SELECT TARGET FARMERS FOR FARM FOREST

ESTABLISHMENT IN 1998 FROM

THE TARGETS OF SFTP(II)

compiled by

Ali Atanas, Hiromi Yamauchi

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Social Forestry Extension Model Development Project

(SOFEM)

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Summary

Social Forestry Extension Model Development Project (hereinafter referred to as 'SOFEM' or 'the project') commenced immediately after the termination of Social Forestry Training Project phase II (hereinafter referred as 'SFTP II ') in November 1997.

SOFEM aims to develop a social forestry extension model for semi-arid areas in Kenya through establishment of farm forests. The project decided to select targets for farm forest establishment in 1998 out of the previous targets dealt with in extension approaches during SFTP II, because the project did not have enough time to select new targets from unfamiliar farmers or groups.

The process of selection of new targets consisted of three stages, the pre-selection, the first selection, and the final second selection.

The pre-selection was carried out from March to April 1998 by using existing data of surveys conducted during SFTP II . From the aspects such as location and provision of technical advices from other organizations, 15 model farmers out of 22 were selected as target candidates, six individual private plantations out of eight, one group private plantation out of two, and 25 small scale nurseries out of 70 were selected.

The first selection was conducted in April 1998 mainly by using questionnaire. The main criteria of the first selection were agrocrimatic zone, tree planting and nursery activities and prticipation of group members. As the result, nine model farmers out of 15, one individual private plantation out of six, and 12 small scale nurseries out of 25 were selected.

Before conducting the final second selection, the project requested the 12 small scale nursery groups to select a representative among members by themselvs.

The final second selection were carried out from June to July 1998 by using the quetionnaire of the second selection survey. Considering the results of the survey, the criteria to select the targets were decided as follow; accessibility of Forestry Department Technical Assistants, willingness on farm forest establishment, and adoption of techniques. According to the criteria, each two farmers in Central Division and Kabati Division were selected. However, these criteria could not select targets in Chuluni Division, hence, two farmers in Chuluni Division were selected by added criteria, hence income on forestry and farm size.

Finally, six farmers were selected as targets for farm forest establishment in 1998.

1. Introduction

Social Forestry Extension Model Development Project (hereinafter referred to as 'the project') has been established in succession to Social Forestry Training Project II (hereinafter referred to as SFTP (II)) in November 1997. During SFTP (II)some extension approaches such as model farmer, small scale nursery had been conducted to investigate what kind of approaches are appropriate for social forestry extension. Following this, the project aims to develop a social forestry extension model through establishment of farm forests in semi-arid areas .

The project decided to select targets for establishment of farm forests in the first year from the previous targets of extension approaches conducted in SFTP(II), because the project did not have enough time to select new targets from unfamiliar farmers or groups.

The process of selection of new targets consisted of three stages. The first stage was the pre-selection of target candidates by the existing data of the surveys conducted during SFTP (II). The second stage was the further selection of target candidates by the first selection survey, which was conducted by means of an interview with the questionnaire by front-line extension agents in March and April in 1998. Finally, at the third stage, the targets were selected among the target candidates by the second selection survey conducted by senior staff of the concerning sections of the project in June and July in 1998.

This report was written to show the process of selection of the targets for farm forest establishment in 1998.

2. Pre-Selection by the existing data

2.1 Objective

The former extension section of SFTP(II) dealt with targets of each extension approaches as follows; 22 model farmers, eight individual private plantations, two group private plantations, 70 small scale nurseries by women's groups, and 18 small scale nurseries by schools. They were located in five locations scattered in Central, Yatta, Kabati, and Chuluni Divisions.

On the other hand, the project was planed to have less than 10 targets for farm forest establishment in the three Divisions in the first year considering the practical condition with time and manpower limitation.

It was difficult to select around 10 new targets from 120 old targets at once, so the project decided to narrow down target candidates from the old targets by using existing data as the first step.

2.2 Direction and Methodology

The project decided to select new targets for farm forest establishment from the old targets of three previous extension approaches; model farmer, private plantation by individual and groups, and small scale nursery by groups. The small scale nursery by schools did not seem to fit for targets of farm forest establishment, because farm forests would be established on individual farms. As concerning approaches to the groups, they can be expected to disseminate techniques or knowledge on farm forest establishment within the groups immediately, although the project will support a member of each group to establish farm forest.

The targets of farm forest establishment in 1998(the first year) are expected to play a role of demonstration and to improve their tree planting activities visibly. Hence, they are requested to meet the following conditions;
① to have trees already grown to some extent, which will be tended and used as a desirable farm forest.
② to have eagerness or a concrete plan for tree planting in future.
③ to be expected to disseminate techniques or knowledge to others.
④ to have average conditions on tree planting like rainfall, distance to a water source, slope of farm in order to be followed by other farmers.
⑤ to have average socio-economic conditions in order to be a model for other ordinary farmers.

According to the conditions, some items of the existing data on each approach, such as status of tree planting, eagerness for forestry activities, techniques implemented, and impacts on others, were picked up and reviewed to compare each old target and select new target candidates.

This pre-selection used the existing data of the following surveys which were conducted in March and April in 1997 by the former extension section of SFTP (II) ; 「Baseline survey and impact assessment for private plantation」, 「Questionnaire of registered model farmer」, 「Questionnaire of registered small scale nursery」. This pre - selection was carried out from March to April in 1998.

2.3 Result

2.3.1 Model Farmer

In SFTP (II) there were 22 model farmers in five locations, Matinyani, Kathivo, Kyangwithya West, Nzambani and Kwavonza.

Among them, six model farmers located in Kwavonza had received quite a lot technical assistance and material support from Social Forestry Training Project over 10 years. It meant that these farmers had completely different condition from that of ordinary farmers, hence they were regarded not to be suitable for new targets. Besides it did not seem to be good that the project concentrated input on a particular area. Therefore the project decided to remove model farmers located in Kwavonza from the new target candidates.

As for the remaining 16 model farmers, their performance and eagerness on tree planting and impacts on others were compared based on some items of the existing data such as the number of trees planted in the year (1996), purposes of tree planting, tending techniques implemented, survival rate, influences to neighbours, purposes of tree planting in future, future plans of tree planting and their reasons (See Annex1). However, most items did not show define differences between farmers to select candidates.

As for the item of " tending techniques conducted", five farmers conducted only spot weeding and watering or slashing, so that they seemed to be inadequate for the new target candidates, because they could not play a role of demonstration of intensive tree planting technology developed by the project. However, their performances on tree planting activities were not bad according to the data and the project staff's observation although they carried out little tending techniques. Then these five farmers remained as the target candidates for the next step selection.

Only one model farmer who planted little trees last year (1996) and did not influence others was removed because she seemed to be unstable for the target of farm forest establishment.

Finally, 15 model farmers out of 22 were selected as the target candidates at this stage.

2.3.2 Private Plantation

SFTP(II) had eight individual private plantations initially. However, when the existing data was reviewed, it revealed that one of them died and the another did not cooperate to the survey due to busy work as a chief (See Annex2).
As a result of this, these two individual private plantations were removed and then six individual private plantations were remained, which are located in Kabati Division.

As for private plantation by groups, initially two groups conducted private plantations, however one of them could not continue with this activity. Hence, only one group remained at this stage.

2.3.3 Small Scale Nursery

Seventy small scale nurseries by women's groups were conducted in SFTP(II). Forty groups out of 70 were removed from new target candidates, due to the same reason as model farmers, they were located in kwavonza.

The following items of the data were reviewed on the remaining 30 groups in order to grasp their execution and eagerness on nursery activities and influence on surrounding people; current main activities, number of seedlings produced last year, self-help effort at producing seedlings, sources of new techniques, participation to tree planting, encouragement of seedling producing to surrounding farmers or groups and so on (See Annex3). However most items did not give critical points to decide which old targets were suitable as new targets.

Only the item of "information source" contributed to manifest unsuitable farmers. It revealed that five groups got technical assistance from other institutions. The project did not want to support the farmers assisted by other institutions to avoid confusion to the farmers which might occur due to technical differences. Hence, they were removed from new target candidates of farm forest establishment .

Other 12 groups out of the remaining 25 groups did not seem to be appropriate for new targets, because 9 groups out of the 12 did not plant trees as groups and the other three groups did not disseminate techniques or knowledge to others. However, since these 12 groups did nursery activities well according to the project staff's observation, they were retained as the target candidates. Therefore, 25 groups out of the 70 groups were selected by using the existing data.

2.4 Conclusion

Through this selection based on the existing data of the surveys, 15 model farmers were selected out of 22, six individual private plantations were selected out of eight, one group private plantation out of two was retained, and 25 small scale nursery groups out of 70 were selected. These target candidates would be selected further by the next step selection named the first selection survey.

3. The first selection by the first selection survey

3.1 Objective

Following the pre-selection by using the existing data, the first selection survey was conducted to select target candidates further from other points of view which were missing in the existing data.

3.2 Methodology

The survey was conducted by visiting each target candidate and making an interview with the questionnaire by the extension agents employed by the project in April 1998.

During the preparation of the survey, the project decided to confine the target areas within Agroclimatic zone IV or V, so that this condition was also considered when the results of the survey were analyzed.

3.3 Results

3.3.1 Model Farmer

The survey was conducted to 15 model farmers selected by the existing data. Two farmers among them were removed because they were located in Agroclimatic zone III.

Other two farmers who planted much more varieties of tree species and number of trees beyond the average were removed from the target candidates since there was little room to develop their forestry activities.

On the other hand, another two farmers planted much less species and number of trees than the average. They were also removed from the target candidates because

they seemed to lack eagerness on tree planting or to have severe conditions for tree planting.

In conclusion, six farmers out of 15 were removed and nine model farmers were retained(See Annex4).

3.3.2 Private Plantation

As for the individual private plantation, six farmers had remained after the pre-selection. Five farmers out of six were removed at this stage, because they were located in Agroclimatic zone III.

Although he planted less variety of species and less trees than the average, the remaining one seemed to be suitable a target candidate from following aspects; making water catchments, implementing clear weeding, influencing surrounding people, being a member of a group, and being interested in farm forest establishment (See Annex5).

As for the group private plantation, only one group had remained but this group was removed because it was located in Agroclimatic zone III.

In conclusion, only one private plantation by individual was investigated by the following survey whether it would be suitable as a target of farm forest establishment.

3.3.3 Small Scale Nursery

Twenty five small scale nurseries had been selected by the existing data. Seven groups out of 25 were removed, because they were located in Agroclimatic zone III.

Five groups which had less than half members desiring establishment of farm forests were also removed from the target candidates. However one group out of the five was repetition of the group by the above conditions, thus 14 groups were removed at this stage.

Besides, the survey could not be conducted to other two groups due to unavoidable circumstances, then these two groups were also removed(See Annex6).

Eventually, 12 groups were selected out of 25 by the first selection survey.

3.4 Conclusion

Through conducting the first selection survey including the condition of Agroclimatic zone, nine model farmers were selected out of 15, one individual private plantation was selected out of six, no group private plantation remained, and 12 small scale nursery groups out of 25 groups were selected.

These target candidates of farm forest establishment were then subjected to the next stage of selection by the second selection survey.

Table 1 Selection process of target candidates from pre-selection to the first selection

		Model Farmers		Private Plantation (Indivisual)		Private Plantation (Group)		Small Scale Nursery	
		No.	Balance	No.	Balance	No.	Balance	No.	Balance
Targets of SFTP II extension approach		2 2	2 2	8	8	2	2	7 0	7 0
Targets removed by pre-survey	Targets located in Kwabonza	6	1 6	0	8	0	2	4 0	3 0
	Targets removed by the existing data(except Kwabonza)	1	1 5	2	6	1	1	a) 5	2 5
Targets removed by the first selection survey	①Agroclimatic zone III	2	1 3	5	1	1	0	7	1 8
	Condition ② except ①	b) 2	1 1					d) 5	1 4 ※1
	Condition ③ except ①	c) 2	9					e) 2	1 2

★Condition of a)～e)
   a) The groups were provided new techniques and information from other institutions.
   b) The farmers who have planted quite many species and a large number of trees beyond the average. It seems that there is little room of them to be modified.
   c) The farmers who have planted quite little species and a small number of trees under the average. It seems that they are not eager to plant trees or the conditions for planting trees are sever.
   d) The groups have less than half members who want to establish farm forests.
   e) The data of the survey could not be collected under the unavoidable circumstances.

★※1　One farmer is repetition of the farmer located in Agroclimatic zone III.

4. Selection group representatives by small scale nursery groups

Twelve small scale nursery groups were selected as new target candidates by the first selection survey. Although the project decided to deal with groups as new targets as well as individual farmers because groups have some advantages compared to individual farmers, farm forests will be established on an individual farm in fact. Therefore the project requested the twelve groups to hold a meeting and choose one among the members as target candidates before the second selection survey is conducted.

The group meeting was also an important part of the process to select target farmers, so that the minutes were kept by the project staff who attended the meetings. The twelve groups held the meetings from 25th June to 1st July. Since the whole schedule to select target farmers had been tight, the groups had to hold meetings on short notice, which might have caused low attendant rate in some groups.

The meetings started with explanation on criteria to select one member by the project staff. The criteria to select a member in small scale nursery groups were as follows;
· Accessibility to other members of the group and extension agents
· Interaction with other members of the group
· Interest in tree planting activity
· Status of past tree planting activity
· Commitment to tree planting activity in the group
· Education/ training on tree planting
· Labour availability
· Accessibility to water source

The project wanted to select average farmers as targets of farm forest establishment so that ordinary farmers would be able to follow them in future. Therefore the project staff indicated simultaneously the average of some items on the criteria which they got at the socio-economic survey conducted in March 1998 (See Annex10).

After the explanation by the project staff, group members discussed freely. According to the minutes, they seemed to think that involvement of farm forest establishment was an extra tough work and qualifying for target candidates was difficult (See Annex11). Finally they chose one member based on the criteria mentioned above, especially from aspects such as land availability, accessibility to members, accessibility to water source, labour availability, economically average, and commitment in tree planting. Some groups also commented that the one selected

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would be assisted by the other members. One group asked the project staff whether the selected member would be provided any seedlings from the project, although the project had already announced not to provide any material support to farmers at the first selection survey.

5. The final selection by the second selection survey

5.1 Objective

During selection targets for farm forest establishment, the project decided to select each two farmers per division in three divisions, Central , Kabati, and Chuluni. Therefore the final second selection was conducted to select six farmers from the 22 candidates, nine model farmers, one private plantation and 12 small scale nurseries, in the first selection.

5.2 Methodology

Prior to the actual survey, the 12groups which were selected during the first selection exercise were asked to convene meeting to select one candidate each to be surveyed during the second selection survey as mentioned above.

The actual survey took place from June to July 1998 to the candidates selected during the first selection exercise. The questionnaire was administered by KEFRI, JICA and FD staffs and during which time , a rough sketch map of the farms were made.

After the survey, the data was compiled and analyzed. A joint selection meeting held on 12th August 1998 and also attended by both KEFRI, JICA, and FD staff adopted three criteria for selection i.e.

- Accessibility to FD TAs
- The farmer's willingness for the activity
- Adoption of tree planting and tending techniques developed during SFTP II

Farmers who had good accessibility, very much willing, adopted most of the SFTP II techniques and ended with the highest score were to be selected.

5.3 Result

5.3.1 Serving for criteria

In fact, the survey was conducted on 21 farmers instead of 22 since one model farmer

showed no interest in the activity by dishonoring the survey appointment.

During the selection process, one farmer was also eliminated due to the fact that she had misappropriate some group funds and hence could not be a good model to the rest of the members. In this case, 20 farmers were then subjected to three selection criteria as follows;

Accessibility

Out of the 20 farmers, 18 were accessible to the FD TA while two were not. The two are located in Nzangathi Location which was felt to be a bit far to be covered by the TA.

Willingness

Here the results indicates that out of the 20 farmers, 12 were very much willing while eight were fairly willing.

Adoption

As for adoption, 14 farmers had done quite a lot i.e. local seed collection, weeding, construction of micro chatchment, fencing and pruning while six had it fairly done.

5.3.2 Points scoring

The farmers scored one point when they met one of the above criteria. Then , according to the score, two farmers were selected finally in each division as follow.

Central Division

Here, out of the seven farmers, one was disqualified for the reason mentioned earlier. Therefore, the remaining six farmers were subjected to the three earlier mentioned criterias. From the six, two scored three points each, one scored two points and the remaining three scored one point each. In this case, the two farmers with three points were qualified for the activity and hence selected.

Kabati Division

Here, there were seven farmers in total and were subjected to the three criterias. From the seven , two scored three points each and hence selected.

<u>Chuluni Division</u>

Here there were again seven farmers in total. As far as the points scoring is concerned, three farmers scored three points each and the remaining four scored two points each. In this case, it was decided by the selection team to add one more criteria i.e. income on forestry activity. This criteria was decided upon since it is assumed that farmers who has earned at least some income on forestry can be very much willing and eager to plant more trees. Among the three farmers, only one had some income of Kshs.2000 from the sale of forest products while the other two did not and thus gained one more point to make a total of four points and therefore selected. Still one more farmer remained to be selected and again the selection team decided to add one more criteria i.e. farm size (different from the already selected farmers to test farm forest on stratified land size). The remaining two farmers were therefore subjected to this criteria. From the two, one had 10ha. and the other one 2ha. of land. As far as stratification is concerned, one farmer already selected in Kabati Division had 2ha of land thus from among the two farmers subjected to this criteria, the one with 10ha of land qualified and therefore selected.

Table 2 shows the process of final selection procedure.

Table 2 Points scored for the final second selection

No.	Name	Division	Location	Ceiteria Accesibility	Willingness	Adption	Total score	Extra criteria Income on forest Kshs.	Points	Farm size Ha.	Points	Total score
1	Mrs.Lucia Mutava	Central	Kyangwithya W	1	X	X	1					
2	Mrs. Betrice Nzuki	"	"	-	-	-	-					
3	Mrs. Josephine Munyao	"	"	1	1	1	3					
4	Miss Kasyoka	"	"	1	X	X	1					
5	Mr.Pius Matindia	"	"	1	1	1	3					
6	Mrs. Mali Muthui	"	"	1	X	X	1					
7	Mr. Mulwa Mitau	"	"	1	X	1	2					
8	Mr. Jilius Mushoka	Kabati	Matinyani	1	1	X	2					
9	Mr. Munyao Mwatu	"	"	1	X	1	2					
10	Mr. Willy Mwalili	"	"	1	X	1	2					
11	Mrs. Joyce Kisuki	"	"	1	1	X	2					
12	Mrs. Betrice Mutwii	"	Kathivo	1	1	1	3					
13	Mr. Mwaka Muli	"	"	1	1	1	3					
14	Mr. Dominic Mulu	"	"	1	X	1	2					
15	Mrs. Mary Mwanzia	Chuluni	Nzangathi	X	1	1	2					
16	Mrs. Fridah Mutyambai	"	Nzambani	1	1	1	3	2000	1	3.5		4
17	Mr. Muthui Matii	"	"	1	X	1	2					
18	Mrs. Edith Kyenza	"	"	1	1	1	3	Nil	X	10	1	4
19	Mr. Maluki Kitheka	"	"	1	1	X	2					
20	Mr. David K. Ngonde	"	Nzangathi	X	1	1	2					
21	Mr. John Wambua	"	Nzambani	1	1	1	3	Nil	X	2	X	3

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6. Recommendation

Involvement of many concerned staff members to make final selection is important to make them recognize their task. Therefore, it is recommended that a meeting should be held involving many concerned staff to decide the target finally as we did.

On the other hand, being reflected on the process of selection targets, the following point should be mended in future. Although the questionnaire involved quite a lot of items, most of them were not considered to select targets.

One of the reasons was that opinions of members changed between the time of making the questionnaire and the time of analyzing the results. Generally, staffs tended to include so many items when making a questionnaire emphasising their importance. However, during analysis of results, most of them forget their insistence.

The other reason was that some items on the questionnaire could not be used as criteria, because they did not show any tendency/consistency due to diverse responses.

In conclusion, it is recommended that a questionnaire should be made to be simple based on the criteria which we used this time. In addition, minutes of all discussion should be made to confirm previous discussions. This is expected to help in ensuring consistency of a series of discussion.

Annex1 Performance and Eagerness on Tree Planting by Model Farmers

No.	Name	Division	Location	Sub-location	Sex.	Tree Planting Activities			Seedlings planted last year					Purpose of planting						
						Tree Planting	Tending	Nursery	Compound	Shamba	Graizing L.	Boundary	Other	Fire.	Ornam.	Medic.	Agro.	T/Pole	Fruit	Others
1	M. Mwatu	Kabati	Matinyani	Katheoni	M	1	1	1	25		75			1	1			1	1	
2	R.Matambi	Kabati	Matinyani	Mutulu	M	1	1	1					Woodlot100	1	1			1	1	
3	P.Nzai	Kabati	Matinyani		M	1	1	1	50		50			1	1			1	1	
4	J.Musyoka	Kabati	Matinyani	Kalumani	M	1	1	1	25			75		1	1				1	Soil Con.
5	K.Malonza	Kabati	Kathivo	Kithumula	M	1	1	1	100					1	1				1	Shade
6	B.N.Mulu	Kabati	Kathivo	Kwamtonga	M	1	1	1					Woodlot100	1						Shade
7	M. Mwaka	Kabati	Kathivo	Kalandilo	M	1	1	1	80					1				1		Shade
8	M.Sivi	Central	Kyangwithya W.	Mbnoyani	M	1	1	1	20	40		40		1	1			1		
9	M.Masai	Central	Kyangwithya W.	Mulutu/Ndumani	M	1	1	1	30			70		1				1	1	Fodder
10	P.Kiilu	Central	Kyangwithya W.	Mtoonii	M	1	1	1	59	41				1	1		1		1	
11	M. Kasina	Central	Kyangwithya W.	Ndunwni	M	1	1		70	30				1	1					Shade,Windbreak
12	M.Mitau	Central	Kyangwithya W.	Mbusyani	M	1	1		50	30	20			1	1			1		
13	M.Kitheka	Central	Nzambaani	Kyanika	M	1	1	1	50	50				1	1			1		
14	J.Wambua	Central	Nzambani	Maluma	M	1	1	1	12	10		36	Woodlot42	1	1			1	1	
15	D.K.Ngond	Central	Nzambani	Kaluva	M	1	1	1		50	50			1	1			1	1	
16	Muthinda	Central	Nzambani	Ithumula	M	1	1		26					1	1					Windbreak
17	B.Maeke	Yatta	Kwabonza	Mikuyuni	M	1	1	1	90	10				1	1					Shade
18	M.Mutava	Yatta	Kwabonza	Mikuyuni	M	1	1	1	*		*			1				1		
19	J.Munyalo	Yatta	Kwabonza	Nzangatheni	M	1	1	1	50	50				1	1	1	1	1		
20	F.M.Mwesi	Yatta	Kwabonza	Mikuyuni	M	1	1	1	40	10	30	20		1	1	1	1		1	
21	Jermiah	Yatta	Kwabonza	Mikuyuni	M	1	1	1	50	25	25			1	1		1			
22	A.Ngulo	Yatta	Kwabonza	Mikuyuni	F	1	1	1	50	40		10		1	1				1	Shade,Windbreak

Source: Questionnaire of registrated Model Farmers, SFTP II, 1998

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No.	What kind of tending work have you done?							Survival rate	Influenced to others			Purpose of tree planting in future					
	Fencing	W.C.	Watering	Weeding	Slashing	C.W.	S.W.		Teach	Came/See	Followed	Firewood	Sale	Agroforestry	Onarmental	Fruit	Other
1	1	1				1		50		1				1		1	
2	1	1	1	1		1		75	1	1	1	1	1	1	1	1	
3	1	1	1	1			1	50				1	1	1	1	1	
4	1	1	1	1	1		1	25				1				1	1(timber&pole)
5	1	1		1			1	75		1		1		1			
6	1	1		1		1		75		1	1			1		1	
7	1	1		1			1	50		1	1	1		1		1	
8			1				1	84		1	1	1	1				1(fodder)
9			1				1	45		1		1	1				
10			1				1	55		1		1				1	
11			1				1	37		1		1			1		1(windbreak)
12	1		1	1			1	60		1		1	1	1		1	
13			1					90	1	1		1	1	1	1		
14			1		1		1	90		1		1	1		1	1	
15		1	1		1			90	1	1	1	1	1			1	
16							1	10		1	1	1			1	1	1(poles&timber)
17	1	1	1			1		20	1	1		1	1		1	1	
18	1	1	1	1				48	1	1		1			?	1	
19	1	1	1	1			1	40				1	1			1	
20							1	10			1		1			1	
21	1	1	1				1	40	1			1					
22	1	1		1				10	1			1	1	1			1(windbreak)

W.C.; Water Catchment

C.W. : Clear Weeding

S.W. : Spot Weeding

No.	future plan to improve activities	more trees		Reason
		Yes	No	
1	start tree nursery to sell seedlings of furit and tube species.			
2	construct more water catchment	1		
3	tree planting for timber and fruit	1		to sell and get money
4	continue same	1		
5	fruit trees	1		
6	continue more terraces	1		
7	plant more trees, practice agroforestry	1		get money
8	start a tree nursery	1		to gain something
9	to set aside a piece of land for tree planting only. divert the run-off to this area	1		surplus sell to institution
10	use mamure when planting seedlings	1		for firewood
11	construct a big water tank, rainforce the fence to keep of animals	1		
12	construct a water tank. plant trees in terraces	1		for future use
13	construct a big tank for watering the seedlings during drought	1		
14	start own nursery to raise seedlings of his choice	1		
15	do intensive fencing	1		firewood,poles building and sell, fruit soil conservation
16	have own nursery using local materials	1		
17	look for means to water trees & proper tending	1		to get more fruit for nutrituin and sell
18	establish private plantation to sale	1		has no fruit trees and poles to sale
19	difficult to plan for furture due to dry wether	1		woodlot,fruit
20	establish private plantation & employ, good planting techniques for water survival rat	1		
21	construct a water tank, reinforce the fence to keep off animals			
22	to have own nursery, prepare planting holes early enough	1		fruit for food and sell, woodlot for timber

1 7

Annex2 Situation of Private Plantation

Q.No.	Name of target	Division	Location	Remark
1	Mr.Mutinda Kilonzi	Kabati	Matinyani	
2	Mr.Willy Mwalili	Kabati	Matinyani	
3	Mr.Kivindyo Munuve	Kabati	Matinyani	
4	Mr.Daniel Malombe	Kabati	Matinyani	Mr.Daniel died and his wife is not interesting in private plantation.
5	Mr.Mangue Mutia	Kabati	Matinyani	
6	Mr.Mukulu Ngui	Kabati	Matinyani	
7	Mr.Killy Kilinga	Kabati	Matinyani	He was too busy to cooperate with the survey, because he was a cheif.
8	Mr. Benard M. Mutua	Kabati	Matinyani	
9	Syelei Women's Group	Kabati	Matinyani	
10	Kikanya Women's Group	Kabati	Matinyani	The group did not continue activities on private plantation.

Source: Baseline survey and impact assesment of private plantation, SFTP II , 1998

Annex 3 Nursery and tree planting activities by small scale nursery

No.	Name of group	Location	Sub-location	Member F	Member M	establish (year)	main reason to organize the group	Main activities now cultivation	terrace	tree plant	harambee	merry go.	nursery	other	seedling last yr.	self support local material	Seed	Termite
1	Kakano	K.west	Ndumoni	19	1	1975	cultivation, soil conservation	1							4000	1	1	1
2	Kyaasa	K.west	Utooni	40	10	1975	soil conservation, cultivation	1	1					1	3500	1	1	1
3	kasoka	K.west	Mbusyani	28	8	1989	soil conservation	1	1		1				3850	1	1	1
4	Tungu	K.west	Tungutu	16	2	1974	soil conservation	1	1			1			2500	1	1	1
5	Kitondo	K.west	Mulutu/Ndumoni	24	0	1984	soil conservation				1				4850	1	1	1
6	Ilima	K.west	Mbusyani	21	13	1975	soil conservation, cultivation, bee keeping, goat keeping	1	1		1				4500	1	1	1
7	Nindi nsuka	K.west	Mbusyani	25	6	1972	soil conservation		1						3900	1	1	1
8	Manyula	K.west	Utooni	30	0	1988	soil conservation, cultivation	1	1			1			2500	1	1	1
9	Utethyo	K.west	Mulutu/Ndumoni	20	5	1988	soil conservation, hervesting	1	1						3000	1	1	1
10	Kyeni	K.west	Mulutu/Ndumoni	33	1	1982	soil conservation	1						1	3050	1	1	1
11	Kamwiu	K.west	Tungutu	16	0	1978	soil conservation, growing vegetable for sell	1	1						2500	1	1	1
12	Kikanga	Matinyani	Mutulu	31	2	1963	self help	1	1	1			1		2100	1	1	1
13	Muthinzi	Matinyani	kalimani	30	6	1989	Green belt movement	1	1	1	1				1543	1	1	1
14	Kaunda	Matinyani	Kauma	33	0	1990	terace construction, cultivation, road construction			1				1	1450	1	1	1
15	Manyoleni	Matinyani	Kauma	50	8	1977	self help, Green belt, borehole construction	1		1		1			2500	1	1	1
16	Kyeni	Matinyani	Kyambusia	46	0	1994	tree planting	1		1					1182	1	1	1
17	Kathguni	Matinyani	Kalya	17	3	1992	for tree planting	1	1	1	1		1		3000	1	1	1
18	Syolei	Matinyani	Kalya	31	3	1993	borehole construction	1	1	1					1600	1	1	1
19	Kwa mumo	Kathivo	Kwamtonga	25	6	1991	soil conservation, tree planting		1	1					1603	1	1	1
20	Kalindilo adult.	Kativo	Kalidilo	35	0	1987	self help			1			1		1000	1	1	1
21	Kongoni	Kativo	Kalindilo	16	16	1991	vegetable farming			1			1		1800	1	1	1
22	Muuo wa Mala.	Kativo	Kethumula	27	7	1987	self help. cultivation, merry goround			1	1	1	1		2000	1	1	1
23	Kavalula	Nzambani	Kyanika	23	2	1992	cultivatio, harambee	1					1		2100	1	1	1
24	Mumburi	Nzambani	Kyanika	35	5	1994	brick making and selling			1			1		3000	1	1	1
25	Kawendo	Nzambani	Maluma	28	2	1991	terace, planting, vegetable growing, soil conservation	1		1			1		2200	1	1	1
26	Nzalwani M/G	Nzambani	Ithumala	0	15	1974	cultivation, cotton planting	1	1	1					2300	1	1	1
27	Kyalele	Nzambani	Kaluva	10	3	1997	cultivation, soil conservation	1	1	1		1			1900	1	1	1
28	Meko	Nzambani	Kyanika	17	0	1992	soil conservation, merry goround	1		1			1		2700	1	1	1
29	Akandiwa	Nzambani	Kyanika	34	0	1995	cultivation, basket making	1		1	1			1	2400	1	1	1
30	Kilui	Nzambani	Kaluva	26	2	1985	harambee, cultivation, soil conservation, merry goround	1	1	1	1	1		1	2300	1	1	1

Source: Questionnaire of registered small scale nursery, SFTP II, 1998

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No.	new techniques and information					Participate in tree planting						Did the group encourage other farmers or group					
	Project	DANIDA	KENGO	FD	Other	Yes	No	Peoples p.	Private p.	School p.	Others	Yes	No	Teach	came & showed	followed method	Other
1	1						1					1			1		
2	1						1					1			1		
3	1					1					church		1				
4	1						1					1			1		
5	1						1					1					1
6	1						1					1		1	1		
7	1						1					1			1		
8	1						1					1			1		
9	1			1		1					1 shoping centre	1			1		
10	1						1					1			1		
11	1						1					1			1		
12	1					1			1			1			1		
13	1			1		1			1			1			1		
14	1					1			1			1			1		
15	1					1			1			1			1		
16	1			1		1			1				1				
17	1		1			1			1			1		1	1	1	
18	1					1			1			1			1	1	
19	1				Green belt movement	1			1			1			1	1	
20	1				DAO	1			1			1			1	1	
21	1					1			1			1					
22	1			1		1			1			1					
23	1						1					1		1	1		
24	1						1					1		1	1		
25	1						1					1		1	1		
26	1				Green belt movement	1						1		1	1		
27	1				C.P.K	1					church	1		1	1		
28	1						1					1		1			
29	1						1						1		1		
30	1					1					Earth dam	1		1	1		

Annex 4 The Result of the First Selection Survey for MODEL FARMERS

No.Q	Name	Division	Location	Sub-location	Agroclimatic Zone	Compound Sp.	Compound No.	Shamba Sp.	Shamba No.	Grazing l. Sp.	Grazing l. No.	Boundary Sp.	Boundary No.	Woodlot Sp.	Woodlot No.	Others Sp.	Others No.	Total Sp.	Total No.	more diver trees sify	tend use	inteset F.F Yes	inteset F.F No
1	M.Mwatu	Kabati	Matinyani	Katheuni	IV-2	3	13	4	19	3	10	4	48	5	50			19	140	1			1
2	R.Matambi	Kabati	Matinyani	Mutulu	III-3	7	74	6	201	3	327	5	75	5	146	4	64	30	887	1			1
3	P.Nzai	Kabati	Matinyani	Musosya	III-3	7	21	6	49	6	101	6	92	7	64			32	327	1			1
4	J.Mushoka	Kabati	Matinyani	Kalumani	IV-2	7	74	6	125	7	34	3	120	6	51			29	404	1			1
5	K.Malonza	Kabati	Kathivo	Kitumula	V-2	4	21	6	20	6	8	5	23	2	8			23	80	1			1
6	B.N.Mulu	Kabati	Kathivo	Kwamtonga	V-2	7	49	3	26	5	9	1	2	15	206			31	292	1			1
7	M.Mwaka	Kabati	Kathivo	Kalandilo	V-2	7	92	6	202					5	22			18	316	1			1
8	M.Sivi	Central	K.west	Mbnoyani	IV-2	7	358	6	532			3	34	1	156	1	11000	18	2080	1			1
9	M.Masai	Central	K.west	Mulutu/Ndumani	V-2	10	102	2	6			2	11	4	23			18	142		1		1
10	P.Kiilu	Central	K.west	Mtooni	IV-2	9	31	9	59			2	27			4	2009	24	2126		1		1
11	M.Kasina	Central	K.west	Ndunwni	V-2	7	58	3	24	2	8							12	90		1		1
12	M.Mitau	Central	K.west	Mbusyani	IV-2	11	263	5	43	3	32	2	26					21	364		1		1
13	M.Kitheka	Central	Nzambani	Kyanika	IV-2	6	51	6	115			5	31	2	21			19	218	1	1		1
14	J.Wambua	Central	Nzambani	Maluma	IV-2	7	61	6	59			5	70	5	179			23	369	1	1	1	1
15	D.K.Ngonde	Central	Nzambani	Kaluva	V-2	7	38	6	166			1	35	5	23			19	262	1	1	1	1

Ave. 22 540

299 (Ave. except farmers who planted over 2000 trees)

2 1

Annex 5 The Result of the First Selection Survey for PRIVATE PLANTATION (INDIVIDUAL)

No.Q	Name	Division	Location	Sub-location	Agrocl-imatic zone	Plantation Sp.	Plantation No.	Compound Sp.	Compound No.	Shamba Sp.	Shamba No.	Grazing l. Sp.	Grazing l. No.	Boundary Sp.	Boundary No.	Total Sp.	Total No.	Fencing	Watering	Weeding	Slashing	W.C.	C.W.	S.W.	infl. Yes	infl. No	Teach	Came &saw	Follow	Group member Yes	Group member No	interest F.F Yes	interest F.F No
1	M.Kilonzi	Kabati	Matinyani	Kalia	III-3	8	69	6	80	4	133	4	185	6	497	28	964	1		1			1		1			1					1
2	W.Mwalili	Kabati	Matinyani	Kyamnusya	IV-2	8	40	7	25	4	36			2	10	21	111	1		1		1	1		1			1		1			1
3	K.Munuve	Kabati	Matinyani	Kalia	III-3	5	56	7	58	4	21			7	82	23	217	1		1		1		1	1			1		1			1
4	M.Mutia	Kabati	Matinyani	Kalia	III-3	9	45	6	53	6	56			6	66	27	220	1		1			1	1	1				1	1			1
5	M.Ngui	Kabati	Matinyani	Katheuiyi	III-3	7	18	7	43	6	22	4	19			24	102	1		1			1	1		1				1			1
6	K.Kilinga	Kabati	Matinyani	Mutulu	III-3	5	31	8	53	8	53	7	84	7	90	35	311	1		1	1			1	1			1			1		1
	Ave.					26	321																										

W.C.:Water Catchment
C.W.:Clear Weeding
S.W.:Spot Weeding

2 2

Annex 6 The Result of the Survey for SMALL SCALE NURSERY

No.	Name of group	Division	Location	Sub-location	Agroclimatic zone	Ratio of members planted seedlings	seedlings planted				surviving seedlings				tending techniques							Interest F.F	establish F.F	REMARKS
							0-20	20-40	40-60	60-	0-20	20-40	40-60	60-	Fencing	W. catchment	Watering	Weeding	Slashing	Clear w.	Spot w.			
1	Kakano	Central	K.west	Ndumoni	V-2	3				3				3	1	1		3	2		3	3	3	
2	Kyaasa	Central	K.west	Utooni	IV-2	3		1	1	1		1	1	1	1	1		2	1	1		3	3	
3	Kasoka	Central	K.west	Mbusyani	IV-2	2			1	2	1	1		2				2	1	1	2	2	2	
4	Tungu	Central	K.west	Tungutu	III-3	4	1	3			2	2					1	4	1		4	4	4	
5	Kitondo	Central	K.west	Mulutu/Ndumoni	V-2	4				4	1	2	2				1	4	3		4	4	4	
6	Ilima	Central	K.west	Mbusyani	IV-2	2			1	1		1	1	1	1		2	2	1	2	2	2	2	
7	Nindi nsuka	Central	K.west	Mbusyani	IV-2	2		1		1		1	1	1				2			2	2	2	
8	Manyula	Central	K.west	Utooni	IV-2	4			4		2	2			1			3	1	1	3	4	4	
9	Utethyo	Central	K.west	Mulutu/Ndumoni	V-2	3	1		2	1	1	2	1		1			3	1		1		3	
10	Kyeni	Central	K.west	Mulutu/Ndumoni	IV-2	3	1	2	1		1	2	1		1			2			3	3	3	
11	Kamwiu	Central	K.west	Tungutu	III-3	3				3			2	2	1	2	2	3	2	2	3	3	2	
12	Kikanga	Kabati	Matinyani	Mutulu	III-3	3		2	1	1	1	2	1		1	2			1		3	3	3	
13	Muthinzi	Kabati	Matinyani	kalimani	III-3	4		2			1	2	2		1	2			1		3	4	4	
14	Kaunda	Kabati	Matinyani	Kauma	III-3	4	1	2	1		2	2	1		1	2			1		2	4	4	
15	Manyoleni	Kabati	Matinyani	Kauma	III-3	3	2	2	1		2	2	1		1	2		1	2		3	3	3	
16	Kyeni	Kabati	Matinyani	Kyambusia	IV-2	3	2	2	1	1	1	2	1		1	2		2	2		2	3	3	
18	Syoley	Kabati	Matinyani	Kalya	III-3																			no survey
20	Kalindilo adult.	Kavati	Kativo	Kalidilo	IV-2																			cannot get data
22	Muuo wa Mala.	Kavati	Kativo	Kethumula	IV-2	3	1	2	1		2	2	1			2		1	1		2	3	3	
23	Kavalula	Central	Nzambani	Kyanika	IV-2	4		1	3			1	2	2				4	1	4	2	4	4	
24	Mumbuni	Central	Nzambani	Kyanika	IV-2	3				3			1	2				3		3		2	2	
25	Kawendo	Central	Nzambani	Maluma	IV-2																			no survey due to funeral
28	Meko	Central	Nzambani	Kyanika	IV-2	3				3	1	2			1			3	3	3	1	3	3	
29	Akandiwa	Central	Nzambani	Kyanika	IV-2	3			2	1		1	1					3	3	3	1	3	3	
30	Kilui	Central	Nzambani	Kaluva	IV-2	3				3			1	3				3	3	3	3	3	3	

Note; 1) The figures of the answers stand for the ratio of those answered to all members as follows; 1 stands for 0-25%, 2 stands for 25-50%, 3 stands for 50-75%, and 4 stands for 75-100%.

2) F.F. means Farm Forest.

Annex7 Questionnaire of the first selection survey for model farmer

Interviewer : _____   Date: _____

Division : _____   Location: _____

Sub-location : _____   Name: _____

1. What kind of species and how many trees are there in each following places ?

	Speiecs	No.	Purpose
Compound			
Shamba			
Grazing Land			
Boundary			
Woodlot			
Others			

2. Do you have any plan to improve tree planting activities ?

    1) Yes   2) No

3. If 'yes', how do you want to improve tree planting activities?(Multiple choice)

    1) Plant more trees   2)Diversify tree species

    *3)tend trees for specific usage   **4) Use trees effectively

    5) Others(   )

        * Note;   3) For example, coppicing for getting firewood, cutting branches for   making straight trunks for timbers.

        ** Note; 4) Some farmers planted some trees without knowledge how to use the trees. In such case, please check choice4).

The new project, Social Forestry Extension Model Development Project, started in November 1997, followed the previous project, Social Forestry Training Project (SFTP).

The new project has a plan to establish " farm forests" on individual farms in Kitui District. " Farm forest" is defined a small forest or a group of trees planted on farm including compound, shamba, grazing land to produce firewood, timber/pole, fruit, fodder, shade, and live fence etc. The project will support the farmers mainly by providing technical advices without materials and tools support to establish farm forests. At the same time, the project will request the farmer to cooperate with the project, recoding the process of establishment farm forests or receiving visitors who want to see the farm forests.

4. Are you interested in the farm forest establishment?

    1) Yes   2) No

5. Do you want to establish the farm forests with the project under the above conditions?

    1) Yes   2) No

Asante sana.

Annex8 Questionnaire of the first selection survey for private plantation

(April 1998)

Interviewer : _____ Date: _____

Division : _____ Location: _____

Sub-location : _____ Name: _____

1. What kind of species and how many trees are there on your plantation and in other places on your farm ?

	Speices	No.	Purpose
Plantation (Woodlot)			
Compound			
Shamba			
Grazing land			
Boundary			
Other			

2. What kind of tending techniques have you done? (Multiple choice)

    1)Fencing   2)Water catchment   3)Watering   4)Weeding

    5)Slashing   6)Clear weeding   7)Spot weeding 8)Others(   )

3. Have you influenced any other farmers?

    1)Yes   2)No

4.If 'yes', how have you done?

    1) Teach some techniques   2)Somebody came and saw

    3)Somebody followed methods   4)Others(   )

5. Do you belong to any groups which do activities on tree nurseries, tree plantings or farming?

    1)Yes   2)No

The new project, Social Forestry Extension Model Development Project, started in November 1997, followed the previous project, Social Forestry Training Project (SFTP).

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6. Are you interested in the farm forest establishment?

    1) Yes   2) No

7. Do you want to establish the farm forests with the project under the above conditions?

    1) Yes   2) No

Asante sana.

Questionnaire of the first selection survey for Small Scale Nursery
(April 1998)

Interviewer:_____   Date:_____

Division:_____   Location:_____

Sub-Location:_____   Group Name:_____

Number of group members   Total:_____ (F)_____, M_____)

Number of participants of today's meeting:_____ (F)_____, M_ _____)

1.   Have any group members planted seedlings distributed from the small scale nursery on their farm ?

       1)   Yes   2)   No

2.   If "Yes", how many members have planted the seedlings ?

       (   ) Persons   *   ☐

3.   How many seedlings have you planted on farms ?

    1)   0 - 20 seedlings (   ) Persons   * ☐

    2)   20 - 40 seedlings (   )   ☐

    3)   40 - 60 seedlings (   )   ☐

    4)   More than 60 "   (   )   ☐

4.   Among them, how many seedlings are surviving ?

    1)   0 - 20 seedlings (   ) Persons   * ☐

    2)   20-40 seedlings (   )   ☐

    3)   40 - 60 seedlings (   )   ☐

    4)   More than 60 "   (   )   ☐

5. **What kind of tending techniques have you done ?** (Multiple answer)

1)	Fencing	( ) Persons	* ☐
2)	Water Catchment	( )	☐
3)	Watering	( )	☐
4)	Weeding	( )	☐
5)	Slashing	( )	☐
6)	Clear weeding	( )	☐
7)	Spot weeding	( )	☐
8)	Other	( )	☐

If 'other', please specify

The new Project, Social Forestry Extension Model Development Project, started in November 1997, followed by the previous "Social Forestry Training Project (SFTP)". The new Project has a plan to establish "farm forests" on individual farms in Kitui District. "Farm forest" is defined as a small forest or a group of trees planted on farm including compound, shamba, grazingland to produce firewood, timber/pole, fruit, fodder, shade, and live fence etc. The Project will support the farmers mainly by providing technical advises without materials and tools support to establish farm forests. At the same time, the Project will request the farmers to cooperate with the project, recording the process of establishment farm forests or receiving visitors who want to see farm forests.

6. **How many members are interested in the "farm forests" establishment ?**

    ( ) persons   * ☐

7. **How many members want to establish farm forests with the Project under the above condition ?**

    ( ) persons   * ☐

Asante Sana !

Annex 10 The Average Conditions of Farmers in Kitui District

Table 1 Average number of livestock

Division	Cattle	Goats	Sheep	Poultry	Donkey	Beehives
Kabati	4	5	1	16	1	2.6
Chuluni	3	6	0	15	1	4
Central	2	6	0	24	1	2

Table 2 Average land area (acre)

Division	Total land area	Cultivated area	Grazing area
Kabati	19.1	7.9	11.3
Chuluni	12.3	5.9	6.2
Central	8.6	5.6	3

Table 3 Average livestock sales (Ksh)

Division	Sales (Ksh)
Kabati	5076
Chuluni	4055
Central	5239

Table 4 Average crop sales (Ksh)

Division	Sales (Ksh)
Kabati	5035
Chuluni	2423
Central	2565

Table 5 Average crop production (kg)

Division	Maize	Beans	Pigeon peas	Cow peas	F. Millet	Millet/ sorghum	Green grams	Cassava
Kabati	527	382	102	98	1	24	2	0
Chuluni	966	112	106	95	0	62	0	0
Central	746	237	73	207	0	69	8	102

Table 6 Average distance from river bed shallow wells

Division	Distance (km)		
	Domestic	Livestock	Seedlings
Kabati	4.9	3.9	2.6
Chuluni	3.1	3.1	2.1
Central	3.1	2.1	2.2

Source: Socio-economic and resource survey of Kitui District, SOFEM, 1998

KYANGWITHYA WEST:
GROUP MEETING MINUTES
KITONDO WOMEN GROUP
25/6/1998:

By Damaris Munyao

Starting time: 11:00 a.m.
Started at   : 11:50 a.m.
Finished   : 12:20 p.m.

Members present 4/24

* 1.   Josephine Munyao (Chairlady)
  2.   Esther Mwangangi
  3.   Jane Wambua
  4.   Kanini Mutwii

Members were informed that the project was planning to start farm forestry establishment. They were also told that this activity will only involve one member of the group who will be selected by all other members. They were also informed of the things required from the person to be selected e.g. accessibility to members of the group and extension agents, interested in tree planting, labour availability and accessibility to water sources, land availability, and economically stable e.t.c.

They asked amongst themselves who could be willing to carry out the activity. They responded to one another, this was a lot of work and it needed alot of efforts and commitment. They suggested that whoever selected will be assisted by other members like any other self help projects which they carry out. They asked whether one will set aside a piece of land for planting the trees and who will do species selection. They were told that this will be according to the farmers choice.

They concluded that Josephine Munyao (Chairlady) was the one who met most of the requirements. She willingly agreed with their suggestion.

*   Selected person.

NZAMBANI LOCATION
AKA NDIWA
GROUP MEETING MINUTES
26/6/98

By Damaris Munyao

Time started   1:20 p.m.
Time finished 1:40 p.m.

Members present (6/33)

*1.	Fridah Kavili	-	Chairlady (Selected)
2.	Nduku Mausu	-	Member
3.	Mbeke Musyoka	-	"
4.	Julia Nzau	-	"
5.	Syombua Mbono	-	"
6.	Melick Maseki	-	"

The meeting started with the members being explained the agenda of the visit, that was, the project wanted to establish farm forestry with one farmer from the group who will be selected by other members. They were told also the project will give technical assistance only.

After informing them of things required for the person to be selected, they all selected Fridah Kavili (Chairlady) because she met most of things like, she was near water point, has a large farm, economically average, she has experience and interest in tree planting and accessibility to her home. She agreed with their suggestion and they promised to assist incase of difficulties.

*   Selected person.

KYANGWITHYA WEST LOCATION:
KYENI WOMEN GROUP
GROUP MEETING MINUTES
26/6/98

By Damaris Munyao
Time started: 12:20 p.m.
Time finished   12:40 p.m.

Members present (20/34)

1.	Veronicah Munyoki	-	Chairlady
*2.	Lucia Mutava	-	Member selected
3.	Mary Mwanzia		
4.	Mutethya Mwilu	-	Treasurer
5.	Mali Kithendu	-	Member
6.	Musangi Munyalo	-	"
7.	Kaumo Mulwa	-	"
8.	Kavutha Peter	-	"
9.	Beatrice Mumo	-	Secretary
10.	Priscilla Mwilu	-	Member
11.	Tabitha Ben	-	"
12.	Kathini Kyungu	-	"
13.	Ndanu Masila	-	"
14.	Maingi Kamami	-	"
15.	Regina Muthwii	-	"
16.	Syongila Mbiti	-	"
17.	Kasyoka Munyao	-	"
18.	Esther Nzuva	-	"
19.	Avia Samwel	-	"
20.	Ndanu Mulwa	-	"

The members were told that, the project has planned to start farm forestry establishment.
This activity will only involve one member of the group. They were also told the criteria
to follow during selection. Members discussed amongst themselves looking for the
suitable person. One of the members said that, this was extra work and it needed alot of
efforts and commitment one of them said that they should not force anyone but this should
be voluntarily. They asked whether this will be different from what they have been doing.
They also suggested that the one selected will be assisted by other members like any other
self help projects they carry. They later concluded that Lucia Mutava (member) was the
one who could meet most of the points considered e.g. Accessibility to her home planting
trees in the past, she is, a working member and has enough labour. She willingly agreed
with their opinion.

* Selected member.

MATINYANI LOCATION
KYENI WOMEN GROUP
GROUP MEETING MINUTES
30/6/98

By Damaris Munyao

Time started: 12:20 p.m.
Time finished   12:40 p.m.

Members present (7/15)

1.	Susan Kyenza -	Member
2.	Stellah Kitheka -	Secretary
3.	Jennifer Mutinda-	Member
4.	Regina Muthami-	"
5.	Rael Mwanthi -	"
6.	Penny Willy -	"
*7.	Joyce Kisuki -	Selected

Members were told that, the project has planned to start a farm forestry establishment and this will involve only one member of the group of their own selection. They were also informed that the person will get technical assistance from the project.

One of the members responded that she had a lot of interest in doing the activity   and had set a piece of land for the purpose. Looking into the criteria for selection, Joyce Kisuki qualified because she had a large farm near to the water point, economically average, had training on tree planting labour availability and accessibility to her home was good. So all other members supported her without no objection.

*   Selected person

QUESTIONNAIRE OF SECOND SELECTION SURVEY FROM SFTP II FOR FARM FORESTRY ACTIVITIES.

SECTION A
General

1. Date:_____ - _____   Interviewer(s)_____

2. Name of Model farmer_____ Interviewee_____

3. Relation to the farmer_____

4: Other members present_____

5. Division_____Location_____sub.loc_____Village_____

6. Present Occupation_____

7. Agroclimatic zone_____

8. Resident family members. Age group.

   (a) Less than 6....................................

   (b) 6-20 years....................................

   (c) over 21 years....................................

9. Who among the members mainly engages in tree planting activities ?

   (i) Husband   (ii) Wife (iii) Son (iv) Daughter   (v) Labourer   (vi) All

10. Is any of your family members engaged in any Mwethya activities ? Yes/No

    If yes, who ? (i) Husband   (ii) Wife (iii) Son (iv) Daughter

    Name of group..

11. Purpose of joining the group (I) Tree planting (ii) Soil conservation

    (iii) Merry-go-round (iv) Cultivation (v) Others (specify)................................

water Source

1. What is your water source during the dry season ?

	Source	√	Distance (km)	Quality (Salty/Not salty)
1	River			
2	Shallow well			
3	Dam			
4	Water kiosk			
5	Storage tank			
6	Others (specify)			

Source of labour

2. What is your source of labour ?

   [ ] Family members [ ] Hired labourers [ ] Mwethya group [ ] All

Forestry activities

3.(a) Do you use the following tending techniques, and why ?

Tending techniques	Yes	No	Reasons
(I) Spot weeding			
(ii) Clear Weeding			
(iii) Slashing			
(iv) Surface flooding			
(v) Bottle feeding			
(vi) Water catchment			
(vii) Spot fencing			
(viii) Complete fencing			

(b) What problems do you experience on tree planting and how do you solve them ?
(Rank in order of priority)

Problems   Measures

_____   _____
_____   _____
_____   _____
_____   _____
_____   _____

(c) Have you received any training related in tree planting ? Yes/No.

Where   Organiser

_____   _____
_____   _____
_____   _____
_____   _____
_____   _____

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4.   How do you intend to improve your trees planted at the following places ?

Ranking	Place	Technologies	How	Purpose/Reasons
	Compound			
	Cropland			
	Boundary			
	Grazinglamd			
	Others (specify)			

Accessibility

5.   (a)   How many neighbours visit you regularly ?......................

      (b)   How accessible is the farm to extension work ?
              e.g. road condition (interviewers observation)

              ☐ Vehicle   ☐ Motorbike   ☐ Bicycle   ☐ On-foot

SECTION B: For selected Small Scale nursery member.

1.   What is your education level ?

☐ Primary ☐ Secondary ☐ Tertiary ☐ Adult literacy

Farm Size

2.   What is the total size of your farm ?.................(ha).

(a) Compound...............(ha). (b) Cropland............(ha). (c) Grazingland........(ha).

(d) Others..

Sources of income

3 (a)   How many livestocks do you have ?

(i) Cows................ (ii) Goats............. (iii) Sheep (iv) Poultry..............

(v) Donkeys...............

(b)   How much did you earn from the following items in 1997 ?

	kshs.
Agriculture crop sales	
Livestock	
Business	
Forestry	
Others (specify)	

Interviewers' Comment

(a)   Eagerness of tree planting (e.g. enthusiastic, willingness)

     ☐ Good   ☐ Fair   ☐ Poor

Reason...

(b)   General state of farm (e.g. farming activities, terracing).

     ☐ Good   ☐ Normal   ☐ Poor

Reason...

(c)   Creativity (use of other technologies other than those from project)

     ☐ Good   ☐ Fair   ☐ None

Reason...

(d)   Adoption on tree planting. (Is the farmer implementing what he/she is advised) e.g. weeding, fencing, microcatchments, etc.

     ☐ Good   ☐ Fair   ☐ Poor

Reason...

(e)   Performance of trees planted (e.g. growth, health, etc.)

     ☐ Good   ☐ Fair   ☐ Poor

Reason...

Front-line Extension Worker General Comment

(e.g. Communication, devotion, willingness etc.)

Notes

(e.g. How will we be able to improve the farmers forestry activities as far as farm Farm Forestry Establishment is concerned).

Sketch of the Farm

Annex 13 The result of the second selection survey (abstract)

Second Pre-selection Survey Data (Part II)

No	Name	Type	Div	Interviewer's comments — Eagerness (Good / Fair): plant, alot, own, nurs, Expd, wdlc, purch, sdl	Est wdlot, PLt, G.land, Plt more	Farm state (Poor / Good): Terrace state, Terrace maintd, Normal, Terrace, Farm alv, Poor, Farm aclv
1	Mrs. Lucia Mulava	SS	Cen		Est +	Normal ·
2	Mrs. Beatrice Nzuki	SS	Cen		Est +	Terrace +, Normal ·
3	Mrs. Josephine K. Munyao	SS	Cen	own +		Terrace +, Terrace +
4	Ms. Kasyoka Mwangangi	SS	Cen		PLt +, G.land +	
5	Mr. Pius M. Malindia	SS	Cen	own +		Terrace maintd +, Good ·
6	Mrs. Mali Muthui	SS	Cen			Normal ·
7	Mr. Mulwa Miiau	MF	Cen		Plt more +	Terrace +, Farm alv +
8	Mr. Julius Musyoka	MF	Kab	own +	Plt more +	Terrace maintd +, Good ·, Terrace state +
9	Mr. Munyao Mwatu	MF	Kab		Plt more +, G.land +	Terrace +, Farm alv +
10	Mr. Willy Mwalili	FF	Kab		Plt more +	
11	Mrs. Joyce Kisuki	SS	Kab			Farm aclv +
12	Mrs. Beatrice Mutwii	SS	Kab	plant +		Terrace maintd +, Terrace state +, Good ·
13	Mr. Mwaka Muli	MF	Kab		Est +, purch +	Terrace maintd +, Terrace state +, Good ·
14	Mr. Dominic Mulu	MF	Kab		Plt more +	Terrace maintd +, Terrace state +, Good ·
15	Mrs. Mary M wanzia	SS	Chu	plant +	wdlc +	Normal ·
16	Mrs Fridah Mutiambai	SS	Chu	plant +	purch +	Terrace maintd +, Terrace state +, Good ·
17	Mr. Muthui Malii	SS	Chu			Good ·
18	Mrs. Edith Kyenze	SS	Chu			Terrace maintd +, Normal ·
19	Mr. Maluki Kitheka	MF	Chu	plant +		Terrace maintd +, Terrace state +, Good ·
20	Mr. David K Ngonde	MF	Chu			Terrace maintd +
21	Mr. John Wambua	MF	Chu	plant +		Terrace state +

No	Name	Type	Div	Creativity Good	Chick drop	Soot	Herbs	Dry cells	Ash	Fair	kitch wat.	Chick drop.	Herbs	Did ant hill	Ash	Own nur.	Comp. manure	None
1	Mrs. Lucia Mutava	SS	Cen							·	+							
2	Mrs. Beatrice Nzuki	SS	Cen	·	+	+				·								
3	Mrs. Josephine K. Munyao	SS	Cen	·	+		+	+		·								
4	Ms. Kasyoka Mwangangi	SS	Cen							·	+							
5	Mr. Pius M. Malindia	SS	Cen							·	+							·
6	Mrs.Mali Muthui	SS	Cen								+		+					
7	Mr. Mulwa Mitau	MF	Cen								+				+			
8	Mr. Julius Musyoka	MF	Kab													+		·
9	Mr. Munyao Mwalu	MF	Kab					·										·
10	Mr. Willy Mwalili	FP	Kab															·
11	Mrs. Joyce Kisuki	SS	Kab															
12	Mrs.Beatrice Mutwii	SS	Kab						+	·		+						
13	Mr. Mwaka Muli	MF	Kab	·	+													
14	Mr. Dominic Mulu	MF	Kab															·
15	Mrs.Mary M wanzia	SS	Chu							·					+			
16	Mrs Fridah Mutlambai	SS	Chu												+			
17	Mr. Muthui Matii	SS	Chu							·								·
18	Mrs. Edith Kyenze	SS	Chu	·					+	·					+			
19	Mr. Maluki Kitheka	MF	Chu							·					+			
20	Mr. David K Ngonde	MF	Chu							·				+			+	
21	Mr. John Wambua	MF	Chu							·								

12 August 1998

Second Pre-selection Survey Data (Part II)

No	Name	Type	Div	Adoption Good	Loc.mat	Loc.seeds Weed	Micro-	Protec.	Prune	Fair	weed	Prop. spt	Alley cro	Protn.	Performance None	Good	Gr./health	Fair	Gr./health	Poor
1	Mrs. Lucia Mulava	SS	Cen	.						.	+					.		.	+	
2	Mrs. Beatrice Nzuki	SS	Cen							.								.	+	
3	Mrs. Josephine K. Munyao	SS	Cen	.		+						+					+			
4	Ms. Kasyoka Mwangangi	SS	Cen	.		+				.			+			.		.	+	
5	Mr. Pius M. Matindia	SS	Cen	.													+			
6	Mrs.Mali Muthui	SS	Cen	.						.	+					.		.	+	
7	Mr. Mulwa Milau	MF	Cen	.			+										+			
8	Mr. Julius Musyoka	MF	Kab	.						.	+			+			+	.	+	
9	Mr. Munyao Mwatu	MF	Kab	.				+			+					.			+	
10	Mr. Willy Mwailli	FP	Kab	.				+								.				
11	Mrs. Joyce Kisuki	SS	Kab											.	.				.
12	Mrs.Beatrice Mutwii	SS	Kab	.			+		+						.		+			
13	Mr. Mwaka Muli	MF	Kab	.					+							.		.		
14	Mr. Dominic Mulu	MF	Kab	.				+								.				
15	Mrs.Mary Mwanzia	SS	Chu	.			+	+								.				
16	Mrs Fridah Mutiambai	SS	Chu	.			+									.	+			
17	Mr. Muthui Matil	SS	Chu	.	+	+										.				
18	Mrs. Edith Kyenze	SS	Chu	.	+			+								.	+			
19	Mr. Maluki Kitheka	MF	Chu	.						.	+					.	+			
20	Mr David K Ngonde	MF	Chu	.	+	+	+	+	+							.	+			
21	Mr. John Wambua	MF	Chu	.		+	+	+	+							.	+			

Second Pre-selection Survey Data (Part II)

No	Name	Type	Div	Frontline Extention Worker General Comment	NOTES; Interviewer's
1	Mrs. Lucia Mutava	SS	Cen		
2	Mrs. Beatrice Nzuki	SS	Cen	(e.g communication devotion,willingness etc)	(e.g. how we can improve the farmer's forestry activities for farm forest establishment.)
3	Mrs. Josephine K. Munyao	SS	Cen		1.)Species diversification and woodlot at campound.
4	Ms. Kasyoka Mwangangi	SS	Cen		1.) Woodlot/micro-catch.at compound .(2.) Introduce variety at orchard.(3) Introd. spps. suitable to rocky. soils
5	Mr. Pius M. Malindia	SS	Cen		1.)Advice on spacing and micro-catch. construction the at woodlot
6	Mrs.Mali Muthui	SS	Cen		1.) Spps. placent. (2) Introd. wdlot. at compd. and grazed. (Ad. on seedll. protn. and micro-catch on planted trees. (3) train
7	Mr Mutwa Mitau	MF	Cen		1.) Guidance on spps.for woodlot. (2.) Introd. Imprd. variety at the orchard. (3.) Advice on nursery estmt.
8	Mr. Julius Musyoka	MF	Kab		1.) Training the farmer. (2.) Advice on protection and management. (3.) Introd. Impv. variety at the orchard
9	Mr. Munyao Mwatu	MF	Kab		1.) Introduce diff. spps.at the compnd. and cropland.
10	Mr. Willy Mwalili	TP	Kab		
11	Mrs. Joyce Kisuki	SS	Kab		
12	Mrs.Beatrice Mulwii	SS	Kab		
13	Mr. Mwaka Muli	MT	Kab		
14	Mr. Dominic Mulu	MF	Kab		
15	Mrs.Mary M wanzia	SS	Chu	1)Farmer available(2) has interest (3)surv.good.	1.)Introduce more ornamental and fruit trees spp.(2.)Alley.croping to consinder.
16	Mrs Fridah Muliambal	SS	Chu	1)Farmer keen (2) Attentive (3) Plant alot	1.) Diversify spps. at woodlot. (2.) Improve on woodlot and border plantig.
17	Mr. Muthui Malii	SS	Chu	1)Farmer hard working,cooperative and attintive. (2) good survival.	1) Improve on border planting and fruit orchard through spps. diversification.(2)Introduce ally cropping
18	Mrs. Edith Kyenze	SS	Chu	1)Not committed in nursery work (2)Treeplanting done by labourers	1)Introduce different species and technologies
19	Mr. Maluki Kilheka	MF	Chu	1)Farmer available(2)Devoted (3)surv.good.	1) Encourage the farmer to diversify on technologies and species
20	Mr. David K Ngonde	MF	Chu	1)Farmer available(2)Much interested (3)surv.good.(4) Many trees planted	1)Improve existing technologies throug species diversification
21	Mr. John Wambua	MF	Chu	1)Farmer available (2)Much interested (3)Inquisitive on tree plantig issues.	1)Introduce various and improved variety for the orchard. (2)Introduce fodderbank. Improve amenity planting.

Second Pre-selection Survey Data (Part II)

No	Name	Type	Div	Improvements on trees planted.
1	Mrs. Lucia Mutava	SS	Cen	COMPOUND. Amenity. Plant more shade trees for shade. Set woodlot for wood production.
2	Mrs. Beatrice Nzuki	SS	Cen	COMPOUND. Amenity. Replanting empty spaces for windbreak, shade and beauty. Orchard. Plant more fruits eg.C. papaya, M. Indica, P. gu
3	Mrs. Josephine K. Munyao	SS	Cen	COMPOUND. Woodlot. Replantig and planitg more for fuelwood and shade. CROPLAND. Orchard. Adding more fruits at the terraces. For c
4	Ms. Kasyoka Mwangangi	SS	Cen	COMFOUD. Woodlot. Planting more trees, species diversification for climate amelioration and firewd. CROPLAND. Orchard. Plant more and
5	Mr. Pius M. Matindia	SS	Cen	COMPOUND. Amenity. Plant more for beauty and shade. Woodlot. Plant more for limb. and firewd. CROPLAND. Orchard. Plant more for
6	Mrs. Mali Mutindi	SS	Cen	COMPOUND. Amenity. Plant more for windbnk,firewd,shade.CROPLAND. Orchard. Plant more for domestic consu. BOUNDARY. Border pl
7	Mr. Mutwa Mitau	MF	Cen	COMPOUND. Amenity. spps. diversification for shade and beauty. CROPLAND. Orchard pll. more fore seeds fruits. BOUNDARY. Border plt
8	Mr. Julius Musyoka	MF	Kab	COMPOUND. Amenity. spps. diver. for fence. Orchard.Plant more for fruits. CROPLAND. Woodlot expd. size for fuelwd. Orchard. plant mor
9	Mr. Munyao Mwatu	MF	Kab	COMPOUND. Compound plntng. spps. diversification for firewd, shade. CROPLAND. Woodlot plant more for firewd. BOUNDARY. Border pl
10	Mr. Willy Mwailli	FP	Kab	COMPOUND. Woodlot. spps. diversification for windbreak, shade. CROPLAND. Orchard. planting more for fruits. BOUNDARY. Border pltng
11	Mrs. Joyce Kisuki	SS	Kab	CROPLAND. Orchard.Plant more along banches for fruits. Woodlot. expnd. for firewd
12	Mrs. Beatrice Mutwii	SS	Kab	COMPOUND. Amenity. plant moretrees for fuelwd. limb. CROPLAND. Orchard.Plant more for fruits. BOUNDARY. Border pltng. plant more f
13	Mr. Mwaka Muli	MF	Kab	COMPOUND. Amenity. plant more for shade, beauty, fuelwf. CROPLAND. Orchard.Spps. diversification along benches for commercial fruits
14	Mr. Dominic Mulu	MF	Kab	COMPOUND. Amenity.Spps. diversification for beauty,medicinal. CROPLAND. Orchard. plnt. along benches for fruits. GRAZINGLAND. Woo
15	Mrs.Mary M wanzia	SS	Chu	COMPOUND. Live fencing.Line pltng for fence. Amenity. scattered for shade. CROPLAND.Alley cropping. pnt along benches for poles,mu
16	Mrs Fridah Mutiambai	SS	Chu	COMPOUND. Amenity.along fence for shade CROPLAND. Orchard.plnt more for fruits BOUNDARY. Bound plntng. Plnt. more for fence, lu
17	Mr. Muthui Malti	SS	Chu	COMPOUND. Amenity. pll more for shade. CROPLAND . Orchard pll more commercial BORDERPLTborder plt. pll more firewd
18	Mrs. Edith Kyenze	SS	Chu	CROPLAND Alley crop pll more for fuelwd. Orchard. spps diverse.for comercial. GRLAND Woodlot. spps dirvese for fuelwd.medicinal, pol
19	Mr. Maluki Kitheka	MF	Chu	COMPOUND Amenity pll more for poles. beauty.CROPLAND. Woodlot line plt for fuelwd.poles. BOUNDARY Boundary plplt more for fuelw
20	Mr. David K Ngonde	MF	Chu	COMPUOND Amenity. pll more for wdbreak.beauty CROPLAND Orchard plt more commercial, domestic Fodder bank pll more for fodder.
21	Mr. John Wambua	MF	Chu	COMPOUND Amenity align the trees beauty CROPLAND Orchardplt more and uprooting diseased ones for fruit improvement BOUNDAR

Second Pre-selection Survey Data (Part II)

No	Name	Type	Div	
1	Mrs. Lucia Mulava	SS	Cen	
2	Mrs. Beatrice Nzuki	SS	Cen	Guava etc. for domestic and commercial purpose.
3	Mrs. Josephine K. Munyao	SS	Cen	commercial. Border planting. Add more trees for demonstration, fence post, firewood.
4	Ms. Kasyoka Mwangangi	SS	Cen	planting other spps. for commercial and domestic purpose. Alley cropping. Plant more L. leucocephala for soil improvement
5	Mr. Pius M. Malindia	SS	Cen	commercial and domestic BOUNDARY. Border pltng. Plant more esp. G. robusta for live post.
6	Mrs.Mali Muthui	SS	Cen	ting. Plant more for boundary demerc.
7	Mr. Mulwa Mitau	MF	Cen	ng. spps. diversification for firewd.bound demerc. GRAZINGLAND Natural tree mgt. Proper mgt. for shade, fodder.
8	Mr. Julius Musyoka	MF	Kab	for fruits. BOUNDARY. Border pltng. spps. diversification for border demerc.
9	Mr. Munyao Mwalu	MF	Kab	ng Plant more for boundary demerc.
10	Mr. Willy Mwalili	FF	Kab	plant more for bound demerc
11	Mrs. Joyce Kisuki	SS	Kab	
12	Mrs.Beatrice Mutwii	SS	Kab	fencing.
13	Mr. Mwaka Muli	MF	Kab	GRAZINGLAND. Woodlot. expnd and planting more fuelwd and poles.
14	Mr. Dominic Mulu	MF	Kab	lot. spps. divers. for fuelwd, shade.
15	Mrs.Mary M wanzia	SS	Chu	ching,fruits. BOUNDARY. Border pltng. pltng. along boundary for windbrk,bound.demerc. G/LAND.Woodlot.line pltng for poles
16	Mrs Fridah Mutiambai	SS	Chu	stwd, border dev/mark G/LAND Woodlot.plant more for fuelwd, shade ,poles.
17	Mr. Muthui Matii	SS	Chu	
18	Mrs. Edith Kyenze	SS	Chu	ng
19	Mr. Maluki Kitheka	MF	Chu	d.G/LAND .natural veg.mgt prop mgt shade
20	Mr. David K Ngong	MF	Chu	Woodlot line plt for poles ,fire wd G/LAND Woodlot lineplt fuelwd shade
21	Mr. John Wambua	MF	Chu	. Bord plt intensive mgt border mark,wdbreak G/LAND. Wd lot cleaningfor fuelwd .