Socio-Economic Baseline Survey
& Participatory Development and Organization

# G. Socio-Economic Baseline Survey & Participatory Development and Organization

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#### Annex G.1 Socio-economic Baseline Survey: Objectives, Methodology and Sample Selection

#### **Objectives**

The main objective was to identify the overall socio-economic status of the Study Area (SA), including social structure, infrastructure, agro-sylvo-pastoral and other economic activities, access to resources and community organizations.

#### Methodology

The baseline survey was conducted through interviews using questionnaire formats (Annex G.2 and G3). Enumerators visited key informants and farm households who were selected at random in the sample villages. Responses were recorded on the spot by the enumerator who had asked the questions. Though simultaneously conducted, the survey consisted of two parts: the Village Profile Survey; and the Household Survey. The information on Village Profile was obtained through key informant interviews, mainly with the village headman/woman, often assisted by his/her advisers and relatives. When possible school teachers, agricultural field assistants, health staff, etc. were also interviewed to establish the Village Profile. Household survey was conducted individually at the respondent's homestead. Principally, the interview was targeted to the household head, though in case of his/her absence the spouse or an adult member of the household was interviewed.

#### Selection of Sample Villages and Households

The SA comprises of 7 TAs in Blantyre District and 2 TAs in Chiradzulu District. In order to select sample villages, the first task was to list all the villages in the SA<sup>1</sup>. 1998 census maps<sup>2</sup> were used to pick up all the villages in the SA. The village list in each TA is found in Annex G4<sup>3</sup>.

Based on this village list, the number of sample villages in each TA was determined in proportion to the number of villages in the SA, to make the total of 27 villages (see the following table). Then, sample villages were selected randomly in each TA.

<sup>&</sup>lt;sup>1</sup> As our SA does not correspond to the administrative boundaries, it was not simple to identify the villages in the SA. District pay roll record to the village headman/woman could be used as a village list if the SA coincided with administrative boundaries such as TAs.

<sup>&</sup>lt;sup>2</sup> 1/25000 TA maps were updated prior to the 1998 census. The map identifies villages (without boundaries) and other main features such as schools, churches, clinics, trading centres, etc.. Each TA is divided into several Enumerating Areas (EAs).

<sup>&</sup>lt;sup>3</sup> To date, the result of 1998 census at village level is not yet out. Only the population and the household number at EA level have been published. Thus, the village list in appendix contains only the population from 1977 and 1987.

Number of Sample Villages in each TA

Name of TA	Number of	Distribution	Calculated number of	Number of	Number of
	Villages in	(%)	Sample Villages	Sample	Sample
	Study Area			Villages	Households
Chigaru	22	6.5%	1.752	1	6
Kuntaja	66	19.5%	5.257	5	30
Kunthembwe	8	2.4%	0.637	1 5 1 2 4 3	6
Kapeni	100	29.5%	7.965	8	48
Lundu	8	2.4%	0.637	1	6
Makata	28	8.3%	2.230	2	12
Machinjili (rural)	47	13.9%	3.743	4	24
Chitera	36	10.6%	2.867	3	18
Mpama	24	7.1%	1.912		12
TOTAL	339	100.0%	27	27	162

The name and the location of the sample villages are shown in Annex G.5.

The Household Survey was conducted on 6 households in each sample village regardless of the size of the village. As no household list was available, sample households were selected based on the geographical distribution of households within the village. In total 162 households were surveyed.

## Annex G.2 Questionnaire for Socio-economic Baseline Survey: Village Profile

# Baseline Survey on the Socio-economic conditions for the JICA Master Plan Study on Watershed Rehabilitation in Middle Shire

#### Village Profile

		-		Ro	ef. No
Survey Date: Enumerator: Village Name: Group Village: TA:			ındu 4. Kapenii	5. Makata	6. Machinjili
Section A	General Inform	nation on the villag	e		
1. The name of	of the village headm	an:			_
2. Sex of the v	village headman:	(male, female)			
3. Age of the	village headman:		years old		
4. Lineage of	the village headmar	n: (matriarchal, patr	riarchal)		
5. Lineage of	the villagers:	(matria	rchal, patriarchal.	both)	
6. Population:	male	female		total	
7. Is the popul	lation increasing for	the past 5 years?	(yes, no, no cha	inge)	
8. Number of	household in the vil	lage:	<del></del>		
9. Ethnic grou	p of the villagers:	b c d	(all, majority, s (some, minority (some, minority (some, minority	y) y) y)	
		e	(some, minority	у)	

			(some, minority) (some, minority)
a. b. c. e. f.	Origin / history of the village:		
a. b. c. e. f. g.			
a. b. c. e. f.			
a. b. c. e. f.			
a. b. c. e. f. g.			
b. c. e. f. g.	low far are the following facili-		
c. e. f.	. primary school		km from the village)
e. f. g.	. secondary school	•	km from the village)
f. g.	. clinic		km from the village)
g.	market	(in the village, _	km from the village)
	nearest transport	(in the village, _	km from the village)
Н	grinding mill	(in the village,	km from the village)
	low many households have ele	ctricity at home?	(all, majority, some, few. none)
. W	What is the source of drinking v	vater for the village	ers?
. Н	fow many boreholes are there i	n the village?	<del></del>
. Н	low many shallow wells are the	ere in the village?	
. A	re there problems on drinking	water?	(yes, no)
. If	yes, please specify the problem	ns.	
W	/hat are the main problems of t	he village'?	

## Section B Land Use, Forestry and Agriculture

1.	Village area
	a. Total village areaha
	b. Farmland:ha
	c. Forest/woodlotha
	d. Grazing area:ha
	e. Non-arable landha
	f. Others:ha
2.	Does your village have a village/community forest? (yes, no)
3.	If yes for Q2, what is the area of the forest?ha
4.	If yes for Q2, what kinds of trees are there?
5.	If yes for Q2, how is the forest used by the villagers?
6.	If yes for Q2, how is the forest managed? (committee, rules, penalty, etc.)
7.	If no for Q2, was there a village/community forest before? (yes, no)
8.	If yes for Q7, how did the village/community forest disappear?
9.	Is land erosion or landslide observed in the village? (yes, no)
10.	If yes for Q9, how does it happen?

a			
ст	b		c
d	e		f
g	h		i
What are the crops	mainly cultivated in	the dry season?	
a	b	<u></u>	C
d	e		f
g	h		i
How many househo	olds keep livestock?		
Cattle:	households	Goats:	households
Pigs:	households	Guinea Fowl:	households
Chickens:	households	Turkey:	households
Pigeon:	households		
Others (specify)			households
		•	households
		<u> </u>	households
What are the main	oroblems of farming	in your village?	
	_	in your village?	
a		_	
ab			
a b	·		
a b c d			
a b c d			
a b c d	·		
a	m in the rainy seaso	n? (yes, no)	
a b c d e Is flooding a proble	m in the rainy seaso	n? (yes, no)	
a	m in the rainy seaso	n? (yes, no)	

	How much did the The items which the		buy should be crossed	
	a. Fertilizer A.N		Kw/kg	
	b. Compound		Kw/kg	
	c. Urea		Kw/kg	
	d. local corn seed		Kw/kg	
	e. hybrid corn seed		Kw/kg	
	f. insecticide		Kw/litre	
	g. herbicide		Kw/litre	
	h. fungicide		Kw/litre	
	i. Animal manure		Kw/kg	
	j. corn stalk in the f		•	
			Kw/kg	
	k. orange seedling		Kw/piece	
	1. avocado seedling		Kw/piece	
	m. mango seedling		Kw/piece	
	m. mango seedling n. lemon seedling		Kw/piece Kw/piece	
18.	n. lemon seedling  How much did the	armers in the villa	Kw/piece	he following items (1998)?
18.	n. lemon seedling  How much did the the the items, which the	armers in the villa	Kw/piece age receive by selling t	<u>-</u>
18.	n. lemon seedling  How much did the the the items, which the	farmers in the villate villagers do not  Kw/kg	Kw/piece age receive by selling t sell, should be crossed	(XXX)
18.	n. lemon seedling  How much did the factor at the items, which the at maize  b. sorghum	farmers in the villate villagers do not  Kw/kg	Kw/piece  age receive by selling t sell, should be crossed  orange	(XXX)Kw/kg
18.	n. lemon seedling  How much did the factor at the items, which the at maize  b. sorghum	farmers in the villate villagers do not  Kw/kg  Kw/kg  Kw/kg	Kw/piece  age receive by selling t sell, should be crossed  orange avocado	(XXX) Kw/kg Kw/kg
18.	n. lemon seedling  How much did the factor of the items, which the a. maize b. sorghum c. millet d. groundnuts	farmers in the villate villagers do not  Kw/kg  Kw/kg  Kw/kg	Kw/piece age receive by selling t sell, should be crossed orange avocado mango	(XXX)Kw/kgKw/kgKw/kg
18.	n. lemon seedling  How much did the factor of the items, which the a. maize b. sorghum c. millet d. groundnuts	farmers in the villagers do not  Kw/kg  Kw/kg  Kw/kg  Kw/kg  Kw/kg  Kw/kg	Kw/piece  age receive by selling t sell, should be crossed  orange avocado mango lemon	Kw/kgKw/kgKw/kgKw/kg
18.	n. lemon seedling  How much did the factor of the items, which the sorghum considered described	farmers in the villagers do not  Kw/kg  Kw/kg  Kw/kg  Kw/kg  Kw/kg  Kw/kg	Kw/piece  age receive by selling t sell, should be crossed  orange avocado mango lemon banana	(XXX)  Kw/kg Kw/kg Kw/kg Kw/kg Kw/kg
18.	n. lemon seedling  How much did the factor of the items, which the sorghum considered downward of the cotton for sunflower good cabbage for the seedling for th	Farmers in the villagers do not  Kw/kg Kw/kg Kw/kg Kw/kg Kw/kg Kw/kg Kw/kg	Kw/piece  age receive by selling t sell, should be crossed  orange avocado mango lemon banana papaw	(XXX) Kw/kgKw/kgKw/kgKw/kgKw/kgKw/kg
18.	n. lemon seedling  How much did the factor of the items, which the sorghum considered downward of the cotton for sunflower good cabbage for the seedling for th	Farmers in the villagers do not  Kw/kg	Kw/piece  age receive by selling t sell, should be crossed  orange avocado mango lemon banana papaw live cow	(XXX)  Kw/kg Kw/kg Kw/kg Kw/kg Kw/kg Kw/kg Kw/kg Kw/kg Kw/kg
18.	n. lemon seedling  How much did the factor of the items, which the sorghum consilled dominated d	Farmers in the villagers do not  Kw/kg	Kw/piece  age receive by selling t sell, should be crossed  orange avocado mango lemon banana papaw live cow live goat	(XXX) Kw/kgKw/kgKw/kgKw/kgKw/kgKw/kgKw/kgKw/head (350kg)Kw/head (60kg)

## Section C Organizations and Community Activities

What kind of organizations do you have in your village or i	in your area? Are they active?
a	(active, moderate, not active)
b	(active, moderate, not active)
c	(active, moderate, not active
d	(active, moderate, not active)
e	(active, moderate, not active)
Is there (or was there) any project implemented in the village	ge? (ycs. no)
If yes, what kind of project is it?	
Do villagers form a group to apply for loans? (yes, r	10)
If yes, which organizations do they receive loans from? W	What is the main use of loans?
a	
b	

# Annex G.3 Questionnaire for Socio-economic Baseline Survey: Household Survey

# Baseline Survey on the Socio-economic conditions for the JICA Master Plan Study on Watershed Rehabilitation in Middle Shire

### **Household Survey**

4 Ethnic group  1. Yao 2. Ngoni 3. Lomwe 4. Sena 5. Chewa 6. Nyanja 7. Mang'anja 8. others (specify)  A4  5 Religion  1. Christian 2. Muslim 3. Indigenous 4. Others (specify)  6 Lineage  1. matriarchal 2. patriarchal 3. neither  A6  7 Were you born in this village? 1. yes 2. no  8. If NO in A7, when did you move to this village?  A8 yrs ago  9 If NO in A7, why did you settle in this village? 1. by marriage 2. immigrated (reason) 3. others (specify)  A9				Household Survey	Ref.	No
1 Name of the respondent 2 Sex 1. male 2. female 3 Age 4 Ethnic group 1. Yao 2. Ngoni 3. Lomwe 4. Sena 5. Chewa 6. Nyanja 7. Mang'anja 8. others (specify) 4 A4 5 Religion 1. Christian 2. Muslim 3. Indigenous 4. Others (specify) 4 A5 6 Lineage 1. matriarchal 2. patriarchal 3. neither 7 Were you born in this village? 1. yes 2. no 8. If NO in A7, when did you move to this village? 1. by marriage 2. immigrated (reason) 3. others (specify) A9	Sur Enu Vill	vey Time: imerator: age Name:	start	end bwe 2. Chigaru 3. Lundu 4. Kapeni	5. Makata	6. Machinjili
2 Sex 1. male 2. female A2  3 Age A3 yrs  4 Ethnic group 1. Yao 2. Ngoni 3. Lomwe 4. Sena 5. Chewa 6. Nyanja 7. Mang'anja 8. others (specify) A4  5 Religion 1. Christian 2. Muslim 3. Indigenous 4. Others (specify) A5  6 Lineage 1. matriarchal 2. patriarchal 3. neither A6  7 Were you born in this village? 1. yes 2. no A7  8. If NO in A7, when did you move to this village? 1. by marriage 2. immigrated (reason) 3. others (specify) A9	Sec	ction A	General I	nformation		
3 Age 4 Ethnic group 1. Yao 2. Ngoni 3. Lomwe 4. Sena 5. Chewa 6. Nyanja 7. Mang'anja 8. others (specify) A4  5 Religion 1. Christian 2. Muslim 3. Indigenous 4. Others (specify) A5  6 Lineage 1. matriarchal 2. patriarchal 3. neither A6  7 Were you born in this village? 1. yes 2. no A7  8. If NO in A7, when did you move to this village? 9 If NO in A7, why did you settle in this village? 1. by marriage 2. immigrated (reason) 3. others (specify) A9	1	Name of the r	espondent		A1	
4 Ethnic group  1. Yao 2. Ngoni 3. Lomwe 4. Sena 5. Chewa 6. Nyanja 7. Mang'anja 8. others (specify)  A4  5 Religion  1. Christian 2. Muslim 3. Indigenous 4. Others (specify)  6 Lineage  1. matriarchal 2. patriarchal 3. neither  A6  7 Were you born in this village? 1. yes 2. no  8. If NO in A7, when did you move to this village?  A8 yrs ago  9 If NO in A7, why did you settle in this village? 1. by marriage 2. immigrated (reason) 3. others (specify)  A9	2	Sex		1. male 2. female	A2	
5. Chewa 6. Nyanja 7. Mang'anja 8. others (specify) A4	3	Age			A3	yrs
4. Others (specify)  A5  6 Lineage 1. matriarchal 2. patriarchal 3. neither  A6  7 Were you born in this village? 1. yes 2. no  8. If NO in A7, when did you move to this village?  A8 yrs ago  9 If NO in A7, why did you settle in this village? 1. by marriage 2. immigrated (reason) 3. others (specify)  A9	4	Ethnic group		5. Chewa 6. Nyanja 7. Mang'anja	A4	
7 Were you born in this village? 1. yes 2. no A7  8. If NO in A7, when did you move to this village? A8 yrs ago  9 If NO in A7, why did you settle in this village? 1. by marriage 2. immigrated (reason) 3. others (specify)  A9	5	Religion			A5 _	
1. yes 2. no  A7  8. If NO in A7, when did you move to this village?  9 If NO in A7, why did you settle in this village?  1. by marriage 2. immigrated (reason) 3. others (specify)  A9	6	Lineage		1. matriarchal 2. patriarchal 3. neither	A6	
9 If NO in A7, why did you settle in this village?  1. by marriage 2. immigrated (reason) 3. others (specify) A9	7	Were you bor	n in this villaį		A7 [	
1. by marriage 2. immigrated (reason) 3. others (specify) A9	8.	If NO in A7,	when did you	move to this village?	A8	yrs ago
10. Number of household members (including the respondent). A10				1. by marriage 2. immigrated (reason) 3. others (specify)	A9	

### 11 List of household members (The first row should be the respondent)

	a) Relationship	b) Sex	c) Age	d) Main	e) Side-job	f) Education
	to HH Head	M/F		Occupation	(code)	(code)
	(code)			(code)		
1	Allal (head)	A11b1	Allbl	Alldl	Allel	Allel
2	A11a2	A11b2	A11b2	A11d2	A11e2	A11e2
3	A11a3	A11b3	A11b3	A11d3	A11e3	A11e3
4	A11a4	A11b4	A11b4	A11d4	Alle4	A11e4
5	A11a5	A11b5	A11b5	A11d5	A11e5	A11e5
6	A11a6	A11b6	A11b6	A11d6	A11e6	A11e6
7	A11a7	A11b7	A11b7	A11d7	A11e7	A11e7
8	A11a8	A11b8	A11b8	A11d8	A11e8	A11e8
9	A11a9	A11b9	A11b9	A11d9	A11e9	A11e9
10	A11a10	A11b10	A11b10	A11d10	Allel0	A11e10
11	Allall	A11b11	A11b11	A11d11	Allell	Allell
12	A11a12	A11b12	A11b12	A11d12	A11e12	A11e12

#### Code for Relationship

- 1. wife
- 2. husband
- 3. mother
- 4. father
- 5. daughter
- 6. son
- 7. sister
- 8. brother
- 9. grandmother
- 10. grandfather
- 11. granddaughter
- 12. grand son
- 13. aunt
- 14. uncle
- 15. cousin
- 16. others (specify)

#### Code for Main Occupation and Side-job

- 1. farmer
- 2. farm labourer
- 3. fisherman
- 4. public officer (specify)
- 5. salary worker
- 6. casual labourer (non-farming)
- 7. private business (specify)
- 8. no job
- 9. student
- 10. child under school age
- 11. others (specify)

#### **Code for Education**

- 1. no formal education
- 2. some years in primary school
- 3. complete primary school
- 4. some years in secondary school
- 5. complete secondary school
- 6. complete vocational school
- 7. more than secondary school

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No.	ction	к
$\mathbf{v}$	CUVII	•

### Livelihood

1	What are the main sources of cash income for your household importance and the amount per year.	ld? Plea	order	the order of amount
		Blal	B1a2	Kw
	a. selling farm products		B1b2	Kw
	b. selling livestock / poultry	Blb1		Kw
	c. selling fish	Blcl	B1c2	
	d. selling other products (specify)	B1d1	B1d2	Kw
	e. salary from permanent job	Blel	B1e2	Kw
	f. wage from temporary job	Blfl	B1f2	Kw
	g. private business (specify)	Blgl	B1g2	Kw
	h. remittance from family members	Blhl	B1h2	Kw
	i. lending money	Blil	B1i2	Kw
	j. others (specify)	Bljl	B1j2	Kw
2	What is the total cash income of your household per year?		B2	
3	How many of your household members have an income source of	her than f	farming? B3	
	1. fishing 2. apiary 3. livestock / poultry 4. selling 5. charcoal production 6. brick production 7. running a shop / depo 8. food production 9. handi 10. beer brewing	craft	B4	(1
5	What are the main items of cash expenditure of your househousened importance and the amount per year.	old? Ple		
		D5-1	ord	er amount Kw
	a. food	B5a1	B5a2	Kw
	b. clothes	B5b1	B5b2	Kw
	c. children's education	B5c1	B5c2	Kw
	d. medical expenses	B5d1	B5d2	
	e. repayment of debt	B5el	B5e2 B5f2	Kw Kw
	f. agricultural input (fertilizer, seeds, etc.)	B5f1		
	g. transport	B5g1 B5h1	B5g2 B5h2	Kw Kw
	h. others (specify)	DJIII	D3112	1¢W
6	What is the total cash expenditure of your household per year?		В6	Kw/year
7	Do you (or any of your household members) use any credit schen 1. yes 2. no	ne?	В7	
	(If your answer is NO, proceed to B12)			
8*	If YES for B7, what is the credit source?  1 SMEF 2. Malawi Rural Finance 3. APIP 4. F 5. private financial company 6. From family or relationship of the second se	INCA atives	В8	

9*	If YES for B7 what is the main use of credit?  1.fertilizer 2. seeds 3. child's education 4. clothes 5. medical expenses 6. Repayment of debt 7. food 8. social entertainment 9. marriage 10. others (specify)	В9	
10	If YES for B7, how much did you borrow (1998-99 wet season)?	B10	Kw
11	If YES for B7, how much did you repay for 1998-99 debt?	B11	Kw
12	If NO for B7, what is the main reason for not borrowing?  1. have enough money 2. afraid of borrowing 3. no collateral 4. no guarantor 5. bureaucratic red tape against the loan application 6. not eligible as a defaulter or in arrears 7. others (specify)	B12	
1.2	a. What is the main source of drinking water in the rainy season?	B13a	
13			
	b. What is the main source of drinking water in the dry season?	B13b	
	1. shallow well 2. borehole 3. pond/lake 4. river 5. tapped water 6. others (specify)		
14	How far is the water source in the rainy season?	B14a B14b	minutes km
15	How far is the water source in the dry season?	B15a B15b	minutes km
16	How often has water to be fetched per day?	B16	times/day
17	Is water sufficient for your household?  1. Sufficient throughout the year 2. Mostly sufficient, but sometimes not sufficient 3. Not sufficient most of the time	B17	
18	Who usually fetches water?  1. man 2. woman 3. boy 4. girl 5. not fixed	B18	
19	Do you boil water before drinking?  1. yes 2. no	B19	
20	What fuel do you usually use for cooking? (fuel code)	B20	
21	What fuel do you usually use for heating? (fuel code)	B21	
22	What fuel do you usually use for lighting? (fuel code)	B22	
_	Fuel Code  1. wood 2. charcoal 3. grass 4. gas 5. electricity 6. kerosene 7. maize stokes/ pigeon pea stems 8. generator 9. animal dung 10. animal/plant oil 11. others (specify)		

23	11. others (specify)  If you use wood for cooking, heating or lighting, how do you obtain wood		
	1. own harvest 2. purchase 3. combination of bot 4. others (specify)	h B23	
24	If you use wood for cooking, heating or lighting, how many bundles (heat per week?	d load) o	of wood do you use
	per week:	B24	
25	In case of own harvest in B23, how far is the forest? (one way)	B25a B25b	minutes km
26	a. In case of own harvest in B23, how much time per week do you spend	collecting B26a	g wood? hours/week
	b. How much do you have to pay as fees for using the forest/woodlot?	B26b	Kw/bundle
27	In case of own harvest in B23, who collects fuel wood?  1. man 2. woman 3. boy 4. girl 5. not fixed	B27	
28	In case of purchase in B23, what is the price?	B28	Kw/bundle
29	Is fuel wood easily available?  1. easily available 2. not so easy, but available 3. not sufficient 4. not available at all	B29	
30	Do you have a toilet in your household compound?  1. yes 2. no	B30	
31	If yes for B30, what type of toilet do you have?  1. pit latrine 2. san plat 3. ventilated pit latrine 4. flush toilet 5. others (specify)	B31	
32	How do you mainly obtain following food items? (code)  a. maize b. cassava/sweet potatoes c. rice d. vegetables	B32a B32b B32c B32d	
	e. fruit f. meat g. fish h. eggs Code	B32e B32f B32g B32h	
	1. own product 2. purchase 3. Exchange 4. gir 5. others (specify)	fts from 1	relatives
33	From the following items, which are most frequently eaten at hom frequency)		ose 3 in order of
	1. chicken 2. eggs 3. pork 4. beef 5. goat meat 6. fish 7. milk 8. others (specify)	B33a B33b B33c	

34	How often do you eat any of the above items?	B34		times/week
35*	Which diseases have you or your household members suffered for the last 1. malaria 2. diarrhea 3. typhoid 4. cold 5. AIDS 6. eye disease 7. skin disease 8. tuberculosis 9. pneumonia 10. leprosy 11. hepatitis 12. coughing 13. others (specify)	st one y	ear.?	
	14. no disease	B3	35	
36	How far is the nearest clinic?	B3	36	km
37	How far is the nearest bus stop?	В3	37	km
38	Where did the most recent child birth of your family take place?  1. hospital / clinic 2. home 3. no recent child birth 4. others (specify)	В3	38	
39	Did the mother have any medical assistance?  1. none 2. by traditional midwife 3. by trained midwife 4. others (specify)	ife B3	39	·
40	Does any of your household member practice family planning?  1. yes 2. no	B4	10	
41*	If YES for B40, what are the contraceptive methods you or your househout 1. pills 2. loop/coil 3. condoms 4. traditional method 5. surgical method (men) 6. surgical method (women) 7. others (specify)	od		are using?
	8. don't know	B4	1	
42	Do you know a ceramic improved cooking stove ( <i>mbaula</i> )?  1. yes 2. no	B4	12	
43	Do you use a ceramic improved cooking stove (mbaula)?  1. yes 2. no	B4	13	
44	If no for B43, what is the reason of not using it?  1. not available 2. expensive 3. no need 4. others (specify)	B4	14	

# Section C Community Activity

1*	Which organizations are important in your village?  1. village committee 2. farmers' club 3. religious group 4. women's group		
	5. others (specify)	C1	
2	Do you belong to any organization?		
_	1. yes 2. no	C2	
3,	If YES for C2, of which organization are you a member?  1. village committee 2. farmers' club 3. religious group 4. women's group 5. others (specify)	С3	
4	If NO for C2, what is the reason?		
	C4		
5	What items need to be improved in your community? (Choose 3 in order  1. drinking water supply 2. roads 3. transportation 4. irrigation water 5. drainage/sewage facilities 6. education facilities 7. health/medical facilities 8. food shortage 9. credit systems 10. agricultural technology 11. forestation 12. security 13. others (specify)	C5a C5b C5c	tance).
6*	Which organizations do you know as assistance organizations?  1. MASAF 2. World Vision 3. FINCA 4. CURE 5. OXFAM 6. APIP 7. Concern Universal 8. GTZ 9. Government 10. Malawi Rural Finance Company		
	11. Others (specify)	C6	

## Section D Landholding and Land Tenure

1	What are the areas of your land?		
	a. farm land	Dla	Acres
	b. dimba	D1b	Acres
	c. grass field	D1c	Acres
	d. woodlot	D1d	Acres
	e. homestead	Dle	Acres
	f. non-arable land	D1f	Acres
	g. others	Dlg	Acres
2	What is the total landholding area of your household (including farmland, grass fields, forest, homestead, etc.)?	cultivat	ted and non-cultivated
		D2	Acres
3.	Do you have enough land to feed your family?		
<i>,</i>	1. yes 2. no	D3	
4	Do you rent (in) land for production such as farming, pasture, forest	ry?	
	1. yes 2. no	D4	
5	If YES in D4, how much is the rental charge of land? Or specify the	ne paym	ent in kind.
_	In case payment in kind (specify)	D5a D5b	Kw/ha/year
6	If YES in D4, who do you rent the land from?	D30	
	<ol> <li>family or relatives 2. villagers</li> <li>owner who lives in town 4. others (specify)</li> </ol>	D6	
7	Have you ever sold your land?		
	1. yes 2. no	D7	
8	From whom did you inherit your land?		
	1. mother 2. father 3. mother in law	D0	
	4. father-in-law 5. others (specify)	_ D8	
9	How do you know your land boundaries?		
	1. history/custom 2. document 3. mark		
	4. others (specify)	D9	

Section E Agriculture

1. Cropping in the wet season							
	-	Plot 1	Plot 2	Plot 3			Plot 5
a. plot size (ha)	E1a1		E1a2	E1a3	E1a4	E1a5	5
b. crop (code)	E1b1		E1b2	E1b3	E1b4	E1b5	5
c. planted area (ha)	E1c1		E1c2	E1c3	E1c4	E1c5	5
d. irrigation (code)	E1d1		E1d2	E1d3	E1d4	E1d5	5
e. chemical fertilizer (kg)	Ele1		E1e2	E1e3	E1e4	E1e5	5
f. organic fertilizer (kg)	E1f1		E1f2	E1f3	E1f4	E1f5	5
g. insecticide (litre)	Elg1		E1g2	E1g3	E1g4	E1g5	Ç
h. herbicide (litre)	E1h1		E1h2	E1h3	E1h4	E1h5	15
i. output (kg)	Elil		Eli2	E1i3	E1i4	E1i5	5
j. how much is sold (%)	E1j1		E1j2	E1j3	E1j4	E1j5	5
2. Cropping in the dry season							
		Plot 1	Plot 2	Plot 3	3 Plot 4	4	Plot 5
a. plot size (ha)	E2a1		E2a2	E2a3	E2a4	E2a5	15
b. crop (code)	E2b1		E2b2	E2b3	E2b4	E2b5	5
c. planted area (ha)	E2c1		E2c2	E2c3	E2c4	E2c5	ç
d. irrigation (code)	E2d1		E2d2	E2d3	E2d4	E2d5	
e. chemical fertilizer (kg)	E2e1		E2e2	E2e3	E2e4	E2e5	55
f. organic fertilizer (kg)	E2f1		E2f2	E2f3	E2f4	E2f5	2
g. insecticide (litre)	E2g1		E2g2	E2g3	E2g4	E2g5	55
h. herbicide (litre)	E2h1		E2h2	E2h3	E2h4	E2h5	15
i. output (kg)	E2i1		E2i2	E2i3	E2i4	E2i5	5
j. how much is sold (%)	E2j1		E2j2	E2j3	E2j4	E2j5	5
Irrigation Code Crop	Code						
gation	1. maize, hybrid	1.6	pigeon peas	17. sweet potatoes		33.	
	ize, inbred	10.	. sugar cane	18. Irish potatoes			
	ize, local	11.	cassava	19. tomato			
	mnyg	12.	sunflower	20. cabbage			
5. canal 5. mil	llet	13.	ground beans	21. chilli			
	Junanuts Hex		oanoara ocans	22. Ollion 23. garlic			
7. car 8. pac	8. paddy	15.	16. tobacco	24. string beans	32.	40.	

#### 3. Livestock

	Number of		During one year (1998)				
	animals	Number of	Number of	Number of	Number of	Number of	
	owned at	animals	animals	animals sold	animas	animals	
	present	bred	bought		eaten/dead	stolen	
a. cattle	E3a1	E3a2	E3a3	E3a4	E3a5	E3a6	
b. goats	E3b1	E3b2	E3b3	E3b4	E3b5	E3b6	
c. pigs	E3c1	E3c2	E3c3	E3c4	E3c5	E3c6	
d. turkey	E3d1	E3d2	E3d3	E3d4	E3d5	E3d6	
e. pigeon	E3e1	E3e2	E3e3	E3e4	E3e5	E3e6	
f. chicken	E3f1	E3f2	E3f3	E3f4	E3f5	E3f6	
g	E3g1	E3g2	E3g3	E3g4	E3g5	E3g6	
h.	E3h1	E3h2	E3h3	E3h4	E3h5	E3h6	
i.	E3i1	E3i2	E3i3	E3i4	E3i5	E3i6	

1. yes, all of my field 2. Yes, but not all of my field 3. no  (If YES, proceed to E7)  6. If NO in E5, what is the main reason?  1. seeds are expensive 2. no effect is expected 3. others (specify)	4*	How do you cultivate your field before sowing maize or other cereals?  1. making high ridges with hoe 2. making low ridges with hoe 3. cultivate with hoe but without ridges 4. plough by a draught animal 5. first burn the field 6. others (specify)	E4	
1. seeds are expensive 2. no effect is expected 3. others (specify)	5.	1. yes, all of my field 2. Yes, but not all of my field 3. no	E5	
1. yes 2. no a. apply farm yard manure b. apply cut residue of previous year's crops c. apply straw mulch or grass mulch to cover field d. incorporate woodlot litter, green leaves (jelejele, etc.) into the soil e. plant (vetiver) grass on the hedge of the field  Have you ever seen soil of your field washed away by rain? 1. yes, often in the rainy season 2. yes, but seldom 3. no, because my field is flat 4. no, because of high ridging 5. no, because of grass cover 6. no, because of box ridges	6.	1. seeds are expensive 2. no effect is expected	E6	
<ol> <li>yes, often in the rainy season</li> <li>yes, but seldom</li> <li>no, because my field is flat</li> <li>no, because of high ridging</li> <li>no, because of grass cover</li> <li>no, because of box ridges</li> </ol>	7	<ol> <li>yes 2. no</li> <li>a apply farm yard manure</li> <li>apply cut residue of previous year's crops</li> <li>apply straw mulch or grass mulch to cover field</li> <li>incorporate woodlot litter, green leaves (jelejele, etc.) into the soil</li> </ol>	E7b E7c E7d	
7. no, because of other reason (specify) E8	8	<ol> <li>yes, often in the rainy season</li> <li>yes, but seldom</li> <li>no, because my field is flat</li> <li>no, because of high ridging</li> <li>no, because of grass cover</li> </ol>	E8	
9* Where is your crop field?  1. on steep slope 2. on gentle slope 3. on flat land  E9	9*	<ol> <li>on steep slope</li> <li>on gentle slope</li> </ol>	E9	

10	Is the harvest from your field constant or variable from year to year?  1. fairly constant 2. changing but little 3. variable by weather		
	<ul><li>4. tendency to decrease year by year</li><li>5. others (specify)</li></ul>	E10	
11	What is your most important source of agricultural technology? (choose one 1. parents 2. neighbor farmers 3. extension worker 4. farm input supplier 5. own experience 6. others (specify)	E11	
12	Do you use chemical fertilizer?  1. yes 2. no	E12	
13	If YES in E12, for what crop do you use?  1. maize 2. vegetables 3. cotton 5. Tobacco 5. others (specify)	E13	
14	If NO in E12, what is the reason?  1. too expensive 2. not good for the soil 3. not effective 4. no means of transportation 5. Others (specify)	E14	
15	Do you use organic fertilizer? 1. yes 2. no	E15	
16	If YES in E15, for what crop do you use?  1. maize 2. vegetables 3. cotton 4. tobacco 5. others (specify)	E16	
17	If NO in E15, what is the reason?  1. not available 2. not effective 3. no knowledge 4. too expensive 5 others (specify)	E17	
18	How do you shell maize?  1. by machine 2. by hand 3. by threshing sticks	E18	
19*	Who does the shelling of maize?  1. male family member 2. female family member 3.hired male labourer 4. hired female labourer	E19	
20	How do you grind maize?  1. by engine mill 2. pound manually by pestle 3. both 4. others (specify)	E20	
21	Do you hire any farm labor?  1. yes, only men 2. yes, only women 3. Yes, both men and women 4. no	E21	
22	If YES in E21, how much do you pay as wage (without meals)?  a. men  b. women  c. by contract  E22a  E22b  E22c		Kw/day Kw/day Kw/acre

1. land preparation 2. sowing 3. weeding			
	F23	<u> </u>	
7. Others (specify)	1.2.5	<u> </u>	
Where do you sell your crops?			
1. at the farm/home 2. at the market			
3. at ADMARC 4. do not sell	E24		
How for is the market? a local market	E25a		km
			km
U. IDIMINO	LL20		1111
Who buys your crops?			
	E26		
· •			
How do you transport your crops to the market?			
1. own transport 2. hired transport 3. do not tran	sport		
	E27		
IC and the second substitute and the main type of transport?			
1 tractor 2 nick-up 3 truck 4 hus 5 tiller			
	E28		
7. Hand hour outly 10. outlets (speedly)	220		
If you use hired transport, how much do you pay from the farm to the n	narket?		
	E29		Kw
	1. land preparation 2. sowing 3. weeding 4. harvesting 5. post harvest 6. pest control 7. others (specify)	1. land preparation 2. sowing 3. weeding 4. harvesting 5. post harvest 6. pest control 7. others (specify)	1. land preparation 2. sowing 3. weeding 4. harvesting 5. post harvest 6. pest control 7. others (specify)

## Section F

## Agroforestry

Definition: Farmland management system which combines tree planting, farm cultivation, compost, livestock, etc.

1	Do you know agroforestry? 1. yes 2. no	F1	·
2	Do you practice agroforestry?  1. yes 2. no	F2	
	(If your answer is NO, proceed to F10)		
3*	If yes for Q2, what type of agroforestry are you practising?  1. alley cropping 2. planting of farmland hedge trees planting 4. wind bread 5. compost mulching 6. others (	3. riverspecify) _ F3	r, valley hedge
4*	If yes for Q2, what trees or grasses do you plant? (choose from the list)	F4	
5*	If yes for Q2, what benefit do you obtain from those trees or plants?  1. fruits 2. livestock feeding 3. fuelwood 4. grasses for mulching 5. protection from land erosion 6. preserve soil humidity 7. others (specify)	F5 '	
6*	If yes for Q2, how much income does your agroforestry earn?  a. fruits b. livestock feeding c. fuelwood others (specify) d e	F6a F6b F6c F6d F6e	Kw Kw Kw
7*	If yes for Q2, what organization do you have for developing agroforestry?  1. village group 2. TA 3. committee 4. RDP  5. EPA 6. none 7. others (specify)	F7	
8*	If yes for Q2, how do you maintain agroforestry?  1. lower story cutting 2. fertilizing 3. agri-chemical 5. others (specify)	4. comple F8	ement planting
9	If yes for Q2, how do you use plant or grasses compost after harvest?  1. fire start 2. livestock feeding 3. cultivation 4. others (specify)	F9	
10	If no for Q2, do you have intention to start agroforestry?  1. yes 2. no	F10	
11	If no for Q10, what are the reasons?  1. no seedling 2. no land space for agroforestry 3. no effect 4. no reasons 5. no knowledge 6. others (specify)	F11	

## Section G Forestry

1	Do you have a forest/woodlot that you have a right to use?  1. yes 2. no	Gl	
2	(If NO, proceed to G11)  If yes in G1, what type of forest is it?  1. community forest 2. customary land 3. own forest 4. reserved forest 5. Others (specify)	G2	
3*	If yes in G1, how do you benefit from the forest other than fuelwood?  1. poles 2. bee hives 3. medical plants 4. Hunting 5. 6. keeping guinea fowls 7. Others (specify)	collectir G3	ng fallen leaves
4	If yes in G1, how big is the forest?	G4	ha
5	If yes in G1, how many trees in the forest?	G5	trees
6*	If yes in G1, what kind of species of trees are there in the forest?	G6	
7	If yes in G1, how many households share the forest and forest products?	G7	households
8	If yes in G1, how do you share the forest and forest products?  1. organization (specify) 2. rules (specify)  4. others (specify)	3. rar G8	ndom
9	If yes in G1, who manages the forest?	G9	
10*	If yes in G1, what kind of maintenance of the forest are undergoing?  1. lower story cutting 2. thinning 3. clear cutting 4. agriplanting 6. replanting 7. nothing special 8. others (special 4. others)		d 5. complement
11	Do you want to plant (more) trees?  1. yes 2. no	G11	
12*	If YES in G11, what are the purpose of planting trees?  1. fuelwood for cooking (at home)  2. fuelwood for heating (at home)  3. fuelwood for selling 4 production of wood poles  5. production of fruits 6. improvement of soil condition and environment 7. production of charcoal  8. production of handicraft or carving  9. others (specify)	G12	
13	If NO in G11, what are the reasons?  1. no seeds 2. no seedlings 3. no space for trees 4. no lost by stealing, fire, etc. 6. no reason  7. others (specify)	effect G13	5. trees will be
14	In your opinion what is the main cause of forest fire?  1. accidental fire 2. intentional fire 3. slash and burn 4. others (specify)	G14	