II-C

Social Forestry

Annex II C Social Forestry

- II-C-1: Results of graveyard forest survey at three sampled villages of the MA
- II-C-2: Format of questionnaire in firewood consumption
- II-C-3: Firewood consumption of three sampled villages
- II-C-4: Adapting technologies by afforestation components

Annex II-C-1: Results of graveyard forest survey at three sampled villages of the MA

********	Ndema	nje Village	Nanji	wa Village	Kaumba	ta Village
-	Local name	Scientific Name	Local name	Scientific Name	Local name	Scientific Name
1	Chinama	Combretum collinum	Chan'dimbo	Cssonia arborea	Bwemba	Tamarindus indica
2	Chipakasa	Cussonia arborea	Chinama	Combretum collinum	Chinama	Combretum collinum
3	Chipembere	Xeromphis obovata	Chipembere	Xeromphis obovata	Chipakasa	Lonchocarpus capassa
4	Chitimbe	Bauhinia petersiana	Chiteta	Elephantorrhiza goetzi	Chitimbe	Bauhinia petersiana
5	Kafupa	Stereospermum kunthianum	Chitimbe	Bauhinia petersiana	Kapasule	
6	Kakunguni		Chiumbu	Brachystegia spiciformis	Khope	
7	Kapasule		Futsa	Vernonia amygdalina	Mateme	Strychnos spinosa
8	M'bawa	Khaya anthotheca	Kadyabusa		Matowo	Azanza garckeana
9	M'ngongomwa	Afzelia quanzensis	Kapasule		Mchenje	Julbernardia spp.
10	Matowo	Azanza garckeana	Matowo	Azanza garckeana	Mfula	Sclerocarya caffra
	Mkuyu	Ficus capreifolia	Mchenje	Julbernardia spp.	Mfungo	Anisophylea pomifera
12	Mlambe	Adansonia digitata	Mlambe	Adansonia digitata	Mlambe	Adansonia digitata Pterocarpus
13	Mpoloni	Steganotaenia araliacea	Mlapesho		Mlombwa	angolensis
14	Mpoza	Annona senegalensis	Mombo	Brachystegia bohemii	Mphandula	Bauhinia petersiana
15	Msukamano	Clerodendrum spp.	Mpakasa	Lonchocarpus capassa	Mpoza	Annona senegalensis
16	Mulombwa	Pterocarpus angolensis	Mphando	Bauhinia petersiana	Mvunguti	Kigelia africana
17	N'dyapumbwa	Melia azadarach	Mpolowoni		N'goza	Steculia africana
18	N'thethe	Acacia sieberana	Mulombwa	Pterocarpus angolensis	N'ngongomwa	Afzelia quanzensis
19	Naphini	Terminsria sericea	N'khalagonk honi		Naphini	Terminsria sericea
20	Nkalati	Burkea africana	Naphini	Terminsria sericea	Nchenje	Margaretta rosea
21	Nkotamo		Nc'chenje	Margaretta rosea	Njenjeti	
22	Nkundi	Parkia filicoides	Nkalati	Burkea africana	Nkhalankhanga	
23	Ntunda	Turraea nilotica	Nsolo	Pseudolachnostylis maprouneifolia	Nkhunkhu	Acacia garpinii
24	Setanyani	Steculia quinqueloba	Ntangatanga	Albizia versicolor	Nkuyu	Ficus capensis
25	Thombozi	Diplorrhynchus condylocarpon	Nthudza	Flaucourtia indica	Nsikidzi	Piliostigma thoningi
26		· · · · · · · · · · · · · · · · · · ·	Mtumbu	Kirkia acuminata	Ntangatanga	Albizia versicolor
27			Phingo	Dalbergia melanoxylon	Nteme(Mateme)	Strychnos spinosa
28			Thombozi	Vernonia amygdalina	Nthethe	Acacia sieberana
29			Thonga	26	Nthuza	Flaucourtia indica
30			Tsamba	Brachystegia spp.	Ntondo	Cordyla africana
31					Ntonongoli	
32					Ntumbu	Kirkia acuminata
54						Dalbergia
33					Phingo	melanoxylon

Tree species growing in three sampled villages of the MA

Survey results of graveyard vegetation

	Kaumbata	a graveyard		Ndemanje	graveyard	Nanjw	va graveya	rd located at Teula
Tree #	dbh (cm)	Tree Species	Tree #	dbh (cm)	Tree Species	Tree #	dbh (cm)) Tree Species
1	36	Chinama	1	46	Chimbakasi	1	24	Chinama
2	24	Thombozi	2	6	Mpalo	2	14	Ntunda
3	22	Thombozi	3	6	Mpalo	3	14	Chinama
4	16	Thombozi	4	6	Mpalo	4	43	Msolo
5	23	Thombozi	5	6	Mpalo	5	6	Chinama
6	29	Thombozi	6	6	Mpalo	6	17	Mpenje
7	21	Thombozi	7	• .		7	9	Tsamba
8	21	Thombozi	8	6	Mpalo	8	8	Folokona
9	51	Tonongoli	9	6	Mpalo	9	5	Chinama
10	39	Tonongoli	10	6	Mpalo	10		Nthenje
11	33	Thombozi	11	23	Chimbakasa	11	10	Chinama
12	9	Thomozi	12	20	Chimbakasa	12	13	Thombozi
13	21	Thombozi	13	13	Phingo	13	12	Kanthanyelere
14	15	Thombozi	14	7	Phingo	14	6	Chinama
15	27	Thombozi	15	38	Mphando	15	6	Folokona
16	35	Thombozi	16	32	Mphando	16		Chinama
17	33	Mpandula	17	19	Mphando	17	28	Minga
18	18	Mpandula	18	16	Mphando	18	22	Chinama
19	29	Mpandula	19	46	Ntonongoli	19	12	Folokona
20	30	Mpandula	20	5	Phingo	20	126	Ntondoloko
21	29	Mpandula	21	32	Chinama	21	108	Ntondoloko
22	32	Mpandula	22	19	Mphando	22	45	Mpakasa
23	12	Kapasule	23	11	Chimbakasa	23	10	Kafupa
23	25	Tsukamano	23	21	Mphando	23	16	Mtumbu
25	22	Tsukamano	25	19	Mphando	25		Chinama
26	48	Tsukamano	26	6	Phingo	26		Chinama
20	18	Tsukamano	27	24	Phingo	27	9	Phingo
28	19	Mpandula	28	10	Ntondoko	28	8	Folokona
20 29	36	Thombozi	29	10	Phingo	29	73	Ntheza
30	32	Mpandula	30	10	Phingo	30		Ntheza
31	29	Mpandula	31	10	Phingo	31	16	Ntheza
32	51	Thombozi	32	10	Phingo	32		Ntheza
33	53	Thombozi	32	10	Phingo	33		Ntumbu
34	23	Thombozi	34	10	Phingo	34		Chinama
35	19	Thombozi	35	10	Phingo	35		Chinama
36	26	Thombozi	36	10	Phingo	36		Mpoloni
37	20 28	Tsukamano	30	10	Phingo	30		Chinama
38	28 18	Mphangala	38	10 10	Phingo	38		Ntheza
38 39	18	Nthonyoli	38 39	10 10	Phingo	38		Ntumbu
39 40	13 23	Thombozi	39 40	10	Phingo	39 40		Chinama
$\frac{40}{41}$		Thombozi	40 41	10	Phingo Phingo	40		Chinama
	23				•	41		
42	23	Thombozi	42	10 10	Phingo Phingo			Mpoloni
43	24	Thombozi	43	10	Phingo Ntenen seli	43		Chinama
44	25	Thombozi	44	12	Ntonongoli	44		Ntheza
45	32	Thombozi	45	10	Ntonongoli	45		Chiumbu
46	11	Mpandule	46	18	Chinama	46		Tsamba
47	33	Mpandue	47	16	Chinama	47	6	Khonje

	Kaumba	ta graveyard	1	Ndeman	e graveyard	Nanjwa	gravey	ard located at Teu
48	18	Ntunda	48	7	Phingo	48	58	Naphini
49	29	Mpandule	49	8	Phingo	49	38	Chinama
50	66	Mmpape	50	6	Phingo	50	28	Ntumbu
51	7	Mulembela	51	8	Phingo	51	55	Minga
52	6	Mtumbu	52	6	Phingo	52	6	Ntumbu
53	35	thombozi	53	7	Phingo	53	12	Tsamba
54	6	Mtumbu	54	17	Mphando	54	17	Nthenthanyeler
55	6	Mpolowoni	55	19	Mphando	55	56	Mtumbu
56	6	Mtumbu	56	9	Phingo	56	26	Nthenthanyeler
57	16	Mpandula	57	7	Phingo	57	58	Ntumbu
58	40	Thombozi	58	6	Phingo	58	6	Ntumbu
59	28	Mlembela	59	10	Phingo			
60	29	Thombozi	60	5	Phingo			
61	32	Mpandula	61	7	Phingo			
62	27	Mpandula	62	7	Phingo			
63	62	Thombozi	63	9	Phingo			
64	79	Naphini	64	10	Ntonongoli			
65	26	Mpandula	65	8	Chinama			
66	30	Mpandula	66	14	Chinama	- <u></u>		
67	45	Mpandula	67	9	Chinama			
68	21	Mpandula	68	10	Kakunguni			
69	39	Mpandula	69	11	Kakunguni			
70	27	Mpandula	70	13	Ntonongoli			
71	18	Nchenje	71	27	Ntonongoli			an a
, 1	10	1 (energe	72	182	Ntumbu			
			73	4	Folokona			
			74	13	Folokona			
			75	8	Folokona			
			76	7	Mphando			
			77	19	Tsamba			
			78	16	Ntundaa			
			79	11	Kanthepa			
			80	12	Chimphakasa			
	·		81	6	Mpalo			
			81	35	Ntonongoli			
			82	25	Ntonongoli			
			83 84	4	Mpalo			
			84 85	3	Nantana			
			85	7	Phingo			
			80 87	8	Phingo			
			88		-			
			88 89	9 6	Phingo			
					Phingo			
			<u> </u>	$\frac{10}{6}$	Phingo Phingo			
					Phingo			
			92	21	Blastage			
			93	23	Blastage			
			94	7	Blastage			
			95	14	Blastage			
			96	10	Blastage			
			97	22	Blastage			

Kaumbata graveyard		Ndeman	je graveyard	Nanjwa graveyard located at Teula
	98	34	Blastage	
	99	8	Nchingachinga	
	100	6	Nchingachinga	
	101	5	Folokona	
	102	5	Folokona	
	103	5	Folokona	
	104	5	Folokona	
	105	5	Folokona	
	106	5	Folokona	
	107	5	Folokona	
	108	5	Folokona	
	109	5	Folokona	
	110	5	Folokona	
	111	5	Folokona	
	112	5	Folokona	
	113	5	Folokona	
	114	5	Folokona	
	115	5	Folokona	
	116	5	Folokona	
	117	5	Folokona	
	118	5	Folokona	
	119	5	Folokona	
	120	31	Ntongoli	
	121	28	Ntongoli	
	122	16	Ntongoli	
	123	21	Ntongoli	
	124	13	Chimphakasa	
	125	30	Chipembere	
	126	12	Chipembere	
	127	18	Thombozi	
	128	44	Mpakasa	
	129	28	Ntonongoli	
·····	130	18	Ntonongoli	
	131	24	Phingo	
	132	24	Phingo	
	-133	22	Phingo	

II-C-2: Format of questionnaire in firewood consumption

1.	Name of household		
2.	Village Name		
3.	Total people in the household	Adults	Children
4.	Education attained by the household		
5.	Weight of typical headload from field		
6.	Time such headload lasts before it is completely used		
7.	Distance to the firewood collection sites	in Km	
8.	Time taken to fetch firewood in hours		
9.	Weight of bundles of wood in the compound		
10.	Time such bundle of wood lasts		
11.	Tree species mainly used for firewood in Kichewa		
12.	Amount of kerosene bought by the household	Ml	Liters
13.	Time such kerosene lasts		
14.	Number of planted trees in the farm owned by the household	Species	No
15.	Source of tree seedlings or seeds for trees planted in the farmstead		
16.	Uses of trees planted in the farms		
17.	Observation and information on other uses of firewood		
18.	Observation on type of houses for the households sampled		

Format of the Questionnaire

Note 2: A daughter who was married or single mother who had separate houses and cooking facilities from that of mothers in the same compound were regarded as separate households for the purposes of firewood consumption.

Note 3: Explanation that we needed to know the wood consumption data was made by the counterpart staff.

Note 4: Counterpart staff also supported the survey of tree species in Chichewa (local name).

****	Household	Firewood	Firev	vood consum	ption		
Name	member.	Collection	P	er person (kg	5)	- Remarks	
Name	No.	Annual hrs	Daily	Annual	Annual w/ IGAs	- Kemarks	
Kaumbata village							
1 Jaffari Stanbi	6	104	1.0	279	279		
2 Aeme Chipeto	5	104	0.5	135	135	Brick making Fish smoke	
3 Bosta Stima	4	104	0.5	124	124		
4 Luis Stima	7	104	0.5	139	139		
5 Jenifer Petro	5	104	1.5		405	Brick making	
6 Julius Kachisa	17	104	0.5	143	143	5	
7 Ann Jamah	3	104	0.8	219	219		
8 Edith Ndinesi	7	208	0.5	144	144		
9 Esnati Ndinesi	2	208	1.6		429	Fish smoke	
10 Anne James	3	234	0.7	190	190		
Sub total (Avg.)	<u>59</u>	138	0.7	172	221		
Sub total (Avg.)	(Total)	150	0.0	1/4			
Noniiwo willogo	(Iotal)						
Nanjiwa village	~	104	0.0	225	225		
11 Lucia Isack	7	104	0.8	225	225		
12 Dorothy Chaponda	4	26	0.9	236	236		
13 Kennedy Wawar	5	156	0.8	205	205		
14 Haliet Nelson	3	52	1.5	22.6	394	Making Kachasu	
15 Cidres Michael	4	104	0.9	236	236		
16 Titon Mapundo	5	104	1.1	286	286		
17 Daina Potani	3	156	1.0	273	273		
18 Maritha Friday	6	104	0.6	158	158		
19 Stevalia Isaac	3	208	3.7		990	Making Kachasu	
20 <u>Mae Mekeasi</u>	5	156	0.9	243	243		
Sub total (Avg.)	45	117	1.2	233	325		
	(Total)						
Ndemanje							
21 Mercy Joseph	5	156	1.4	369	369	Wood within compound	
22 Mebulo Njangaza	2	156	1.2	328	328	Wood within compound	
23 Alice Friday	3	104	2.0		533	Making Kachasu	
24 Dinah Kausiwa	3	104	2.4		660	Making Kachasu	
25 Patricia Grey	3	104	1.8		473	Making maze cake	
26 Funny Wiledi	2	104	1.1	285	285	0	
27 Mrs Masire	2 4	52	1.0	268	268		
28 Beatrice Karongo	4	104	0.9	253	253		
29 Anne Kuchombo	8	156	0.3	93	93		
30 Aida daniel	4	104	0.8	215	215		
***************************************	38	114.4	1.3	215	348		
Sub total (Avg.)	38 (Total)	114.4	1.3	437	340		
Total Average	4.7	123	1.1	219	298	***************************************	

II-C-3: Firewood consumption of three sampled villages

Firewood consumption of three sampled villages in the MA

Note: The above data has no exact consistency with RRA result regarding a number of IGAs practicing household, because of sampling survey.

No N	Forest type	Afforestation site	Technology	Species
1	Farmers' forest	allocated land		
	Individual woodlot (block of trees & scattered)		Weeded area Spa 2x2m or Weeded area by 4x4m Rapid growth, timber species	Eucalyptus camadulensis, E. saligna,
	Riverbank forest		Spot weeding & planting seedling by 1x1m	Melea azaderach, Toona ciliata,
	Planting boundaries Planting along gully erosion		-do-	Leucaena leucocephala Bambusa vulgaris
2	Village forest	Communal land		etc.
	AF nursery demo forest		Screefing and Planting. Leaving large indigenous trees intact. Spa 2x2 m	Gmelina arborea, Pterocarpus angolensis,
			Mixed forest	Eucalyptus camadulensis,
	Trial village forest		Rapid growth species Mixed forest	<i>Senna siamea,</i> Acacia species, etc.
3	Public forest	Public land		
	- Graveyard forest		Expansion planting of indigenous trees in graves.	Zizyphus mauritiana
	- Bore hole forest		Eucalyptus in schools. Spa 1x1m	Zyzygium cordatum
	- Road side forest			Albizia lebbeck Pterocarpus
	- School forest			angolensis
	- Church / mosque forest			Khaya anthotheca Eucalyptus grandis
				etc.
4	Rehabilitation of degraded natural vegetation	Communal land	Enrichment planting only with indigenous trees. Spa 10x10m	Mostly indigenous species eg Lonchorcarpus capasa, Pterocarpus angolensis, Khaya athotheca

Annex II-C-4: Adoption of technologies by afforestation components

Notes on technology:

Hygienic practices will be practiced in tree nursery to avoid raising diseased plants.
All forests will be planted from seedlings raised in tree nurseries.

For private forests, technical rotation will be 8 years.
Utilization of indigenous forests will strictly be based on selection felling.

II-D

Agriculture

II-D. Agriculture

Farm Economy Survey Data 1	II-D-1
Farm Economy Survey Data2	II-D-2
Farm Economy Survey Data3	II-D-3
Correlation among FactorsMeasured in Farm Economy Survey	II-D-4
Crop Composition and Farming Practices	II-D-5

Data Number	Table	D - 1	3	Farm E	conomy	Survey 6	Data 1	8	9	10	11
Survey Date : Aug.2000	18	18	18	19		19	21	21	21	21	22
Name of Village	Makanani		Teula	Chicoja	Makonoka					PeterBilila	
Name of Farmer	Edina	Anderson		Kodine	Edwar	Malija	C.Yusuf	Kabotolo	Amiru Jefi		Kuseli
Number of familymember	5	5	8	5	7	8	10	4	8	4	4
Number of farm labor	2	2	4	2	4	2	4	4	4	2	2
Other income activities	dimba	dimba	dimba	0	0	veget	dimba	dimba	dimba	dimba	dimba
Number of hats	4	1	2	3	3	2	1	2	3	2	1
Number of farm parcels	3	2	2	3	1	3	3	2	3	4	1
Measured farmland area*	0.5	0.4	3.6	0.75	0.85	0.6	1.2	1.06	0.31	0.23	1.1
Sown area this year Maize %	70	80	80	70	80	90	85	80	90	95	90
Groundnut%	0	0	20	0	0	0	5	10	10	0	5
Sorghum %	10	20	10	20	0	10		5	0	0	5
Cassava %	10	0	0	10		0	10	0	0	5	10
Pigeon Pea %	20	20	10	30		10		25	10	25	2
Sweet potato/ bean %	10	0	0	0		0		0	0		20
Harvest 2000 Maize(bag)	6	1	80	18	-	4	19	17	8	19	10
Groundnut (bag)	0	0	18	0	0	0	0.5	0	1	0	2
Sorghum (bag)	1	0.5	$\frac{1}{2}$	2	0	1	0.5	1.5	0	0	1
Cassava (kg)	50	0	0	1,000	0	0		0	0	0	200
Pigeon Pea (bag)	$\frac{1}{30}$	$\frac{1}{0}$	$\frac{1}{0}$	2	150	0.5	2	$\frac{2}{2}$	1	150	1
Sweet potato(kg)		0	0	0		0	*****************	0	0	150	0
Ouantity sold Maize/MK		0	0	0	0	0	0	0	0	0	0
Groundnut (MK 12 / kg)				0		0			0		0
Sorghum: (MK7 / kg)		0	0	600	0	0		0	0	0	0
Cassava (kg) (MK 3 / kg) Pigeon Pea: (MK 12 / kg)				000		0					0
Pigeon Pea: (MK 12 / kg) Sweet potato(MK 5 / kg)		-	0	0	-	0			0	-	0
Ouantity seed sown Maize (kg)	10		75	10		5		35	8	20	20
G'nut / Pigeon pea (kg)	1	0.2	1	10	$\frac{J}{1}$	0.5	0.5	0.5	0.4	0.3	0.5
Ouantity of CAN. DAP.	CAN1	CAN1	C.Ur2	Sttp 1	Sttp 1		CAN2	DP3.5	DAP2		CAN1
green manure/dung /residue	0		res 2	res 2	res 1	res 1	res 1	res 1	c.dung		g.dung
Applied crop	dimba	dimba	both	upland.	upland.	upland.	upland.	upland.	dimba	dimba	dimba
Agricultural Chemicals	ripcon	ripcon	rip.act	sevin	-	-	-	-	-	-	sevin
Applied crop	dimba	dimba	upland	upland	-	-	-	-	-	-	dimba
Theft. diseases and pests	M.Bug	M.Bug	M.Bug	grasshp	s.borer	grasshp	s.borer	M.Bug	locust	blight	aphid
Affected crops	p.pea	p.pea	p.pea	p.pea	maize	p.pea	p.pea	p.pea	maize	tomato	tomato
Dimba cultivation (sq.m)	150	200	100	0	0	100	250	200	130	150	500
Dimba crops	chi.rap	tomato	chi.rap	-	-	tomato	chi.rap	tomato	chi.rap		tomato
Ann. quantity sold cash cr. kg	350	400	0	0		100	400	500	1,000	500	1,800
Number of heads Cows	0	0	20	0		0	-	0	0	0	0
Pies:	0		0	0		0		0	0	0	0
Goats:	0	0	0	1	5	0		3	0	0	1
Chicken / Ducks	12	7	10	3		0		53		16	4
Turkevs:		0		4		0		0	0	0	0
Doves:	0	0	0	0	-	0		0	0	rabb6	0
Rabbits / G.fowls Livestock sold: cow / goats		0	slter5	goat1	goat2	0		goat2	0	rabb5	0
Digs	0	0	0	0		0		0	0	0	0
chicken	Ö	0	Ő	0		Ő	-	20	15	0	0
Accident / theft	once.g	theft			theft	died	died	0	theft	0	Õ
diseases	new.c.	0	new.c.		new.c.	new.c.	new.c.	vaccine	new.c.	new.c.	0
Food Balance self-supplied	70%	10%	100%	65%	70%	60%	60%	55%	100%	85%	95%
Food Purchased (kg/vr)	400	600	0	300	250	750	300	250	0	500	600
Period of food shortage (mth)	4		0	4		3		5.5	0	2	1
Number of meal / day	3	3	3	2		1	3	2	3	3	3
Annual Income from crop	2,100	2,500	0	1,800		700	2,200	2,500	1,800	4,500	30,000
Ganvu(-for employing)	600	500	0	0		0			0	0	200
Livestock sale	0			600		0			2,250	375	0
Vocation / IGAs	0		1,000	500	1,000	0			0	0	
Estimated total income	2,700	3,000	31,000	2,900		700		5,600	4,050	4,900	44,200
Starter pack availability	0	0	0	750		750			750	750	750
vocational expertise	0 900	1,000	2,500	0 300		0 0		2,900	<u>0</u> 400		carpento 1,000
Annual Expenditure, inputs	2,000	2,500	3,000	1,500		700		1,250	400	1,250 500	3,000
Food Purchase:	2,000		2,000	1,500		/00		500	300	400	2,000
House Repair/Furniture			2,000	1,000		0		0		400	2,000
Borehole Maintenance fee Maize milling fee	140	25	510	150		100		100	100	120	00
Transport, school	140		0	150		0		0	0	120	0
Clinic. Medicine:		0	500	0		0		0	0	500	0
Clinic Medicine: Ceremonies:	500	200	600	0		200		500	2,000	300	2,000
Cloth. utensils. others	0	60	100	100		200		200	200	200	2,000
Estimated total expenditure	3,540	3,785	9,270	3,050	2,000	1,200	5,440	5,450	3,000	3,270	8,260
farm credit borrowed	0	0	0	1		0		0	0	0	0
financing agency	-	-	-	MRFC			-	-		_	-
Current desire: food reserve	2	1				2		3		4	
More labor force	3					1	2		4		
Livestock breed								1	3	1	
Cultivating Dimba. IGAs	I				2				5		
More land to cultivate			-				1				
Promising income sources					1		3	2	1		
Promising income sources Buv bicvcle				2							
Promising income sources Buv bicvcle More farm inputs	4				1		5	4	1		
Promising income sources Buv bicvcle More farm inputs Access to maize-mill				2	1	3			1 2	3	
Promising income sources Buv bicvele More farm inputs Access to maize-mill More extension service	4	3	1		1	3	5	4		2	
Promising income sources Buy bicycle More farm inouts Access to maize-mill More extension service Borrow funds for business		32			1			4			
Promising income sources Buv bicvcle More farm inputs Access to maize-mill More extension service Borrow funds for business Group activities			2	1	1		5	4		2	1
Promising income sources Buv bicvcle More farm inputs Access to maize-mill More extension service Borrow funds for business Group activities Borehole Drilling					1		5	4		2	1
Promising income sources Buv bicvcle More farm inputs Access to maize-mill More extension service Borrow funds for business Group activities			2	1	1		5	4		2	1

	Table	D - 2			Farm Ec	conomy S	Survey D	ata 2			
Data Number	12	13	14	15	16	17	18	19	20	21	22
Survey Date : Aug.2000	22	23	23	23	23	24	24	24	24	24	25
Name of Village	Kamwendo	Nanjiwa	Nanjiwa	Maluwa	S.Mpombe		Masangano		Tavekenji	Michongw	e Chimseu
Name of Farmer	W.Laabe	Manyungwa		Kalis Black	Raaf Ben	Edis James	D.Maliro	J.Chimpeni	Erick Liyo	Roda Acleo	Anne Salijen
Number of familvmember	8	9	5	5	4	5	2	3	1	3	2
Number of farm labor	3	4	2	2	2	2	2	2	1	1	1
Other income activities	dimba		dimba	dimba	0		0		0		dimba
Number of hats	3	4	3	$\frac{1}{2}$	1	2	$\frac{2}{1}$		1		1
Number of farm parcels	1.344	1.008	1.386	0.17	0.63	0.74	1.8	0.54	0.09		
Measured farmland area*	1.544	90	1.580	100	100	80	95	90	100	80	
Sown area this year Maize	10	5	90	100	100	10	5	90	30	0	
Groundnut% Sorghum %	10	5	10	0	0	20	0	10	0		
Cassava %	0	5	10	0	0		0	10			
Pigeon Pea %	20	10	20	0	0		0	15			
Sweet potato/ bean %		papli5	0	0	0			0	0		
Harvest 2000 Maize(bag)	36	25	10	5	6	10	7	9	1	2	
Groundnut (bag)	1.5	1	0	0	1	0.5	0	Ó			
Sorghum (bag)	0	Ô	3	0	Ō	0.5	0.5	0.5	Ő		
Cassava (kg)	0	200	150	0	Ŭ Ŭ		0	0	Ö		
Pigeon Pea (bag)	0.5	1	0.4	0	0		0	2	0.5	Ō	
Sweet potato(kg)	0	0	0	0	0	0	0	0	0	0	
Ouantity sold Maize/MK	Ö	3	Ö	Ŭ	Ū	2	0	Ŏ	Ö		
Groundnut (MK 12 / kg)	0	0	0	0	0	0	0	0			
Sorghum:(MK7 / kg)	0	0	0	0	0	0	0	0	0		
Cassava (kg) (MK 3 / kg)	0	.100	100	0	0	0	0	0	0		
Pigeon Pea: (MK 12 / kg)	0	0	0	0	0	0	0	1	0		0
Sweet potato/MK 5 / kg)	0	0	0	0	0	0	0	0	0		
Ouantity seed sown Maize	50	40	10	8	15	7	40	15	2	5	
G'nut / Pigeon pea (kg)	0.4	0.3	0.3	0	0.2	0.5	0	0.5	0.3	0.4	
Ouantity of CAN. DAP.	CAN3	C&U2	Ur 0.2	CN0.5	Ur 0.4	Cm0.5		CAN1	Sttp1	-	CN0.1
green manure/dung /residue	res 2	g.dung	g.dung	g.dung	g.dung	res 2	g.dung	Cm0.2	0	0	g.dung
Applied crop	upland.	upland.	both	dimba	upland	upland	upland.	both	-		both
Agricultural Chemicals	~						-	-	-		
Applied crop		-	-	-		-	-	-		-	-
Theft. diseases and pests	theft	grasshp	blight	M.Bug		theft.v	s.borer	blight		striga	theft.v
Affected crops	0	p.pea	tomato	rape,mu		M.bug		mustard	0		rape
Dimba cultivation (sa.m)	150	0	200	700	0	360	0	1,540	0	0	
Dimba crops	s.cane 300	0	tomato 450	chi.rap 2.000	0	turnip 1.400	0	rape 400	0	0	p.leaf
Ann. quantity sold cash cr.	300	0	430	2,000	0	1,400	0	400	0		
Number of heads Cows	0		1	0	0	2	0	0	0		
Pigs:	6		1	2	2	0	7	0	0	0	-
Goats: Chicken / Ducks	12	15	4	0	2	0	0	21	0	2	0
Turkevs:	0	0	0	0		0	0	0	0	1 0	
Doves:	0	0	0	0	0	0	0	0	0	0	
Rabbits / G.fowls	Ő	0	0	Ő	0	0	0	0	Ö		
Livestock sold: cow / goats	goat2	0	0	0	0	0	<u> </u>	0	Ő	Ő	
Digs	0	0	1	0	0	0	0	Ő	- 0	Ö	
chicken	0	0	Ō	0	0	0	0	4	0	0	
Accident / theft	theft	died	0	0	0	0	theft	theft	0	0	
diseases	new.c.	new.c.	0	0	new.c.	new.c.	0	new.c.	0	new.c.	0
Food Balance self-supplied	100%	85%	67%	65%	100%	75%	85%	67%	10%	45%	50%
Food Purchased (kg/yr)	0	100	200	200	0	150	100	600	150	350	25
Period of food shortage	0	2	4.5	5.5	5	3	2	4	10	7	6
Number of meal / dav	3	3	3	3	2	3	3	3	3	3	
Annual Income from crop	4,000	1,225	300	5,000	0	4,800		3,600			
Ganvu(-for employing)	-2,000	0	-90	400	0	200	-400	0	0	400	
Livestock sale	2,000	0	7,000	0	0	0		600	0		
Vocation / IGAs	2,500	3,500	0	0	600	0	1,800	0	7,525	1,200	
Estimated total income	6,500	4,725	7,210	5,400	600	5,000		4,200	7,525	1,600	
Starter pack availability	750	750	0	750				0	0		
vocational expertise	doctor	bsmith	0		brickm		pension		employee	V.H.W.	0
Annual Expenditure. inputs	2,600	2,000	700	440	0			1,600	50	1 750	
Food Purchase:	0	500	<u>1,000</u> 450	1,000	0	750	500 0	<u>1,500</u> 0	1,500 2,500		
House Repair/Furniture	120	0	450	20	0	0		0			-
Borehole Maintenance fee Maize milling fee	120	150	500	100	120	190		200	50	100	
Transport. school	0	130	200	0	120	190		200	1,500	0	
Clinic. Medicine:	0	0	200	3,000	0	950		500	1,500		
Ceremonies:	200	500	300	100	400	1,500		50	30	30	
Cloth. utensils. others	300	130	100	65	70	500		300	1,500		
Estimated total expenditure	3,220	3,280	3,250	4,725	590	4,340		4,150	7,140		
farm credit borrowed	0	0	0	0	0	0	0	0	0	0	0
financing agency			-	-		-	-			-	-
Current desire: food reserve		4						3	1		
More labor force		1		2							
Livestock breed	1		2								
Cultivating Dimba. IGAs		5									
More land to cultivate		2								4	
Promising income sources		3									
Buv bicvcle											
More farm inputs			1		2	2				3	
Access to maize-mill					1	1	2		2		1
More extension service			3				3	2	3		
Borrow funds for business		6		1							
Group activities											
Borehole Drilling							1			1	
Clinic Construction								1		2	2
Reforestation for firewood											3

	Table	D – 3		Farm Ec	onomyS	urvey Da				
Data Number	23	24	25	26	27	28	29	30	31	32
Survey Date : Aug.2000	25		25	26	26	26	26	26	27	27
Name of Village	Kaunbata		Syandima	Kumanda	Magombo	Gomeza	Mdala	Mdala	Kantumbid:	
Name of Farmer		B.Tumbani			P.Magombo		Raison Ken	Fredison Bi	Estery Chin	-nikaoneka
Number of familymember	5	8	5	6	1	8	2	<u> </u>	3	<u> </u>
Number of farm labor Other income activities	dimba	dimba	0	0	0		dimba	dimba	0	dimba
Number of hats		3	3	1	1	1	2	1	4	4
Number of farm parcels	2	3	2	1	2	2	2	2	2	2
Measured farmland area*	0.43	0.29	0.89	0.04	0.43	0.56	0.55	2.55	0.43	0.46
		90	90	100	90	85	90	100	95	90
Groundnut%	0.	0	10	0	0	10	5	100	Ő	0
Sorghum %	15	10	0	<u> </u>	10	15	10	0	5	10
Cassava %	0	0	10	0	0	0	0	Ŏ	Ŏ	0
Pigeon Pea %	15	10	20	20	15	15	10	15	20	15
Sweet potato/ bean %		kobwe5	kobwe5	0	0	0	0	0	0	0
Harvest 2000 Maize(bag)	5	10	25	1	3	7	7	40	6	4
Groundnut (bag)	0	0	5	Ō	0	1	2	18	0	0
Sorghum (bag)	05	05	0	0	1	8	1	0	1	1
Cassava (kg)	0	0	500	0	0	0	0	0	0	0
Pigeon Pea (bag)	2	2	1	1	1.5	3	0.5	10	0.5	0.5
Sweet potato(kg)		(1)	(1)	0	0	0	0	0	0	0
Ouantity sold Maize/MK	0	0	0	0	0	0	0	0	Ō	Ö
Groundnut (MK 12 / kg)	0	0	0	Ő	Ő	Ő	0	7	Ŭ	Ő
Sorghum:(MK7 / kg)	0	0	0	0	0	0	0	Ó	0	Ō
Cassava (kg) (MK 3 / kg)	0	0	0	Ō	0	0	0	0	Ő	Õ
Pigeon Pea: (MK 12 / kg)	0	1	0	0	0	0	0	6	0	0
Sweet potato(MK 5 / kg)	0	0	0	0	0	0	0	0	0	0
Ouantity seed sown Maize	10	25	25	10	25	15	10	60	25	25
G'nut / Pigeon pea (kg)	04	05	0.7	0.3	0.4	15	10	25	0.5	0.3
Ouantity of CAN. DAP.	CN0.1	CN0.1		Sttp1		CN0.2		CN0.5		CN0.1
green manure/dung /residue	o duno		c.dung	0	0	g.dung	0	res 2	g.dung	c.dung
Applied crop	hoth	dimba	upland.	-	-	dimba	dimba	both	upland.	both
Agricultural Chemicals		-	<u> </u>				-	-	-	-
Applied crop	-		-	-	-	-			-	-
Theft. diseases and pests	locust	locust	0	locust	locust	locust	locust	aphid	Mbug	locust
Affected crops	<u>n leaf</u>		-	maize	maize	maize		tomato	p.pea	tomato
Dimba cultivation (sa.m)	126	272	0	0	0	0	600	500	0	200
Dimba crops	n leaf	n leaf	-	0		chi.rap	tomato	p.leaf	-	rape
Ann. quantity sold cash cr. kg	150	300	0	0	0	400	50	100	0	50
Number of heads Cows	0	0		0	0	0	0	0	0	0
Pigs:	0	0	<u>6</u> 8	0	0	0	0	0	0	0
Goats:	18	 25	12	0	0	11	0	0	12	0
Chicken / Ducks	10		$\frac{12}{0}$	0	0	0	0	0	$\frac{12}{0}$	0
Turkevs:	0	<u> </u>	10	0	0	0	0	0	0	0
Doves: Rabbits / G.fowls	20 0	0	rabb3	0	0	0	0	0	0	0
Livestock sold: cow / goats	goat4	0	0	0	0	1	0	0	goat3	0
Digs	0	0	2	Ŭ	0	0	0	0	0	Ŭ
chicken	0	4	Ő	0	0	3	0	0	6	0
Accident / theft	theft	0	0	0	0	0	Ö	Ŏ	0	0
diseases	new c	new c	new.c.	0	- Ŭ	new.c.	0	new.c.	0	0
Food Balance self-supplied	0.67	0.6	100%	25%	60%	40%	50%	75%	75%	67%
Food Purchased (kg/yr)	300	500	0	900	50	400	200	150	200	500
Period of food shortage (mth)	4	5	0	9	5	7	6	3	4	5
Number of meal / day	3	2	3	1	2	3	3	3	3	3
Annual Income from crop	1000	2000	100	0	550	2.000	300	7,800	60	150
Ganvu(-for employing)	0	0	-800	150	100	80	600	-750	600	3.000
Livestock sale	2600	280	7,000	0	0	450	0	0	1.410	0
Vocation / IGAs	200	0	0	1,000	0	3.600	0	0	0	0
Estimated total income	3800	2280	6.300	1.150	650	6.130	900	7.050	2.070	3.150
Starter pack availability	750	750	0	500	750	0	750	0	750	750
vocational expertise	_fwood_	Ω	carptor	0		employee		tinsmith	0	tinsmi
Annual Expenditure, inputs	450	225	150	0	125	205	50	515	0	150
Food Purchase:	1800_	2250	0	3.060	250	1.500	800	750	760	1.900
House Repair/Furniture	1200	0	0	200	0	1.000	0	0	500	80
Borehole Maintenance fee	0	0	0	0	0	0	0	0	120	0
Maize milling fee	0	0	150	0	0	3.000	0	0	1.020	360
Transport. school	0	0	0	0	0	0	0	0	0	<u> </u>
Clinic. Medicine:	0	0	0	0	0	200	0	1 000	200	250
Ceremonies:	0	0	1.000	50	$100 \\ 200$	-200	0	1.000	300	350
Cloth. utensils. others	500	50	1.500	$\frac{100}{2410}$	200	<u>200</u>	60	$\frac{160}{2.025}$	$\frac{150}{2850}$	$\frac{260}{2100}$
Estimated total expenditure	3950	2525	2,800	3,410	675	6,105	910	3,925	0	3,100
farm credit borrowed	0	0	0	0	0	0	0	0	0	0
financing agency			-	-		-				
Current desire: food reserve						5				
More labor force										
Livestock breed										
Cultivating Dimba, IGAs										
More land to cultivate				2						
Promising income sources			4	2	4					
Buv bicvcle			4	1	4		1	4		
More farm inputs			1			1	1		1	
Access to maize-mill		1	1			1	3	3		3
More extension service						3		1		4
Borrow funds for business	1					3		1		4
Group activities Borehole Drilling		2	3	3	1	2	2	2	3	
Clinic Construction		4	3	4	2		3	2	2	1
Reforestation for firewood	3	3	2	4	3		4		4	2
				. 1		-+1	-+			

	Table	D – 4		Corre	lation	amo	ng fac	tors r	neası	red ir	Farm	Econ	omic	Surve	v		
sample No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1
farmland	0.5	0.4	3.6	0.75	0.85	0.6	1.2	1.06	0.31	0.23	1.1	1.344	1.008	1.386	0.17	0.63]
Food Balance	70%	10%	100%	65%	70%	60%	60%	55%	100%	85%	95%	100%	85%	67%	65%	100%	-
farmland	0.5	0.4	3.6	0.75	0.85	0.6	1.2	1.06	0.31	0.23	<u>1.1</u> 600	1.344	1.008	1.386	0.17	0.63	
Food bought farmland	400	600 0.4	0	300 0.75	250	750 0.6	300 1.2	250 1.06	0.31	500 0.23	1.1	0	100 1.008	200 1.386	200 0.17	0.63	-
shortage mth	4	10	0	4	4	3	5	5.5	0.51	2	1.1	1.544	1.008	4.5	5.5	5	
farmland	0.5	0.4	3.6	0.75	0.85	0.6	1.2	1.06	0.31	0.23	1.1	1.344	1.008	1.386	0.17	0.63	-
crop income	2,100	2,500	0	1,800	600	700	2,200	2,500	1,800	4,500	30,000	4,000	1,225	300	5,000	0	
farmland	0.5	0.4	3.6	0.75	0.85	0.6	1.2	1.06	0.31	0.23	1.1	1.344	1.008	1.386	0.17	0.63	
total income	2,700	3,000	31,000	2,900	2,100	700	4,000	5,600	4,050	4,900	44,200	6,500	4,725	7,210	5,400	600	-
farmland Livestock sale	0.5	0.4	3.6 30,000	0.75	0.85	0.6 0	1.2 1,800	1.06	0.31 2,250	0.23	<u>1.1</u> 0	1.344	1.008	1.386 7,000	0.17	0.63	
LIVESIOCK Sale			50,000	000	/00]	•	1,000	2,000	2,2.50	515	0	2,000		7,000	0	0	
Dimba area	150	200	100	0	0	100	250	200	130	150	500	150	0	200	700	0	1
crop Income	2,100	2,500	0	1,800	600	700	2,200	2,500	1,800	4,500	30,000	4,000	1,225	300	5,000	0	-
Dimba area	150	200	100	0	0	100	250	200	130	150	500	150	0	200	700	0	1
dimba inocme	2,100	2,500	0	0	100	700	800	1,900	1,800	3,900	30,000	4,000	250	0	5,000	0	·
Dimba area total income	150 2,700	200	100 31,000	0 2,900	0	100 700	250 4,000	200	130 4,050	150 4,900	500 44,200	150 6,500	0 4,725	200	700 5,400	0 600	
dimba inocme	2,100	2,500	0	2,900	100	700	4,000	1,900	1,800	3,900	30,000	4,000	250	1,210	5,000	000	1
total income	2,700	3,000	31,000	2,900	2,100	700	4,000	5,600	4,050	4,900	44,200	6,500	4,725	7,210	5,400	600]
													,,				1
farmland	0.5	0.4	3.6	0.75	0.85	0.6	1.2	1.06	0.31	0.23	1.1	1.344	1.008	1.386	0.17	0.63	4
familymember	0.1	5 5	8 8	5 0.15	7 0.121	8 0.075	10 0.12	0.265	8 0.039	4 0.058	0.275	0.168	9 0.112	5 0.277	0.034	4 0.158	-
land/person Food bought	400	600	0.45	300	250	750	300	250	0.039	500	600	0.108	100	200	200	0.158	
land/person	0.1	0.08	0.45	0.15	0.121	0.075	0.12	0.265	0.039	0.058	0.275	0.168	0.112	0.277	0.034	0.158	1
self-supplied	70%	10%	100%	65%	70%	60%	60%	55%	100%	85%	95%	100%	85%	67%	65%	100%	
familymember	5	5	8	5	7	8	10	4	8	4	4	8	9	5	5	4	1
ttl. expense	7,911	9,111	62,022	6,112	4,566	2,867	9,122	13,360	9,917	14,209	119,011	17,019	9,820	14,633	16,011	1,210	
												· · · · · · · · · · · · · · · · · · ·					correla-
sample No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	tion
farmland	0.74	1.8	0.54	0.09	0.48	0.38	0.43	0.29	0.89	0.04	0.43	0.56	0.55	2.55	0.43	0.46	0.450
Food Balance	0.75	0.85	0.67	0.1	0.45	0.5	0.67	0.6	1	0.25	0.6	0.4	0.5	0.75	0.75	0.67	
farmland	0.74	1.8	0.54	0.09	0.48	0.38	0.43	0.29	0.89	0.04	0.43	0.56	0.55	2.55	0.43	0.46	-0.366
Food bought	150	100	600	150	350	25	300	500	0	900	50	400	200	150	200	500	
farmland	0.74	1.8	0.54	0.09	0.48	0.38	0.43	0.29	0.89	0.04	0.43	0.56	0.55	2.55	0.43	0.46	-0.502
shortage mth	3	2	4	10	7	6	4	5	0	9	5	7	6	3	4	5	1
farmland	0.74	1.8	0.54	0.09	0.48	0.38	0.43	0.29	0.89	0.04	0.43	0.56	0.55		0.43	0.46	0.117
crop income														2.55			0.117
farmland	4800	0	3600	0	0	500	1000	2000	100	0	550	2000	300	7800	60	150	
	0.74	1.8	0.54	0.09	0.48	0.38	0.43	0.29	0.89	0.04	0.43	0.56	0.55	2.55	0.43	0.46	0.502
total income	5000	1400	4200	7525	1600	820	3800	2280	6300	1150	650	6130	900	7050	2070	3150	
farmland	0.74	1.8	0.54	0.09	0.48	0.38	0.43	0.29	0.89	0.04	0.43	0.56	0.55	2.55	0.43	0.46	0.712
Livestock sale	0	0	600	0	0	0	2600	280	7000	0	0	450	0	0	1410	0	
Dimba area	360	0	1540	0	0	100	126	272	0	0	0	0	600	500	0	200	0.339
crop Income	4800	0	3600	0	0	500	1000	2000	100	0	550	2000	300	7800	60	150	
Dimba area	360	0	1540	0	0	100	126	272	0	0	0	0	600	500	0	200	0.291
dimba inocme Dimba area	4350	0	3000	0	0	500	1000	1400	100	0	550	2000	300	0	60	150	
	360	0	1540	0	0	100	126	272	0	0	0	0	600	500	0	200	0.149
total income	5000	1400	4200	7525	1600	820	3800	2280	6300	1150	650	6130	900	7050	2070	3150	
dimba inocme	4350	0	3000	0	0	500	1000	1400	100	0	550	2000	300	0	60	150	0.767
total income	5000	1400	4200	7525	1600	820	3800	2280	6300	1150	650	6130	900	7050	2070	3150	
farmland	0.74	1.8	0.54	0.09	0.48	0.38	0.43	0.29	0.89	0.04	0.43	0.56	0.55	2.55	0.43	0.46	
familymember	5	2	3	1	3	2	5	8	5	6	1	8	2	2	4	3	1
land/person	0.148	0.9	0.18	0.09	0.16	0.19	0.086	0.036	0.178	0.007	0.43	0.07	0.275	1.275	0.108	0.153	-0.308
Food bought																	-0.308
	150	100	600	150	350	25	300	500	0	900	50	400	200	150	200	500	
land/person	0.148	0.9	0.18	0.09	0.16	0.19	0.086	0.036	0.178	0.007	0.43	0.07	0.275	1.275	0.108	0.153	0.222
self-supplied	0.75	0.85	0.67	0.1	0.45	0.5	0.67	0.6	1	0.25	0.6	0.4	0.5	0.75	0.75	0.67	
familymember	5	2	3	1	3	2	5	8	5	6	1	8	2	2	4	3	0.029
ttl. expense	2908	12008	15202	3557	2170	8911	6477	12712	3212	1904	14677	2306	14260	4409	6957	0	
			tudy Tea														

source: studied by the Study Team

	emu Kamwendo Nanjiwa Nanjiwa Maluwa S.Mpombé Zuseli W.I.oobe Monumuri Lamed Zolis Blood Bon	1 1 344 1 008 1 386	90 90 100	10 5 0 0	5 0 5 10 0 0	10 0 5 10 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	40	$0.5 \cdot 0.4 50 0.3 0 0.2$	gp gp pp gp		248.0	500 150 0 200 700 0	CAN1 CAN3 C.Ur2 Ur 0.2 CN0.5 Ur 0.4	g.dung res 2 g.dung g.dung g.dung g.dung	dimba upland. upland. both dimba upland		ombo Gomeza Mdala Mdala Kantumbidz Kantumbidza	A.Kabang B.Tumbar S.Mbewe M.Chouch P.Magom Roda Vin Raison Kel Fredison B Estery Chi hikaoneka	0.43 0.56 0.55 2.55 0.43 0.46	90 100 95	0 10 5 10 0 0	10 15 10 0 5 10		15 15 10 15 20 15	15 10 60 25	3 10 25 0	pp gp gp gp pp pp			0 0 600 500 0 200	0 CN0.2 CN0.1 CN0.5 Cm0.5 CN0.1	
Crop Composition and Farming Practices	da PeterBilila L	_			0	0 5	0 25	8 20	5 0.3	dd dg		~	0 150	CAN1 C	0	dimba		na Kumanda N	/e M.Choucl P	9 0.04	90 100	10 0	0 0	10 0	0 20	25 10	7 0.3	gp pp	0°CT		0 0	0 Sttp1	
n and Farm	Ndemanje Ndemanje Kumponda PeterBilila Lenu C Vusuf Kobotolo Amiru Iaf Noondro Vus	1.06 0.31			S			35		gp g		161.3	200 130	DP3.5 DAP2	res 1 c.dung	upland. both		Kaunbata Kaunbata Syandima Kumanda Magombo Gomeza	Tumbar S.Mbew	0.29 0.89		$0 \qquad 1$	10	0 1	10 20	25 22	0.5 0.7	pp g	7./1		272	CN0.1	a dense a dense
Compositio	Ndemanje Nde	1.2	85		S	10	20		0.5	gb			250	CAN2 DI	res 1 r	upland. uj				0.43	85	0	15	0	15	10		bp dd	14.0		126	CN0.1 C	
Crop C	Makonokay Kamata Edurar Maliia				0 10	0	30 10	3 5	1 0.5	dd d			0 100	0	res 1	l. upland.		gv Chimseu	cle Anne Sali	8 0.38	80 90	0 10	0 5	20 0	20 15	5 30	4 0.3	p gp		-	0 100	0 CN0.1	
F		v			20		30 3		1	dd dd	40.0 35.3		0	1 Sttp 1	2 res 1	nd. upland.		Tavekenji Michongy Chimseu	ck Liyd Roda Acld Anne Sali	0.09 0.48		30	0	0 2	0		0.3 0.4	g pp		00.0	0		0
	Teula Chicoja	9		20	10	0	10	75	20	gb		111.1	100	Jr2 Sttp		both upland.	ſ	eya Tavel		0.54 0	90	0	10	0	15	15	0.5	pp 12.0	.	-	1,540	N1 Sttp1	
L	<u>م</u> ا		80	0	20	0	20	1	0.2	dd		-	200	CAN1 C.Ur2	0 res 2	dimba		Masangan Kateya	Edis Jame D.Maliro J.Chimper Eri	1.8	95	5	0	0	0	40	0	gp		1	0 1	0 CAN1	como compo
	Makanani Makanani Edina	Ś	02	0	10	10	20	10	1	dd	40.0		150	CAN1 C	0	dimba	Г	Salimu	Edis Jame I	0.74	80	10	20	0	20	7	0.5	gg		-	360	Cm0.5	0.00
	Village	Measured farmland area*	Sown area this vear Maize %	Groundnut%	Sorghum %	Cassava %	Pigeon Pea %	Quantity seed sown Maize (kg)	G'nut / Pigeon pea (kg)	crop composition type	pp seed rate kg/ha	gn seed rate kg/ha	Dimba area (square meter)	Quantity of CAN, DAP,	green manure/dung /residue	Applied crop		Village	Name of the surveyed farm	Measured farmland area*	Sown area this year Maize %	Groundnut%	Sorghum %	Cassava %	Pigeon Pea %	Quantity seed sown Maize (kg)	G'nut / Pigeon pea (kg)	crop composition type	pp seed rate kg/lia	gn seed rate kg/ha	Dimba area (square meter)	Quantity of CAN, DAP,	and manualdung lastidua

II-D-5