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Tanzania Selected Rural Livelihoods Data Tables

by

John Mims, Meera Tiwari and Laurence Mathieu

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ABOUT LADDER

LADDER is a research project funded by the Policy Research Programme of the UK Department for International Development (DFID) that seeks to identify alternative routes by which the rural poor can climb out of poverty. LADDER is working with nearly 40 villages and 1,200 households in Uganda, Tanzania, Malawi and Kenya to discover the blocking and enabling agencies in the institutional environment facing rural people that hinder or help their quest for better standards of living for themselves and their families.

This working paper represents work-in-progress and the reader is advised that it has not been subjected to academic quality control, nor edited for errors of fact or interpretation. The paper forms part of a mosaic of research findings that will contribute towards an overall picture of rural livelihoods and micro-macro links to poverty policies in the case-study countries. The findings and views expressed here are solely the responsibility of the authors and are not attributable to DFID.

All available Working Papers and Village Reports can be downloaded from the project website: <http://www.uea.ac.uk/dev/odg/ladder/>, which also details other information about the project. For any further enquiries, please email j.mims@uea.ac.uk.

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DESCRIPTION OF DATA SET

Overview

The purpose of this Working Paper is to provide a basic set of summary statistics arising from the LADDER sample survey work in Tanzania. Interpretation of these data tables is facilitated by reference to LADDER Working Paper No.2 which provides the questionnaires from which the underlying data set was compiled, and also to Working Paper No.11 which makes use of some of the data in order to construct an overview of rural livelihoods in Tanzania.

The data underlying these tables were collected in ten sub-villages situated within four distinct locations in rural Tanzania between May and August 2001. The list of study locations and villages is summarised below, and a map showing their location is provided in Annex 1 in this collection.

Study Location	NR Features	Division	Village	Sub-Village Sampled
Kilosa	irrigated rice rainfed maize	Kimamba	Chanzuru	Kati
				Darajani
				Chekereni
"Maize"	rainfed maize	Gairo	Chakwale	Kilimani
		Mlali	Mlali	Gudugudu
Mgeta	upland vegetables maize	Mgeta	Pinde	Pinde
			Nyandira	Lundi
Selous	rice, maize cattle (wildlife issues)	Mvuha	Kongwa	Kisanga
		Bwakira	Duthumi Bonye	Sogea Mbele
			Sesenga	Kibungo

The general approach to sampling in each village was to utilise a PRA wealth ranking exercise in order to identify three wealth groups that acted as the sampling frame for a stratified random sample. With a list of households in each wealth group, 10 households were randomly chosen from each of the well-off and middle categories, and 15 households from the poor category, resulting in a sample size of 35 households for each village, and 350 households across the four study locations.

The purpose of the wealth ranking, aside from the perceptions about poverty and wealth

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gained from the exercise itself, was to ensure that the sample of 35 households drawn per village represented the full range of livelihood circumstances to be found in villages, rather than being accidentally clustered around the mode of the range. The decision to sample more households from the poor wealth category has the effect of slightly biasing the overall village sample towards the lower end of the wealth range, consistent with the intention of capturing especially the livelihood circumstances of the poorer members of village society in Tanzania.

The procedure described was not designed to make inferences about the larger populations from which the samples were drawn, whether at study location or country levels. The purposive fieldwork selection procedure from study locations, to villages, and to households set out to identify and describe a range of livelihood patterns that were likely to contain within them the experiences of a substantial proportion of rural individuals and households in Tanzania. However, no claims are made about the statistical representativeness of sample findings with respect to populations in the study locations that were studied nor for Tanzania as a whole. Furthermore, since the sample data provided here have not been weighted yet, no attempt has been made to draw inferences about the village populations either.

As such, village and study location names used in these tables should be read as shorthand for 'village or study location sample', for example 'Kilosa' refers only to the 105 households surveyed in that study location. For this reason, the number of households in each analysis is denoted by N rather than n .

In the data tables compiled here, N is always 35 households for each village, 105 households for Kilosa and Selous study locations, 70 households for 'Maize' and Mgeta study locations, and 350 households for the sample overall. Six households in Kongwa Kisanga village were found to have particularly large herds of cattle and were excluded from some of the tables presented here. Where this is the case, it is made clear in the table or in an accompanying footnote.

Selected Statistical Definitions

Acronym	Full Name	Description
EAAAs	Economically Active Adults	HH members aged 15-60 years, inclusive, regardless of gender, but excluding those still in education
AEUs	Adult Equivalent Units	Based on consumption: male 15 years or older = 1; female 15 years or older = 0.8; male or female 14 years or under = 0.5
CEUs	Cattle Equivalent Units	Based on market value ratios between livestock: cattle =1; pigs = 0.28; goats = 0.14; sheep = 0.10; turkeys = 0.04; chickens = 0.02; others = given price/5% trimmed mean cattle price
	Per Capita Income	Net Total Household Income divided by resident AEUs
	Income Terciles or Quartiles	Calculated by ranking households from highest to lowest on the basis of per capita income, a) per study location and b) for the whole sample. In general, for Kilosa & Selous study locations, terciles each contain 35 HHs and quartiles 26 HHs; for 'Maize' & Mgeta study locations, terciles each contain 23 HHs and quartiles 18 HHs; for the whole sample, 117 HHs and 88 HHs respectively

Asset Definitions Used in Constructing Asset Tables and Polygons

HH Size No. of resident EAAs

Land Area owned in ha.

Tools of the Trade value based index for ownership of axes, hoes, knives & sewing machines. Index is calculated per HH by:

- a) determine typical district price for each tool
- b) for each HH, calculate no. of each tool X typical price
- c) sum values
- d) standardize total value by

HH tool index = (total HH value of tools/maximum value within district sample)X100

Education

HH total years in education for resident EAAs. Education level reached taken as proxy for years on basis of None=0; StdIV=4; Std VII=7; Form IV=11; Form VI=13; Higher=15

Livestock

Livestock holding in CEUs

Household Assets in Rural Tanzania

In Selous, six households had large herds of more than 50 head of cattle. These households have been omitted from some tables below, as indicated.

Key Household Assets

Table 1a. Mean & Median Selected Assets, by Study Location (all HHS)

		Study location				All
		Kilosa	"Maize"	Mgeta	Selous	
	<i>N</i>	105	70	70	105	350
<u>HH Size</u>	Mean	3.85	5.04	4.54	4.54	4.43
	<i>s.d.</i>	2.10	2.22	2.06	3.53	2.65
	Median	4.00	5.00	4.00	4.00	4.00
<u>Area owned (ha.)</u>	Mean	.67	2.23	1.25	2.14	1.54
	<i>s.d.</i>	1.12	2.40	.96	2.49	2.00
	Median	.40	1.62	1.00	1.42	.91
<u>Tools</u>	Mean	14.91	12.11	10.54	12.44	12.73
	<i>s.d.</i>	22.32	14.72	11.26	13.06	16.42
	Median	8.62	8.62	8.65	10.46	8.75
<u>Education</u>	Mean	9.90	10.23	11.14	7.45	9.48
	<i>s.d.</i>	7.75	6.43	6.59	6.54	7.03
	Median	7.00	9.50	14.00	7.00	8.00
<u>Livestock</u>	Mean	.13	3.00	.45	12.06	4.35
	<i>s.d.</i>	.69	7.64	.46	55.09	30.70
	Median	.00	.16	.32	.10	.06

Table 1b. Mean & Median Selected Assets, by Study Location (excluding HHs with large herds)

		Study location				All
		Kilosa	"Maize"	Mgeta	Selous	
	<i>N</i>	105	70	70	99	344
<u>HH Size</u>	Mean	3.85	5.04	4.54	4.07	4.30
	<i>s.d.</i>	2.10	2.22	2.06	2.05	2.14
	Median	4.00	5.00	4.00	4.00	4.00
<u>Area owned (ha.)</u>	Mean	.67	2.23	1.25	1.94	1.47
	<i>s.d.</i>	1.12	2.40	.96	2.15	1.85
	Median	.40	1.62	1.00	1.42	.91
<u>Tools</u>	Mean	14.91	12.11	10.54	12.39	12.72
	<i>s.d.</i>	22.32	14.72	11.26	13.32	16.53
	Median	8.62	8.62	8.65	10.46	8.75
<u>Education</u>	Mean	9.90	10.23	11.14	7.76	9.60
	<i>s.d.</i>	7.75	6.43	6.59	6.56	7.01
	Median	7.00	9.50	14.00	7.00	8.00
<u>Livestock</u>	Mean	.13	3.00	.45	.52	.89
	<i>s.d.</i>	.69	7.64	.46	2.24	3.81
	Median	.00	.16	.32	.10	.06

HH Size: Actual no. of residents

Tools: value based index

Education: Total no of years in education (resident EAAs)

Livestock:livestock holding in CEUs

Table 2. Mean & Median Selected Assets, by Income Tercile, by District

Study location: Kilosa

		Per capita income tercile			All
		I	II	III	
	<i>N</i>	35	35	35	105
<u>HH Size</u>	Mean	3.89	4.34	3.31	3.85
	<i>s.d.</i>	2.07	2.40	1.69	2.10
	Median	4.00	4.00	3.00	4.00
<u>Area owned (ha.)</u>	Mean	.37	.64	1.01	.67
	<i>s.d.</i>	.46	1.03	1.53	1.12
	Median	.10	.20	.40	.40
<u>Tools</u>	Mean	11.03	10.21	23.48	14.91
	<i>s.d.</i>	15.44	5.65	33.75	22.32
	Median	8.62	8.62	8.62	8.62
<u>Education</u>	Mean	8.69	9.37	11.63	9.90
	<i>s.d.</i>	7.57	8.81	6.62	7.75
	Median	7.00	7.00	14.00	7.00
<u>Livestock</u>	Mean	.03	.07	.28	.13
	<i>s.d.</i>	.06	.15	1.18	.69
	Median	.00	.00	.00	.00

Study location: "Maize"

		Per capita income tercile			All
		I	II	III	
	<i>N</i>	23	24	23	70
<u>HH Size</u>	Mean	5.04	5.46	4.61	5.04
	<i>s.d.</i>	2.23	2.40	2.04	2.22
	Median	5.00	5.00	5.00	5.00
<u>Area owned (ha.)</u>	Mean	1.97	2.71	1.98	2.23
	<i>s.d.</i>	1.63	3.26	1.99	2.40
	Median	1.72	1.72	1.21	1.62
<u>Tools</u>	Mean	12.23	13.63	10.39	12.11
	<i>s.d.</i>	18.01	17.47	5.58	14.72
	Median	8.62	8.48	10.45	8.62
<u>Education</u>	Mean	9.96	11.00	9.70	10.23
	<i>s.d.</i>	6.00	6.16	7.28	6.43
	Median	8.00	11.00	11.00	9.50
<u>Livestock</u>	Mean	.37	3.59	5.01	3.00
	<i>s.d.</i>	.73	8.12	10.08	7.64
	Median	.06	.20	.30	.16

HH Size: Actual no. of residents

Tools: value based index

Education: Total no of years in education (resident EAAs)

Livestock:livestock holding in CEUs

Study location: Mgeta

		Per capita income tercile			All	
		I	II	III		
		<i>N</i>	23	24	23	70
<u>HH Size</u>	Mean		5.35	4.29	4.00	4.54
	<i>s.d.</i>		2.17	2.01	1.83	2.06
	Median		6.00	4.00	4.00	4.00
<u>Area owned (ha.)</u>	Mean		.88	1.38	1.47	1.25
	<i>s.d.</i>		.52	1.07	1.09	.96
	Median		.81	1.06	1.01	1.00
<u>Tools</u>	Mean		13.19	8.95	9.55	10.54
	<i>s.d.</i>		19.18	3.35	2.66	11.26
	Median		9.56	7.86	9.30	8.65
<u>Education</u>	Mean		12.22	9.63	11.65	11.14
	<i>s.d.</i>		5.69	5.48	8.28	6.59
	Median		14.00	9.00	11.00	14.00
<u>Livestock</u>	Mean		.38	.39	.59	.45
	<i>s.d.</i>		.35	.55	.45	.46
	Median		5.35	4.29	4.00	4.54

HH Size: Actual no. of residents

Tools: value based index

Education: Total no of years in education (resident EAAs)

Livestock:livestock holding in CEUs

Study location: Selous (all HHs)

		Per capita income tercile			All	
		I	II	III		
		N	35	35	35	105
<u>HH Size</u>	Mean		4.57	4.00	5.06	4.54
	s.d.		2.10	2.14	5.34	3.53
	Median		4.00	4.00	4.00	4.00
<u>Area owned (ha.)</u>	Mean		1.21	2.05	3.16	2.14
	s.d.		1.77	1.90	3.21	2.49
	Median		.71	1.62	2.33	1.42
<u>Tools</u>	Mean		12.33	11.16	13.84	12.44
	s.d.		15.87	5.44	15.39	13.06
	Median		8.75	8.75	11.03	10.46
<u>Education</u>	Mean		7.69	7.11	7.54	7.45
	s.d.		8.08	5.48	5.94	6.54
	Median		7.00	7.00	7.00	7.00
<u>Livestock</u>	Mean		.51	.13	35.55	12.06
	s.d.		1.80	.14	91.80	55.09
	Median		.06	.06	.34	.10

Study location: Selous (excluding HHs with large herds)

		Per capita income tercile			All	
		I	II	III		
		N	35	35	29	99
<u>HH Size:</u>	Mean		4.57	4.00	3.55	4.07
	s.d.		2.10	2.14	1.76	2.05
	Median		4.00	4.00	3.00	4.00
<u>Area owned (ha.)</u>	Mean		1.21	2.05	2.69	1.94
	s.d.		1.77	1.90	2.58	2.15
	Median		.71	1.62	2.12	1.42
<u>Tools</u>	Mean		12.33	11.16	13.95	12.39
	s.d.		15.87	5.44	16.58	13.32
	Median		8.75	8.75	11.03	10.46
<u>Education</u>	Mean		7.69	7.11	8.62	7.76
	s.d.		8.08	5.48	5.79	6.56
	Median		7.00	7.00	7.00	7.00
<u>Livestock</u>	Mean		.51	.13	1.00	.52
	s.d.		1.80	.14	3.62	2.24
	Median		.06	.06	.18	.10

HH Size: Actual no. of residents

Tools: value based index

Education: Total no of years in education (resident EAAs)

Livestock:livestock holding in CEUs

All Sample Households

		Per capita income tercile			All	
		I	II	III		
		<i>N</i>	117	117	116	350
<u>HH Size</u>	Mean	4.64	4.51	4.15	4.43	
	<i>s.d.</i>	2.21	2.25	3.34	2.65	
	Median	4.00	4.00	4.00	4.00	
<u>Area owned (ha.)</u>	Mean	1.03	1.70	1.89	1.54	
	<i>s.d.</i>	1.35	2.09	2.34	2.00	
	Median	.81	1.21	1.06	.91	
<u>Tools</u>	Mean	11.50	11.41	15.31	12.73	
	<i>s.d.</i>	16.63	8.99	21.17	16.42	
	Median	8.54	9.56	9.56	8.75	
<u>Education</u>	Mean	9.51	8.99	9.93	9.48	
	<i>s.d.</i>	6.80	7.18	7.12	7.03	
	Median	8.00	7.00	11.00	8.00	
<u>Livestock</u>	Mean	.32	.88	11.90	4.35	
	<i>s.d.</i>	1.06	3.88	52.52	30.70	
	Median	.06	.06	.17	.06	

All Sample Households (excluding those with large herds)

		Per capita income tercile			All	
		I	II	III		
		<i>N</i>	117	117	110	344
<u>HH Size</u>	Mean	4.64	4.51	3.70	4.30	
	<i>s.d.</i>	2.21	2.25	1.82	2.14	
	Median	4.00	4.00	3.50	4.00	
<u>Area owned (ha.)</u>	Mean	1.03	1.70	1.70	1.47	
	<i>s.d.</i>	1.35	2.09	1.97	1.85	
	Median	.81	1.21	1.01	.91	
<u>Tools</u>	Mean	11.50	11.41	15.42	12.72	
	<i>s.d.</i>	16.63	8.99	21.66	16.53	
	Median	8.54	9.56	9.56	8.75	
<u>Education</u>	Mean	9.51	8.99	10.35	9.60	
	<i>s.d.</i>	6.80	7.18	7.04	7.01	
	Median	8.00	7.00	11.00	8.00	
<u>Livestock</u>	Mean	.32	.88	1.51	.89	
	<i>s.d.</i>	1.06	3.88	5.26	3.81	
	Median	.06	.06	.12	.06	

HH Size: Actual no. of residents

Tools: value based index

Education: Total no of years in education (resident EAAs)

Livestock:livestock holding in CEUs

Figure 1. Selected Asset Levels by Income Tercile, All Sample Households

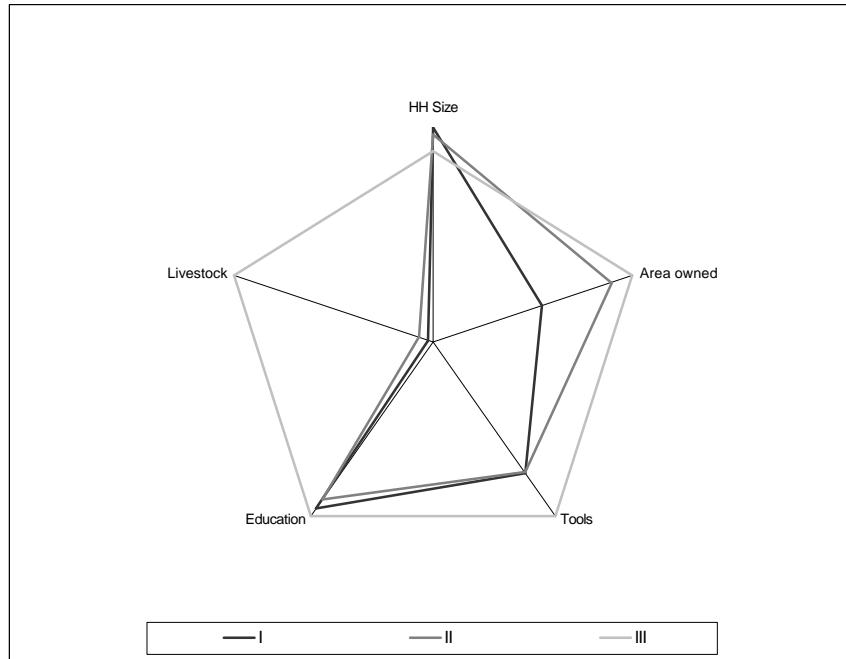


Figure 1a. Selected Asset Levels by Income Tercile, All Sample Households (excluding those with large herds)

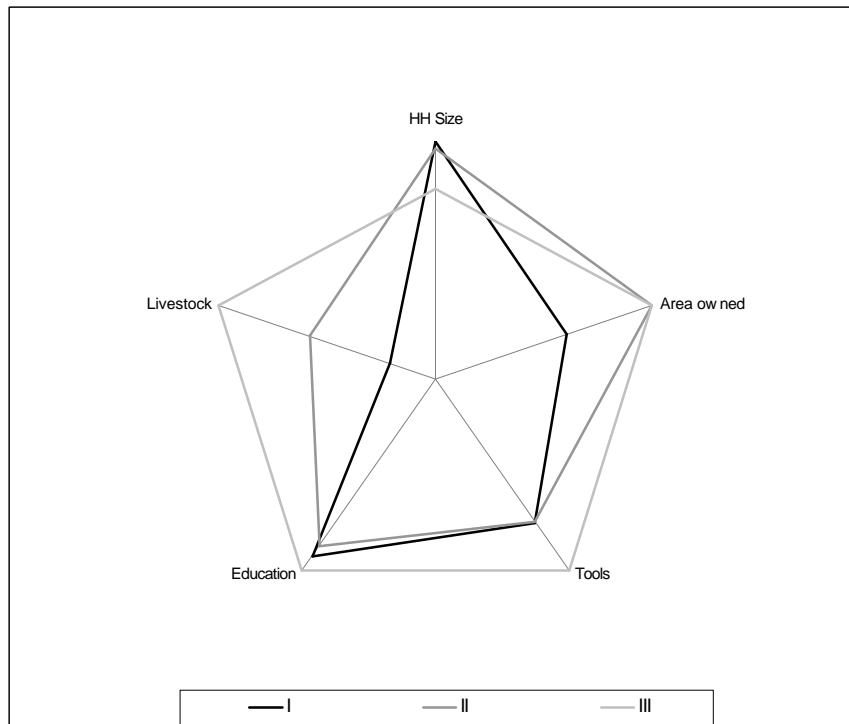


Table 3. Land Owned and Farmed by Sample Households, by Village & Study Location

Study Location	Village	Area owned (ha.)			Area farmed (ha.)			
		N	Mean	s.d.	Median	Mean	s.d.	Median
Kilosa	Chanzuru Chekereni	35	.49	.68	.20	1.00	.73	.81
	Chanzuru Darajani	35	.48	.79	.00	.82	.72	.61
	Chanzuru Kati	35	1.05	1.58	.40	1.79	1.64	1.32
	<u>All</u>	<u>105</u>	<u>.67</u>	<u>1.12</u>	<u>.40</u>	<u>1.20</u>	<u>1.18</u>	<u>.81</u>
"Maize"	Chakwale Kilimani	35	3.42	2.78	2.63	3.38	2.85	2.43
	Mlali Gudugudu	35	1.04	1.03	.91	1.31	.94	1.01
	<u>All</u>	<u>70</u>	<u>2.23</u>	<u>2.40</u>	<u>1.62</u>	<u>2.35</u>	<u>2.35</u>	<u>1.67</u>
Mgeta	Nyandira Lundi	35	1.54	1.15	1.11	1.55	1.15	1.11
	Pinde Pinde	35	.95	.60	.81	.98	.74	.81
	<u>All</u>	<u>70</u>	<u>1.25</u>	<u>.96</u>	<u>1.00</u>	<u>1.27</u>	<u>1.00</u>	<u>1.00</u>
Selous	Sesenga Kibungo	35	1.64	2.24	.81	1.44	1.18	1.01
	Duthumi-Bonye Sogea Mbele	35	2.43	2.16	1.82	1.52	1.21	1.32
	Kongwa Kisanga	35	2.34	2.99	1.42	1.43	1.53	1.21
	<u>All</u>	<u>105</u>	<u>2.14</u>	<u>2.49</u>	<u>1.42</u>	<u>1.46</u>	<u>1.30</u>	<u>1.21</u>
All		350	<u>1.54</u>	<u>2.00</u>	<u>.91</u>	<u>1.52</u>	<u>1.55</u>	<u>1.01</u>

Table 4. Total Land Owned and Farmed*, by Village and Study Location

Study Location	Village	Area owned	Area farmed	Farmed %
		(ha.)	(ha.)	
Kilosa	Chanzuru Chekereni	17.0	35.0	206.0
	Chanzuru Darajani	16.9	28.7	170.1
	Chanzuru Kati	36.9	62.6	169.7
	<u>All</u>	<u>70.8</u>	<u>126.3</u>	<u>178.5</u>
"Maize"	Chakwale Kilimani	119.7	118.3	98.8
	Mlali Gudugudu	36.3	45.9	126.5
	<u>All</u>	<u>156.0</u>	<u>164.2</u>	<u>105.3</u>
Mgeta	Nyandira Lundi	54.0	54.2	100.4
	Pinde Pinde	33.3	34.4	103.3
	<u>All</u>	<u>87.3</u>	<u>88.6</u>	<u>101.5</u>
Selous	Sesenga Kibungo	57.4	50.3	87.7
	Duthumi-Bonye Sogea Mbele	85.1	53.4	62.7
	Kongwa Kisanga	82.0	50.1	61.1
	<u>All</u>	<u>224.5</u>	<u>153.7</u>	<u>68.5</u>
All		<u>538.5</u>	<u>532.8</u>	<u>98.9</u>

*Total areas summed across all households

Table 5. Size Distribution of Land Owned by Households, by Study Location

<u>Area Range</u>	Study location				All
	Kilosa	"Maize"	Mgeta	Selous	
	%	%	%	%	%
None	42.9	14.3	1.4	21.0	22.3
Less than 0.5 ha.	20.0	7.1	8.6	6.7	11.1
0.5 - 1 ha.	11.4	14.3	40.0	11.4	17.7
1-2 ha.	17.1	21.4	35.7	21.0	22.9
2-3 ha.	4.8	18.6	10.0	16.2	12.0
3-5 ha.	2.9	11.4	2.9	12.4	7.4
More than 5 ha.	1.0	12.9	1.4	11.4	6.6
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Data are percentages of sample households

Table 6. Size Distribution of Area Farmed by Households, by Study Location

<u>Area Range</u>	Study location				All
	Kilosa	"Maize"	Mgeta	Selous	
	%	%	%	%	%
None	3.8	2.9	1.4	8.6	4.6
Less than 0.5 ha.	21.0	5.7	10.0	7.6	11.7
0.5 - 1 ha.	36.2	20.0	38.6	23.8	29.7
1-2 ha.	22.9	28.6	34.3	33.3	29.4
2-3 ha.	8.6	20.0	10.0	17.1	13.7
3-5 ha.	6.7	11.4	4.3	6.7	7.1
More than 5 ha.	1.0	11.4	1.4	2.9	3.7
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Data are percentages of sample households

Table 7. Size Distribution of Land Owned, by Village

Study location: Kilosa

Area Range	Village			All
	Chanzuru Chekereni	Chanzuru Darajani	Chanzuru Kati	
	%	%	%	%
None	45.7	54.3	28.6	42.9
Less than 0.5 ha.	22.9	8.6	28.6	20.0
0.5 - 1 ha.	11.4	14.3	8.6	11.4
1-2 ha.	14.3	20.0	17.1	17.1
2-3 ha.	5.7		8.6	4.8
3-5 ha.		2.9	5.7	2.9
More than 5 ha.			2.9	1.0
<i>Total</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>

Study location: "Maize"

Area Range	Village		All
	Chakwale Kilimani	Mlali Gudugudu	
	%	%	%
None	2.9	25.7	14.3
Less than 0.5 ha.	2.9	11.4	7.1
0.5 - 1 ha.	5.7	22.9	14.3
1-2 ha.	22.9	20.0	21.4
2-3 ha.	25.7	11.4	18.6
3-5 ha.	14.3	8.6	11.4
More than 5 ha.	25.7		12.9
<i>Total</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>

Data are percentages of sample households

Study location: Mgeta

Area Range	Village		All
	Nyandira Lundi	Pinde Pinde	
	%	%	%
None		2.9	1.4
Less than 0.5 ha.		17.1	8.6
0.5 - 1 ha.	40.0	40.0	40.0
1-2 ha.	34.3	37.1	35.7
2-3 ha.	17.1	2.9	10.0
3-5 ha.	5.7		2.9
More than 5 ha.	2.9		1.4
<i>Total</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>

Study location: Selous

	Village			All
	Sesenga Kibungo	Duthumi Bonye Sogea Mbele	Kongwa Kisanga	
<u>Area Range</u>	%	%	%	%
None	34.3	5.7	22.9	21.0
Less than 0.5 ha.	2.9	8.6	8.6	6.7
0.5 - 1 ha.	17.1	8.6	8.6	11.4
1-2 ha.	11.4	28.6	22.9	21.0
2-3 ha.	14.3	22.9	11.4	16.2
3-5 ha.	11.4	14.3	11.4	12.4
More than 5 ha.	8.6	11.4	14.3	11.4
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Data are percentages of sample households

Table 8. Size Distribution of Area Farmed, by Village

Study location: Kilosa

Area Range	Village			All
	Chanzuru Chekereni	Chanzuru Darajani	Chanzuru Kati	
	%	%	%	%
None	5.7	5.7		3.8
Less than 0.5 ha.	17.1	25.7	20.0	21.0
0.5 - 1 ha.	42.9	40.0	25.7	36.2
1-2 ha.	22.9	25.7	20.0	22.9
2-3 ha.	8.6		17.1	8.6
3-5 ha.	2.9	2.9	14.3	6.7
More than 5 ha.			2.9	1.0
<i>Total</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>

Study location: "Maize"

Area Range	Village		All
	Chakwale Kilimani	Mlali Gudugudu	
	%	%	%
None		5.7	2.9
Less than 0.5 ha.	2.9	8.6	5.7
0.5 - 1 ha.	8.6	31.4	20.0
1-2 ha.	22.9	34.3	28.6
2-3 ha.	28.6	11.4	20.0
3-5 ha.	14.3	8.6	11.4
More than 5 ha.	22.9		11.4
<i>Total</i>	<i>100.0</i>	<i>100.0</i>	<i>100.0</i>

Data are percentages of sample households

Study location: Mgeta

Area Range	Village		All
	Nyandira Lundi	Pinde Pinde	
	%	%	%
None		2.9	1.4
Less than 0.5 ha.		20.0	10.0
0.5 - 1 ha.	37.1	40.0	38.6
1-2 ha.	37.1	31.4	34.3
2-3 ha.	17.1	2.9	10.0
3-5 ha.	5.7	2.9	4.3
More than 5 ha.	2.9		1.4
<i>Total</i>	<i>100.00</i>	<i>100.00</i>	<i>100.00</i>

Study location: Selous

	Village			All
	Sesenga Kibungo	Duthumi Bonye Sogea Mbele	Kongwa Kisanga	
Area Range	%	%	%	%
None	8.6	5.7	11.4	8.6
Less than 0.5 ha.	8.6	8.6	5.7	7.6
0.5 - 1 ha.	25.7	22.9	22.9	23.8
1-2 ha.	20.0	34.3	45.7	33.3
2-3 ha.	31.4	17.1	2.9	17.1
3-5 ha.	2.9	8.6	8.6	6.7
More than 5 ha.	2.9	2.9	2.9	2.9
Total	100.0	100.0	100.0	100.0

Data are percentages of sample households

Table 9. Mean Land Owned by Income Quartile, by Study Location

Study Location		Area (ha.)				
		Per capita income quartile				
		I	II	III	IV	All
Kilosa	<i>N</i>	26	27	26	26	105
	Mean	.28	.65	.56	1.21	.67
	<i>s.d.</i>	.40	.89	.92	1.70	1.12
	Median	.00	.40	.15	.51	.40
"Maize"	<i>N</i>	17	18	18	17	70
	Mean	1.94	2.10	2.77	2.08	2.23
	<i>s.d.</i>	1.86	2.03	3.32	2.21	2.40
	Median	.91	1.67	1.72	1.21	1.62
Mgeta	<i>N</i>	17	18	18	17	70
	Mean	.77	1.27	1.58	1.35	1.25
	<i>s.d.</i>	.53	.52	1.41	.95	.96
	Median	.71	1.16	1.01	1.01	1.00
Selous	<i>N</i>	26	27	26	26	105
	Mean	1.28	1.55	2.02	3.73	2.14
	<i>s.d.</i>	2.01	1.29	2.11	3.45	2.49
	Median	.61	1.42	1.32	2.73	1.42
All	<i>N</i>	87	88	88	87	350
	Mean	.94	1.39	1.70	2.13	1.54
	<i>s.d.</i>	1.22	1.58	2.17	2.58	2.00
	Median	.61	1.01	1.06	1.11	.91

Table 10. Land Use by Sample Households, by Study Location and Total

	Area (ha.)			
	Study location			
	Kilosa		"Maize"	
	Sum	%	Sum	%
Maize	67.2	49.3	88.5	48.2
Maize mixture	10.1	7.4	22.1	12.0
Rice/rice mixtures	41.0	30.1	6.1	3.3
Simsim	.	.	.4	.2
Pulses	3.7	2.7	9.6	5.2
Vegetables/salad	2.2	1.6	9.3	5.1
Roots	1.0	.7	11.2	6.1
Sorghum	.	.	15.2	8.3
Bananas/banana mixture	.4	.3	.1	.1
Other	5.2	3.8	6.1	3.3
Unspecified	5.3	3.9	15.1	8.2
Total	136.1	100.0	183.6	100.0

	Area (ha.)					
	Study location				All	
	Mgeta		Selous		Sum	%
	Sum	%	Sum	%		
Maize	6.3	6.4	38.9	14.4	200.8	29.2
Maize mixture	43.5	44.3	17.2	6.4	92.9	13.5
Rice/rice mixtures	.2	.2	53.4	19.7	100.7	14.6
Simsim	.	.	41.2	15.2	41.6	6.0
Pulses	13.5	13.7	6.3	2.3	33.1	4.8
Vegetables/salad	16.6	16.9	.6	.2	28.8	4.2
Roots	9.7	9.9	2.3	.9	24.3	3.5
Sorghum	.	.	4.9	1.8	20.0	2.9
Bananas/banana mixture	2.8	2.9	11.0	4.1	14.3	2.1
Other	4.2	4.2	.8	.3	16.2	2.4
Unspecified	1.4	1.4	94.1	34.8	115.8	16.8
Total	98.2	100.0	270.6	100.0	688.6	100.0

Sum: total area summed across all sample households
 %: percentage of total area

Table 11. Land Use by Sample Households, by Village and Study Location

Study location: Kilosa

	Area (ha.)							
	Village						All	
	Chanzuru Chekereni		Chanzuru Darajani		Chanzuru Kati		Sum	%
	Sum	%	Sum	%	Sum	%		
Maize	23.1	63.2	12.0	39.7	32.1	46.3	67.2	49.3
Maize mixture	2.8	7.8	3.0	10.0	4.2	6.1	10.1	7.4
Rice/rice mixtures	3.1	8.6	11.4	37.7	26.4	38.1	41.0	30.1
Pulses	3.1	8.6	.	.	.6	.9	3.7	2.7
Vegetables/salad	1.5	4.2	.6	2.0	.1	.1	2.2	1.6
Roots	.1	.3	.5	1.7	.4	.6	1.0	.7
Bananas/banana mixture	.	.	.4	1.3	.	.	.4	.3
Other	1.9	5.3	1.5	5.0	1.8	2.6	5.2	3.8
Unspecified	.8	2.2	.8	2.7	3.6	5.3	5.3	3.9
Total	36.5	100.0	30.4	100.0	69.3	100.0	136.1	100.0

Study location: "Maize

	Area (ha.)					
	Village				All	
	Chakwale Kilimani		Mlali Gudugudu		Sum	%
	Sum	%	Sum	%		
Maize	75.3	59.9	13.3	22.9	88.5	48.2
Maize mixture	20.0	15.9	2.0	3.5	22.1	12.0
Rice/rice mixtures	.	.	6.1	10.5	6.1	3.3
Simsim	.4	.3	.	.	.4	.2
Pulses	7.9	6.3	1.7	3.0	9.6	5.2
Vegetables/salad	.	.	9.3	16.1	9.3	5.1
Roots	10.0	8.0	1.2	2.1	11.2	6.1
Sorghum	.	.	15.2	26.2	15.2	8.3
Bananas/banana mixture	.	.	.1	.2	.1	.1
Other	5.1	4.0	1.0	1.7	6.1	3.3
Unspecified	7.1	5.6	8.0	13.8	15.1	8.2
Total	125.8	100.0	57.9	100.0	183.6	100.0

Sum: total area summed across all sample households

?: percentage of total area

Study location: Mgeta

	Area (ha.)					
	Village				All	
	Nyandira Lundi		Pinde Pinde		Sum	%
	Sum	%	Sum	%		
Maize	5.7	9.8	.6	1.5	6.3	6.4
Maize mixture	22.8	39.3	20.7	51.5	43.5	44.3
Rice/rice mixtures	.2	.3	.	.	.2	.2
Pulses	10.5	18.1	3.0	7.5	13.5	13.7
Vegetables/salad	12.2	21.0	4.5	11.1	16.6	16.9
Roots	2.9	5.1	6.8	16.9	9.7	9.9
Bananas/banana mixture	.8	1.4	2.0	4.9	2.8	2.9
Other	2.9	5.1	1.2	3.1	4.2	4.2
Unspecified	.	.	1.4	3.5	1.4	1.4
Total	58.0	100.0	40.3	100.0	98.2	100.0

Study location: Selous

	Area (ha.)							
	Village				All			
	Sesenga Kibungo		Duthumi-Bonye Sogea Mbele		Kongwa Kisanga		Sum	%
	Sum	%	Sum	%	Sum	%		
Maize	8.5	10.8	15.0	15.2	15.4	16.4	38.9	14.4
Maize mixture	3.2	4.1	10.3	10.5	3.6	3.9	17.2	6.4
Rice/rice mixtures	11.4	14.6	17.9	18.2	24.1	25.7	53.4	19.7
Simsim	24.7	31.5	10.7	10.9	5.8	6.2	41.2	15.2
Pulses	1.0	1.3	4.2	4.3	1.0	1.1	6.3	2.3
Vegetables/salad	.	.	.3	.3	.3	.3	.6	.2
Roots	.5	.6	1.6	1.6	.3	.3	2.3	.9
Sorghum	4.0	5.2	.8	.8	.	.	4.9	1.8
Bananas/banana mixture	7.5	9.5	2.7	2.8	.8	.9	11.0	4.1
Other	.1	.1	.2	.2	.5	.5	.8	.3
Unspecified	17.5	22.3	34.8	35.3	41.8	44.6	94.1	34.8
Total	78.4	100.0	98.6	100.0	93.6	100.0	270.6	100.0

Sum: total area summed across all sample households
 %: percentage of total area

Livestock

The six households with large herds have not been included in the following set of livestock asset tables. Summaries of the livestock holdings of these households are presented below. All six households were in Kongwa Kisanga village.

Household number	Cattle	Goats	Sheep	Chickens	Total livestock holding in CEUs
23	75	64	23	8	86.4
24	368	17	25	35	373.6
25	106	68	.	.	115.5
33	285	60	30	.	296.4
34	59	30	5	2	63.7
35	265	30	100	10	279.4

Table 12. Livestock Ownership by Sample Households , by Study Location

	Study location				All
	Kilosa	"Maize"	Mgeta	Selous	
	%	%	%	%	%
Cattle	1.0	20.0	.0	3.0	5.2
Goats	1.0	34.3	28.6	8.1	15.4
Pigs	.0	1.4	55.7	.0	11.6
Chickens	31.4	61.4	50.0	70.7	52.6
Other	4.8	4.3	8.6	6.1	5.8

Data are percentages of sample households owning each type of livestock, per study location
 'Other' includes sheep, turkeys, ducks, rabbits & guinea fowl kept by a few HHs

**Table 13. Livestock Ownership by Sample Households, by Village
Study location Kilosa**

	Village			All
	Chanzuru Chekereni	Chanzuru Darajani	Chanzuru Kati	
	%	%	%	
<u>Cattle</u>	.	.	2.9	1.0
<u>Goats</u>	.	.	2.9	1.0
<u>Chickens</u>	48.6	11.4	34.3	31.4
<u>Other</u>	2.9	.	11.4	4.8

Study location "Maize"

	Village		All
	Chakwale Kilimani	Mlali Gudugudu	
	%	%	
<u>Cattle</u>	40.0	.	20.0
<u>Goats</u>	51.4	17.1	34.3
<u>Pigs</u>	.	2.9	1.4
<u>Chickens</u>	68.6	54.3	61.4
<u>Other</u>	2.9	5.7	4.3

Study location Mgeta

	Village		All
	Nyandira Lundi	Pinde Pinde	
	%	%	
<u>Goats</u>	31.4	25.7	28.6
<u>Pigs</u>	71.4	40.0	55.7
<u>Chickens</u>	37.1	62.9	50.0
<u>Other</u>	8.6	8.6	8.6

Study location Selous

	Village			All
	Sesenga Kibungo	Duthumi-Bonye Sogea Mbele	Kongwa Kisanga	
	%	%	%	
<u>Cattle</u>	.	.	10.3	3.0
<u>Goats</u>	14.3	2.9	6.9	8.1
<u>Chickens</u>	68.6	74.3	69.0	70.7
<u>Other</u>	5.7	5.7	6.9	6.1

Data are percentages of sample households owning each type of livestock, per village
'Other' includes sheep, turkeys, ducks, rabbits & guinea fowl kept by a few HHs

Table 14. Count Distribution of Cattle,Goats and Chickens Owned by Households, by Study Location

		Study Location				All
		Kilosa	"Maize"	Mgeta	Selous	
		%	%	%	%	%
Cattle	None	99.0	80.0	100.0	97.0	94.8
	1-5	.0	7.1	.0	1.0	1.7
	6-10	1.0	4.3	.	1.0	1.5
	More than 10	.	8.6	.	1.0	2.0
	Total	100.0	100.0	100.0	100.0	100.0
Goats	None	99.0	65.7	71.4	91.9	84.6
	1-5	1.0	20.0	22.9	6.1	10.8
	6-10	.	7.1	4.3	1.0	2.6
	More than 10	.	7.1	1.4	1.0	2.0
	Total	100.0	100.0	100.0	100.0	100.0
Chickens	None	68.6	38.6	50.0	29.3	47.4
	1-5	14.3	28.6	32.9	33.3	26.5
	6-10	10.5	22.9	12.9	16.2	15.1
	More than 10	6.7	10.0	4.3	21.2	11.0
	Total	100.0	100.0	100.0	100.0	100.0

Data are percentages of sample households

Table 15. Mean Livestock Owned by Households, by Study Location

		Study location				
		Kilosa	"Maize"	Mgeta	Selous	All
		<i>N</i>	105	70	70	99	344
Cattle	Mean	.07	2.60	.00	.29	.63
	<i>s.d.</i>	.68	7.26	.00	1.87	3.57
	Median	.00	.00	.00	.00	.00
Goats	Mean	.03	2.11	1.06	.42	.78
	<i>s.d.</i>	.29	4.22	2.38	1.75	2.49
	Median	.00	.00	.00	.00	.00
Chickens	Mean	2.51	4.26	2.34	6.87	4.09
	<i>s.d.</i>	5.62	5.46	3.40	9.63	6.93
	Median	.00	2.00	.50	3.00	1.00
Pigs	Mean	.00	.01	.90	.00	.19
	<i>s.d.</i>	.00	.12	1.02	.00	.59
	Median	.00	.00	1.00	.00	.00
Other	Mean	.19	.31	.29	.41	.30
	<i>s.d.</i>	1.05	1.92	1.32	2.21	1.68
	Median	.00	.00	.00	.00	.00

'Other' includes sheep, turkeys, ducks, rabbits & guinea fowl kept by a few HHs

Table 16. Mean Livestock Assets in Cattle Equivalent Units*, by Village and Study Location

Study Location	Village	N	Mean	s.d.	Median
Kilosa	Chanzuru Chekereni	35	.06	.09	.00
	Chanzuru Darajani	35	.01	.02	.00
	Chanzuru Kati	35	.31	1.18	.00
	<u>All</u>	<u>105</u>	<u>.13</u>	<u>.69</u>	<u>.00</u>
"Maize"	Chakwale Kilimani	35	5.78	10.11	.58
	Mlali Gudugudu	35	.21	.32	.10
	<u>All</u>	<u>70</u>	<u>3.00</u>	<u>7.64</u>	<u>.16</u>
Mgeta	Nyandira Lundi	35	.58	.53	.56
	Pinde Pinde	35	.32	.35	.20
	<u>All</u>	<u>70</u>	<u>.45</u>	<u>.46</u>	<u>.32</u>
Selous	Sesenga Kibungo	35	.17	.21	.06
	Duthumi-Bonye Sogea Mbele	35	.25	.37	.12
	Kongwa Kisanga	29	1.26	4.06	.10
	<u>All</u>	<u>99</u>	<u>.52</u>	<u>2.24</u>	<u>.10</u>
T All		<u>344</u>	<u>.89</u>	<u>3.81</u>	<u>.06</u>

*Cattle Equivalent Units): Pigs = 0.28; Goats = 0.14; Sheep = 0.10; Chickens = 0.02; Turkeys = 0.04; Others = Actual price/Trimmed mean cattle price
Means for all households

Table 17. Count Distribution of Livestock Assets in Cattle Equivalent Units*, by Study Location

CEU* Range	Study location				All
	Kilosa	"Maize"	Mgeta	Selous	
	%	%	%	%	%
None	63.8	24.3	17.1	25.3	35.2
Less than 0.5	32.4	42.9	42.9	62.6	45.3
0.5-1	2.9	7.1	31.4	7.1	10.8
1-5	.0	12.9	8.6	3.0	5.2
5-10	1.0	2.9	.0	.0	.9
More than 10	.0	10.0	.0	2.0	2.6
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Data are percentages of smple households
*CEUs (cattle equivalent units): Pigs = 0.28; Goats = 0.14; Sheep = 0.10; Chickens = 0.02; Turkeys = 0.04; Others = Actual price/Trimmed mean cattle price

Table 18. Mean Livestock Assets in Cattle Equivalent Units*, by Income Quartile by Study Location

Study Location	Per capita income quartile					All
	<i>N</i>	I	II	III	IV	
Kilosa	<i>N</i>	26	27	26	26	105
	Mean	.02	.07	.05	.37	.13
	<i>s.d.</i>	.05	.17	.07	1.36	.69
	Median	.00	.00	.00	.00	.00
"Maize"	<i>N</i>	17.00	18.00	18.00	17.00	70.00
	Mean	.45	1.56	3.43	6.60	3.00
	<i>s.d.</i>	.83	5.01	8.21	11.37	7.64
	Median	.04	.12	.31	.10	.16
Mgeta	<i>N</i>	17.00	18.00	18.00	17.00	70.00
	Mean	.36	.48	.33	.64	.45
	<i>s.d.</i>	.37	.61	.37	.43	.46
	Median	.28	.30	.28	.58	.32
Selous	<i>N</i>	26.00	27.00	26.00	20.00	99.00
	Mean	.65	.12	.22	1.26	.52
	<i>s.d.</i>	2.08	.14	.37	4.36	2.24
	Median	.06	.06	.05	.16	.10
All	<i>N</i>	87.00	88.00	88.00	81.00	344.00
	Mean	.28	.94	.48	1.92	.89
	<i>s.d.</i>	.61	4.40	1.40	6.08	3.81
	Median	.06	.06	.12	.10	.06

*Cattle Equivalent Units: Pigs = 0.28; Goats = 0.14; Sheep = 0.10; Chickens = 0.02; Turkeys = 0.04; Others = Actual price/Trimmed mean cattle price

Labour, Education and Domestic Assets

Table 19. Household Demographic and Education Data, by Study Location

		Study Location				All
		Kilosa	"Maize"	Mgeta	Selous	
	<i>N</i>	105	70	70	105	350
<u>HH Size (Actual - resident)</u>	Mean	3.85	5.04	4.54	4.54	4.43
	<i>s.d.</i>	2.10	2.22	2.06	3.53	2.65
	Median	4.00	5.00	4.00	4.00	4.00
<u>HH Size (EAAs - resident)</u>	Mean	2.04	2.24	2.00	2.08	2.08
	<i>s.d.</i>	1.07	1.07	1.09	1.12	1.09
	Median	2.00	2.00	2.00	2.00	2.00
<u>HH Size (AEUs - resident)</u>	Mean	2.93	3.63	3.24	3.15	3.20
	<i>s.d.</i>	1.51	1.47	1.35	1.60	1.51
	Median	2.80	3.50	3.20	2.80	3.10
<u>HH Non-residents</u>	Mean	1.12	.64	1.31	.90	1.00
	<i>s.d.</i>	1.50	1.16	1.71	1.39	1.46
	Median	.00	.00	.00	.00	.00
<u>Age of HH Head</u>	<i>(N)</i>	105	70	70	104	349
	Mean	43.6	45.0	49.6	43.0	44.9
	<i>s.d.</i>	17.0	15.0	16.5	15.7	16.2
	Median	41.0	41.5	48.0	40.0	42.0
<u>Gender of HH Head</u>	% male	81.0	74.3	68.6	81.0	77.1
	% female	19.0	25.7	31.4	19.0	22.9
<u>Education of HH Head (years)</u>	Mean	3.96	3.64	4.19	3.53	3.81
	<i>s.d.</i>	3.39	3.31	3.14	3.28	3.29
	Median	4.00	4.00	4.00	4.00	4.00
<u>Education of HH - All Resident EAAs (years)</u>	Mean	9.90	10.23	11.14	7.45	9.48
	<i>s.d.</i>	7.75	6.43	6.59	6.54	7.03
	Median	7.00	9.50	14.00	7.00	8.00
<u>Education HH per capita resident EAAs (years)</u>	Mean	4.64	4.61	5.15	3.49	4.39
	<i>s.d.</i>	2.75	2.52	2.46	2.62	2.67
	Median	5.25	4.67	5.50	3.50	4.67

Notes:

1. HH Size (Actual): Total no. of adults & children in HH
2. EAAs (Economically Active Adults): those aged 15-60 inclusive, except those in education
3. AEUs (Adult Equivalent Units on basis of consumption): male 15 years or older=1; female 15 years or older=0.8; male or female 14 years or under=0.5
4. HH head: in de facto female headed households, these data relate to the absent (male) head
5. Years in education: level reached taken as proxy for years on basis of:
None=0; Std IV=4; Std VII=7; Form IV=11; Form VI=13; Higher=15
6. Female HH Head: HHs where a) female entered on survey form as HHH (but excluding cases where there is a resident husband listed as well); b) female entered as 'Wife', but no resident husband; c) nobody entered as HHH, no husband listed

Table 20. Household Demographic and Education Data, by Village and Study Location

Study location Kilosa

		Village			All
		Chanzuru Chekereni	Chanzuru Darajani	Chanzuru Kati	
	<i>N</i>	35	35	35	105
<u>HH Size (Actual - resident)</u>	Mean	3.80	3.00	4.74	3.85
	<i>s.d.</i>	2.07	1.53	2.29	2.10
	Median	4.00	3.00	4.00	4.00
<u>HH Size (EAAs - resident)</u>	Mean	1.97	1.71	2.43	2.04
	<i>s.d.</i>	1.12	.79	1.17	1.07
	Median	2.00	2.00	2.00	2.00
<u>HH Size (AEUs - resident)</u>	Mean	2.90	2.35	3.53	2.93
	<i>s.d.</i>	1.56	1.03	1.67	1.51
	Median	2.80	2.30	3.40	2.80
<u>HH Non-residents</u>	Mean	1.29	1.20	.89	1.12
	<i>s.d.</i>	1.56	1.80	1.08	1.50
	Median	1.00	.00	.00	.00
<u>Age of HH Head</u>	Mean	45.7	43.8	41.4	43.6
	<i>s.d.</i>	17.9	19.0	13.9	17.0
	Median	46.0	40.0	39.0	41.0
<u>Gender of HH Head</u>	% male	80.0	77.1	85.7	81.0
	% female	20.0	22.9	14.3	19.0
<u>Education of HH Head (years)</u>	Mean	3.20	3.40	5.29	3.96
	<i>s.d.</i>	3.17	3.18	3.49	3.39
	Median	4.00	4.00	7.00	4.00
<u>Education of HH - All Resident EAAs (years)</u>	Mean	9.03	7.34	13.31	9.90
	<i>s.d.</i>	8.61	5.41	7.79	7.75
	Median	7.00	7.00	14.00	7.00
<u>Education HH per capita resident EAAs (years)</u>	Mean	3.94	4.20	5.77	4.64
	<i>s.d.</i>	2.85	2.77	2.32	2.75
	Median	4.00	4.00	7.00	5.25

Notes:

1. HH Size (Actual): Total no. of adults & children in HH
2. EAAs (Economically Active Adults): those aged 15-60 inclusive, except those in education
3. AEUs (Adult Equivalent Units on basis of consumption): male 15 years or older=1; female 15 years or older=0.8; male or female 14 years or under=0.5
4. HH head: in de facto female headed households, these data relate to the absent (male) head
5. Years in education: level reached taken as proxy for years on basis of:
None=0; Std IV=4; Std VII=7; Form IV=11; Form VI=13; Higher=15
6. Female HH Head: HHs where a) female entered on survey form as HHH (but excluding cases where there is a resident husband listed as well); b) female entered as 'Wife', but no resident husband; c) nobody entered as HHH, no husband listed

Study location "Maize"

		Village		All
		Chakwale Kilimani	Mlali Gudugudu	
	<i>N</i>	35	35	70
<u>HH Size (Actual - resident)</u>	Mean	5.60	4.49	5.04
	s.d.	2.26	2.06	2.22
	Median	5.00	4.00	5.00
<u>HH Size (EAAs - resident)</u>	Mean	2.57	1.91	2.24
	s.d.	1.14	.89	1.07
	Median	2.00	2.00	2.00
<u>HH Size (AEUs - resident)</u>	Mean	3.96	3.29	3.63
	s.d.	1.57	1.31	1.47
	Median	3.60	3.30	3.50
<u>HH Non-residents</u>	Mean	.57	.71	.64
	s.d.	1.22	1.10	1.16
	Median	.00	.00	.00
<u>Age of HH Head</u>	Mean	43.3	46.7	45.0
	s.d.	15.9	14.2	15.0
	Median	39.0	43.0	41.5
<u>Gender of HH Head</u>	% male	82.9	65.7	74.3
	% female	17.1	34.3	25.7
<u>Education of HH Head (years)</u>	Mean	3.09	4.20	3.64
	s.d.	3.21	3.36	3.31
	Median	4.00	4.00	4.00
<u>Education of HH - All Resident EAAs (years)</u>	Mean	11.11	9.34	10.23
	s.d.	6.35	6.48	6.43
	Median	11.00	8.00	9.50
<u>Education HH per capita resident EAAs (years)</u>	Mean	4.49	4.74	4.61
	s.d.	2.23	2.81	2.52
	Median	4.00	5.50	4.67

Notes:

1. HH Size (Actual): Total no. of adults & children in HH
2. EAAs (Economically Active Adults): those aged 15-60 inclusive, except those in education
3. AEUs (Adult Equivalent Units on basis of consumption): male 15 years or older=1; female 15 years or older=0.8; male or female 14 years or under=0.5
4. HH head: in de facto female headed households, these data relate to the absent (male) head
5. Years in education: level reached taken as proxy for years on basis of:
None=0; Std IV=4; Std VII=7; Form IV=11; Form VI=13; Higher=15
6. Female HH Head: HHs where a) female entered on survey form as HHH (but excluding cases where there is a resident husband listed as well); b) female entered as 'Wife', but no resident husband; c) nobody entered as HHH, no husband listed

Study location Mgeta

		Village		All
		Nyandira Lundi	Pinde Pinde	
	<i>N</i>	35	35	70
<u>HH Size (Actual - resident)</u>	Mean	4.74	4.34	4.54
	<i>s.d.</i>	2.27	1.85	2.06
	Median	4.00	4.00	4.00
<u>HH Size (EAAs - resident)</u>	Mean	2.03	1.97	2.00
	<i>s.d.</i>	.95	1.22	1.09
	Median	2.00	2.00	2.00
<u>HH Size (AEUs - resident)</u>	Mean	3.33	3.15	3.24
	<i>s.d.</i>	1.47	1.24	1.35
	Median	3.30	3.10	3.20
<u>HH Non-residents</u>	Mean	1.63	1.00	1.31
	<i>s.d.</i>	1.78	1.59	1.71
	Median	1.00	.00	.00
<u>Age of HH Head</u>	Mean	46.9	52.3	49.6
	<i>s.d.</i>	13.9	18.5	16.5
	Median	47.0	50.0	48.0
<u>Gender of HH Head</u>	% male	60.0	77.1	68.6
	% female	40.0	22.9	31.4
<u>Education of HH Head (years)</u>	Mean	4.40	3.97	4.19
	<i>s.d.</i>	3.18	3.13	3.14
	Median	4.00	4.00	4.00
<u>Education of HH - All Resident EAAs (years)</u>	Mean	11.00	11.29	11.14
	<i>s.d.</i>	5.42	7.66	6.59
	Median	11.00	14.00	14.00
<u>Education HH per capita resident EAAs (years)</u>	Mean	5.27	5.03	5.15
	<i>s.d.</i>	2.41	2.54	2.46
	Median	5.50	6.00	5.50

Notes:

1. HH Size (Actual): Total no. of adults & children in HH
2. EAAs (Economically Active Adults): those aged 15-60 inclusive, except those in education
3. AEUs (Adult Equivalent Units on basis of consumption): male 15 years or older=1; female 15 years or older=0.8; male or female 14 years or under=0.5
4. HH head: in de facto female headed households, these data relate to the absent (male) head
5. Years in education: level reached taken as proxy for years on basis of:
None=0; Std IV=4; Std VII=7; Form IV=11; Form VI=13; Higher=15
6. Female HH Head: HHs where a) female entered on survey form as HHH (but excluding cases where there is a resident husband listed as well); b) female entered as 'Wife', but no resident husband; c) nobody entered as HHH, no husband listed

Study location Selous

		Village			All
		Sesenga Kibungo	Duthumi-Bonye Sogea Mbele	Kongwa Kisanga	
	<i>N</i>	35	35	35	105
<u>HH Size (Actual - resident)</u>	Mean	3.69	3.97	5.97	4.54
	<i>s.d.</i>	1.64	2.05	5.29	3.53
	Median	3.00	4.00	4.00	4.00
<u>HH Size (EAAs - resident)</u>	Mean	1.83	2.14	2.26	2.08
	<i>s.d.</i>	1.04	1.00	1.27	1.12
	Median	2.00	2.00	2.00	2.00
<u>HH Size (AEUs - resident)</u>	Mean	2.71	2.93	3.81	3.15
	<i>s.d.</i>	1.11	1.27	2.07	1.60
	Median	2.80	2.90	2.80	2.80
<u>HH Non-residents</u>	Mean	.94	.74	1.03	.90
	<i>s.d.</i>	1.39	.95	1.74	1.39
	Median	.00	.00	.00	.00
<u>Age of HH Head</u>	<i>(N</i>	35	35	34	104)
	Mean	42.1	44.0	42.7	43.0
	<i>s.d.</i>	13.6	16.4	17.2	15.7
	Median	36.0	42.0	40.0	40.0
<u>Gender of HH Head</u>	% male	74.3	82.9	85.7	81.0
	% female	25.7	17.1	14.3	19.0
<u>Education of HH Head (years)</u>	Mean	4.09	2.97	3.54	3.53
	<i>s.d.</i>	3.18	3.25	3.40	3.28
	Median	4.00	.00	4.00	4.00
<u>Education of HH - All Resident EAAs (years)</u>	Mean	8.57	6.57	7.20	7.45
	<i>s.d.</i>	7.71	6.31	5.43	6.54
	Median	7.00	7.00	7.00	7.00
<u>Education HH per capita resident EAAs (years)</u>	Mean	4.16	2.89	3.41	3.49
	<i>s.d.</i>	2.47	2.55	2.75	2.62
	Median	4.00	3.50	3.50	3.50

Notes:

1. HH Size (Actual): Total no. of adults & children in HH
2. EAAs (Economically Active Adults): those aged 15-60 inclusive, except those in education
3. AEUs (Adult Equivalent Units on basis of consumption): male 15 years or older=1; female 15 years or older=0.8; male or female 14 years or under=0.5
4. HH head: in de facto female headed households, these data relate to the absent (male) head
5. Years in education: level reached taken as proxy for years on basis of:
None=0; Std IV=4; Std VII=7; Form IV=11; Form VI=13; Higher=15
6. Female HH Head: HHs where a) female entered on survey form as HHH (but excluding cases where there is a resident husband listed as well); b) female entered as 'Wife', but no resident husband; c) nobody entered as HHH, no husband listed

Table 21. Household Education Level*, by Income Quartile, by Study Location

Study location	Per capita income quartile				All	
		I	II	III		IV
Kilosa	<i>N</i>	26	27	26	26	105
	Mean	6.77	12.07	8.42	12.23	9.90
	<i>s.d.</i>	5.66	8.80	8.42	6.56	7.75
	Median	7.00	11.00	7.00	14.00	7.00
"Maize"	<i>N</i>	17	18	18	17	70
	Mean	8.65	11.17	10.83	10.18	10.23
	<i>s.d.</i>	6.27	4.53	6.95	7.87	6.43
	Median	7.00	14.00	9.50	11.00	9.50
Mgeta	<i>N</i>	17	18	18	17	70
	Mean	11.18	12.22	9.83	11.35	11.14
	<i>s.d.</i>	5.67	4.82	5.76	9.59	6.59
	Median	14.00	14.00	9.50	11.00	14.00
Selous	<i>N</i>	26	27	26	26	105
	Mean	7.88	6.44	8.23	7.27	7.45
	<i>s.d.</i>	8.94	5.24	5.23	6.33	6.54
	Median	7.00	7.00	7.00	7.00	7.00
All	<i>N</i>	87	88	88	87	350
	Mean	9.34	9.49	9.17	9.91	9.48
	<i>s.d.</i>	6.55	7.39	6.81	7.42	7.03
	Median	8.00	7.00	7.50	8.00	8.00

*Household education: Total years in education for all resident EAAs. Level reached taken as proxy as in above tables.

Table 22. Education Level Reached, by Gender and Study Location

Study location	Education level reached	Gender of resident HH member				All	
		Male		Female		Count	%
		Count	%	Count	%		
Kilosa	None	73	36.0	70	35.2	143	35.6
	Std IV	33	16.3	24	12.1	57	14.2
	Std VII	91	44.8	99	49.7	190	47.3
	Form IV	6	3.0	6	3.0	12	3.0
	Total	203	100.0	199	100.0	402	100.0
"Maize"	None	68	42.8	81	45.0	149	44.0
	Std IV	18	11.3	15	8.3	33	9.7
	Std VII	71	44.7	81	45.0	152	44.8
	Form IV	2	1.3	3	1.7	5	1.5
	Total	159	100.0	180	100.0	339	100.0
Mgeta	None	43	31.6	58	34.1	101	33.0
	Std IV	27	19.9	37	21.8	64	20.9
	Std VII	61	44.9	72	42.4	133	43.5
	Form IV	5	3.7	3	1.8	8	2.6
	Total	136	100.0	170	100.0	306	100.0
Selous	None	103	50.0	146	63.2	249	57.0
	Std IV	34	16.5	25	10.8	59	13.5
	Std VII	69	33.5	60	26.0	129	29.5
	Total	206	100.0	231	100.0	437	100.0
	All	None	287	40.8	355	45.5	642	43.3
Std IV		112	15.9	101	12.9	213	14.4
Std VII		292	41.5	312	40.0	604	40.7
Form IV		13	1.8	12	1.5	25	1.7
Total		704	100.0	780	100.0	1484	100.0

Data are counts and percentages of resident EAAs

Table 23. Selected Domestic Assets, by Village, Study Location and Total

Study location	Village	Brick walls	Iron roof	Bicycles
		%	%	%
Kilosa	Chanzuru Chekereni	17.1	40.0	57.1
	Chanzuru Darajani	2.9	17.1	40.0
	Chanzuru Kati	65.7	55.9	77.1
	All	28.6	37.5	58.1
"Maize"	Chakwale Kilimani	8.6	40.0	40.0
	Mlali Gudugudu	73.5	52.9	34.3
	All	40.6	46.4	37.1
Mgeta	Nyandira Lundi	34.3	54.3	
	Pinde Pinde	28.6	37.1	2.9
	All	31.4	45.7	1.4
Selous	Sesenga Kibungo	48.6	42.9	31.4
	Duthumi-Bonye	5.7	5.7	45.7
	Kongwa Kisanga	14.3	14.3	48.6
	All	22.9	21.0	41.9
All		29.8	35.9	37.7

'Iron roof' does not include roofs of mixed materials including corrugated iron

Constructing Livelihoods in Rural Tanzania Subsistence

Table 24. Output Share Selected Crops and Livestock Products, Consumed by Households, by Study Location

Product	Output share (%)					
	N	Study location				All
		Kilosa	"Maize"	Mgeta	Selous	
<u>Maize</u>	N	93	65	69	83	310
	Mean	63.8	73.0	94.4	83.5	77.8
	s.d.	30.9	23.7	16.6	27.0	28.1
	Median	63.0	69.0	100.0	100.0	100.0
<u>Rice</u>	N	67	21	0	85	173
	Mean	43.7	65.3	.	72.6	60.5
	s.d.	26.2	28.5	.	28.8	30.8
	Median	40.0	60.0	.	75.0	54.0
<u>Vegetables/salad</u>	N	2	10	40	0	52
	Mean	53.0	18.0	10.0	.	13.2
	s.d.	66.5	33.6	18.2	.	24.8
	Median	53.0	.0	1.0	.	.0
<u>Beans</u>	N	13	15	65	0	93
	Mean	55.9	57.7	60.3	.	59.2
	s.d.	34.8	35.5	33.0	.	33.3
	Median	50.0	50.0	50.0	.	50.0
<u>Tomato</u>	N	8	25	13	2	48
	Mean	16.4	7.1	6.9	.0	8.3
	s.d.	34.0	10.5	9.3	.0	16.3
	Median	6.5	.0	.0	.0	.0
<u>Simsim</u>	N	0	1	0	62	63
	Mean	.	50.0	.	7.1	7.8
	s.d.	.	.	.	19.5	20.1
	Median	.	50.0	.	.0	.0
<u>Cassava</u>	N	12	3	10	15	40
	Mean	35.4	57.0	80.3	65.3	59.5
	s.d.	23.7	48.8	32.4	32.8	34.8
	Median	30.0	67.0	100.0	50.0	50.0
<u>Sorghum</u>	N	0	28	0	11	39
	Mean	.	61.4	.	56.8	60.1
	s.d.	.	37.0	.	32.7	35.5
	Median	.	58.5	.	50.0	50.0
<u>Cowpeas</u>	N	2	2	6	26	36
	Mean	75.0	50.0	69.5	37.9	45.9
	s.d.	35.4	24.0	24.5	33.4	33.5
	Median	75.0	50.0	58.5	33.0	50.0
<u>Cattle</u>	N	1	7	0	8	16
	Mean	.0	.4	.	5.5	2.9
	s.d.	.	1.1	.	7.7	5.9
	Median	.0	.0	.	1.5	.0
<u>Chickens</u>	N	29	26	19	47	121
	Mean	63.5	42.0	55.6	52.0	53.2
	s.d.	38.3	34.5	35.9	41.8	38.8
	Median	60.0	36.5	50.0	42.0	50.0
<u>Goats</u>	N	1	12	13	9	35
	Mean	17.0	12.0	2.5	24.6	11.9
	s.d.	.	28.6	9.2	21.7	21.9
	Median	17.0	.0	.0	25.0	.0
<u>Pigs</u>	N	0	0	30	0	30
	Mean	.	.	3.3	.	3.3
	s.d.	.	.	18.3	.	18.3
	Median	.	.	.0	.	.0

Based on 'Proportion consumed' data

Mean and median percentages apply only to households producing each output listed

Where households had more than one harvest of any crop, the mean proportion consumed has been used

Table 25. Maize: Output Share Consumed by Households, by Income Quartile, by District

Study Location	Per capita income quartile				All	
		I	II	III		IV
<u>Kilosa</u>	<i>N</i>	25	23	20	25	93
	Mean	69.0	69.6	64.1	52.9	63.8
	<i>s.d.</i>	29.1	28.4	25.7	37.0	30.9
	Median	67.0	75.0	58.5	50.0	63.0
<u>"Maize"</u>	<i>N</i>	17	18	15	15	65
	Mean	74.9	65.3	84.4	68.5	73.0
	<i>s.d.</i>	22.3	22.7	22.0	25.5	23.7
	Median	75.0	67.0	100.0	67.0	69.0
<u>Mgeta</u>	<i>N</i>	16	18	18	17	69
	Mean	100.0	95.4	95.2	87.1	94.4
	<i>s.d.</i>	.0	13.8	12.1	27.0	16.6
	Median	100.0	100.0	100.0	100.0	100.0
<u>Selous</u>	<i>N</i>	22	24	20	17	83
	Mean	83.7	83.5	92.9	72.4	83.5
	<i>s.d.</i>	29.1	23.0	19.9	33.8	27.0
	Median	100.0	100.0	100.0	100.0	100.0
<u>All</u>	<i>N</i>	82	83	72	73	310
	Mean	81.7	80.4	80.8	67.6	77.8
	<i>s.d.</i>	26.1	24.5	25.2	34.2	28.1
	Median	100.0	100.0	100.0	71.0	100.0

Based on 'Proportion consumed' data

Mean and median percentages apply only to households producing maize

Where households had more than one harvest of any crop, the mean proportion consumed has been used.

Table 26. Rice: Output Share Consumed by Households, by Income Quartile, by District

Study Location	Study location income quartiles				All	
		I (Kilosa)	II (Kilosa)	III (Kilosa)		IV (Kilosa)
<u>Kilosa</u>	<i>N</i>	14	18	16	19	67
	Mean	61.5	41.6	43.1	33.2	43.7
	<i>s.d.</i>	27.4	23.5	23.6	25.0	26.2
	Median	57.0	36.5	47.0	33.0	40.0
<u>"Maize"</u>	<i>N</i>	3	4	7	7	21
	Mean	86.7	40.1	71.4	64.3	65.3
	<i>s.d.</i>	23.1	7.2	27.2	32.7	28.5
	Median	100.0	38.8	60.0	73.0	60.0
<u>Selous</u>	<i>N</i>	22	22	21	20	85
	Mean	78.1	68.0	79.6	64.4	72.6
	<i>s.d.</i>	24.6	25.3	26.1	37.2	28.8
	Median	89.5	65.0	100.0	64.5	75.0
<u>All</u>	<i>N</i>	29	45	50	49	173
	Mean	71.3	59.5	64.5	51.1	60.5
	<i>s.d.</i>	27.9	26.4	30.2	34.5	30.8
	Median	67.0	50.0	61.5	50.0	54.0

Based on 'Proportion consumed' data

Mean and median percentages apply only to households producing rice

Where households had more than one harvest of any crop, the mean proportion consumed has been used.

Table 27. Share of Own Consumption in Total Income*, by Village and Study Location

Study Location	Village	Share (%)
Kilosa	Chanzuru Chekereni	9.7
	Chanzuru Darajani	18.9
	Chanzuru Kati	9.3
	<u>All</u>	<u>10.6</u>
"Maize"	Chakwale Kilimani	14.3
	Mlali Gudugudu	18.7
	<u>All</u>	<u>16.2</u>
Mgeta	Nyandira Lundi	20.3
	Pinde Pinde	21.5
	<u>All</u>	<u>20.8</u>
Selous	Sesenga Kibungo	15.8
	Duthumi-Bonye Sogea Mbele	26.5
	Kongwa Kisanga	30.2
	<u>All</u>	<u>26.1</u>
All		<u>18.6</u>

*Total net value of household subsistence as proportion of total net household income
Data are summed across all sample households

Table 28. Share of Own Consumption in Total Income*, by Income Quartile, by Study Location

Study Location	Share (%)				
	Per capita income quartile				
	I	II	III	IV	All
Kilosa	32.9	22.9	15.3	6.0	10.6
"Maize"	40.5	30.1	27.0	7.8	16.2
Mgeta	47.9	34.6	25.0	12.4	20.8
Selous	38.6	29.7	21.1	25.7	26.1
All	39.1	28.7	22.1	14.0	18.5

*Total net value of household subsistence as proportion of total net household income
Data are summed across all sample households

Agriculture

(unless otherwise stated, agriculture = crops and livestock)

Table 29. Share of Agriculture in Total Income, by Village and Study Location

Study Location	Village	Share (%)			Mean total income p.a. (TShs)
		Crops	Livestock	Agriculture total	
Kilosa	Chanzuru Chekereni	19.5	1.3	20.8	493,545
	Chanzuru Darajani	46.6	.3	46.9	197,830
	Chanzuru Kati	28.8	2.9	31.8	859,701
	All	28.1	2.1	30.2	517,025
"Maize"	Chakwale Kilimani	25.3	46.0	71.3	609,311
	Mlali Gudugudu	44.6	6.5	51.1	475,501
	All	33.8	28.7	62.5	542,406
Mgeta	Nyandira Lundi	49.3	11.6	60.9	355,915
	Pinde Pinde	37.7	8.0	45.7	285,231
	All	44.1	10.0	54.1	320,573
Selous	Sesenga Kibungo	61.0	2.4	63.4	401,224
	Duthumi-Bonye Sogea Mbele	67.7	4.3	72.0	384,102
	Kongwa Kisanga	17.3	62.6	79.9	972,172
	All	38.3	36.1	74.4	585,833
All		34.9	20.7	55.6	503,453

Note: % data refer to total incomes summed across all sample households

Table 30. Share of Agriculture* in Total Income, by Income Quartile and Study Location

Study Location	Per capita income quartile				
	I	II	III	IV	All
Kilosa	62.5	53.0	40.8	21.6	30.2
"Maize"	67.2	73.3	68.1	58.2	62.5
Mgeta	77.0	70.1	70.8	40.1	54.1
Selous	69.9	54.5	55.2	83.5	74.4
All	67.7	63.3	57.0	52.7	55.5
<i>Mean quartile income, whole sample (TShs)</i>	<i>105,395</i>	<i>216,924</i>	<i>402,037</i>	<i>1,293,915</i>	<i>503,453</i>

*Net value of crop + livestock income as proportion of net total household income
Data summed across all sample households

Table 31. Net Agricultural Output per Ha*., by Income Quartile and Study Location

Study Location	Per capita income quartile				
	I	II	III	IV	All
Kilosa	71,559	108,844	141,018	157,731	129,836
"Maize"	47,224	64,540	109,887	356,555	144,450
Mgeta	75,992	93,660	140,364	215,735	137,100
Selous	110,173	132,620	162,225	519,097	297,739
All	72,325	95,832	138,789	339,114	183,992

*(Total net crop income + total net livestock income)/Total area farmed in ha.
Data summed across all sample households

Table 32. Mean Number of On-Farm Activities, by Income Quartile and Study Location

Study Location	Per capita income quartile				All	
		I	II	III		IV
Kilosa	<i>N</i>	26	27	26	26	105
	Mean	2.38	2.44	2.58	2.77	2.54
	<i>s.d.</i>	1.17	.80	1.21	1.31	1.13
	Median	2.00	2.00	3.00	3.00	2.00
"Maize"	<i>N</i>	17	18	18	17	70
	Mean	3.06	4.06	4.56	4.12	3.96
	<i>s.d.</i>	1.78	1.98	1.10	2.09	1.82
	Median	3.00	4.00	4.50	5.00	4.00
Mgeta	<i>N</i>	17	18	18	17	70
	Mean	6.18	6.28	7.17	7.82	6.86
	<i>s.d.</i>	2.19	2.40	2.60	2.04	2.37
	Median	6.00	7.00	7.00	7.00	7.00
Selous	<i>N</i>	26	27	26	26	105
	Mean	3.15	3.70	4.12	5.31	4.07
	<i>s.d.</i>	1.26	.95	2.32	2.38	1.97
	Median	3.00	4.00	3.50	5.00	4.00
All	<i>N</i>	87	88	88	87	350
	Mean	3.80	3.86	4.36	4.55	4.15
	<i>s.d.</i>	2.31	1.94	2.52	2.56	2.36
	Median	3.00	3.50	4.00	4.00	4.00

On-farm activities = (No. of different types of crops grown) + (No. of different types of livestock kept)

Table 33. Count Distribution of Farm Activities, by Study Location

No. of farm activities	Study location								All	
	Kilosa		"Maize"		Mgeta		Selous		Count	%
	Count	%	Count	%	Count	%	Count	%		
0	2	1.9	3	4.3					5	1.4
1-2	51	48.6	15	21.4	3	4.3	17	16.2	86	24.6
3	37	35.2	9	12.9	1	1.4	31	29.5	78	22.3
4	9	8.6	14	20.0	8	11.4	23	21.9	54	15.4
5	4	3.8	13	18.6	9	12.9	15	14.3	41	11.7
6	2	1.9	11	15.7	7	10.0	10	9.5	30	8.6
7			5	7.1	18	25.7	2	1.9	25	7.1
>7					24	34.3	7	6.7	31	8.9
Total	105	100.0	70	100.0	70	100.0	105	100.0	350	100.0

Data are counts and percentages of sample households

No. of farm activities = (No. of different types of crop grown) + (No. of different types of livestock kept)

Non-Farm Activities

Table 34. Stated Main Occupations of Resident Household Members, Counts by Study Location

	Study location								All	
	Kilosa		"Maize"		Mgeta		Selous		Count	%
	Count	%	Count	%	Count	%	Count	%		
House/farm	11	4.5	19	10.6	18	10.9	30	11.4	78	9.1
Farmer	228	92.7	156	87.2	145	87.9	234	88.6	763	89.3
Govt./parastatal	5	2.0	3	1.7	2	1.2	.	.	10	1.2
Private sector	2	.8	.	.	.	.	.	.	2	.2
Self-employed	.	.	1	.6	.	.	.	.	1	.1
Total	246	100.0	179	100.0	165	100.0	264	100.0	854	100.0

Data are counts and percentages of resident household members, excluding children and schoolchildren

Table 35. Stated Main Occupations of Resident Household Members, Counts by Village

Study location: Kilosa

	Village						All	
	Chanzuru Chekereni		Chanzuru Darajani		Chanzuru Kati		Count	%
	Count	%	Count	%	Count	%		
House/farm	.	.	2	2.7	9	9.7	11	4.5
Farmer	78	98.7	71	95.9	79	84.9	228	92.7
Govt./parastatal	.	.	.	.	5	5.4	5	2.0
Private sector	1	1.3	1	1.4	.	.	2	.8
Total	79	100.0	74	100.0	93	100.0	246	100.0

Study location: "Maize"

	Village				All	
	Chakwale Kilimani		Mlali Gudugudu		Count	%
	Count	%	Count	%		
House/farm	4	4.1	15	18.3	19	10.6
Farmer	92	94.8	64	78.0	156	87.2
Govt./parastatal	1	1.0	2	2.4	3	1.7
Self-employed	.	.	1	1.2	1	.6
Total	97	100.0	82	100.0	179	100.0

Study location: Mgeta

	Village				All	
	Nyandira Lundi		Pinde Pinde		Count	%
	Count	%	Count	%		
House/farm	7	8.9	11	12.8	18	10.9
Farmer	71	89.9	74	86.0	145	87.9
Govt./parastatal	1	1.3	1	1.2	2	1.2
Total	79	100.0	86	100.0	165	100.0

Study location: Selous

	Village						All	
	Sesenga Kibungo		Duthumi-Bonye Sogea Mbele		Kongwa Kisanga		Count	%
	Count	%	Count	%	Count	%		
House/farm	6	8.5	12	13.0	12	11.9	30	11.4
Farmer	65	91.5	80	87.0	89	88.1	234	88.6
Total	71	100.0	92	100.0	101	100.0	264	100.0

Data are counts and percentages of resident household members, excluding children and schoolchildren

Table 36. Household Participation in Different Livelihood Activities, by Study Location

Total no. of activities*	Study location				All
	Kilosa	"Maize"	Mgeta	Selous	
	%	%	%	%	%
1	9.5	8.6	10.0	5.7	8.3
2	40.0	34.3	37.1	28.6	34.9
3	35.2	34.3	40.0	26.7	33.4
4	14.3	14.3	11.4	24.8	16.9
5	1.0	5.7	1.4	11.4	5.1
6				1.9	.6
7		1.4		1.0	.6
10		1.4			.3
Total	100.0	100.0	100.0	100.0	100.0

Data are percentages of sample households

* On basis of: crop growing, livestock keeping = 1 each; non-farm & other NR activities = 1 for each separate activity

Table 37. Household Participation in Non-Farm Activities, by Study Location

Total no. of activities*	Study location				All
	Kilosa	"Maize"	Mgeta	Selous	
	%	%	%	%	%
0	10.5	17.1	34.3	16.2	18.3
1	57.1	50.0	45.7	33.3	46.3
2	24.8	20.0	18.6	24.8	22.6
3	7.6	8.6	1.4	17.1	9.4
4		1.4		6.7	2.3
5		1.4		1.0	.6
6				1.0	.3
8		1.4			.3
Total	100.0	100.0	100.0	100.0	100.0

Data are percentages of sample households

*On basis of 1 for each non-farm or other NR activity

Table 38. Proportion of Households Engaging in Non-Farm Activities, by Study Location

Activity		Study location				All
		Kilosa	"Maize"	Mgeta	Selous	
Seasonal wage employment	Count	51	31	22	58	162
	%	48.6	44.3	31.4	55.2	46.3
Regular wage employment	Count	3	1	2	1	7
	%	2.9	1.4	2.9	1.0	2.0
Private salary employment	Count	1		1		2
	%	1.0		1.4		.6
Govt salary employment	Count	3	2	1		6
	%	2.9	2.9	1.4		1.7
Business	Count	40	33	25	38	136
	%	38.1	47.1	35.7	36.2	38.9
Other non-farm activity	Count	1	4	2	3	10
	%	1.0	5.7	2.9	2.9	2.9
Brickmaking	Count	4			7	11
	%	3.8			6.7	3.1
Beermaking/selling	Count	12				12
	%	11.4				3.4
Charcoal	Count	3	4			7
	%	2.9	5.7			2.0
Fish processing	Count	1			13	14
	%	1.0			12.4	4.0
Firewood	Count		6	1	5	12
	%		8.6	1.4	4.8	3.4
Handicrafts	Count	11	1	1	30	43
	%	10.5	1.4	1.4	28.6	12.3
Pottery	Count			1		1
	%			1.4		.3
None	Count	11	12	24	17	64
	%	10.5	17.1	34.3	16.2	18.3
Any non-farm activity	Count	94	58	46	88	286
	%	89.5	82.9	65.7	83.8	81.7

Data are counts and percentages of sample households per study location
 Totals can be > than sample size because some HHs have more than one non-farm activity

Table 39. Non-Farm Activities Specified and Total Counts Across Households

Self-employment (business)	Blacksmith	2
	Butcher	1
	Carpentry	1
	Fertilizer business	1
	Hotel/guest house	4
	Making local brew	42
	Mason	2
	Milling machine	1
	Restaurant	2
	Selling local brew	4
	Shopkeeping	12
	Small business	5
	Street vendor	2
	Tailoring	3
	Tender	1
	Trading in clothes	1
	Trading in coconut leaves (thatch)	1
	Trading in firewood	1
	Trading in fish	3
	Trading in food crops	39
Trading in livestock	2	
Trading in prepared food	26	
Video show	2	
Other non-farm activity	Blacksmith	1
	Renting out house	1
	Masonry	3
	Renting out ox-cart	2
	Renting out bicycles	1
	Witch doctor/traditional healer	2
Other NR activity	Mining	2
	Gravel	1
	Timbers	1

Income Portfolios and Per Capita Incomes

Table 40. Income Portfolios by Village and Study Location

Study location: Kilosa

	Village name			All
	Chanzuru	Chanzuru	Chanzuru	
<u>Income source</u>	%	%	%	%
Maize	12.6	13.3	9.5	11.0
Rice	3.8	23.4	15.6	12.8
Other crops	3.2	10.0	3.7	4.3
Livestock	1.3	.3	2.9	2.1
Wages	7.5	14.8	13.4	11.7
Self-employment	68.2	33.1	53.2	55.4
Transfers	3.5	5.2	1.6	2.7
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Study location: "Maize"

	Village name		All
	Chakwale Kilimani	Mlali Gudugudu	
<u>Income Source</u>	%	%	%
Maize	20.2	7.2	14.5
Rice	.	8.6	3.8
Other crops	5.0	28.8	15.5
Livestock	46.0	6.5	28.7
Wages	9.9	6.2	8.3
Self-employment	18.1	37.6	26.7
Transfers	.7	5.1	2.6
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Data are percentages of total income, based on incomes summed across all sample households

Study location: Mgeta

	Village name		All
	Nyandira Lundi	Pinde Pinde	
<u>Income Source</u>	%	%	%
Maize	13.7	11.6	12.7
Other crops	35.6	26.1	31.4
Livestock	11.6	8.0	10.0
Wages	18.3	13.9	16.4
Self-employment	7.7	33.7	19.3
Transfers	13.1	6.7	10.3
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Study location: Selous (all HHs)

	Village name			All
	Sesenga Kibungo	Duthumi Bonye	Kongwa Kisanga	
<u>Income Source</u>	%	%	%	%
Maize	8.0	21.8	3.2	8.3
Rice	8.6	22.7	11.6	13.3
Other crops	44.4	23.2	2.0	16.1
Livestock	2.4	4.3	61.2	35.7
Wages	3.9	7.5	4.5	5.0
Self-employment	30.3	17.6	16.0	19.5
Transfers	2.3	2.9	1.5	2.0
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Data are percentages of total income, based on incomes summed across all sample households

Study location: Selous (excluding HHs with large herds)

	Village name			All
	Sesenga Kibungo	Duthumi Bonye	Kongwa Kisanga	
<u>Income Source</u>	%	%	%	%
Maize	8.0	21.8	6.2	12.1
Rice	8.6	22.7	22.7	17.8
Other crops	44.4	23.2	4.6	24.8
Livestock	2.4	4.3	14.2	6.8
Wages	3.9	7.5	12.6	7.9
Self-employment	30.3	17.6	37.8	28.4
Transfers	2.3	2.9	1.9	2.4
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Data are percentages of total income, based on incomes summed across all sample households

Table 41. Income Portfolios by Income Quartile, Study Location and Total

Study location: Kilosa

Income Source	Per capita income quartile				All
	I	II	III	IV	
	%	%	%	%	%
Maize	32.1	19.4	14.1	7.5	11.0
Rice	21.6	26.6	12.7	9.8	12.8
Other crops	7.7	5.4	12.6	1.9	4.3
Livestock	1.0	1.6	1.3	2.4	2.1
Wages	23.7	9.5	9.3	12.1	11.7
Self-employment	5.4	33.4	42.3	65.5	55.4
Transfers	8.5	4.1	7.6	.8	2.7
Total	100.0	100.0	100.0	100.0	100.0

Study location: "Maize"

Income Source	Per capita income quartile				All
	I	II	III	IV	
	%	%	%	%	%
Maize	33.6	37.4	22.6	6.2	14.5
Rice	8.3	4.0	5.0	2.9	3.8
Other crops	23.3	21.4	26.3	9.8	15.5
Livestock	1.9	10.5	14.1	39.4	28.7
Wages	15.4	6.1	9.0	7.7	8.3
Self-employment	10.2	15.9	20.8	32.0	26.7
Transfers	7.2	4.8	2.2	2.0	2.6
Total	100.0	100.0	100.0	100.0	100.0

Study location: Mgeta

Income Source	Per capita income quartile				All
	I	II	III	IV	
	%	%	%	%	%
Maize	27.7	22.4	13.5	8.2	12.7
Other crops	38.1	42.0	39.1	24.6	31.4
Livestock	11.2	5.6	18.2	7.2	10.0
Wages	11.7	5.5	2.6	25.6	16.4
Self-employment	5.7	16.5	18.1	22.1	19.3
Transfers	5.5	7.9	8.4	12.2	10.3
Total	100.0	100.0	100.0	100.0	100.0

Data are percentages of total income, based on incomes summed across all sample households

Study location: Selous (all HHs)

	Per capita income quartile				All
	I	II	III	IV	
<u>Income Source</u>	%	%	%	%	%
Maize	16.6	16.0	9.0	6.0	8.3
Rice	25.6	17.9	13.6	11.3	13.3
Other crops	17.5	17.0	27.4	12.6	16.1
Livestock	10.0	3.6	1.4	53.7	35.7
Wages	10.7	11.9	14.1	.7	5.0
Self-employment	16.3	30.4	30.7	14.7	19.5
Transfers	3.1	3.2	3.8	1.1	2.0
<u>All</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Study location: Selous (excluding HHs with large herds)

	Per capita income quartile				All
	I	II	III	IV	
<u>Income Source</u>	%	%	%	%	%
Maize	16.6	16.0	9.0	11.5	12.1
Rice	25.6	17.9	13.6	18.8	17.8
Other crops	17.5	17.0	27.4	27.7	24.8
Livestock	10.0	3.6	1.4	10.8	6.8
Wages	10.7	11.9	14.1	1.5	7.9
Self-employment	16.3	30.4	30.7	28.7	28.4
Transfers	3.1	3.2	3.8	1.0	2.4
<u>Total</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>

Data are percentages of total income, based on incomes summed across all sample households

Whole Sample (all HHs)

<u>Income Source</u>	Per capita income quartile				All
	I	II	III	IV	
	%	%	%	%	%
Maize	27.1	21.5	15.1	6.6	11.0
Rice	12.3	14.2	10.3	8.1	9.4
Other crops	23.3	19.9	23.8	9.6	14.3
Livestock	5.0	7.7	6.5	28.6	20.6
Wages	14.6	8.9	9.3	8.8	9.2
Self-employment	11.5	23.7	29.3	36.0	32.0
Transfers	6.3	4.2	5.7	2.2	3.4
Total	100.0	100.0	100.0	100.0	100.0

Whole Sample (excluding HHs with large herds)

<u>Income Source</u>	Per capita income quartile				All
	I	II	III	IV	
	%	%	%	%	%
Maize	27.1	21.5	15.1	7.9	12.4
Rice	12.3	14.2	10.3	8.8	10.0
Other crops	23.3	19.9	23.8	11.8	16.3
Livestock	5.0	7.7	6.5	14.1	11.0
Wages	14.6	8.9	9.3	11.0	10.5
Self-employment	11.5	23.7	29.3	44.0	36.1
Transfers	6.3	4.2	5.7	2.5	3.7
Total	100.0	100.0	100.0	100.0	100.0

Data are percentages of total income, based on incomes summed across all sample households

Table 42. Household Mean Income and Per Capita Income, by Study Location

		Study location				All
		Kilosa	"Maize"	Mgeta	Selous	
	<i>N</i>	105	70	70	105	350
<u>Total HH income</u>	Mean	517,025	542,406	320,576	593,594	505,782
	<i>s.d</i>	879,088	727,315	327,690	961,077	800,537
	Median	248,200	253,930	187,390	304,000	256,600
<u>Per capita income</u>	Mean	184,170	156,414	117,589	175,019	162,557
	<i>s.d</i>	267,155	204,101	139,473	193,778	212,462
	Median	99,348	86,469	67,528	109,731	91,766

Table 43. Household Mean Per Capita Income, by Income Quartile, by District

Study Location		Per capita income quartiles				All
		I	II	III	IV	
Kilosa	<i>N</i>	26	27	26	26	105
	Mean	29,818	67,986	139,731	503,614	184,170
	<i>s.d</i>	7,783	19,454	34,203	384,377	267,155
	Median	31,348	62,947	131,753	383,097	99,348
"Maize"	<i>N</i>	17	18	18	17	70
	Mean	29,533	67,588	115,836	420,310	156,414
	<i>s.d</i>	9,882	11,195	23,048	277,531	204,101
	Median	32,250	66,669	114,399	338,556	86,469
Mgeta	<i>N</i>	17	18	18	17	70
	Mean	23,874	46,889	104,258	300,279	117,589
	<i>s.d</i>	7,392	8,380	31,656	179,107	139,473
	Median	25,188	47,250	100,293	266,385	67,528
Selous	<i>N</i>	26	27	26	26	105
	Mean	46,054	83,188	147,288	427,079	175,019
	<i>s.d</i>	13,146	13,991	28,862	248,433	193,778
	Median	47,999	82,368	136,260	359,999	109,731
All	<i>N</i>	87	88	88	87	350
	Mean	31,378	67,558	128,509	424,269	162,557
	<i>s.d</i>	9,604	12,539	23,717	291,971	212,462
	Median	32,472	67,748	124,704	330,533	91,766

Table 44. Household Mean Income and Per Capita Income, by Study Location (US\$)

		Study location				All
		Kilosa	"Maize"	Mgeta	Selous	
	<i>N</i>	105	70	70	105	350
<u>Total HH Income</u>	Mean	580.81	609.32	360.12	666.83	568.18
	<i>s.d</i>	987.54	817.04	368.12	1,079.64	899.30
	Median	278.8	285.3	210.5	341.5	288.3
<u>Per capita income</u>	Mean	206.89	175.71	132.10	196.61	182.61
	<i>s.d</i>	300.11	229.28	156.68	217.68	238.67
	Median	111.6	97.1	75.9	123.3	103.1

Conversion rate at time of survey: 890.18 TShs = 1 US\$

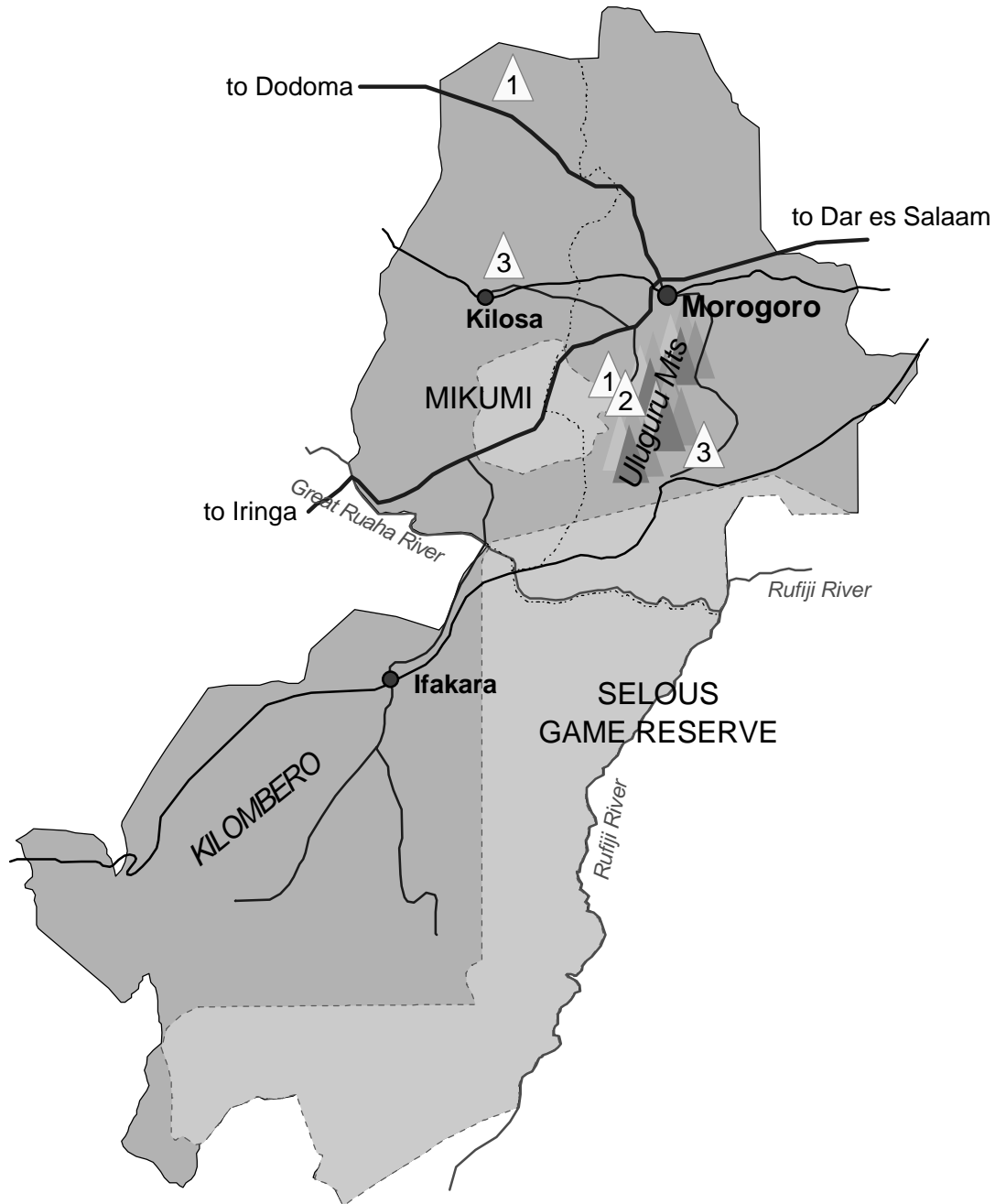
Table 45. Household Mean Per Capita Income, by Income Quartile, by District (US\$)

Study Location		Per capita income quartile				All
		I	II	III	IV	
	<i>N</i>	26	27	26	26	105
Kilosa	Mean	33.50	76.37	156.97	565.74	206.89
	<i>s.d</i>	8.74	21.85	38.42	431.80	300.11
	Median	35.2	70.7	148.0	430.4	111.6
"Maize"	Mean	33.18	75.93	130.13	472.16	175.71
	<i>s.d</i>	11.10	12.58	25.89	311.77	229.28
	Median	36.2	74.9	128.5	380.3	97.1
Mgeta	Mean	26.82	52.67	117.12	337.32	132.10
	<i>s.d</i>	8.30	9.41	35.56	201.20	156.68
	Median	28.3	53.1	112.7	299.2	75.9
Selous	Mean	51.74	93.45	165.46	479.77	196.61
	<i>s.d</i>	14.77	15.72	32.42	279.08	217.68
	Median	53.9	92.5	153.1	404.4	123.3
All	Mean	35.25	75.89	144.36	476.61	182.61
	<i>s.d</i>	10.79	14.09	26.64	327.99	238.67
	Median	36.5	76.1	140.1	371.3	103.1

Conversion rate at time of survey: 890.18 TShs = 1 US\$

Annex A: Maps

Map of Morogoro Region (showing location of study villages)



△₁ = location of study villages (triangle shows number of villages)