

KENYA/JAPAN

SOCIAL FORESTRY EXTENSION MODEL DEVELOPMENT PROJECT

PROCEEDINGS OF THE WORKSHOP ON SOCIO-ECONOMIC AND RESOURCE SURVEY METHODOLOGY

HELD AT:

KITUI REGIONAL SOCIAL FORESTRY TRAINING CENTRE, 2ND-6TH MARCH 1998

Compiled by: Bernard Owuor Lucas Rateng

July 1998

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1.0 BACKGROUND

The phase I and II of the Social Forestry Training Project implementation was started from November, 1986 and was successfully completed in November, 1997. The Project was a joint cooperation between the Government of Kenya and the Japanese Government. The Project was implemented through JICA and KEFRI on behalf of the two Governments respectively.

The project was divided into two components training and technology development sub-projects. On the completion of the phase II in November,1997, the Kenya/Japan Government signed another co-operation agreement on the implement on the implementation of the Social Forestry Extension Model Development Project for Semi-arid for a period of five years, mainly concentrating in Kitui District.

Social Forestry Extension Model Development Project(SOFEM) is a joint project involving Forestry Department(FD), Kenya Forestry Research Institute(KEFRI). JICA in collaboration with KEFRI/FD intends to develop Social Forestry Extension Model through practical establishment/planting of farm forests on selected farmers' shambas under different conditions. The implementation of the project will involve planning and conducting of several stages of surveys, including basis Socio-Economic and Resource survey, target selection surveys and profile surveys.

2.0 INTRODUCTION

After the commencement of the SOFEM project, the members of the core team recognized the need to conduct a general survey in target project areas before selecting areas and farmers to work with. As a prelude to this, the members proposed to have a workshop on the basic theory and methodologies on the survey so that the project staff could be equipped with the necessary knowledge and skills on survey. The Japan International Co-operation Agency (JICA)/SOFEM then approached the PRA Programme, Egerton University, on behalf of Kenya Forestry Research Institute and Forest Department to facilitate a Workshop on Socio-Economic and Resource Survey methodology which was held as from 2nd-6th March, 1998 at Kitui Drylands Regional Research Centre. The cost of the workshop was met through cost sharing by the participating institutions. JICA paid for Resource Persons, meals and accomodation while KEFRI/FD paid for travel expenses for their members of staff.

2.1 Objective

The Workshop was intended to equip the Project staff (KEFRI/FD) with the basic theory and practical methodology of rural survey, and to prepare a list of survey items or checklist for the socio-economic and resource survey which will be implemented after the workshop.

2.2 Terms of reference

The following items listed below are the terms of reference for the facilitation of the Workshop:-

1) The facilitator will co-ordinate the whole workshop activity, including presiding and providing guidance during the presentation of the target are, and the draft list of survey items.

2) Give lectures the theory and methodology of socio-economic and resource survey including the following;

- Basics of rural survey
- How to prepare a list of survey items
- Outline of programme package for statistical analysis of survey results (SPSS)
- How to identify survey area/households (sampling methods)
- PRA
- Field practice using the prepared list of survey.

3) Provide guidance for the formation of survey teams.

4) Formulate an outline of the survey schedule.

3.0 WORKSHOP EXPECTATIONS AND GAINS

3.1 Expectations from the workshop

- Tools to prepare, execute and present a socio-economic survey.
- Gain knowledge.
- To understand SOFEM
- Prepare questionnaire and analysis data.
- Basis for household survey, and to produce appropriate packages for farmers.
- Using PRA in project and in future.
- Understand PRA and baseline survey.
- Gain knowledge on how to prepare questionnaire.
- Learn how to conduct PRA.
- Learn how PRA can be used to improve living standards.
- Understand basics of rural survey.
- To know colleagues better and share experiences.
- Exposures to SPSS and to gain knowledge on its capacity.

3.2 Expected contributions to the workshop

- Give field experience on survey to be conducted.
- Experiences on conducting PRA.
- Commitment to the Project.
- Give guidance and share experiences.
- Planning with he communities concerned.
- Share on planning, implementing and monitoring with communities.
- Skills on training frontline staff on the methodologies.
- Common idea on a socio-economic study for SOFEM.
- Understand what are farmers needs, and what SOFEM should do for the farmers.
- How to report survey outcome.
- Gain knowledge from the farmers on the target areas.
- Gain experience on field date collection.
- How to constitute a survey team (Roles).
- To handle qualitative and quantitative data.
- To conduct effective interviews.
- Conduct a survey.
- Develop a strategy for the coming field survey on socio-economic and resource survey.
- Learn skills on dealing with the community.

4.0 WORKSHOP PARTICIPANTS.

Participants of the workshop were drawn from: the Kenya Forestry Institute headquarters and Kitui Regional Research Centre where the SOFEM project is based; Forestry Department staff from headquarters, Kitui District offices and Divisional Forestry Extension staff; JICA/SOFEM project staff. All the participants are SOFEM project staff or involved in project activities one way or the other both at field or headquater level. There was a total of 27 participants(see annex 1).

5.0 WORKSHOP TRAINING MATERIALS AND METHODS

Conceptual and practical issues of the socio-economic and Resource Survey methodology workshop were tackled through lectures, discussions and practical sessions, most if not all particpants had field experiences which were tapped through well co-ordinated lectures that logically built into and complemented each other through the leadership of the resource persons. The workshop was accomplished through lecures, group work, presentations, discussions, field visit sessions. These were balanced in such a way that participants derived great benefits in terms of learning of new skills, sharing experiences and seeking classifications. Group works enhanced interaction and the learning process.

5.1 Lectures

The lectures mainly concentrated on topics that would be of immediate practical application to the participants in conducting the socio-economic and resource survey which the workshop was a prelude to. The lectures were made interactive such that they brought both the resource persons and participants at the same learning platform in order to facilitate and enhance the exchange of knowledge and experiences(see annex 2)..

5.2 Field Visit (Pilot Survey)

This was a very crucial part of the workshop for it helped link theory and practice. The participants were divided into four groups for pre-testing the draft questionnaire through interviews with farmers.

5.3 Discussions

There were several discussion sessions which were used to thrush out and discuss partinent issues, several arising matters were also discussed as they came up during the lecture sessions. These discussion sessions encouraged more interaction between resource persons and participants. The resource persons played a guiding role in these discussion. At several stages during the workshop the participants were split into groups to discuss various issues in details. Each group compiled a report and then gave a presentation to all the other participants(plenary sessions). The presentations generated discussions that helped in understanding and clarification of various issues that came up.

5.4 Training materials

Participatory learning techniques were employed during the workshop through the use of various visual aids. These included the use of flipcharts, overhead projector, etc. These facilitated and augmented the learning process. Lecture notes were given at the end of the lectures to act as reference materials.

6.0 WORKSHOP CONTENTS

6.1. Outline on target area

This was the first topic in the programme. It gave bacground information about the District with greater emphasis on the 4 target Divisions namely: Chulumi, Mutomo, Kabati, Central. Salient features that were highlighted and discussed included geographic features, demagraphic data (population size, density, structure etc) Natural resources land tennure and ownership regimes, socio-economic conditions of the rural communities, land use practices, settlement patterns

6.2. Basics of Rural Survey

The details of what entails rural survey were given and discussed. This started with the definition and concepts of rural survey. Rural survey is part of social research which is normally undertaken to find out about people, verify facts, develop new tools, explain previously unexplained phenomenon, analyse interelationships involved in the society. Rural survey targets people and aims at solvinng defined societal problems. These surveys are carried out through interviews.

6.3 How to prepare a list of survey items

Prior to conducting a survey, it is imperative to compile a list of survey items. These should be well thought out and be able to generate the desired information. This should be lokked at critically against the project objectives and the prevailing social, cultural, and economic conditions of the target rural communities.

6.4 Preparing data for statistical analysis

Once data is collected, it has to be ordered and arranged in such a way that it can be statistically analysable. This process starts right from the design of the questionnaire through the collection and handling of the data. The type of information to be collected and the statistical package to be used to analyse the data has to be decided beforehand for this will determine which questions should be asked, how the data should be collected and arranged. During the survey, editing neds to be done for ommissions and wrong entries. Before starting the analysis, coding is done to categorize and classify the data. Symbols are then assigned to the codes. Units are standardized for ease of comparison. Variables are given names and labels and each questionnaire is treated as a case.

6.5 Collection of stastistical and non-statistical data

During surveys, both qualitative and quantitative data are collected. The workshop participants were taken through how to handle survey data. Qualitative data can be collected quantitatively, coded then analysed. Qualitative evaluations are always subject to errors of human judgement.

6.6. Participatory Rural Appraissal (PRA)

This is an approach that involves the rutal communities in the various phases of project activities. PRA as a process recognizes, respects and promotes: capabilities of communities, sharing and spread of information and knowledge to a wider audience, empowerment of communities, improvising by communities and development workers. PRA has several potentials and these include: making

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technologies more suitable to farmer circumstances, motivation of farmers, tapping of indigenous knowledge, enhancing capacity of farmers to adapt technology, Farmers role become critical and cost effective, compliments station based research, Farmer to Farmer dissemination.

6.7. How to identify survey area (Sampling methods)

Sampling assumes that the sample is representative. Background information about Kitui Ditrict was given and discussed at length. The administrative boundaries and agroecological zones were usedas a basis for sampling. Farmers to be interviewed were to be selected through stratified random sampling. It was decided that the minimum number of interviews to be conducted should be 30. However, the total number of interviews to be conducted was to depend on factors such as finances available, time and labour.

6.8. Field Practice(Pilot survey)

For purposes of this exercise and final survey, survey teams were formed. These teams were composed such that there was a balance of expertise, experience and understanding of the local conditions. There was also a mix of staff from all the collaborating institutions.

The survey teams went out in the field to test the questionnaire. This was a very crucial part of the workhop for it helped link theory and practice.

6.9. Review of field practice

The field practice involved pilot survey which was done to pre-test the questionnaire to ensure it's suitability for the survey. After the field practice the participants gathered for discussion on their experiences in administering the questionnaire. It was fine tuned through incorporating various comments/ammendments by participants. It was discussed section by section and the questions therein improved accordingly. The difficulties experienced during the pilot survey were used to change, modify or delete some questions.

6.10. Finalisation of survey list

This was done after the review of the field practice to incorporate comments and observations from the field practice. Several questions were changed, others were modified, while others were removed comletely. All these were done in line with the experiences from the field with a view of making the questionnairre more suitable for gerating valuable information that will form a basis for subsequent SOFEM Project activities.

6.11. Formation of survey teams

Four survey teams were formed to conduct the survey. These were comprised of members of staff from the various collaborating institutions. In each team there was a translator who ia a resistent of the District and is also well versed with the local conditions. Each team had 3-5 members from different backgrounds and institutions.

6.12. Adopting questionnaires for computer based Social Science Research

This was a hands-on session in which participants' past experiences were employed in building the capacity to prepare or collect data in a format that is compatible with available Social Science Research Data Analysis Computer Software. The resource person stressed that this should be performed in a manner that ensures technical information is not sacrificed at the expense of computer compatibility. The session exposed participants to a wide range of available software without necessarily being committed to a specific software. The topics covered included the following: Objectives of the survey, survey instrument, types of data, types of questions, statistical software terminologies, coding data, Data entry methods, statistical software for social scientists. After covering these topics and detailed discussions that ensued, the participants were given a sample questionnaire which they gave answers to and these were as test data for the session's practicals (see Annex) computers were availed for the session and each participant entered his/her data based on the agreed code book which was prepared under the able guidance of the resource person.

7.0. QUESTIONNAIRE DESIGN

The objectives of the SOFEM project were used as a basis for designing the Socioeconomic and Resource survey questionnaire. The questionnaire content was such that it will generate valuable information that will form a basis for planning of project activities that will help achieve the set objectives. A task force was formed to design the questionnaire and came up with a draft that went through discussions during the workshop. The resource persons helped tailor the questionnaire to suit the social, cultural economic and environmental conditions of the target area and to generate valuable information that will form the basis for planning subsequent project activities.

8.0. FIELD SURVEY/QUESTIONNAIRE PRE-TESTING

In the process of modifying the questionnaire and making it more useful and potent in terms of what it was encouraged to achieve, a field survey was undertaken to protest the questionnaire. Based on the difficulties exercised in administering the questionnaire, some question were changed, others removed and others added to ensure that all the relevant information was collected. The participants were divided into 4 groups for this exercise. After the protesting, there was a discussion session in which various pertinent issues were discussed. This exercise was conducted under the guidance of the key resource person. The final questionnaire was then developed(see annex 3).

9.0 WORKSHOP EVALUATION:

Finally, at the end of the workshop, there was an evaluation which was carried out by resource persons. Evaluation forms were given to all participant who filled them and handed them back to the resource persons. There was a general feeling among the participants that the workshop was very useful, they learnt a lot it gave them a form to exchange and share knowledge and experiences.

Annex 1. PARTICIPANTS LIST

NAME	TITLE	80 N	ORGANIZATION
1. Forence Chege	Training Manager		KEFRI-MUGUGA
2. Benard Owuor	Training Officer	Training Officer	
3. Joshua K. Cheboiwo	Centre Director		KEFRI-KITUI
4. Benar Muok	Pilot Forest Manager		KEFRI-KITUI
5. J.K. Musyoki	Extension Method and Infor	mation	KEFRI-KITUI
6. Lucas Rateng'	Extension Method and Infor	mation	KEFRI-KITUI
7. Ali. A. Atanas	Farm Forest Establishment (EXT)	KEFRI-KITUI
8. Samuel Auka	On-Station Tech. Developm	ent	KEFRI-KITUI
9. Osore C. Mudanya	On-Station Tech. Developm	ent	KEFRI-KITUI
10. Ezekiel M. Kyalo	Farm Forest Establishment	Tech.	KEFRI-KITUI
11. J. Baraza Wangwe	Forest Extension Services E	Franch	FD HQTS-NAIROBI
12. J. Mathenge Ngatia	Forest Extension Services E	Franch	FD HQTS-NAIROBI
13. Charles Gathage	Project Manager		WFP-NAIROBI
14. Anthony Mwangi Gondo	District Forest OFficer		FD-KITUI
15. E.I. Mutie	DFEO		FD-KITUI
16.J.M. Mungai	DFEO		FD-KITUI
17. B.M. Mainga	DFEO		FD-KITUI
18. J. Kiarie Kamau	DFEO		FD-KITUI
19. S.M. Musee	Asst. DFEO		FD-KITUI
20. Elijah D. Oyugi	Asst. DFEO		FD-KITUI
21. J.S. William	Asst. DFEO		FD-KITUI
22. Seiichi Mishima	Chief Advisor		SOFEM/JICA
23. Katsuro Saito	Co-ordinator		SOFEM/JICA
24. Kenichi Kemmochi	Farm Forest Establishmen	Farm Forest Establishment (EXT)	
25. Minoru Sato	Extension Planning		SOFEM/JICA
26. Tatshuiko Minami	Farm Forest Establishment Technology		SOFEM/JICA
RESOURCE PERSONS			
1. N. MUHIA LECT	RER PRA-PROGRAMME EGERTON U		IVERSITY
		AGRICULTUR	AL ECONOMICS
		DEPARTMENT	2
2. PAUL GAMBA LECT	IRFR	EGERTON UN	IVERSITY

Annex 2

WORKSHOP PROGRAMME

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(ind-son Maran, 1996)

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	8:30-10:00	10:30 - 1:00	2:00 - 3:30	4:00 - 5:30
DAY 1 2.3.1998	- Arrival and Registration		Presentation of outline on Target Area	Presentation of drait Survey list
DAY 2 3.3. 1998	Basic of rural surveys	How to prepare a list of survey items Review presented list	-Preparing Data for Statisctical Analysis Statistical Analysis(SPSS)	Continue with SPSS
DAY 3 4.3.1998	Non- Statisctical data collection Analysis	-PRA. - It's applicability to JICA/KEFRI approach. - Sharing on other participatory approaches	-How to identify survey area. - Sampling methods	Survey/Sampling process for JICA/KEFRI Project
DAY 4 5.3.1998	Pilot Survey in the field	 Pilot Survey Cont. Review of field experiences 	-Finalization of survey items	Formating of Survey teams
DAY 5 6.3.1998	Documentation and report writing	-Formation of survey schedule. - Workshop Closure		

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GENERAL SURVEY QUESTIONNAIRE

Section A: General

1. Date of interview	
2. Name of interviewer	
3. Name of head of homestead	
4. Interviewee(s)	
5. Division	
5. Location	
7. Sub-location	
S. Slope: 1. Plain 2. Moderate 3. Steep	
9. Agroclimatic zoneAltitude	
10. LatitudeLongitude	
11. Soil types: 1. Sandy 2. Loam 3. Clay 4. (Others specify)	•
12. Natural vegetation: 1. Sparse 2. Moderate 3. Dense	

Section B: Family structure

- 1. How many belong to homestead ?
- 2. Number of male members
- 3. Number of female members
- 4. How many people live in this homestead currently ?.....
- 5. How many are employed (wage/salary employment)?
- 6. What are the ages of your homestead members who live here currently ?
 - 1). Less than 6 years.....
 - 2). 6-20 years
 - 3). Over 21 years.....
- How many members of your homestead who currently live here have had
 - 1) Primary education
 - 2) Secondary education
 - 3) Tertiary education

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- 1) Adult literacy classes
- 3. Who make decisions in this homestead regarding land use ?

Section C: Farm information and settlement pattern

- What is the total area of your land (ha./ acre)?
- 2. What area is under cultivation (ha./acre)?

3.	What is the size of your grazing area (ha./acre)?	
<u> </u>	When did you settle in this land	î:
5.	If migrated from else where, from where	
ċ.	What is the tenure system under which you occupy your land:	3

1. Freehold 2. Unsurveyed 3. Communal

Section D: Crop farming

1....

1. List the food crops you grow on your farm

2	
<u> </u>	
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2. List the cash crops you grow on your farm

1	
2	
3	
4	
5	

3. From whom do you get advice on farming practices?

1. MoA 2. NGOS 3. Administration 4. None 5. Others (specify).....

How often do they visit your farm ?

Organisation	 Frequency of visit 1. Weekly 2. Monthly 3. Quarterly 4. Twice a year 5. Yearly 6. Bi-annually 7. Rarely 		
~ .			

1.

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4. Do you apply any of the following inputs on your farm

....

1. Fertiliser 2. Manure 3. Pesticides 4. None 5. Others (specify).....

5. Is soil erosion a problem on your farm ?

If yes, do you have soil conservation structures on your farm

- Bench terrace
 Checkdams
 Bench terrace with grass
 Bench terrace with grass and trees
 Cut off drain
 Others specify.....
- 6. What is the fertility level of your land ?
 - 1. Fertile 2. Moderately fertile 3. Poor

7. How much did you harvest (indicate unit, e.g. bags, debes, weight)?

Туре	Quantity (Unit)	Unit price

9. Do you have food shortages during the dry seasons ? 1. Yes 2. No

10. What are your main sources of food during droughts ?

1. Reserve 2. Relief 3. Purchase 4. Support from relatives.

11. What quantity of food items did you purchase?

....

Food item	1997	1996	
Maize			
Beans			
Pigeon peas			
Cow peas			
Others			

12. Suggestions on how to solve problem of food shortage in the area.

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13. What is your major problem in crop production and possible solution

	Problem		Possible Solution(s)
1.			
2.			
3.			
÷.		-	

Section E: Livestock production

1. Which livestock do you keep on your farm

Animals	Numbers	Benefits
Cattle		
Goats		
Sheet		
Poultry		
Donkey		
Beehive		
Others		

2. How do you keep your livestock ?

1. Free range 2. Zero grazing 3. Paddocking 4. Tethering

3. How much did you earn from livestock/livestock product sales in 1997

Туре	Number sold	Amount	

 What problems do you encounter in livestock production and what solution can you

suggest for the problems.

Problem	Solution
,	

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Section F: Afforestation and Forest resources

1. Have you planted trees on your farm ? 1. Yes 2. No lf yes, fill the table below:

Species	Where planted	Purpose of planting
	 Compound Border In farm Woodlot 	

2. Who makes decisions regarding tree planting on your farm ?

3. When did you start planting trees on this farm ?

1. 1950-1960 2. 1961-1970 3. 1971-1980 4. 1981-1990 5. 1991-1998

- Do you have a tree nursery ? 1. Yes 2. No
 If yes, is it 1. Your own private nursery 2. Group nursery
 If group nursery name the group.....
- 5. Are you engaged in any communal tree planting activities ? 1. Yes 2. No

6. Where do you obtain seedlings for planting ?

 Group nursery 2. School nursery 3. FD 4. DANIDA 5. JICA 6. Own nursery 7. MoA 8. Commercial Nursery 9. Direct planting
 Others specify......

- 7. From whom do you get advice on tree planting ?
 - 1. FD 2. JICA 3. NGOS 4. Administration 5. None 6. MoA
 - 7. Others (specify).....

How often do they visit your farm ?

Organisation	Frequency of visit
	1. Weekly 2. Monthly 3. Quarterly
	4. Twice a year 5. Yearly 6. Bi-annually
	7. Rarely

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· . 	Llas any	had in the hor	nestand received	training in tree	planting ?
S.	Has anybody in the homestead received training in tree planting ? 1. Yes 2. No				
		ho trained ?			
			IICA residenti	al training 3. FE) 4. Mo.A
	5. Other			0	-
9.			r the seedlings t	hat you have pla	nted ?
	i. Yes				
10.	Which t	ree species do v	ou prefer to plai	nt?	
	1				•••••
	2			••••••	••••••
	3				••••••
	4				
11.		you care for you			_
				ter catchment 🚽	. Protection
		ing 6. Watering			
12.		e the natural tre	e species on you		
•	Species		U	se	
10		- h			
13.			t of natural vege	etation on your f	arm in the last
	20 years 1. In		Same 3.	Demosing	
14.		•		taboos about tree	aplanting
14.	-		? 1. Yes 2.		e planning,
	•				
	ц усэ, эр				
15.	What fo		d you sell in 199		
Produ	ıct	Where sold	Quantity	Unit price	Amount

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10. In what form do you sell/use the forest products

•	
Product	L. Raw 2. Processed
	3. Packaged
-	

17. Did vou buy any forest product in 1997

Product	Where bought	Quantity	Unit price

18. What problems do you face on tree planting tending and management. Can you suggest possible solutions ? Problem Solution -------------------______ ------_____ Where do you get your firewood 19. Place Time spent Do you have problem with obtaining firewood. What are the possible 20.

solutions to the problems ?	
Problem	Solution

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21. What kind of cooking facilities do you use ?

1. Three stone 2. Improved jiko 3. Paraffin stove 4. Others specify.....

Section G: Water resources

1. Where do vou get water (tick appropriate)

Water source	Free	Purchase	Distance	Transport
Rainy season				
a) Domestic				
b) Livestock				
c) Trees/nursery				
seedlings	- 1.			
Dry season				
a) Domestic				
b) Livestock				
c) Trees/nursery				
seedlings				

*NB: 1 hour walk is approximately 4 km

2. What water related problems do you experience and what are the possible solution.'

	(i)	During rainy season		
	Prob	olem		Solution
(ii)	Dry	seasons		
	Prob	lem		Solution
			,	

Section	on H: Socio-economic information.	
Į.	What are your main sources of inco	me
	L	<u>+</u>
	2	5
	3	ó
2.	What were your major expenditure	in 1997 and how much did you
	spend in each category.	
	Category of expenditure	
	· · · ·	
Sectio	on I: Health and nutrition	
1.	What human diseases are most com	mon in your villages
	Disease	Cause
Sectio	on J: Infrastructure and development	
1.	How far is the nearest hospital (km)	?
2.	How far is the nearest primary schoo	l (km) ?
3.	How far is the nearest secondary scho	pol (km) ?
4.	How far is the nearest market (km) ?	
5.	How far is your home from a road th	at has public transport ?
6.	How far is the locational office from	your home (km) ?
7.	List development institutions (both g	government and NGOs) operating
	in your area.	
	Institution	Activities
8.	What infrastructure related problems	do you face in your area ?
9.	What are your suggestion infrastruct	ure related problems ?
	* ASANTE SANA KWA M	VAKATI WAKO 🕈
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