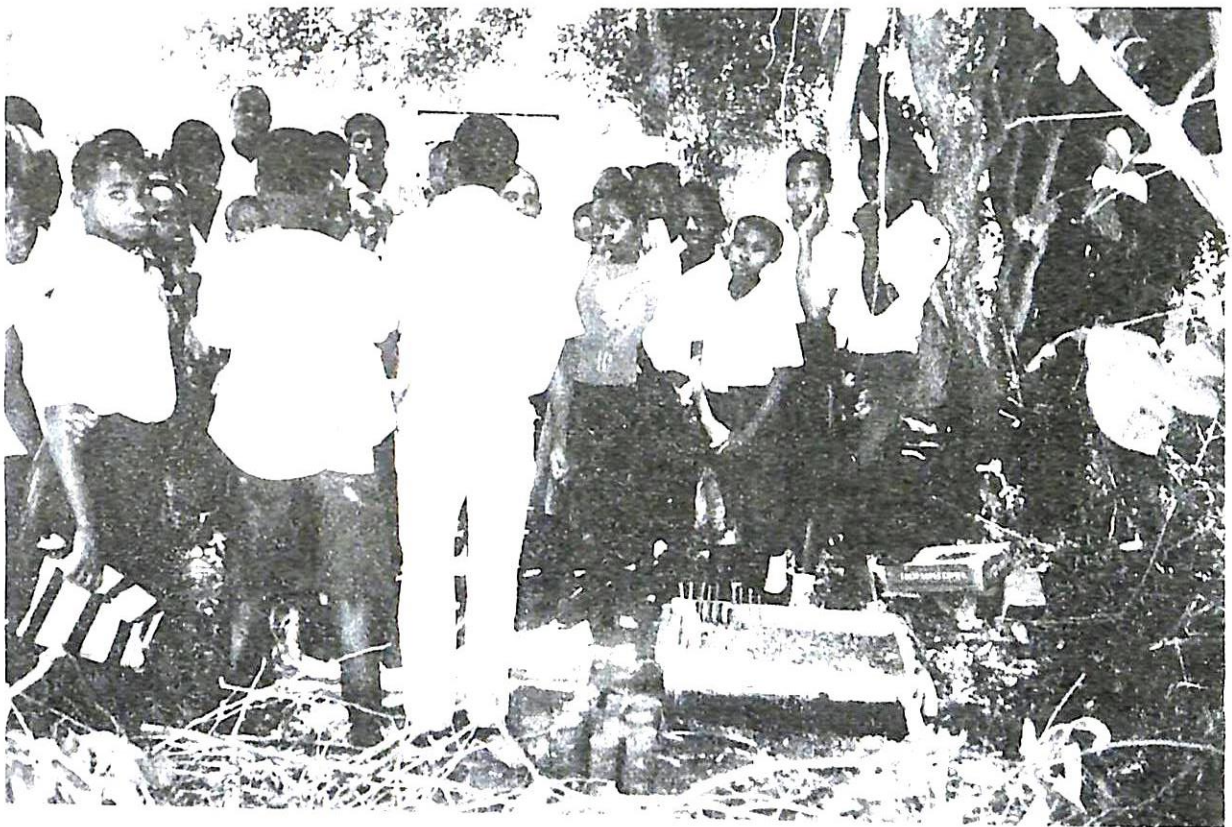
Photograph 5-3. The Session of "Useful Tree Species"



Photograph 5-4. The Session of "Seed Collection and Handling"



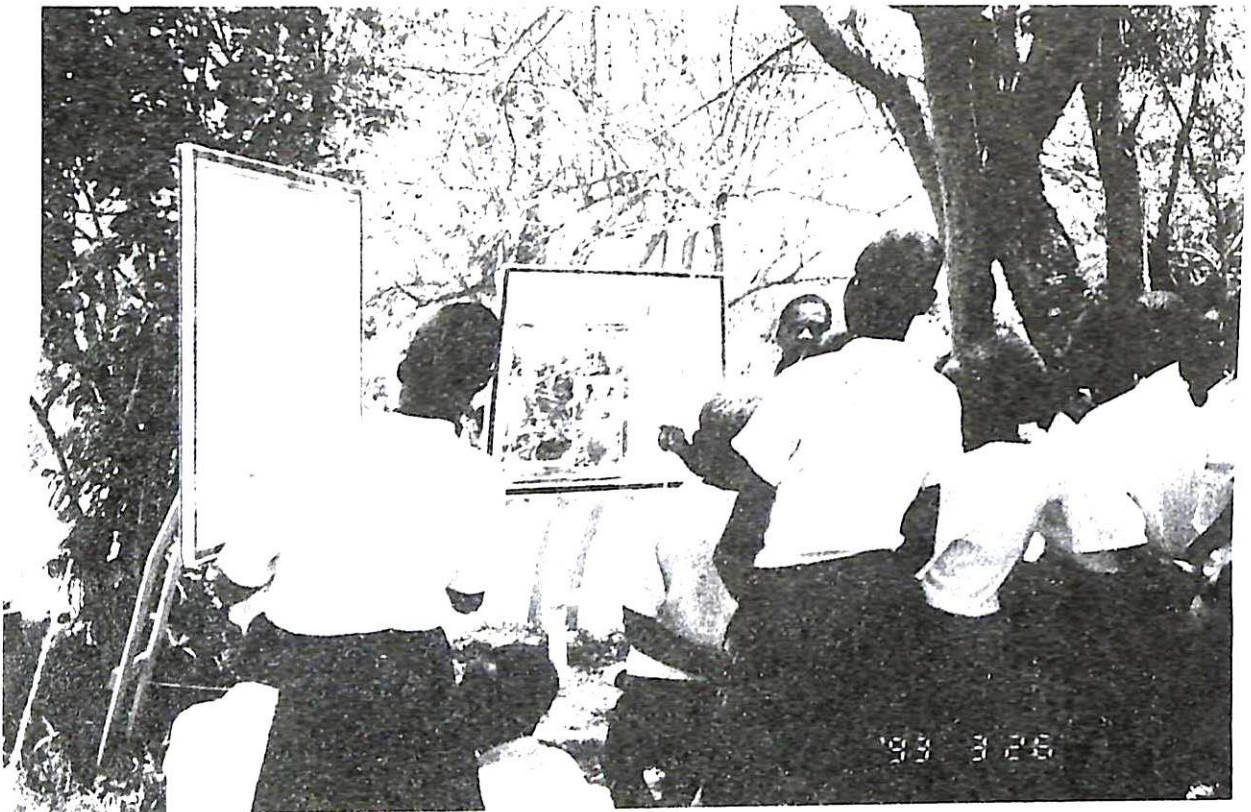
Photograph 5-5. The Session of "Small Scale Nursery Establishment "



Photograph 5-6. Demonstration of "Nursery Techniques"



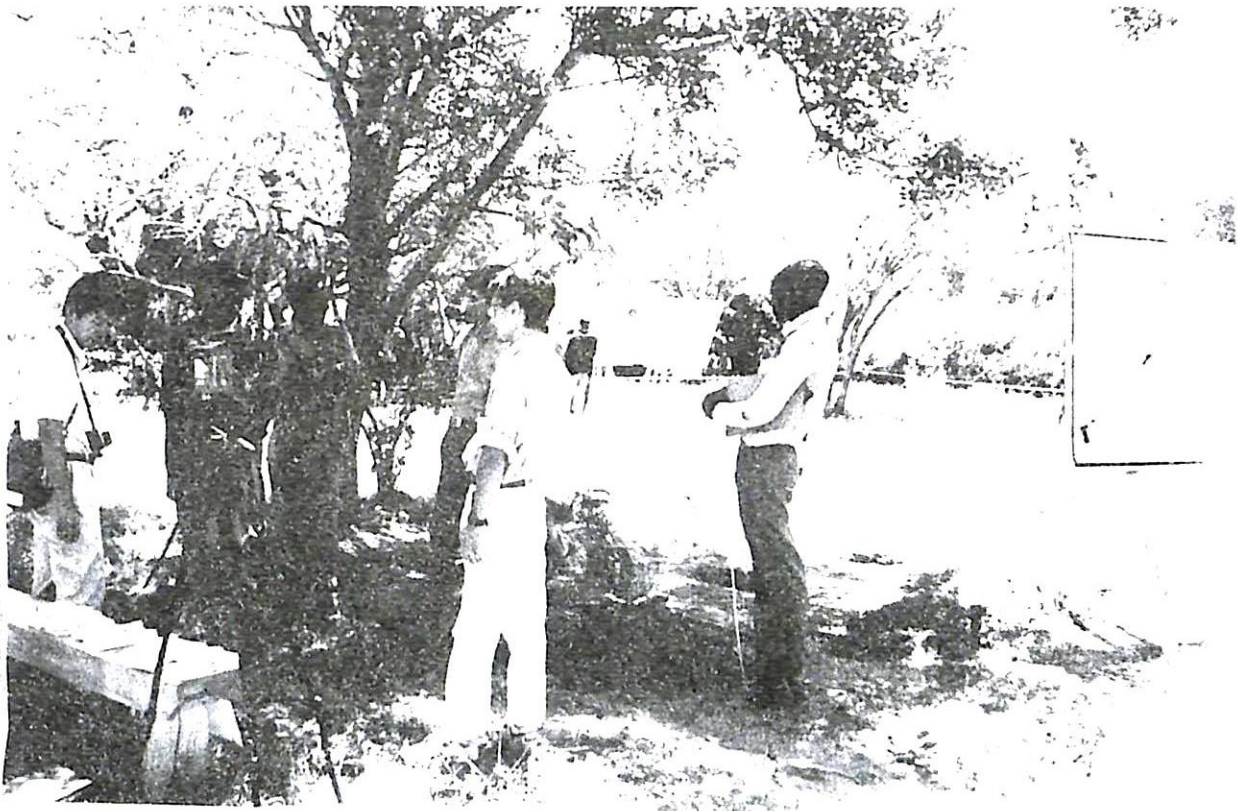
Photograph 5-7. Demonstration of "Planting and Tending Techniques"



Photograph 5-8. The Session of "Agroforestry"



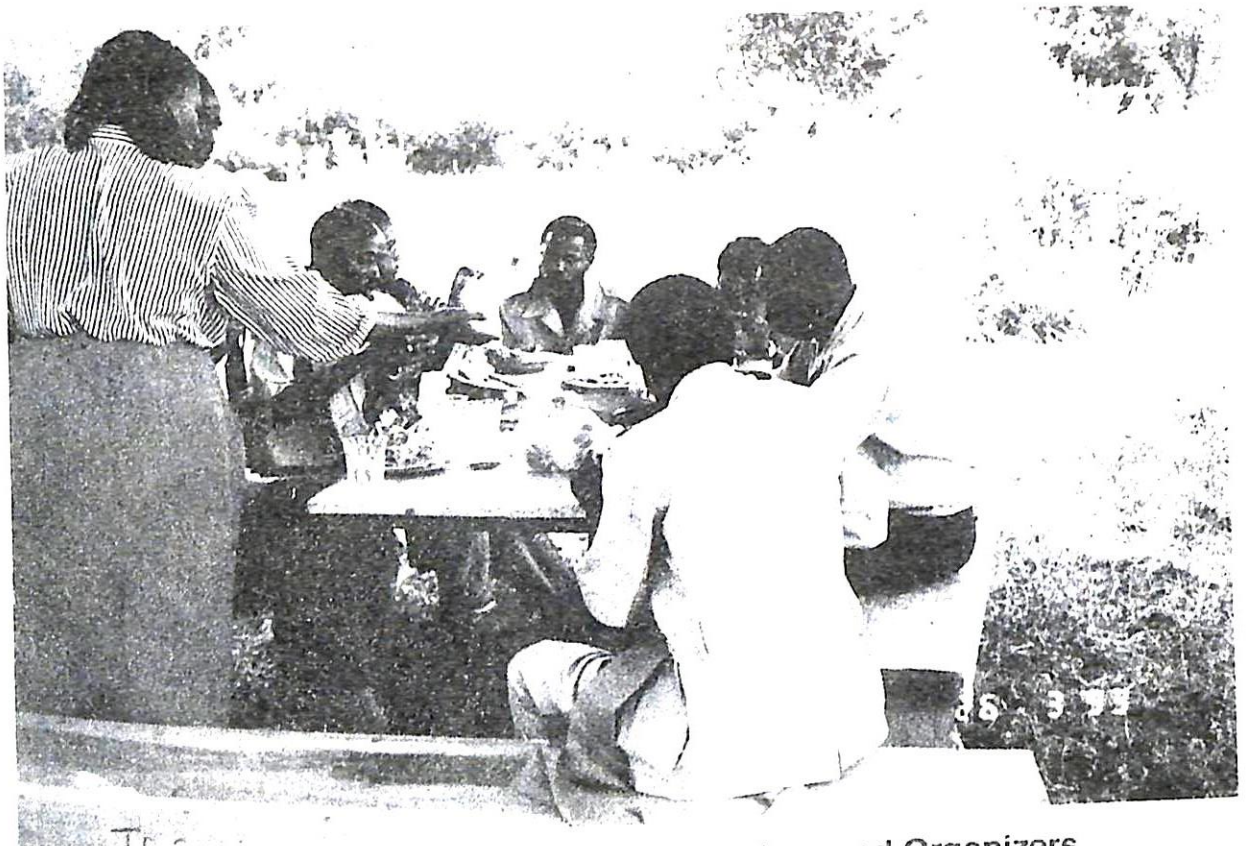
Photograph 5-9. The Session of "Soil and Water Conservation"



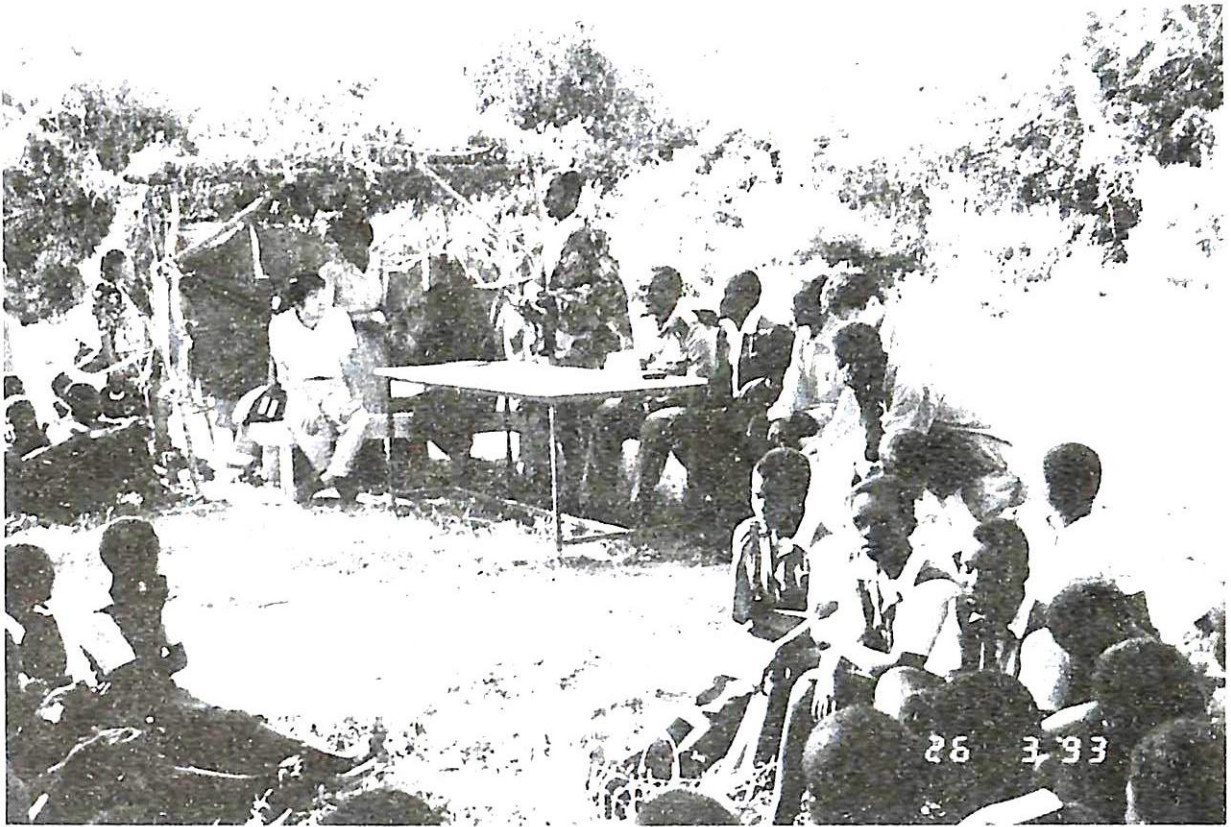
Photograph 5-10. The Guest of Honour, Location Chief, Chief Advisor and Organizers



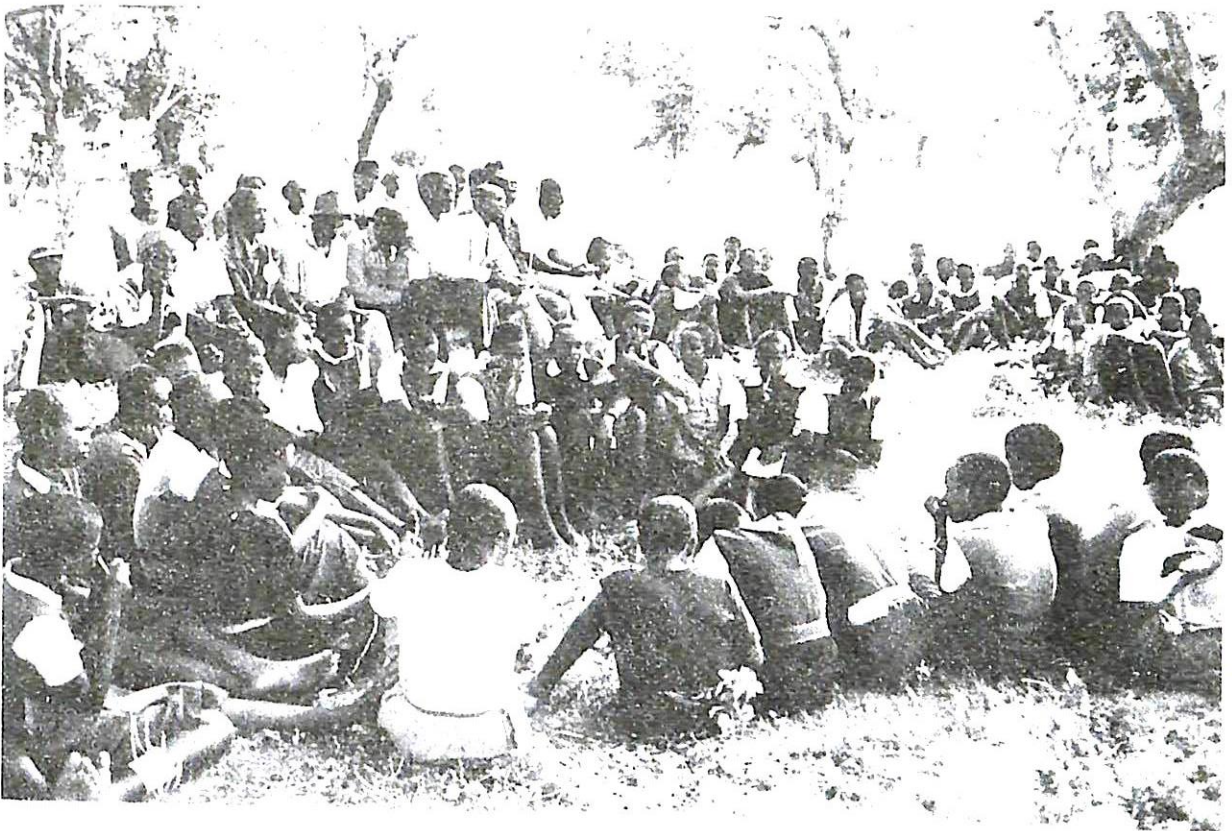
Photograph 5-11. Drinks were served to the participants after the session



Photograph 5-12. Lunch for Instructors and Organizers was difficult to provide at the site



Photograph 5-13. Closing Ceremony



Photograph 5-14. Same as above

6. EVALUATION BY PARTICIPANTS

Some participants were interviewed at random in order to know the effectiveness and problems of this activity to be improved. Following are impressions and comments made by participants:

Individual 1

We have learned about useful and edible trees and we were very much interested to plant if given the seeds. We like the shade ones; also which have flowers because they make our compound look nice and admirable.

We like medicinal trees because sometimes we have been wasting a lot of money for medicine to cure small problems like headache, coughing, stomach and like now many people around this areas have "Upele" (small pimple like and very scratchy) we have tried medicines but the results are not good. Now if we plant medicinal trees we shall be using them for minor cases of illness and shall advice people about them.

We have been trying to plant seeds but most of them would rot because we don't know how to plant but now due to what we have learned from JICA Project instructors we are now going to start and plant more trees. Like now I have tried to plant about 50 Mango seeds and out of this, I have only 9 which are now growing.

From what we have learned about nursery techniques, some methods are hard to go about but one is simple because we can use local wood.

Primary School Teacher 1

The arrangement was okay. Most of the instructors were not doing better only two who did it excellently. Mostly at seed extraction site, we did not understand very well. And about the medicinal plants we need an old man who knows well about the medicinal plants (to explain how they used them to treat people long time ago). Nursery arrangement was okay. Also we were served well with juice since the sun was very hot and in general the staff was very cooperative and too motherly.

Individual 2

Arrangement was okay. Instructors were good.

We were happy about it all and from now we shall start planting trees since some seeds were provided to us to plant. I have trees at home but I don't know the names all are thorny although we use them as shade.

I have also planted Azadarachta indica (Mualuvaini [Kam.]) and I use this as medicinal plant sometime I boil and wash small babies with. Also I have planted Tamarindus indica (Muthumula [Kam.]) of which I use the fruit for making porridge. We would like to learn more if we can be called for a course.

Individual 3

All was good in general.

I have known how to plant trees. Before, I used to dig a hole and plant the seedling without putting back the top soil because I thought the top soil was bad for seedlings. Now since our place is so dry and we get water from very long distance I will start using the catchment methods I have learned. I have planted some mango trees and this is doing well here. The instructors were good we understood everything Kiswahili and Kikamba languages. I have learned how to water my seed bed since before I used to pour some water straight removing the seeds out and every time I used to squeeze the seeds inside again.

The comments seem to be showing the effectiveness of this seminar, especially for the person who already planted trees to see the appropriate techniques and correct their wrong way.

7. SOME RECOMMENDATIONS FOR NEXT FIELD SEMINAR

Propaganda

1. The name of Kitui Social Forestry Training Centre should be available on the information poster instead of the name of project so that farmers can know from where the activity is coming.
2. Banner should be prepared to notice the event at the entrance.
3. Training Course Brochure should be given to the participants so that the participants eager to learn more about social forestry techniques can easily make contact to attend the courses in Kitui Centre.
4. Purpose for seminar be put on the posters e.g. Panda Miti Kwa Maisha Bora.
5. Involve many other people in publicizing the event e.g. FD, Agriculture Officer, Teachers etc.

Presentation

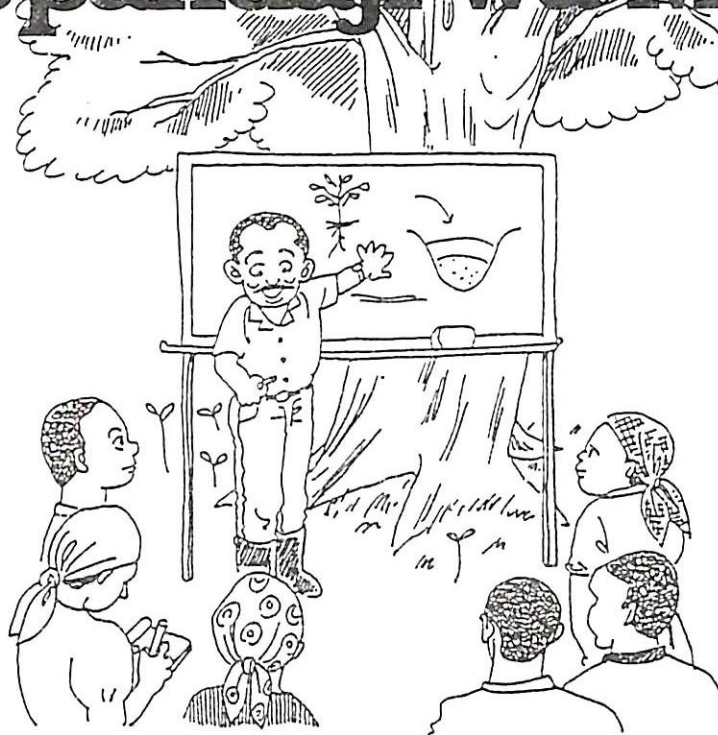
1. The presentation of each section should be refined within 10 to 15 minutes. Many participants got so tired because of a lot of information and long time to be patient, some of the school children were even sun-stroked.
2. Number of holes for tree planting practices should be around 10 to 12 to cover the enough number of demonstrations.
3. Need more instructors to avoid instructor fatigue.
4. Scale down presentation material to fit the audience - give basic practices.
5. Emphasize demonstrations and limit verbal presentations because of literacy level of audience.

Catering

1. Food for organizer should be prepared at Kitui Centre in advance and only cooked on the site, as we realized the acquisition difficulty and the expensive cost of the food and its materials.
2. Centre catering section be involved.
3. Increase quantity of quencher, seemed a good motivator.
4. Need models of Agroforestry practices next time.

Appendix I. Announcement Poster

Siku ya Kukutana kwa Upandaji wa Miti



Tarehe: 26 / 3 /1993

Saa: Wakati Wowote Kuanzia

Saa Mbili Mpaka Saa Tisa Na Nusu

Mahali: Mathima Chief's Camp

KENYA / JAPAN Social Forestry Training Project

Appendix II. List of Equipment and Materials

Page 1

Item	Quantity	Unit	Procure	Discription
Ropes	120	Meters	Centre	Enclosure
Posts	15		Site	Enclosure
Banner				Not Prepared
Shoulder Belt	10		Centre	Instructor Identifiers
Registration Form (Farmers)	40	Paper	Centre	Registration
Registration Form (Schools)	5	Paper	Centre	Registration
Stamper	1		Site	Thumbmark
Clock	1		Centre	Registration
Label Boards	8		Centre	Site Identification
Mounting Tables	4		Site	
Benches	5		Site	
Manila Papers	30		Centre	
Markers	20		Centre	In Various Colour
Display Boards	10		Centre	120 cm x 120 cm
Stands for above	10		Centre	Hight 90 cm
Flip Chart Boards	2		Centre	60 cm x 90 cm
Flip Chart Stands	2		Centre	Hight 90 cm
Flip Charts	10		Centre	
Indicating Poles	8		Site	Kilawa(Glewia bicolor)
Usefull Tree Samples	10		Centre	On Board
Medicinal Plants Samples	10		Centre	On Board
Chart of Tree Uses	1		Centre	From Textbook
Seed Samples	6	Species	Centre	Demonstration
Seed Samples Board	15	Species	Centre	Display
Scateur	1		Centre	Seed Pre-Treatment
Plastic Sheets	2		Centre	Seed Collection
Portable ladder	1		Centre	Seed Collection
Hooked Pole	1		Centre	Seed Collection
Rope	1		Centre	Seed Collection
Small Cloth Bag	1		Centre	Seed Collection
Pestle	1		Centre	Seed Extruction
Mortar	1		Centre	Seed Extruction
Tin Cans	4		Centre	Seed Containers
Seed Labels	4		Centre	Seed Containers
Jikos	2		Centre	Seed Pre-Treatment
Charcoal	0.5	Bag	Centre	Seed Pre-Treatment
Sufurias	5		Centre	Seed Pre-Treatment
Metal Cup	1		Centre	Seed Pre-Treatment
Sack	1		Centre	Seed Pre-Treatment
Knives	6		Centre	Seed Pre-Treatment
Germination Boxes	8		Centre	Seed (6), Nursery (2)
Soil	4	Wheelbarrows	Site	Nursery Tech. & Est.
Sand	4	Wheelbarrows	Site	Nursery Tech. & Est.
Manure	4	Wheelbarrows	Site	Nursery Tech. & Est.
Ash	0.5	Wheelbarrows	Site	Nursery Tech. & Est.
Broken Bricks	20	Bricks	Site	Nursery Est.

Item	Quantity	Unit	Procure	Discription
Wheelbarrows	2		Centre	
Soil Sieves	2		Centre	
Jembes	5		Centre	
Pangas	5		Centre	
Shovels	5		Centre	
Slashers	2		Centre	
Rakes	2		Centre	Nursery
Pruning Knives	2		Centre	Nursery
Small Poles	10		Site	Nursery
Watering Cans	2		Centre	Nursery, Planting
Local Watering Can	1		Centre	Nusery
Water	100	liter	Site	Watering
Small Stones	0.5	Wheelbarrows	Site	
Germinated Seedlings	100		Centre	
Dibbler	1		Centre	
Dry Grass	0.5	Wheelbarrows	Site	Seed Bed
Polytubes	100		Centre	Seedlings
Milk Packets	10		Centre	Seedlings
Tins	10		Centre	Seedlings
Seeds (Small and Big)	100	g	Centre	Nusery
Seedlings	20		Centre	Nursery, Planting
Seedling Containers	2		Centre	Nursery, Planting
Charts of Planting and Tending	10		Centre	
Bottles	2		Centre	Bottle Watering
Chart of Home Garden	1		Centre	ICRAF
Charts of Role of Trees in AF	3		Centre	ICRAF
Charts of Agroforestry System	5		Centre	ICRAF & Textbook
Charts of AF Techniques	5		Centre	From Textbook
Charts for Soil Conservation	2		Site	Soil C. Office
Video Camera	1		Centre	
Cameras	2		Centre	
Water Jerricans 20 L	6		Centre	
Water Jerricans 10 L	2		Centre	
Water	60	litres	Mutomo	Drinking
Quencher	20	litres	Centre	Drinking
Water Bucket	1		Centre	
Water Basins	2		Centre	
Water Jars	2		Centre	
Glasses	10		Site	
Detergent Powder	1	Packet	Centre	
Seeds for Distribution			Centre	Distribution
Packets of Polytubes			Centre	Distribution
Brochures	1000		Centre	Kam, Swa, Eng.
Stickers	400		Centre	Distribution

Appendix III. Registration Form for Farmers

Page

FIELD DAY REGISTRATION FORM (Farmers)

PLACE : MATHINA LOCATION
 DATE : 26/3/1993

NO.	TIME	NAME	AGE	P. O. Box	LOCATION	DIVISION	SIGNATURE
		Mr.					
		Mrs.					
		Miss.					
		M		P. O. Box			
		M		P. O. Box			
		M		P. O. Box			
		M		P. O. Box			
		M		P. O. Box			
		M		P. O. Box			
		M		P. O. Box			
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		M		P. O. Box			
		M		P. O. Box			
		M		P. O. Box			
		M		P. O. Box			

Appendix V. List of Instructors and Organizers

INSTRUCTORS:

NO.	TOPIC	NAME	DESIGNATION	DEPARTMENT
1.	Registration	Mrs. B. N. Kusinga	LCSSO	C. S.S.O
2.	Introduction	Mr. N. M. Muniafu	Training Officer	S.F.T.P
3.	Useful Tree Species	Mr. J. Nguniko	Extension Head Foreman	S.F.T.P
4.	Seed Collection	Mr. Lucas Rateng	Seed Technologist	S.F.T.P
5.	& Pretreatment	Mr. R. O. Nyambati	Assistant Research Officer	S.F.T.P
6.	Nursery Establishment	Mr. E. Mutie	Forester Extension	F.D
7.	Nursery Techniques	Mr. S. Mbingu	Nursery Foreman, Pilot Forest	S.F.T.P
8.	Planting & Tending	Mr. W. K. Bii	Asst. Training Officer	S.F.T.P
9.	Techniques	Mr. N. Omambia	Technician,	S.F.T.P
10.	Agroforestry	Mr. J. K. Mungai	Maneger, K.AF. Centre	M.O.E
11.	Soil & Water Conservation	Mr. A. Mushyoka	S.W.C.O	M.O.A
12.	Guest of Honour	Mr. Obiero	D.O. Environment	M.E.N.R

OTHER ORGANIZERS:

13.	Mr. J. K Cheboiwo	Project Manager	S.F.T.P
14.	Mr. S. Ogawa	Japanese Training Expert	S.F.T.P
15.	Mr. Hirota	Japanese Training Expert	S.F.T.P
16.	Mr. M. J. Otieno	Photography & General Arrangements	S.F.T.P
17.	Mrs. Catherine Kang'alikya	Assistant	S.F.T.P
18.	Mrs. Redempter Mutembei	Assistant	S.F.T.P
19.	Miss. Franscisca Mutiso	Assistant	S.F.T.P
20.	Miss. Rose. Mbithi	Assistant	S.F.T.P
21.	Mr. Samuel Merema	Assistant	S.F.T.P

DRIVERS:

22.	Mr. C. Oloo Ndege		S.F.T.P
23.	Mr. Peter Kinyanjui		S.F.T.P
24.	Mr. Peter Kiilu		S.F.T.P
25.	Mr. James Mbugua		S.F.T.P
26.	Mr. Solomon Munywa		S.F.T.P

NB:	
LCSSO	Locational Culture & Social Services Officer
C.S.S.O	Culture & Social Services Office
F.D	Forestry Department
M.O.A	Ministry of Agriculture
D.O	District Officer
S.W.C.O	Soil & Water Conservation Officer
S.F.T.P	Social Forestry Training Project

