# PRA SURVEY SITES

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J.1.1 ISLAND FARM SURVEY SITE

### J.1.1 ISLAND FARM SURVEY SITE

Table J.1.1-1 Government Agencies Offering Services to the Community

Agencies	Services Provided
Ministry of Agriculture and Livestock Development	Offers advisory and extension services to farmers
Provincial Administration	In charge of security A link between community and other government departments.
Forestry Department	Availing of forest products Provision of temporary cultivation rights in forest areas
Ministry of Culture and Social Services	Facilitating group formation and registration
Ministry of Water Development	Provision of technical services to water users
Ministry of Public Works	Occasional maintenance of rural roads
Kenya Wildlife Services	Protecting game animals from the community and the community from game animals
Ministry of Education	Administration of schools

Table J.1.1-2 Services Provided by External and Local Organizations

Organization	Services Provided			
SISDO	Provision of agricultural inputs on credit (seeds, pesticides etc.)			
Kenya Co-operative Creameries (KCC)	Provision of marketing services for dairy milk.			
Kenya Institute of Organic Farming	Educating farmers on organic farming			
Island Farmers Co-operative Society	Selling farmers milk to KCC			
Island Farmers Water Self-help Group	Manages water for horticultural farming			

Table J.1.1-3 Annual Household Income and Expenditure in an Average Household

Income Item	Sh	Expenditure Item	Sh
Cabbage	8,000	Buy farm input	5,000
Potatoes	7,000	Paying hired labor	2,000
Carrots	9,000	School fees (books)	15,000
Snow peas	18,000	Hospital fees	2,000
Milk	12,000	Transport	1,000
		House hold items	5,000
		Buying clothes	2,000
		Entertainment (radio N/paper)	1,000
	1	Harambee	1,000
		Extended family	. 2,000
		Hiring forest farms	
		Hiring grazing land	4,000
		Buying wood collecting licenses	
	1	Homes construction and repair	1,000
		•	2,000
Totals	54,000		43,000

Table J.1.1-4 Social Infrastructure Services

Social Infrastructure	Service Level	Quality of Service	Accessibility	Management body
Domestic & irrigation water supply	Water furrow	Untreated water used by both man and livestock. Water for irrigation is not sufficient	All project members	Management committee
Road Network	Occasional maintenance	Poor	Poor accessibility during rainy seasons	MOPWH Community
Electrification	No electricity	None	Nearest supply 2 Km away	Local community already organized and raised Shs. 300,000 towards getting electric power
Health	Island Farm dispensary	Not enough drugs Patient receives prescriptions only	All community members	Island Farm dispensary committee MoH
Education	Primary school Polytechnic Nursery school	Adequate	Accessible to all community members	More PTA Teachers

Table J.1.1-5 Daily Activities Profile for Different Members of the Household

Father	Mother	Children
Wake up 4.00 am	Wake up 4.00 am	Wake up 5.30 am
Milk cows	Warming milking water	Preparation to go to school
Connecting irrigation water	Cooking breakfast	Farm work for boys and girls
Weeding in the cabbage plot	Preparing lunch	Feeding rabbits
Fetching animal feeds	Cleaning utensils	Carrying cabbage from farm to
Milking in the evening	Cleaning the house	the buying point
Sleeps at 9.00 pm	Tidying bedrooms	Connecting water for irrigation
Siceps at 5.00 pm	Washing clothes	Feeding animals
	Feeding calves and goats, chicken	Girls assisting mothers to cook
	Weeding in the farm	Taking milk to the dairy
	Cooking dinner	
	Sleeps at 11.00 pm	

Table J.1.1-6 Household Resources and Ownership Pattern

Property	Ownership	Right to Use	Right to Dispose
Cow	Man + Woman	Man woman children	Man
Goat/Sheep	Man + Woman	Man woman children	Man
Chicken	Boy + Woman	Man woman children	Boy + Woman
Dog	Boy	Man woman children	Man
Hen	Boy	Boy	Boys
Land	Woman + Man	Man woman	Consensus
Cabbage/Carrot	Woman + Man		Woman + Man
Utensils	Woman	1	Woman
Wheel barrow	Woman		Man
Money	Man + Woman		Woman + Man

Table J.1.1-7 Seasonal Calendar

Parameters	J	F	M	A	M_	J	J	Α	S	0	N	D
Rainfall	Long Rains (Wathima) Sho					Short I	Rains (N					
Land	Rai			Rainfe	d Farms	arms Rainfed Farms			s			
Preparation	Irrigat	ed			Irrigate	ed Farms	S					
Irrigated	Farms											
					d Planti	- :				Rainfed planting of		
				potato	es, bean	, peas			Maize, Beans, Pe			, Peas
Planting				<u> </u>						and Po		3.6
·		Irrigat	ed Plan	ting of C	abbages	s, Carrot	s, Maiz	e, Snow	peas, Fr	ench be	ans and	Maize
Weeding	<u> </u>			<u> </u>	<u> </u>		L			· · · · ·	<u> </u>	<del> </del>
Harvesting	Potato	oes, Bea	ns and I	eas						Maize		
										~ 0	es and	
	·		·				<u> </u>			Peas		<b>⊥</b>
Human	Mala	ria, Cold	l, Pneun	nonia and	d Rheun				ia, Pneumonia, natism, Common Cold			
Diseases							Cold					
Crop		Aphids:	and	Bacter	ria bligh	t-spot	Aphid	ls	Bacter	ial-wilt	ial-wilt, Brightspot	
Diseases and	Stock	borer										
Pest	<u> </u>	<del></del>				T	<u></u>		<u> </u>	ECE	T A	
Livestock	Anap	lasmosis	s, ECF,	Ndigana		Foot-Rot, Pneumonia Ndigana			a, ECF   Anaspsimosi s and			
Diseases						Digana ECF.			Bloodroot			
	1 20 00				Triank	n=+ W/il	dnice I	Januat N	lonkey	Buffa		dioot
Wildlife	Buffa	lloes				nant, Wildpigs, Vervet-Monkey Buffaloes			Dullanos			
Crop	1				and D	ultalocs						
Menace Wildlife	+		<del></del>			Hyena Leopards and			Hyena Leopard and			
livestock					Lions			Lions				
Menace						Dioiss		:				
Labour	<del></del>			<u> </u>	$\top$	<del> </del>	High	<del></del>	1	1	High	 I
Demand					1	'	Dema				Dem	
Labour	High			+	High				-		•	
Availability	****g"	•			*****							
Food	High			Low		High			Low		<del></del>	
Availability	111811	1		"								
Trundonity	_i											

Table J.1.1-8 Employment Opportunities

	Men/Youth	Women
Agriculture Related	Farming of horticulture Farming in the forest Middlemen in horticulture	Farming of horticulture Farming in the forest
Employment outside the community	Formal employment teachers, drivers and touts Traders in local and outside markets Selling forest products (timber) Selling farm inputs (shopkeepers)	Formal employment teachers etc. Traders I local markets Selling farm inputs
Non-agricultural related within the community	Irrigation systems repairs Small restaurants Tailors hoteliers, shopkeepers etc.	Tailors hoteliers shopkeepers

Table J.1.1-9 Major Household Concerns

Community Concerns	Remark
Wildlife invasion	due to destruction of farms and KWS insensitivity
Inadequate irrigation water	the water levels
Bad roads	Impassable roads make produce rooting the farms
Lack of facilities (health)	The location has a dispensary
Poor markets for produce	Agriculture is the mainstay of household life
Uncontrolled dishonest traders and bookers	They usually determine process produce
Unavailability of agriculture and veterinary services	The government is not active
Lack of electricity	This hinders any tangible development
Expensive seeds	The middlemen and shop owners exploit the farmers
Soil erosion	The farms down streams are swept away by floods
Shortage of land	

Table J.1.1-10 Community Owned Resources

Communal Resources	Ownership	Right to use	Right to disposal	Management body	Functions
Thego river and Kimahuri stream	Ministry of Water Development	Ministry of Water Development	Ministry of water development	Ministry of Water Development	Issue water permits Inspect water use
Kabaru Forest	GoK Ministry of Natural Resources	GoK/MNR/K WS	GoK, MNR	MENR/KWS	Issue wood collection permits Protect forests Permits temporary cultivation
Island from dispensary	Ministry of Health/Comm unity	Community	GoK, Ministry of Health	GoK, MOH, Community	Giving prescriptions to patients Supply medicine
Roads	MOW, County Council	Community	GoK, MOW County Council	GoK, MOW/Comm unity	Maintenance of roads
Primary schools	MOE, PTA	Community	GoK, MOE	MOE, sponsor PTA	Provide teaching staff
Cattle dip	GoK, MOALD	MOALD, Community	MOALD, Community	MOALD, dip committee	Replenish tick control chemicals

Table J.1.1-11 Social Stratification and Local Poverty

Wealthy Households (5%)	Household of Modest Wealth (25%)	Poor Households (70%)
Attributes	Attributes	Attributes
7-10 acres land	1-7 acres of land	Unhealthy
Permanent house	Semi permanent house	Live in rental housing
20 grade cattle	2-3 grade cows	Rents cultivation land
Educated children overseas	Educated children	Children not educated
Owns business	Rents people farm for cultivation	Laborer providers
Owns commercial plots	Own small business	Large families
Owns residential plots	Has sufficient food	Not employed
Owns a car (private)		No livestock
Plenty of food	1	
Planned family		
Reason for Position in Stratum	Reason for Position in Stratum	Reason for Position in Stratum
Working hard	Better social relationship	Alcoholism
Invests properly	Well educated	Unplanned families
Not a drunkard	Modest planing capacity	
High management capacity	1	

Table J.1.1-12 Conflict and Conflict Management

Level	Type of conflict	Management Mechanism
Household	Disagreement on use of family income Misunderstandings between husband and wife Family water use conflict among household members with their own families Conflict on family resources e.g pasture in a small land	Husband and wife discuss and try to agree Other family members are invited to solve the issue Village elders are asked to solve the issue
Community	Boundary disputes Theft of farm produce seeding etc Fighting in public Livestock grazing trespasses Unacceptable behaviors	Taken to village elders Taken to the Assistant Chief Taken to survey department Taken to court Police case Village elders

Table J.1.1-13 Ranking of Problems by Different Members of the Household

Men	Women	Youth
<ol> <li>Inadequate water supply</li> <li>Lack of general knowledge</li> <li>Poor marketing</li> <li>Poor roads</li> <li>Lack of hospitals</li> </ol>	<ol> <li>Lack of maternity</li> <li>Poor roads</li> <li>Inadequate water supply</li> <li>Poor produce proses</li> <li>Heavy household management roles</li> </ol>	<ol> <li>Inadequate water for irrigation</li> <li>Impassable roads</li> <li>Poor market</li> <li>Poor medical services</li> <li>Unemployment</li> </ol>

J.1.2 KIBIRIGWI SURVEY SITE

## J.1.2 KIBIRIGWI SURVEY SITE

Table J.1.2-1 Government Agencies Providing Services to the Community

Agency	Services Provided	
Ministry of Health	Out patient treatment	
•	Family planning	
	Referral letters to other bigger hospitals	
Ministry of Agriculture and	Agriculture extension services	
Livestock Development	Animal care treatment	
	Checking meat prior to sale in butcheries	
Ministry of Education	Provision of teaching staff in primary schools	

Table J.1.2-2 Other Organizations

	Institution	Activities
1.	SISDO: Smallholder Irrigation Scheme Development Organisation.	Formed groups of women and gave them inputs loans SISDO has assisted farmers to get market for their farm produce. They introduced farmers to IBG (International Business Group).
2.	Kirinyaga District Co-operative Union (KDCU)	Loaned farmers Ksh. 600,000 to buy seeds.
3.	Kibirigwi Farms Co-operative Society:	Guaranteed farmers for the KDCU loan.
4.	Action Aid:	Constructing water tanks for the upper side of the area
5.	Rural Development Fund:	Gave donation of for the polytechnic.
6.	Green Belt Movement:	Gave advice on planting provided plastic paper for tree seedlings.  Provided training on how to grow trees
7	National Fund for Disabled:	Donation given to disabled center

Table J.1.2-3 Daily Activities Profile for Different Members of the Household

Time	Men and Male Youth	Women and Female Youth
5.00 a.m	Wake up and pray	
6.00 a.m	Inspect the Shamba	Light fire
	Milking	Boil water for milking Cook porridge or tea
	Go to fetch cattle food	prepare children for school
7.00 a.m	Youth takes milk to the dairy	Take the milk to the dairy The girls assist the mother
8.00 a.m	Breakfast	Sweep the house Wash clothes
	Go to Shamba	Wash utensil Look for cows food
1.00 p.m	Come back to lunch,	Go back home to eat lunch feed the cows
	Feed the cattle with food and water	Give drinking water to the cows  Look for food for chicken, pigs, goats etc
2.00 p.m	Go back to the shamba or go to the shopping center for refreshment	and fetch water for both human and animals
	377.7.6	
	Visit friends participate in meetings if any	Cultivate land Look for cows food
	Go to the market	Look for cows food
4.00 p.m	Go back home from either shamba, market or refreshment	Fetch firewood
	Make sure the harvested coffee is delivered to the factory	Fetch water
	Milking	
5.00 p.m	Deliver milk to the customers (Those with no cows or those who are not milking)	Cook food for the family Milk the cows
5.00	Youth go out for their welfare activities or wash clothes	Wash utensils assisted by the girls after
5.30 p.m	Transplant seedlings from seedbeds and plant them in the shamba	school
7.00 p.m	Set the sprinklers to irrigate Eat supper and retire to bed.	
8.00 pm	Family gathers together in the sitting room to watch TV, Mzee reads the newspaper, shower, family discussion and planning for tomorrow activities.	Go to bed

Table J.1.2-4 Ownership and Management of Household Resources as Perceived by Women

Men	Women	
Cows	Beans	
Goat	Maize	
Coffee	Potatoes	
Pigs	Vegetables	
House	Fruits	
Furniture		
Bedding	The man can ask for income from	
Radio	the listed resources at any time.	
Television	In the case of a divorce, a woman	
	can only walk away with her	
	clothes	

Table J.1.2-5 Ownership and Management of Household Resources as Perceived by Men

Men	Women
Family	Traditional crops (maize, beans etc)
house	Nuts
Cattle	Fruits trees
Goats	Car
Chicken	Wheelbarrows
Dogs	Bicycles
Cat	Wagons / carts
Furniture	Sewing machines
TV	Irrigation equipment
Coffee	Bananas
plantation	Farm tools e.g. Jembes, pangas
Bananas	
Trees	
Vegetables	

Table J.1.2-6 Leadership Distribution in the Community

	Elders	Chief
Roles	Link the community with the government	Obtain security in the location
	· · · · · · · · · · · · · · · · · · ·	Manage development activities
Function	Invite meetings	Link the community with the government
	Settle minor disputes of boundaries,	Call for barazas
*.	Insults, etc	Monitoring community development
Authority	Report criminals	He has the authority to arrest within the location
· · · .	Take people to sub-chief (arresting) Settle disputes	Invitation of community meetings
		Refer cases to the Law Courts
Rules of Appoint ment	They have to be elected by the community or the sub-chief	He has to be Kenyan 35 years & above Have attained required level of academic Married Loyal to his country
Social Recogniti on	They are recognized through decision making in the community Granted all respect by the community	Respected Obeyed by the community He is informed He commands through chiefs act
Men	A group of elders	

Table J.1.2-7 Social Stratification and Local Poverty

Wealthy Households (10%)	Household of Modest Wealth (60%)	Poor Households (30%)
Attributes	Attributes	Attributes
Large businesses such as	Own grade cattle (zero	No livestock
wholesale, butchery or a shop	grazing)	
Own 30 acre of land and	Employs at least 3 people in	Mostly landless
employ workers	the farm	
Have a coffee factory	Owns shop or a small butchery	own a few chicken
Own rental houses	Has pick up vehicle	Wear second hand clothes
Can afford children's school	Work as casual laborers	Brew and drink local beer
fees		
Own permanent houses and car	Has permanent or semi-	Likely to get sick
	permanent house	
Has good health and proper	Live in temporary housing	Insufficient food
clothing		
Better health and clothing		Relatively large number of children
Children attend private		
boarding schools		
Children attend universities		
abroad		
They own a telephone		
Solar system		
Owns a tractors		
Possess grade cattle and	·	
milking goats		
Keeps poultry		
Has piped water for domestic		
and irrigation	<u> </u>	

Table J.1.2-8 Problem Priorities by Different Members of the Household

	Men		Women	Youth		
1.	Poor payment of farm produce	1.	Single mother parents are on the increase	1.	No land for youth	
2.	Poor marketing strategies and sales	2.	Insufficient income	2.	Impassable roads	
3.	No public land for expansion of development facilities	3.	Unemployment among the youth	3.	No water in high areas	
4.	Pipes are not available	4.	Poor state of roads	4.	Expensive farming inputs	
5.	Low income	5.	Expensive medical costs	5.	No electricity	

J.1.3 RUPINGAZI SURVEY SITE

### J.1.3 RUPINGAZI SURVEY SITE

Table J.1.3-1 Institutions Providing Services to the Local Community

Institution	Services Rendered
Catholic church	Evangelism Women groups promotion
CPK church	Evangelism Women groups promotion
Full Gospel Church	Evangelism
Kenya Tea Development Authority	Buying farmers tea  Maintaining tea feeder roads
Co-operative Coffee factories (4 no)	Coffee processing and buying

Table J.1.3-2 Estimate of Annual Family Income and Expenditure

Income Item	Sh	Expenditure Item	Sh
Coffee	8,000	School fees	10,000
Vegetables	3,000	Transport	2,000
Beans	2,000	Household utilities	2,000
Milk	3,000	Health bills	3,000
Maize	2,000	Clothes	1,000
Potatoes	1,000	Drugs	2,000
Arrow roots	1,000	Farm inputs	5,000
Beans	1,000	Hired Labour	2,000
Tea	10,000		
Mangoes	1,000		
Avocadoes	1,000		
Totals	33,000		27,000

Table J.1.3-3 Daily Activities Profile for Men, Women and Youth

Men	Women	Youth
6.30 am Wake up, wash face 7.00 am Go to the cow shed to observe the animals 7.30 am Taking breakfast 8.00 am Working in the coffee plot 12.00 pm lunch time 2.00 pm Working in the farm 4.00 pm Resting/washing 9.00 pm Go to sleep	5.30 am Wake up, light fire 5.45 am Milking, cooking tea 6.15 am Taking milk to the dairy 8.00 am Washing utensils 9.00 am Preparing Githeri, mixture of maize and beans food 10.00 am Working in the farm 12.00 pm Serving lunch, washing utensils and clothes, feeding the cows, watering the cows 3.00 pm Milking 3.30 pm Taking milk to the dairy, washing dairy gallons, cooking supper 9.00 pm Serving food 10.00 pm Washing utensils 10.30 pm Sleeping	7.00 am Wake up 8.00 am Help in washing utensils 9.00 am Picking tea or feeding animals or farm work 12.00 pm Lunch - taking tea to buying centres 3.00 pm Cleaning the house/clothes 4.00 pm Watering seedlings 7.00 pm Washing and relaxing 9.00 pm Sleeping

Table J.1.3-4 Property Use and Disposal Rights

Property Item	Right of Use	Right of Disposal	
Coffee	men, women, children	man	
Farm	men, women, children	family	
Vehicle	men, women, children	family	
Cattle	men, women, children	family	
Poultry	women, boys	boys and women	
Goat	family	man	
Television	family	man	
Radio	family	man	
Tea	family	man <sub>.</sub>	
Macadamia	family	man	
Solar energy	family	man	
Plots	family	man	
Utensils	family	women	
Dog	family	boys	
Bananas	family	women	

Table J.1.3-5 Main Division of Labor within the Household

Men	Women	Youth
Planting coffee	Feeding poultry	Planting horticulture crops
Planting macadamia	Planting bananas	Helping in maintaining coffee and
Planting grass	Planting potatoes for family food	macadamia trees
Building a home	Maintaining kitchen garden	
<u> </u>	Planting arrow roots	

Table J.1.3-6 Seasonal Labor Calendar

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Dry s	Dry season Long Rains						Dry	ins			
Coffee								Harvest	Planti	ng	
sprayin	ıg	Plantir	ıg			Coffee	:	Land	Harve	_	
Land	-	thinnir	ıg -					preparation		e pickin	g
prepara	ation	Weedi	ng			Planti	ng		Tea p	icking	
Coffee		hortice	ılture								
prunin	g	Coffee	sprayir	ng							
Tea pic	cking	<u> </u>						<u> </u>			

Table J.1.3-7 Profile of Cash Needs and Cash Availability

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Need for	School fees			School fees	Hous	sehold acti	vities		School fees	Christm prepara		
cash Cash availa		Bonus Money			Coffee income Vegetables Macadamia money		les			Tea bor	ıus	
bility		<u> </u>		money		<u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u>

Table J.1.3-8 Labor Availability and Labor Requirements Calendar

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Labor	Mode	Mode	Mode	Mode	Mode	Mode	Mode	High		Mode	Mode	High
availability	-rate	-rate	-rate	-rate	-rate	-rate	-rate	availabi	ility	-rate	-rate	
Labor			Planti	Weedi	Weedi	Weedi	Gener	Gener	Harve	Tea, Co	ffee pick	ing,
requirement	prepara	tion	ng	ng	ng	ng	al	al	-sting	harvesti	ng, plant	ing

Table J.1.3-9 Employment Opportunities

Type of Employment	Men	Women	Youth
Farm related	Tea, Coffee picking	Tea, coffee picking	Tea, coffee picking fetch timber in the forest
Outside the community	Business in Embu	Business in Embu	Formal employment
Non-farm related within the community	Small business in the market	Small business in the market	Small business in the market Selling second -hand clothes

Table J.1.3-10 Community Owned Resources

Type of Resource	Ownership	Right of use	Right of disposal
Schools	Community	Community	School/committee
Rivers	Community	Community	Government
Hospitals	Govt/Community	Community	Government
Public land	Community	Community	County council
Forests	Community	Community	Government

Table J.1.3-11 Social Stratification on the Basis of Wealth

Wealthy Households (3%)	Middle Income Households (50%)	Poor Households (47%)
Attributes	Attributes	Attributes
Has coffee factory Coffee plantation Stone houses Plots for rental Shambas Vehicles Grade cattle Own irrigation Stone fence 4 children	Has 1.5 acres 3-4 children Timber/mud/iron sheet houses Is educated Has a cow, goat, poultry Has a bicycle Has coffee, tea, & macadamia Has horticultural farming Has solar energy Has TV	Is landless or owns only small plot of land Has 9-10 children Is a laborer Lives in rented house No education for children Weak and unhealthy Tattered clothes Uses wages to buy flour "Karamandi" small packet of unga
Poultry farming Piggery farming Goat farming Electricity TV Telephone Health Good clothes Good education	Has radio Plot	

Table J.1.3-12 Conflicts and Conflict Management

Type of Conflict	Resolving Mechanism
Within the household e.g spouse to spouse	Parents, community and church elders
Boundaries	Village elders, assistant chief, chief, court
Stealing	Police case upto court of law
Fighting	Police case upto court of law

Table J.1.3-13 Prioritization of Problems by Different Members of the Community

Men's Priority Areas	Women's Priority Areas	Youth Priority Areas
<ol> <li>Inadequate irrigation water</li> <li>Expensive farm inputs</li> <li>Low payment of farm produce</li> <li>Impassable roads during the rains</li> <li>Expensive drugs</li> </ol>	<ol> <li>Lack of freedom at home</li> <li>Poor community leadership</li> <li>Expensive farm inputs</li> <li>Lack of jobs for the youth</li> <li>Low incomes</li> </ol>	<ol> <li>Low income</li> <li>Inadequate water for irrigation</li> <li>Poor market for horticultural goods</li> <li>Lack of skills and technology</li> <li>Poor roads</li> </ol>

J.1.4 MASHAMBA SURVEY SITE

### J.1.4 MASHAMBA SURVEY SITE

Table J.1.4-1 Government Agencies Providing Services to the Community

Agency	Services Provided		
Ministry of Agriculture & Livestock Development	Agriculture extension services Animal care treatment Checking meat prior to sale in butcheries		
Ministry of Education	Provision of teaching staff in primary schools Administration of schools		
Ministry of Health	Out patient treatment Family planning Referral letters to other bigger hospitals		

Table J.1.4-2 Other Organizations

Organization	Services Provided
KWS	Fencing between people and wild animals Assisting the community to build primary schools
PLAN International	Assistance to orphan children Assisting community to murram roads, extend primary schools and construct dispensary Construction of 8 boreholes, 3 dams and training of water attendants Provision of stoves, farm inputs and training of farmers Training of traditional birth attendants Provision of credit for business

Table J.1.4-3 Household Income and Expenditure

Source of Income	Expenditure Item
I. Agriculture  Green grams Coriander seeds Cotton Yellow grams Okra Black grams Chillies Sunflower	Paying school fees and school uniform Transport Buying food that is not produced within the household Buying clothes, shoes and other regular requirements for the family Purchasing house construction materials Investing in the farm by constructing terraces, buying farm tools and farm inputs Buying consumer durables such as bicycles, radio, house utensils and furniture Buying oxen Meeting health care expenses for the family
II. Non-agriculture Charcoal burning Bee keeping Outside employment	Paying casual labor Starting business Pay dowry

Table J.1.4-4 Conditions and Accessibility of Social Infrastructure

Type of Infrastru- cture	Service Level	Quality of Service	Accessibility	Managing Body
Domestic water supply	8 boreholes equipped with hand pumps	Fairly adequate	The furthest person walks 3 kms and the nearest walks 100 metres	Management committee of 13 people.
Livestock water supply	Earth dam	Fair	200 metres the furthest person to walk there ½ km nearest	Management committee of 13 members
Roads	Murramed road	Poorly maintained, high incidence of potholes	Accessible to all members of the community	Ministry, of Public Works
Electricity	None	None	None	Not Applicable
Health	Dispensary	Treats minor diseases e.g. malaria coughing etc.but medicines not readily available	The distance is 100m to 9km. Cost sharing arrangement which includes sh.10 registration.	Ministry of Health & Management committee of 13 members
Education	10 primary schools with attached nurseries	Fair	The distance is 200m to 3km Cost sharing management	School committee of 13 members and headmaster

Table J.1.4-5 Daily Activities Profile for Men and Male Youth

Time	Men	Male Youth
5.00am	Prayers	
6.00 am	Wake up Check animals Take breakfast	Wake up
7.00 am	Go to the farm	Take breakfast
8.00 am		Go to the farm
9.00 am		Look after animals
12.00 pm	Come back home for lunch	Take animals to drink water
2,00 pm	Make beehives	Ploughing
	Cut trees for construction	
	Go back to farm to spray cotton	
7.00 pm 8.00 pm 9.00 pm	Bathing Take supper	Back home

Table J.1.4-6 Daily Activities Profile for Women and Female Youth

Time	Women	Female Youth
5.00am	wake up wash face milk cows	Wake up Wash face
6.00 am	make fire prepare breakfast wake up children wash children	Sweep kitchen Prepare for school
7.00 am	cloth children take breakfast send out children to school prepare porridge for small children	Take breakfast Leave for school
8.00 am	wake husband up give husband water serve husband with breakfast	
9.00 am	Prepare food for herdsmen	
11.00 am	Go to the farm Go home to prepare lunch	
12.00 pm 1.00 pm	serve and eat lunch	·
7.00 pm	Milking cows	Assist in cooking
8.00 pm	Eat supper	Eat dinner
9.00 pm 10.00 pm	Prepare tea Wash and go to bed	Go to bed

Table J.1.4-7 Household Resources and Management Patterns

Resource Item	Ownership	Right of use	Right of Disposal
1. Houses	men	both men/women	men
2. Chicken	women	men	men/women
3. Goats	men	men	men
4. Maize	men	women/men	women/men
5. Beans	women	men	women
6. Dog	men	children	children
7. Water	men	women	women
8. Trees	men	men	women/men
9. Land	men	women	women/men
10. Bicycles	men	men	men
11. Radio	men	men/women	men
12. Ox plough	men	women/men	men
13. Car	men	men	men
14. Cows	men	women/men	men
15. Hoes	men	women	men
16. Books	children	children	women/men
17. Panga	men	women/men	men
18. Bore & arrow	men	men	men
19. Water tanks	men	women	men
20. Ox-cart	men	men/women	men
21. Basket	women	women	women
22. Tables	men	men	men
23. Chairs	men	men	men
24. Matresses	men	women/men	men
25. Utensils	men	women/men	men
26. Firewood	men	women/men	men
27. Water jerricans	women	women	women

Table J.1.4-8 Seasonal Cropping Calendar

								011	CEDT	1.00	AON	DEC
	JAN	FEB	MARCH	APRIL	MAY	JONE	JOEx	AUG	TIGE			
Concome	Dry Season	2950m	1	Rainy Season		Dry Season	eason			Rainy Season	eason	Dry
Activities	Harvestin	-Making	Planting		Weeding		Harvesting		Prepare land	6.1	Planting	Weeding
A THE PARTY	ä	terraces	-maize						-construction of nouses	or nouses		
	-maize		-beans									
	-beans	-Prepare	-cowpeas	•	·							
	-millet	land										
	-cowpeas									11,000		Birde
Menstask	-Dig	Prepare	Planting		Weeding		Harvesting cotton	otton		Flanung		scaring
7	terraces .Build	land	1 1									
	houses											
Women	Preparing land	pu	Planting		Weeding		Harvesting			Planting		Birds scaring
task							Weaving baskets	kets				
												Birds
Youth	Schooling			Weeding	Schooling			Harvestin g	Schooling			scaring
ucan 1			Condo for	Scaroity of land	and					Seeds for		School fees
Problems	School tees 		Secus for planting	Scalcity of 1	71181					planting		
Opportuni	Selling	Sell of farm produce	produce	Digging	Weeding for money	money	Mashing	House construction for	ruction for	Planting for cash	cash	Harvesting in Mwea
ties	basket & ropes			terraces for cash	·		oricks to	3				scheme for cash

Table J.1.4-9 Community Owned Resources

anse 1.1.4.2	Community O	when Resources			<u> </u>
Resource Item	Ownership	Right to use	Right of disposal	Management body	Functions
8 boreholes	Community	All the members	Management committee	Committee	Maintaining boreholes Ensure water is adequate
Earth-dams	Registered members	Livestock of community members	Plan international and management committee	There is a committee of 9 people	Maintenance Regulate mode of use
Dispensary	Community	Any sick person from the community locational level	Ministry of health	Moh and management committee	Ensure medicine is supplied by the government
Schools	Community	Children of community members	Ministry of education	School committee and headmaster	Maintenance of building structures  Ensure good learning environment
Cattle dip	Community	Those that poses livestock (cow)	Management committee of 7 people	Management committee of 7	Refiling the dip with water Procurement of dip chemicals
Rivers	Community	Community	Government	Government	None
Roads	Community	Community	Rural access roads under the ministry of works	Ministry of works and housing	Road repair and up-grading
Churches	Community	Church members	Bishop and church committee	Church committee	Religious services Church maintenance

Table J.1.4-10 Social Stratification and Local Poverty

Wealthy Households (5%)	Household of Modest Wealth (25%)	Poor Households (70%)
Attributes	Attributes	Attributes
Owns Ox-Cart And Plough	Land 10 Acres	Land 10 acres
Owns Commercial Plots	2 Ox For Ploughing	Utilizes 3 acres only harvest 1 acre
Stable Income	4 Goats	Provide of casual labour
Owns 50-100 Cattle	1 Donkey	Lives from hand to mouth
Children Education to University	1 Ox Cart	Children not in school
Enough Food	5 Chicken	Owns domestic animals
Owns 20 Goats	Educate Children To Std 8	Very energetic
Land 10 Acres	Own Domestic Animals	Receive relief food
Own Domestic Animals	Low Income	Distance domestic water
Better Clothing	Poor Harvest	Poor dressing
Employs Home Labourers		

Table J.1.4-11 Conflicts and Conflict Management

Type of Conflict	Management mechanisms
Boundaries Dispute	Village elders deliberate on the matter together with four representatives of the parties in dispute If not resolved, matter is referred to chiefs court If still not resolved, matter referred to court of law in Siakago
Divorce	Parents of husband and wife mediate  If matter not settled, village elders and four representatives of parties in dispute together with two independent witnesses try to resolve the matter.  The chief's court is the final stage where the matter is settled granting divorce and return of dowry
Unauthorized grazing of other peoples land	Case goes to the village elders and then to the court
Fights	Partners reconcile by slaughtering a goat to appease the offended party  Alternatively the matter becomes a Police case and is taken to court
Adultery	The man committing adultery and the woman are taken to village elders in order to resolve the matter Usually, the offended husband is compensated by the man guilt of adultery with cows or goats as determined by the elders

Table J.1.4-12 Priority Ranking of Problems

Men		Women		Youth	
1.	Low agriculture production	1.	Low agricultural production	1.	Unemployment
2.	Poor roads and communication	2.	Poor education facilities	2.	Inadequate education facilities
3.	Inadequate education facilities	3.	Inadequate health facilities	3.	Low agricultural production
4.	Poor health facilities	4.	Unemployment	4.	Poor roads
5.	Uneploymente	5.	Poor roads	5.	Inadequate health facilities

J.1.5 RUUNGU SURVEY SITE

### J.1.5 RUUNGU SURVEY SITE

Table J.1.5-1 Household Income and Expenditure

Source of Income	Expenditure Items
Sale of poultry	School fees
Sale of indigenous cows	Hospital fees
Sale of indigenous goats	Transportation to Mitunguu
Sale of cotton	Household utilities
Sale of subsistence crops (millet,sorghum,	Buying clothes
katumani maize, beans, green peas, soya beans,	Fund raising
pigeon peas)	Farm labor
	Seedlings
	Extended family
	Home construction/repair

Table J.1.5-2 Household Asset Ownership by Gender

Men	Women
Livestock	Millet-Sorghum
Bicycle	Food(small-scale)
Land	Chicken eggs
Cows	Traditional bag
Beehives	Milk
Ploughs	House utensils
Radio	
House	
Children	
Food(large scale)	

Table J.1.5-3 Household Asset Control by Gender

Men	Women
Money	Chicken
Livestock	Child care
Land	Kiondo
Axe	House Utensils
Panga	Grinding stone
Beehive	Food Store(Mururu)
Bows	Cooked food
Arrows	
Ploughs	
Honey	

Table J.1.5-4 Employment Opportunities

Source of Employment	Men	Women	Youth
Farm Related	Cultivation of Cotton, Maize, Green grams, millet	Cultivation of Cotton, Maize, Green grams, Millet	Cultivation of cotton, maize, green grams, millet
Outside the Community	Small Business in Mitunguu, Nkubu and Meru	Small business in Mitunguu, Nkubu and Meru	Formal employment in government offices; casual employment
Non farm related but within the community	Small business at the market, charcoal burning, bee keeping	Small Business in market	

Table J.1.5-5 Community Resources

Community Resources	Ownership	Management
Primary school	Community	GOK/Sponsor
Dispensary	Community	Community/Sponsor
Cattle crashes	Community	Community
Road	Community	Community
Churches	Community	Community
Bore holes	Community	Community
Karocho market	Community	County council
Ruungu Market	County Council	County Market
Posho mill	Community	Women Group
Water (project	Women group	Community/SISDO
Bridge (Beams)	Community	Community
Public land	Community	Community

Table J.1.5-6 Social Stratification and Local Poverty

Wealthy Households (4%)	Household of Modest Wealth (30%)	Poor Households (30%)
Attributes	Attributes	Attributes
Has a vehicle	Kiosk	One livestock
Has a shop	1 Bicycle	Grass thatched huts
A bar/businessman	Children go to local school	Children don't go to school
Has livestock (20)	Shamba 5 hectare	1 hectare of shamba
Has a shamba 10 hectares	Food from shamba	Poor heath family members
Is employed	Children 6 to 7	Famine stricken family
Has corrugated sheet roofs	Health family members	Many children (9)
2 bicycles	Dresses as usual	Poor dressing
Plots		
Healthy family members		
Few children		
Children with courses/boarding	·	

Table J.1.5-7 Prioritization of Problems by Different Members of the Household

Women	Men	Youth
<ol> <li>Distance to school</li> <li>Carrying heavy loads</li> <li>Low production</li> <li>Low income</li> <li>Inadequate labour</li> </ol>	<ol> <li>Lack of capital / finances</li> <li>No water to irrigate</li> <li>Unreliable rainfall</li> <li>Lack of pasture</li> <li>No cattle dips</li> </ol>	<ol> <li>Poverty throughout the community.</li> <li>Prevalence of illiteracy</li> <li>Improper health facilities</li> <li>Poor transport facilities</li> <li>Lack of technical skills</li> </ol>

J.1.6 NKUI SURVEY SITE

### J.1.6 NKUI SURVEY SITE

Table J.1.6-1 Government Agencies Offering Services to the Community

Agency	Services Provided	
Ministry of Agriculture and Livestock Development	Advisory and extension services to farmers on crop and livestock production	
Provincial Administration	Security, settling disputes and providing a link between the community and other Government departments	
Forestry Department	Advice on tree planting	
Ministry of Culture and Social Services	Facilitating group formation and registration	
Ministry of Water Development	Provision of technical services to water users (surveying designs) Issuing of permits to water users	
Ministry of Public Works	Providing culverts for the main roads	
Ministry of Education	Administration of schools including provision of teachers	

Table J.1.6-2 Other Organizations

Institution	Services Provided	
1. BAT	Advisory services in tobacco cultivation	
	Provision of input credit (Fertilizers, Seeds, Pesticides)	
	Buying of tobacco from farmers	
2. Horticultural Exporters	Provision of input credit (Fertilizers, Seeds, Pesticides)	
4. Cotton Board	Provision of cotton seed	
5.Cotton Ginery	Buying cotton from farmers	
6.SISDO	Provision of farm input credit to farmers	
	Community organization for infrastructural credit	

Table J.1.6-3 Social Organization and Leadership within the Community

	Roles	Rules of Appointment
Elders	Settle minor disputes Acts as mediator between the village community and the government A team of five elders deals with minor cases of discipline eg boundary disputes or a fight	Elders are selected by the assistant chief on the basis of their leadership qualities and exemplary behavior
Chief	In charge of the location and chairman of community development activities  He is the mediator between community and the government  Settles minor disputes referred by the sub-chief or elders  He authorizes the community to participate in communal work or barazas  Orders administration police in his location to arrest criminals reported in his office.	Must come from the same location and should have Form IV education Be at least 35 years old, be in good health and be of good behavior

Table J.1.6-4 Household Assets and Their Ownership by Gender

Assets Owned by Women	Assets Owned by Men
1. Chicken	1. Land
2. Eggs	2. Cows
3. Cereals	3. Goats
4. Fruits	4. House
5. Bananas	5. Pigs
6. Kitchen garden	6. Yams
7. Furniture	7. Farm tools and implements
8. Utensils	8. Cash crops eg cotton
	9. Bicycles
	10. Vehicles

Table J.1.6-5 Household Income and Expenditure

Source of Income	Main Expenditure
I Agriculture	·
Bananas	Paying school fees and buying school uniform
Karella	Transport
French Beans	Buying food that is not produced within the household
Okra	Buying clothes, shoes and other regular requirements
Chillies	for the family
Tobacco	Purchasing house construction materials
Maize	Investing in the farm by constructing terraces, buying
Beans	farm tools and farm inputs
II Non -Agriculture Activities	Buying consumer durable such as bicycles, radio, house utensils and furniture Buying oxen
Baking Kiosks Employment	Meeting health care expenses for the family Paying casual labor Starting business
Shop keeping	

Table J.1.6-6 Daily Profile for Men and Male Youth

Time	Men	Boys
5:00 am	Waking up	Waking up
6:00 am	Inspecting the homestead	Inspecting if horticultural crops were stolen
7:00 am	Breakfast	Breakfast
8:00 am	Inspecting the shamba, while looking for pastures	Harvesting horticultural crops
9:00 am	Harvesting horticultural crops	Harvesting horticultural crops
10:00 am	Marketing farm produce	Marketing farm produce
11:00 am	Irrigating farm	Marketing farm produce
12:00 pm	Irrigating farm	Marketing farm produce
1:00 pm	Lunch	Lunch
2:00 pm	Weeding, ploughing, harvesting cotton	Ploughing, weeding, planting and wiring Karrela
3:00 pm	Weeding, ploughing, harvesting cotton	Ploughing, weeding, planting and wiring Karrela
4:00 pm	Weeding, ploughing, harvesting cotton	Ploughing, weeding, planting and wiring Karrela
5:00 pm	Weeding, ploughing, harvesting cotton	Washing and cleaning
6:00 pm	Cleaning and washing	Going to receive order at mitunguu market
7:00 pm	Visiting other men	Going to receive order at mitunguu market
8:00 pm	Visiting other men	Going to receive order at mitunguu market
9:00 pm	Supper time	Going to receive order at mitunguu market
9:30 pm	Home affairs	Going to receive order at mitunguu market
10:00 pm	Inspecting animals	Supper time
11:00 pm	Sleep	Sleep

Table J.1.6-7 Daily Activities Profile for Women and Female Youth

Time	Women
6.00 am	Wake up
	Milking
	Cooking breakfast
6.30 am	Preparing children to go to school
	Wash utensils
	General house cleaning and compound
8.30 am	Start preparing for lunch
	Feeding livestock
10.00 am	Go to the Shamba
	Weeding, planting
12.30 pm	Go back home for lunch preparation
1.00 pm	Eating lunch (the whole family)
	Feeding cows and watering
	Washing utensils
2.00 pm	Start preparing supper
2.30 pm	Washing clothes (school clothes)
3.00 pm	Looking for firewood
3.30 pm	Go back to the shamba
5.30 pm	Go back home
	Washing children
	Milking (selling)
	Continue preparing supper
8.00 pm	Eating dinner
8.30 pm	Washing
9.00 pm	Children go to sleep
l	Relaxing
10.00 pm	Sleep

Table J.1.6-8 Seasonal Calendar

	Jan	Feb	Mar	Apr	May	Jun CO	Jul	Aug	Sep_ DRY	Oct	Nov RA	Dec IN		
Season Men seasonal Activities	Digging Harvesting Constructing houses and shades		Planting Weeding Spraying		Weeding			Spray		Diggin Clearir bushes Harves	g ig		Planti	ng
Women Seasonal Activities	Harvesting Processing Clearing land		Planting Weeding			Scari Birds	~	Harves Proces Cleani land	sing		Planti Weed	-		
Youth Seasonal Activities	Attending to cattle Assisting harvesting		1	Planting Weeding		Scari Birds	_	Harves Proces Cleani land	sing		Planti Weed	•		

Table J.1.6-9 Problem Priorities by Different Members of the Household

Youth	Women	Men
	1. Shortage of water for irrigation	1. Shortage of water for irrigation
1. Lack of water for irrigation	2. No martenity hospital	2. Low income
2. Lack of co-operation	3. Poor roads	3. Poor roads
3. Lack of service technology	4. Lack of farming inputs	4. Hospital is far
4. Lack of public utility	5. Lack of market	5. No administration in Nkui
5. Lack of exposure	6. No school on Nkui	

J.1.7 KIORIMBA SURVEY SITE

#### J.1.7 KIORIMBA SURVEY SITE

Table J.1.7-1 Government Agencies Offering Services to the Community

Agencies	Services Provided
Ministry of Education	Schools administration including provision of teachers
Ministry of Agriculture and Livestock Development	Extension services in crop and livestock production
Provincial Administration	Maintenance of security and settling disputes
Ministry of health	Dispensary services, public health training and general health inspection
Ministry of Water Development	Provision of technical services to water users Issuing of permits
Ministry of Culture and Social Service	Groups registration Advisory services to groups Provision of social welfare services to disadvantaged groups e.g orphans, the old and the sick

Table J.1.7-2 Other Organizations

Institutions	Activities					
1. Kiorimba Water Project	Management of water for irrigation, domestic and livestock use					
2. BAT	Advisory services in growing of tobacco and buying of the same  Providing credit for tobacco growing					
3. Mastermind	Same as above					
4. Cotton Ginnery	Buying farmers cotton					
5. Women groups	Making cooking stoves					
6. SISDO	Providing credit for irrigation infrastructure					

Table J.1.7-3 Conditions and Accessibility of Social Infrastructure

Social Infrastructure	Service Level	Quality of Service	Accessibility	Management Body
Domestic and irrigation water supply	Temporary river intake and earthen furrow	Not reliable	Accessible only to households at the top end of the furrow	Kiorimba water project committee
Roads	Partly murrramed road	Poorly maintained Impassable during rain seasons	All members of the community	Ministry of Public Works and Road Committee
Health	No dispensary or health center	Poor	People have to go to Meru 40kms	MOH (Ministry of Health)
Schools	One primary school	No secondary school	Accessible to all children who can afford building charges	Ministry of Education and a School Committee

Table J.1.7-4 Seasonal Calendar by Gender

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	t (	Oct	Nov	Dec	
Season			Short	rains		Dry season				Long rains				
Men Activities	Harv	Harve-sting Planting tobacco nurseries Spraying pesticides		ies ing	Putting manure on shambas Help in harvesting Work in the intake Work in swamps as casuals Work as load carriers Assist in shamba preparations				ıs	Spraying pesticides in tobacco Weeding			es in	
Women Activities	Harvesting all other crops like maize, beans etc Harvesting tobacco and planting tobacco nursery Weeding, Harvesting and preparing		co and ng co ry ing, esting	Plant maize	tobacco and be	nurse ans, tra	ries, plan ansplanti g all crop	t ng	Harvesting all other crops (maize, beans etc)					

Table J.1.7-5 Social Stratification and Local Poverty

Wealthy Households (5%)	Household of Modest Wealth (70%)	Poor Households (25%)
Attributes	Attributes	Attributes
More than 10 acres of land	Has 1-2 casual laborers	Land not more than one acre
Educated children upto university	Not more than 5 acres	Children not in school
Permanent house	Partial utilization of land	No of livestock on farm
More than 10 heads of cattle	Not more than three livestock	Unhealthy children
More than one source of income	Brick or timber houses	No participation in community activities
Own domestic water system	Educated children upto standard 8	
Dress well	Land preparation by oxen ploughs	Tattered clothes
Prepares land well for cultivation	House walls finished with cow	
Buys and sells food stuff	Two goats, five chicken	House made of sticks and grass
	Keeps a kiosk	
	Uses bicycle or wheelbarrow for communication	Reason for Position in Stratum
		Shortage of land
		Lack of water for irrigation
		(people in the two subunits where
	·	there is no furrow water were all
		identified as poor)
		Low or lack of income
		Poor roads and hence the area is
		not accessible

Table J.1.7-6 Priorities by Gender

	Men		Youth	Women		
1.	Inadequate water for irrigation	1.	Inadequate water for irrigation	1.	Poor health facilities	
2.	Poor roads and inaccessible	2.	Lack of agricultural inputs (expenditure)	2.	Inadequate water for irrigation	
3.	Poor health facilities	3.	Poor roads	3.	Poor roads	
4.	Lack of good market	4.	Poor health facilities	4.	Lack of a ready market	
5.	Lack of agricultural inputs	5.	Lack of a ready market	5.	Lack of agricultural inputs	

ANNEX J.2 TRAINING MODULES FOR INSTITUTIONAL DEVELOPMENT

Table J.2.2-1 Our Community, Our Living Environment (Social Preparation Sessions)

Target: Project Community (including project members and non-members)

Торіс	Facilities & Sub-Topics	Session Duration (day)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Large hall as venue; manila paper, marker pens, cards; writing paper and pens; farmers to provide food</li> </ul> </li> <li>b) Sub-topics: <ul> <li>Facilitator explains session procedures particularly use of cards as the medium of communication</li> <li>Community appoints one of their members as secretary to the sessions</li> </ul> </li> </ul>	
Our History	<ul> <li>a) Sub-topics: <ul> <li>Community's settlement history (when ,how and where they came)</li> <li>List of key community events since settlement (eg famine, floods, wars, locusts, projects, new crops etc)</li> <li>Notable trends in important resources since time of settlement (vegetation, river flows, soil fertility, crop yields population</li> <li>Importance of appreciating a community's history and collective experience (sense of identity, feeling of togetherness? what else)</li> </ul> </li></ul>	0.5
Our Resources	a) Sub-topics:  - Listing of community resources (land, rivers, institutions, skills etc); if necessary take transect of community area  - Attempt at qualifying and quantifying community's listed resources	1
Our Problems	a) Sub-topics:         - List of main community problems (agricultural, health, social, economic etc)         - Attempt at qualifying and quantifying community's problems	0.5
Our Needs	a) Sub-topics:     List of main community needs ( in relation to problems)     Use of pair-wise scoring matrix to prioritize main needs	1
Our Action Plan	<ul> <li>a) Sub-topics: <ul> <li>Whose responsibility is it for meeting the community's needs? Is it governments? Donors? Community?</li> <li>Attempt at relating the needs to community's resources</li> <li>Preparation of outline action plans aimed at satisfying community needs (irrigation only one of the plans), using medium term horizon say 5-10 years</li> <li>Assignment of responsibility to different community members for different plan components</li> </ul> </li> </ul>	1

Note: A facilitator from a consultant firm or NGOs and Three IDB/MOA/MOCSS staff will be in attendance for the 4 days PRA workshops.

#### Table J.2.2-2 Our Irrigation Development Plan

Target: Prospective Project Members Only

Topic	Facilities & Sub-Topics	Session Duration (day)
Preliminaries	a) Facilities: Large hall as venue; previous PDM; manila paper, marker pens, cards; writing paper and pens; farmers to provide food b) Sub-topics: - Facilitator explains session procedures - Community appoints one its members as secretary to the sessions	
Over view of PDM	<ul> <li>a) Sub-topics:</li> <li>Validating project problems and objectives</li> <li>Validating project purpose, results and activities</li> <li>To whom does the Irrigation plan belong?</li> </ul>	11
Water Users Association	<ul> <li>a) Sub-topics: <ul> <li>What is WUA?</li> <li>Justification for a WUA; individual effort versus collective action</li> <li>Qualification for WUA membership (household heads, wives, children, tenants?); membership fees (joining and annual)</li> <li>Water allocation criteria(equal amounts or by existing plot size)</li> <li>What should be the rules for distributing water along the canal (from tail-end upstream or from up-stream downwards? What are members' experience here or in any irrigation scheme on problems related to distribution sharing of irrigation water</li> <li>Members rights, obligations, discipline, existing by-laws, required amendments</li> </ul> </li> </ul>	1.5
Management Committee and Group-leaders	a) Sub-topics:  - How should representatives to the management committee be elected?  - Suitability for being elected as group-leader/member of management committee  - Duties and expectations for management committee members(as a group and individually); To whom are they answerable	1
Supporting Agencies	a) Sub-topics:         - Supporting agencies (government, NGOs and private sector)         - Mutual expectations of farmers and supporting agencies in irrigation development	0.5

Note: A facilitator from private firm or NGOs and three IDB/MOA staff will be in attendance for the 4 days irrigation planning workshop.

Table J.2.2-3 Designing Our Irrigation System

Target: Prospective Project Members Only

Торіс	Facilities & Sub-Topics	Session Duration (days)
Preliminaries	a) Facilities:     Large hall as venue; previous PDM, preliminary engineering design, card-board model of intake structure, manila paper, marker pens, cards; writing paper and pens; farmers to provide food     b) Sub-topics:     Introduction and prayers	
	<ul> <li>Facilitator explains session procedures</li> <li>Community appoints secretary to the sessions</li> </ul>	
Intake Structure	a) Sub-topics:  Visit to alternative intake sites  On-site discussion on intake design criteria in relation to area to be irrigated  Elements of comprising the intake and how they will be expected to function (refer to cardboard intake model prepared by IDB)  Comments on the intake siting as well as any suggestions as to how intake elements may be modified to suit expected usage	0.5
Conveyance, Secondary and Tertiary canals/pipes and	a) Sub-topics:     - Walk along main canal/pipe route guided by preliminary design lay-out     - Women members to take lead in assessing appropriateness of canal and associated structures	
Drainage System	<ul> <li>Field structures(offtakes, boxes, drops, lining ets) and discussion of their design, siting and mode of operation (continuous flow or rotated flow?)</li> </ul>	1
	a) Sub-topics:         - Design lay-out placed on the wall and examined by members         - Summary of suggestions on siting, sizing and configuration of intake structure,	
Design Review and Proposed Changes	- Summary of suggestions on sizing alignment of main canal/piping, secondary and tertiary canals/piping in relation to expected water allocation and management practices (among groups and individuals)	
	Summary of comments on structures, important fixtures etc     Feed-back from IDB which comments can be accommodate in the     Community 's mandate to IDB to finalize design subject to incorporation of practicable suggestions by the members	1
Right of Way	a) Sub-topics:     List of people affected by design alignment of main canal/pipe     Community's pledge to acquire right of way by a specified date using their internal arrangements without reference to IDB/MOA	0.5

Note: A facilitator from private firm or NGOs and three IDB/MOA staff will be in attendance for the 3 days design review workshop.

Table J.2.2-4 Financing Our Irrigation System

Target: Prospective Project Members only

Торіс	Facilities & Sub-topics	Session Duration (days)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Large hall as venue; previous PDM; manila paper, marker pens, cards; writing paper and pens; farmers to provide food</li> </ul> </li> <li>b) Sub-topics: <ul> <li>Facilitator explains session procedures particularly the use of cards</li> <li>Community appoints one of its members as secretary to the sessions</li> </ul> </li> </ul>	
Cost of Implementing the Irrigation System	<ul> <li>a) Sub-topics: <ul> <li>Discussion of breakdown of implementation cost into materials and labour components</li> <li>Possibility of and commitment by farmers to meet some of the costs by providing labour or materials eg aggregates</li> <li>Listing of alternative methods of meeting the remaining cost</li> </ul> </li> </ul>	1
Members Contribution	a) Sub-topics:         - Consensus on level of individual contribution         - Methods and procedures for collecting and banking member contributions	0.5
Harambee Contributions	a) Sub-topics:         - Sub-committee for Harambee organization         - Timing and targeting of Harambee contribution         - Collection and banking procedures	0.5
Obtaining a Loan from Lending Agency	a) Sub-topics:     Listing of alternative loan sources and associated conditions     Agreement on which agencies to write to for loan request by a specified date     Expected loan repayment procedures through main and group bank accounts     Mandating of committee to do the follow-up and report at agreed future date	1

Note: A facilitator from a consulting firm or NGOs and three IDB/MOA staff will be in attendance for 3 days Financing planning workshops.

Table J.2.2-5 Implementing Our Irrigation System

Target: Prospective Project Members Only

Торіс	Facilities & Sub-topics	Session Duration (day)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Large hall as venue; previous PDM; manila paper, marker pens, cards; writing paper and pens; farmers to provide food</li> </ul> </li> <li>b) Sub-topics: <ul> <li>Facilitator explains session procedures particularly use of cards</li> <li>Community appoints one of its members as secretary to the</li> </ul> </li> </ul>	
Implementation Plan	sessions  a) Sub-topics:  - Appreciation of who and what in the implementation plan  - Discussions on duration of implementation including key events  - Has the implementation plan considered the rain seasons  - What factors can delay the construction plan and what can the community do about them?	0.5
Choosing the Contractor	<ul> <li>a) Sub-topics: <ul> <li>Choice criteria and procedures</li> <li>Do the contractors have relevant experience?</li> <li>Are there contractors from the community? Is this good or bad?</li> <li>Is the contractor likely to engage local labour or will he import them from elsewhere?</li> <li>Discussion on condition to be included in the contract of selected contractor</li> <li>Contractor payment procedures; are there any hidden costs?</li> </ul> </li> </ul>	1
Farmers Implementation Activities	a) Sub-topics:         - Procedures for mobilizing farmers for labour contribution         - Procedures for any materials contribution to be made by the farmers         - Right of way acquisition	1
Progress Supervision	a) Sub-topics:     Responsibility for technical supervision and quality control     Role of WUA committee in supervision and progress chasing     System testing and hand-over procedures	0.5

Note: A facilitator from private firm or NGOs and three IDB/MOA staff will be in attendance for 3 days implementation planning sessions.

### Table J.2.2-6 Planning Operation of Our Irrigation System

Target: Prospective Project Members Only

Topic	Facilities & Sub-topics	Session Duration (day)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Church hall as venue; previous PDM; manila paper, marker pens, cards; writing paper and pens; farmers to provide food</li> </ul> </li> <li>b) Sub-topics: <ul> <li>Facilitator explains session procedures</li> <li>Community appoints one of its member as secretary to the sessions</li> </ul> </li> </ul>	
Operation of the Intake	a) Sub-topics:  Responsibility for opening and closing of intake  Opening and closing schedule for intake ( high and low water requirements)  Emergency closures  Security arrangements	0.5
Operation of Off- takes in Main and Secondary Canals/pipes	a) Sub-topics:         - Responsibility for opening and closing         - Opening and closing schedule (allocation criteria, need for rotation?)         - Procedures for dealing with unauthorized opening or damage and associated penalties at the community level and in courts of law	1
Operation of group feeder canal	a) Sub-topics:         - Responsibility for opening and closing         - Opening and closing schedule (allocation criteria, need for rotation?)         - Procedures for dealing with unauthorized opening or damage and associated penalties at the community level and in courts of law	0.5
Irrigation Operation Budget	a) Sub-topics:  - Permanent water guard, duties, salary and allowances  - Any other operational expenses  - Total operation costs and implied charge to farmers  - Procedures for collecting operation water charges  - Procedures for dealing with payment defaulters  - Responsibility for compiling "Irrigation Operation Manual" for the scheme to be completed by a specified date (any assistance from IDB?); who will get copies of the manual? all members?  Who will pay for the cost of producing and distributing the manual?	1

Note: A facilitator from a consulting firm or NGOs and three IDB/MOA staff will be in attendance for 3 days operation planning sessions.

Table J .2.2-7 Planning Maintenance of Our Irrigation System

Target: Prospective Project Members only

Торіс	Facilities & Sub-topics	Session Duration (day)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Large hall as venue; previous PDM, manila paper, marker pens, cards; writing paper and pens; farmers to provide food</li> </ul> </li> <li>b) Sub-topics: <ul> <li>Facilitator explains session procedures</li> <li>Community appoints one of its member as secretary to the sessions</li> </ul> </li> </ul>	
Intake Maintenance	a) Sub-topics:  - Maintenance requirements ( what, how and when)  - Responsibility for intake maintenance  - Need for specialized skills  - Cost estimate including provision for future emergencies	0.5
Maintenance of the Main and Secondary Canals	<ul> <li>a) Sub-topics:         <ul> <li>Maintenance requirements (weed clearing, desilting, embankment repair, replacement of structures etc)</li> <li>Responsibility for canal maintenance</li> <li>Cost estimates (labour, materials, cash?)</li> </ul> </li> </ul>	1
Maintenance of Group Feeder Canals	<ul> <li>a) Sub-topics:</li> <li>- Maintenance requirements (weed clearing, desilting, embankment repair, replacement of structures etc)</li> <li>- Responsibility for canal maintenance</li> <li>- Cost estimates (labour, materials, cash?)</li> </ul>	1
Maintenance Budget	a) Sub-topics:  - Labour estimates  - Financial estimates including provision foe future emergencies and replacements  - Maintenance cost implication at the farmer level in money and labour terms  - Procedures for collecting maintenance charges or deploying maintenance labour  - Compilation of maintenance manual; how will the cost of compiling and distributing the manual be met? What support is	1.5

Note: A facilitator from a consulting firm or NGOs and three IDB/MOA staff will be in attendance for 4 days maintenance planning sessions.

Table J.2.2-8 Training in Community Organization

Target: IDB, DAO Extension Staff, NGOs Staff

Topic	Facilities & Sub-topics	Session Duration
Preliminaries	a ) Facilities         - Residential training venue with class-room size rooms; Audiovisual aids (flip chart, video-camera, TV-Video         b) Sub-topics:         - Introductions         - Overview of course content and procedures by facilitator	(day)
Proposed Agricultural Policy and Extension Strategy	a) Sub-topics:     Extension support services in a liberalized, privatized, and commercialized agricultural environment     Cost sharing in provision of support services     Collaboration with the private sector in providing extension services	0.5
Organizations	a) Sub-topics:         - Elementary theory of organization         - Group dynamics         - Leadership styles	0.5
Community Mobilization	a) Sub-topics:  - Motivation and change  - Individual versus group action  - Gender issues ( women status, gender division of tasks now and with and proposed developments, differential access to resources)  - Communication theory and practical exercises (video camera and video re-play)	1.5
Field Barazas (meetings)	a) Sub-topics:  - Defining objectives - Preparation - Setting out the scene - Do's and don't's in a field baraza - When things go wrong - Practical exercises	1
Field Trip	<ul> <li>a) Sub-topics:         <ul> <li>Field visit to a community engaged in irrigated horticultural production and currently facing specific problems</li> <li>Division of participants into 3-4 groups each to address one specific problem</li> <li>Groups spend whole morning in the community (with prior arrangement)</li> <li>Field baraza addressed by group representatives</li> <li>Presentation of field visit reports including critique of baraza address performance by other participants</li> </ul> </li> </ul>	1.5

Note: A facilitator from a consulting firm or NGOs and two staff from IDB staff, will be in attendance for 5

Table J.2.2-9 Training in Participatory Approaches

Target: IDB, DAO Extension Staff, NGOs Staff

Торіс	Facilities & Sub-topics	Session Duration (day)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Residential training venue with class-room size rooms; Audiovisual aids (Flip charts, video-camera, TV-Video.</li> </ul> </li> <li>b) Sub-topics: <ul> <li>Introductions</li> <li>Overview of course content and procedures by facilitator</li> </ul> </li> </ul>	
Introduction to Participatory Approaches	<ul> <li>a) Sub-topics:         <ul> <li>Overview of past experience with development planning and implementation (Kenya and Philippine case studies)</li> <li>Justification of community participation in all stages of project cycle</li> </ul> </li> </ul>	
:	- Participation and gender equity	0.5
Rapid Rural Appraisal (RRA)	a) Sub-topics         - Historical background and applications         - RRA procedures and current status	0,5
Participatory Rural Appraisal (PRA)	a) Sub-topics:         - Historical back ground and applications         - PRA procedures and Current status	2
ZOPP/GOPP and PDM	a) Sub-topics:  - Historical back ground and applications of ZOPP  - ZOPP procedures and current status  - Historical background and application of PDM  - PDM procedures and current status	2

Note: A facilitator from a private firm or NGOs and two staff from IDB staff will be in attendance for 5 days.

### Table J.2.2-10 Training in Financial Management

Target: WUA Management Committee

Topic	Pacilities & Sub-topics	Session Duration (day)
Preliminaries	a) Facilities:  - Church hall, Flip charts, Manila Paper, cards b) Sub-topics:  - Introductions  - Overview of course content and procedures by facilitator	
Financial and other Records	a) Sub-topics:  - Individual farmer accounts  - Invoicing and receipting procedures  - construction, operation and maintenance expenses (in kind and in cash)  - Books of account and annual report	1
Budget Preparation and Budget Control	a) Sub-topics:  Forward planning of operation and maintenance expenses  Preparation of one, and three year budgets  Income and expenditure budget including provision for maintenance fund  Cash flow monitoring and budgetary control	1.5
Banking	a) Sub-topics:  - Types of bank accounts  - Cash deposit and withdrawal procedures  - Bank reconciliation	0.5

Note: A facilitator from a consulting firm or NGOs and two staff from IDB/MOA will be in attendance for the 3 days of the training workshop.

Table J.2.2-11 Training in General Management

Target: WUA Management Committee

Торіс	Facilities & Sub-topics	Session Duration (day)
Preliminaries	a) Facilities:         - Residential training venue; flip charts, Manila Paper, cards     b) Sub-topics;	
	Introductions     Overview of training content and procedures by facilitator	
Organization Principles	a) Sub-topics:         - Types of organizations and Organization objectives         - Organization structures and management styles         - Communication principles in relation to organization structure         - Verbal and written communications	
· · · · · · · · · · · · · · · · · · ·	- Organization records	1
Roles of Management	a) Sub-topics:         - Farmers mobilization for meetings, labour or financial contributions         - Collection and security of construction, operation and maintenance charges	2
Committee	Moral crisis currently facing farmers organizations     Supervision of construction, operation and maintenance of irrigation system	
	Conflict resolution and irrigation water discipline     Management of external relations	1.5
Meetings	a) Sub-topics:     Conduct of annual general meeting and committee meetings     Writing Minutes	0.5
Field Visit	a) Sub-topic:  - Visit to one irrigation scheme with good performance  - Visit to one irrigation scheme with poor performance	1

Note: A facilitator from a consulting firm or NGO and two IDB/MOA staff will be in attendance for the 4days training session.

Table J.2.2-12 Training in Financial Management

Target: Women Groups

Topic	Facilities & Sub-topics	Session Duration (day)
Preliminaries	a) Facilities:  - Large hall, Flip charts, Manila Paper, cards b) Sub-topics:  - Introductions  - Overview of course content and procedures by facilitator	
Group Financial Records	a) Sub-topics:         - Members contributions and disbursements         - Group expenses and revenue         - Integrity in handling members finance	0.5
Banking	a) Sub-topics:  - Types of bank accounts  - Cash deposit and withdrawal procedures  - Bank reconciliation	0.5
Budget Preparation	a) Sub-topics:         - Procedures for identifying future expenditure items         - Identifying income generating activities and associated expense and revenues streams         - Identifying agencies that can provide loans to women groups         - Procedures for applying and negotiating for loans	1
Annual Reports	a) Sub-topics:         - Balancing expenditure and revenue during the year         - Annual report of group activities including statement on expenditure and revenue as well as benefits to individual members	1

Note: A facilitator from a consulting firm or NGOs and two staff from MOA/MOCSS, will be in attendance for the 3 days training workshop.

Table J.2.2-13 Training in General Management

Target: Women Groups

Торіс	Facilities & Sub-topics	Session Duration
	,	(day)
	a) Facilities:	
	- Large hall, Flip charts, Manila Paper, cards	
Preliminaries	b) Sub-topics:	
	- Introductions	
	- Overview of course content and procedures by facilitator	····
	a) Facilities:-same as above	
Elementary	b) Sub-topics:	•
concepts of	- Types of organizations	
organizations	- Organization objectives	
	- Leadership in organizations	1
	a) Sub-topics:	
	- Strengths, weaknesses, opportunities and threats or the women	
Group Self	group	
assessment	- Review of current activities and exploration of other opportunities	
	when irrigation becomes available e.g production/marketing of	
	horticultural produce	0.5
	- Areas where internal management of group requires strengthening	
	a) Sub-topics:	
Planning of	- Forward-planning procedures	
Group Activities	- Time budgeting against competing activities	
	- Monitoring performance	1
External	a) Sub-topics:	
Relations	- Identifying support agencies in government, NGOs and private	
	sector	مم
	- Negotiation/bargaining techniques with external agencies	0.5

Note: A facilitator from consulting firm or NGOs and two staff from IDB/MOA staff will be in attendance for the 3 days of training workshop..

Table J.2.2-14 Training in Financial Management

Target: Production/Marketing Group

Торіс	Facilities & Sub-topics	Session Duration (day)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Large hall; flip charts, cards, black-board, pens, writing paper</li> </ul> </li> <li>b) Sub-topics: <ul> <li>Introductions</li> <li>Overview of course content and procedures by facilitator</li> </ul> </li> </ul>	
Members Transaction Records	<ul> <li>a) Sub-topics: <ul> <li>Opening of member ledgers</li> <li>Procedures for recording farmer produce deliveries to the group grading shed (Farmer delivery note)</li> <li>Procedures for recording group supplies to contract buying companies (Contractor delivery note)</li> <li>Membership and handling charges</li> <li>Fortnightly member statements</li> </ul> </li> </ul>	1
Operating Group Bank Accounts	a) Sub-topics:         - Types of bank accounts         - Considerations that influence what type of bank account to choose         - Procedures in opening, depositing and withdrawing money by cash and cheque         - Arrangement for payment by buyers through cash or cheque on produce delivery or fortnightly	1
Annual Activities and Budget Preparation	<ul> <li>a) Sub-topics:         <ul> <li>Committee members trips in search of support services (market information, production technology, contract preparation)</li> <li>Installation of grading shed/office, weighing machines, office equipment and stationery</li> <li>Employment of grading supervisor, accounts clerk, cleaner and watchman etc</li> <li>Total expenditure &amp; revenue collection estimates; procedures for budget approval by group general meeting</li> </ul> </li> </ul>	1
Accounts Records	a) Sub-topics:         - Sources and application of group finances         - Summary of individual member transactions during the year         - Compilation of group annual accounts for discussion at Annual         General Meeting (AGM)	1

Note: A facilitator from a consulting firm or NGOs and two staff from MOA will be in attendance for 4 days.

#### Table J.2.2-15 Training in General Management

Target: Production/Marketing Group

Topic	Facilities & Sub-topics	Session Duration (day)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Large hall; flip charts, manila paper, marker pens, writing paper, pens; samples of registration forms and contract agreements</li> <li>b) Sub-topics: <ul> <li>Introductions</li> <li>Overview of course content and procedures by facilitator</li> </ul> </li> </ul></li></ul>	
Analysis of Existing Marketing Situation	a) Sub-topics:  Overview of marketing experience of the last three years here or elsewhere in the district  Brokers and other middlemen; good and bad things about them  Situation of farmers profit margin in relation to the price of inputs and horticultural produce  Factors that determine farmer-level price of inputs and horticultural produce	1
The case for a Production Marketing Group	a) Sub-topics:  - Advantages in in-put procurement  - Advantages in price negotiation  - Advantages in accessing production technology  - Advantages in getting market information	0.5
Group Formation, Organization & Management	a) Sub-topics:         - Group objectives and main activities         - Who should be in the group and what should be the number limit         - Group's by-laws, organization structure, and registration procedure with MOCSS as well as FPEAK)         - Composition and functions of Group Management Committee	1
Production & Marketing Activities	a) Sub-topics:  - Group activities plan  - Procedures for accessing market information  - Negotiating production/marketing contracts with buyers for export and domestic markets (price, quantity, timing &payment procedures)  - Dealing with brokers and other middlemen  - Demanding and accessing extension support from MOA/HCDA  - Group procurement of in-puts from local stockists at discount  - Exploring local sources of credit including from group itself  - Group production scheduling in relation to market requirements  - One day visit to an operational marketing group	2.5

Note: A facilitator from a consulting firm or NGOs and two staff from MOA/HCDA will be in attendance for 5 days.

Table J.2.2-16 Training in General Loan Administration

Target: Local Level NGOs Staff

Topic	Facilities & Sub-topics	Session Duration (day)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Residential training venue with class-room size rooms; Audio-visual aids, Flip charts, video-camera, TV-Video.</li> </ul> </li> <li>b) Sub-topics <ul> <li>Introductions</li> <li>Overview of course content and procedures by facilitator</li> </ul> </li> </ul>	·
Overview of	a) Sub-topics:	
NGOs	- Framework for NGOs operations (legal and spatial coverage)	
Operational	- Range of activities, support services, existing Linkages with other	
Framework	NGOs and government agencies	0.5
Nature of	a) Sub-topics:	
Organizations	- Elementary theory of organization	*.
	- Group dynamics	
:	- Leadership styles	0.5
Organization for	a) Sub-topics:	
Efficient Loan	- Organization structure of a loan administration Department (credit	
Administration	preparation unit; credit processing and disbursement unit; Loan	
	monitoring and recovery unit)	
	- Caliber of loan department employee, job descriptions, performance	
	specification and accountability procedures	1
	- Type and frequency of loan performance reports (no. of farmers, loan	1 .
·	volume, recovery volume, qualifying comments etc)	
	a) Sub-topics:	
1100	- Motivation and change	
NGOs as	<ul> <li>Individual versus group action</li> <li>Gender issues (women status, gender division of tasks now and with</li> </ul>	
Change Agents	and proposed developments, differential access to resources)	
Change Agents	- Communication theory and practical exercises (video camera and	
	video re-play)	1
	Social marketing skills; service packing and demand stimulation	
Group Formation	a) Sub-topics:	
for Irrigation	- Understanding the beneficiary community	
loans	- Identifying key informants and enlisting support of local grassroots	
	leaders (formal and informal)	
	- Meetings with WUA members to agree on need for credit and credit	
	group formation	
	- Group Preparatory meetings and agreement on terms and conditions of	
	credit (for irrigation infrastructure and farm inputs)	1
	a) Sub-topics:	
Loan	- Training of credit groups on security fund contributions and banking	
Administration	procedures	
Procedures	- Steps in loan processing, disbursement, repayment, monitoring and	1
	dealing with delinquencies	1

Note: A facilitator from a consulting firm or NGOs and two staff from IDB/MOA will be in attendance for 5 days.

Table J.2.2-17 Training in Internal Financial Management

Target: Local Level NGOs' Staff

Topic	Facilities & Sub-topics	Session Duration (day)
Preliminaries	a) Facilities:  - Large hall; flip charts, cards, black-board, pens, writing paper b) Sub-topics:  - Introductions  - Overview of course content and procedures by facilitator	
Annual and triennial Operation Budgets	a) Sub-topics:         - Projected estimates of loan demands for the next three years         - Estimates of projected loan administration expenses (up-front expenses of group organization, cost of loan processing and loan recovery         - Overhead cost estimation (back-up support, bank charges and cost of acquiring loan funds)	1
Loan Account Operation	a) Sub-topics:         - Justification for opening and operating separate bank loan account         - Opening of individual loan account ledgers         - Timely availability of loan account status; need for computerization; frequency of record up-date	
Budgetary Control and Management Reports	a) Sub-topics:         - Breakdown of budget into quarterly parts displaying disbursements, recovery and associated expenses         - Quarterly performance reports showing variance between targets and actual achievements (figures, graphs and charts)         - Cost management systems         - Annual report including standard accounts statements (source and application of funds, balance sheet, separate loan accounts)	1
Experience Consolidation and Forward Planning Strategies	a) Sub-topics:  Lessons from loan operations so far (do's and don'ts)  Demand survey for irrigation credit requirements in the locality and neighboring areas  Exploration of alternative funding sources for irrigation lending with specific attention to the local banking system	1

Note: A facilitator from a consulting firm or NGOs and two staff from MOA will be in attendance for 4 days.

Table J.2.2-18 Training in General Loan Management

Target: SISDO Loan Personnel

Topic	Facilities & Sub-topics	Session Duration
n dinima	a) Facilities:  - Residential training venue with class-room size rooms; Audio-visual	(day)
Preliminaries ·	aids, Flip charts, video-camera, TV-Video.	
	b) Sub-topics - Introductions	
	Overview of course content and procedures by facilitator	
Overview of	a) Sub-topics:	
SISDO'S	- Framework for SISDO'S operations (legal and spatial coverage)	•
Operational	- Range of activities, support services, existing Linkages with other	
Framework	NGOs, government and multilateral agencies	0.5
Nature of	a) Sub-topics:	
Organizations	- Elementary theory of organization	
0.5	- Group dynamics	
٠	- Leadership styles	0.5
Organization for	a) Sub-topics	
Efficient Loan	- Organization structure of a loan administration Department (credit	
Administration	preparation unit; credit processing and disbursement unit; Loan	
	monitoring and recovery unit)	
	- Caliber of loan department employee, job descriptions, performance	
	specification and accountability procedures	
	- Type and frequency of loan performance reports (no. of farmers, loan	1
	volume, recovery volume, qualifying comments etc)	
•	a) Sub-topics:	
	- Motivation and change	
SISDO as	- Individual versus group action	
Community	- Gender issues ( women status, gender division of tasks now and with	
Change Agent	and proposed developments, differential access to resources)	
	- Communication theory and practical exercises (video camera and	4
	video re-play)	1
	- Social marketing skills; service packing and demand stimulation	
Group Formation	a) Sub-topics:	
for Irrigation	- Understanding the beneficiary community	*1.
loans	<ul> <li>Identifying key informants and enlisting support of local grassroots leaders (formal and informal)</li> </ul>	
	Meetings with WUA members to agree on need for credit and credit	
	1	
	group formation - Group Preparatory meetings and agreement on terms and conditions of	
	credit ( for irrigation infrastructure and farm inputs)	1
	a) Sub-topics:	
Loan	- Training of credit groups on security fund contributions and banking	
Administration	procedures	
Procedures	- Steps in loan processing, disbursement, repayment, monitoring and	
1100000100	dealing with delinquencies	1

| dealing with delinquencies | 1

Note: A facilitator from a consulting firm or NGO sand two staff from IDB/MOA will be in attendance for 5 days.

Table J.2.2-19 Training in Internal Financial Restructuring

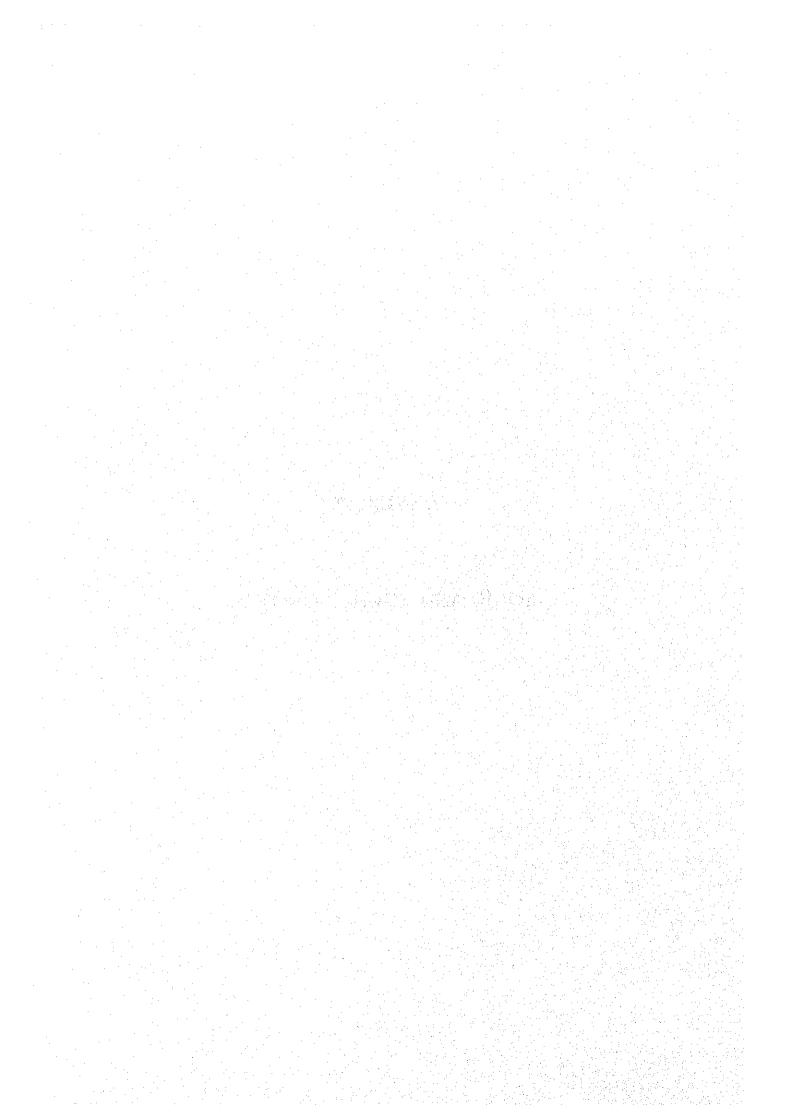
Target: SISDO Loan Personnel

Topic	Facilities & Sub-topics	Session Duration (day)
Preliminaries	<ul> <li>a) Facilities: <ul> <li>Large hall; flip charts, cards, black-board, pens, writing paper</li> </ul> </li> <li>b) Sub-topics: <ul> <li>Introductions</li> <li>Overview of course content and procedures by facilitator</li> </ul> </li> </ul>	
Annual and triennual Operation Budgets	a) Sub-topics:  - Projected estimates of loan demands for the next three years  - Estimates of projected loan administration expenses (up-front expenses of group organization, cost of loan processing and loan recovery  - Overhead cost estimation (back-up support, bank charges and cost of acquiring loan funds)	1
Loan Account Operation	<ul> <li>a) Sub-topics:         <ul> <li>Justification for opening and operating separate bank loan account</li> <li>Opening of individual loan account ledgers</li> <li>Timely availability of loan account status; need for computerization; frequency of record up-date</li> </ul> </li> </ul>	1
Budgetary Control and Management Reports	<ul> <li>a) Sub-topics:         <ul> <li>Breakdown of budget into quarterly parts displaying disbursements, recovery and associated expenses</li> <li>quarterly performance reports showing variance between targets and actual achievements (figures, graphs and charts)</li> <li>Cost management systems</li> <li>Annual report including standard accounts statements (source and application of funds, balance sheet, separate loan accounts)</li> </ul> </li> </ul>	1
Experience Consolidation and Forward Planning Strategies	a) Sub-topics:  - Lessons from loan operations so far (do's and don'ts)  - Demand survey for irrigation credit requirements in the locality and neighboring areas  - Exploration of alternative funding sources for irrigation lending with specific attention to the local banking system	1

Note: A facilitator from a consulting firm or NGOs and two staff from MOA will be in attendance for 4 days.

# ANNEX K

SOCIO AND AGRO-ECONOMY



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Table K.1.1.1-1 Macro Economic Indicators

MACR	LAGRO ECONOMY	1992	- 1	1994	1995	1996
	1. GDP at Current Prices (million K.E.)	13, 224	16, 681 4, 343	20, 036 4, 474	22, 785 4, 692	25, 896 4, 907
	2. GDP at Constant Prices (million N&)	0.5	0.2	3.0	8.8	4.6
	3. Annual uromen of up two d. GDP per Capita(K名)	452	546	632	698 0	7/3 25 0
	5. Contribution of Agricultural Sector to GDP (%)	26. Z -3. Z	- <del>-</del> -	2 6	, <del>4</del> ,	0 - 0
	5.1 Growth Rate of Agricultural Sector(別) 6. Gross NationalProduct at Current Prices(剛計)ion K名)	10, 434	12, 182	14, 798	18, 589	22, 216
	7. Trade Balance (million K&)	1 742	3, 678	4, 282	4,866	5, 910
	7.1 Exports	2, 955	5,056	5, 754	7, 758	8, 424
-	7.2 Imports	-1, 213	-1, 378	-1,472	-2, 892	-2, 514
	C Dalatic					
	8 Exports of Fresh Horticultural Products	62.3	62.4	65.2	71.1	84.8
	8.1 Voluem(1,000 ton) 8.2 Value(million K&)	125.8	233. 6	246.8	320.0	385.0
	8.3 Major Exporting Destination Countries of the Horticultural crops	UK, France,	Germany,	Netheria	nds, Belgi	UK, France, Germany, Netherlands, Belgium, Italy, Others
	Seiting Toward Training to the contract to the	Tea, Coffee, Horticultural crops,	, Horticu	ltural or	ops, Petro	Products
	9. Major importing Commodoties	Machinery and Transport Equipment, Food and Animals	ınd Transp iimals	ort Equip		Minerals & ruels, oremicals,
	11 Exchange Rate of US\$	32.2	58.0	56.1	51.4	58.0
	10 Discourse of Davement (million K.E.)	-157	288	291	-1,031	-211
	Source. Economic Survey 1996 Source. Economic Survey 1996 Statistical Abstract 1995					

Table K.1.1.1-2 Social Indicators

	r Kenya	I	
Total Land Area(sq.km)	582,646		
2. Cultivable Area(ha)	3,826,000		
3. Ratio of Cultivable Area(%)	6.57	İ	
4. Irrigated Area(1998)(ha)	.  82,000	ì	
5. Ratio of Irrigated Area to Cultivable Areas (%) 6. No. of Provinces	2.14	1	
7, No. of Districts	8(including Nairobi)		
8. Forest Areas(sq.km)	1 60		
9. Afforestation Accumulated(ha)	155,500	<u>,</u>	
	130,000		
10. Per Capita GDP(1996)	309US\$		
11. Contribution to GDP by Agricultural Sector(1996)	25.0%	ļ	
12. Contribution to Exports by Horticultural Cros in Value(1996)	12.0%		
10.0		l	
13. Population 13.1 Population in 1994	00.400.500	Rural	Urban
13.2 Male population	26,423,580	22,292,892(84.4) 10,927,689(83.9)	4,130,668(15.6
13.3 Female Population		11,365,203(84.8)	2,096,289(16.1 2,034,378(15.2
14. Population Density(person/sg.km)	1 10,000,001		2,034,376(13.2
15. Annual Increase of Population(%)	3,42	***************************	-
16. Population Working in Agricultural Sector(1994)(%)	70.7		. F8
	1		
17. No. of Households(1,000)-1994	5,049	4,012	1,03
18. Average Family Size(1994)	5.20	5.60	4.0
19. Sex of Household Head(1994) 19.1 Male Head(%)	-L		
19.2 Female Head(%)	1 75.5	***** * * * * * * * * * * * * * * * *	81.
20. Ratio of Landless Households(1994)(%)	24.5		18.
The state of the s	20.8		-
21. No. of Farm Households	2,756,438	_	·········
of which, Smallholders	2,700,000		
Large Holders	56,438		_
22. Average Farm Size(ha/farm household)	2.5	-	<u>-</u>
23. Definishion of the Smallholders	holding less than 20h		
Medium Holders	tholding 20 to 50ha	-	
Large Holders	holding above 50ha		
24. Highest Education Level of Household Head(1994)			
24.1 Pre-school/Primary(%)	40.1	41.6	34.0
24.2 Secondary(%)	22.8		43.0
24.3 Scondary+(%)	4.2		11.
24.4 None(%)	31.1		9.
24.5 Not Stated(%)	1.8		2.
25. Occupation of Household Head(1994)	·		
25.1 Unpaid Family Worker(%) 25.2 Agriculture(%)	5.9	***************************************	3,
25.3 Skilled Worker(%)	46.5		
25.4 Unskilled Worker(%)	16.1	14.4	43.
25.5 Business Person(x)	10.7		26.
	10.7		22.
26. Monthly Household Income and Expenditure(1994)	t	l	
26.1 MonthlyHousehold Income(Ksh)	9,696	8,508	14,29
26.2 Monthly Household Expenditure(Keh)	7,393	6,365	. 11,37
26.3 Food Share in Total expenditure(%)	j 71.0	73.7	80.
27. Poverty Line(1994)	 	·	
27.1 Ksh/month.capita	<u> </u>	703	. 87
27.2 Ksh/year/capita 28. Poverty Incidence(%)	-	8,440	10,50
TO I VYOLI III III III III III III III III III		48.8	29.
29. Literacy Rate(1994)			······
29.1 Male(%)	76.6	71.6	94.
29.2 Female(%)	44.7		76.
30. Access to Safe Water(%)-1994	44.9	********** ****** ***************	93.
31. Access to Sanitation(%)-1994	80.4		97.
0.00	<u> </u>		
32.1 Primary School Frank-pot(1,000)(1,000)	 		
32.1 Primary School Enrolment(1,000)(1996) 32.2 Secondary Enrolment(1,000)	5,598		
32.3 Post Secondary Enrolment(1,000)	658		
TEST TO SOUTH TEST TO STATE TO	i 86		
33. Life expectancy	+		
33.1 Male	57.0		
33.2 Female	1 60		
OO.E.   OI   DETE			
33.3 Total	58		_
	58	125.6	97.

s.Statistical Abstract 1995
District Development Plans 1997–2001
Welfare Monitoring Survey II 1996
Population Dynamics of Kenya 1996
District Annual Reports 1996
Economic Survey 1997

Table K.1.1.1-3 Gross National Product

						(unit:million K.&)	(સ્
	1990	1991	1992	1993	1994	1995	1996
Factor Incomes A Non-Monetary Economy	421.68	458.45	491.89	522.45	560.86	602.14	649.70
B. 1. Remuneration of Employees	9 193 67	239134	2 800 90	3,390,91	4.607.63	5,635.99	6,283.89
Enterprises	11356	132.40	154.57	180.58	211.13	247.21	284.17
Private Households	1 286 44	1.481.51	1,717,33	2.045.12	2,469,44	2,863.50	2,950.48
Producers of Government Services	3 523 67	4 005 25	4.672.80	5,616.61	7,288.20	8,746.70	9,518.54
or a constant of the description)	480.52	545.97	658.42	716.69	764.86	814.00	936.10
2. Rental Surppus(including deperciation)	3 951 48	4 530.66	5.579.42	7,329.66	8,289.32	9,177.66	10,761.21
3. Other Operating Surplus (including depreciation)	7 955.67	9,081.88	10.910.64	13,662.96	16,342.38	18,738.36	21,215.85
Total Monetary Economy	8 377 35	9.540.33	11,402.53	14,185.41	16,903.24	19,205.79	21,865.55
otal Factors Incomes-GUP(at ractor cost)	1 399 14	1 522 22	182117	2,465.30	3,131,78	3,577.90	4,030.90
Add:Indirect laxes	0.10	0.06	0.05	0.07	1.06	1.02	0.00
Deduct:Subsidies	977636	11.062.49	13.223.65	16,680.64	20,033.96	22,782.67	25,896.45
GIUM at Market Prices	55.5	8 18	2.75	9.70	58.60	65.95	61.24
Add:ractor income from Abroad	514.50	636.80	627.42	1,218.99	1,153.72	991.58	791.84
Deductifactor income raid Aproad	10,296.40	10,433.87	12,598.98	14,571.35	18,938.30	21,857.04	25,165.85
Source.Economic Survey 1997(1992-1996) Statistical Abstract 1995(1990-1991)							

Table K.1.1.1-4 Gross Domestic Product (1992-1996)

526         583         682         720         77.1         81.9         81.4         843         285         305         31.4           21         29         30         62.8         68.0         720         77.1         81.9         81.4         843         29.5         30.5         31.4           40.7         48.9         5.1         5.1         5.1         5.1         5.15         77.5         77.1         81.9         81.4         84.3         29.5         30.5         31.4         40.7         22.6         23.4         22.6         23.4         22.6         23.4         22.6         23.4         22.6         23.4         30.5         34.9         36.2         30	1990 1981 1982	1983 1884* 1885* 18	1986#±
Figure 10   Forestry   Figure 10   Figure			
2.6         5.9         5.9         5.0         7.0         7.1         81.9         81.4         44.2         3.0<	4 10	7 75	*
21         2.9         3.0         3.3         3.4         4.2         4.8         5.1         5.6         1.5         2.4         2.4         2.4         2.4         2.4         2.5         2.5         3.4         3.0         3.4         3.0         3.4         3.0         3.4         3.0         3.4         3.0         3.4         3.0         3.4         3.0         3.4         3.0         3.4         3.0         3.4         3.0         3.4         3.0         3.4         3.0         3.2         3.2         3.2         3.2         3.2         3.2         3.2         3.2         3.0         3.2         3.2         3.2         3.2         3.0         3.0         3.2         3.2         3.2         3.0         3.0         3.2         3.2         3.2         3.0         3.2         3.2         3.2         3.2         3.0         3.2         3.2         3.2	2.20	} <b>.</b>	5 "
910 889 808 827 1014 1032 1049 1178 1216 882 715 729 447 445 441 1469 1531 864 800 8621 126 226 234 241 1823 1880 2189 245 2820 2816 800 8621 178 1216 8234 2234 2225 5609 8621 6497 2189 2234 2225 5609 8621 6497 2189 2234 2234 2235 2337 30160 4,1885 5,2921 5,7781 6,2330 1,1093 1,1525 1,1920 81.8 201 274 32.8 37.5 452 33.9 63.0 619 864 123 1,1093 1,1525 1,1920 1,120 8251 1874 12307 186 230 203.5	4.1	- ¦	ř
467 445 441 440 531 564 600 637 677 672 526 534 241 683 3487 3845 2189 2454 2920 2816 3062 3341 3705 929 929 984 897 3845 4217 4585 4919 5225 5609 8021 6491 2148 2234 2234 2236 5236 2337 3847 3847 3845 4217 4585 4919 5225 5609 8021 6491 2148 2234 2234 2234 2236 51902 201 274 3215 3317 30160 4,1985 52921 57781 62330 1,1093 1,1525 1,1920 201 274 3214 3218 323 303 303 303 303 305 303 305 303 305 201 201 201 201 201 201 201 201 201 201	72.9 74.4	77.8	< 1
182.3         189.0         218.9         245.4         222.0         281.6         309.2         334.1         370.5         92.9         96.4         987.1           348.7         384.5         421.7         458.5         491.9         522.5         560.9         962.1         960.7         223.4         223.6         223.6         223.6         223.6         223.6         223.6         223.6         223.6         223.6         223.6         115.2         1192.0         115.2         1192.0         115.2         1192.0         115.2         1192.0         113.2         42.7         182.0         110.0         115.2         1192.0         115.2         1192.0         115.2         1192.0         115.2         1192.0         110.0         115.2         113.2         42.7         110.0         115.2         113.2         42.7         115.0         115.0         115.2         115.2         113.4	24.1 24.9	28.8	Ñ
1,902.7   2,088.4   2,235.5   2,337.7   3,016.0   4,198.5   5,292.1   5,778.1   6,233.0   1,109.3   1,152.5   1,192.0     1,902.7   2,088.4   2,235.5   2,337.7   3,016.0   4,198.5   5,292.1   5,778.1   6,233.0   1,109.3   1,152.5   1,192.0     2,01.	7.101 7.88	114.2	Ç.
1,802,7         2,0884         2,235,5         2,337,7         3,016,0         4,188,5         5,292,1         5,778,1         6,233,0         1,109,3         1,152,5         1,192,0         40,6         42,7         20,1         27,4         32,6         37,5         42,2         38,5         38,0         43,7         38,2         38,7         38,2         38,1         38,2 <td>i</td> <td>247.4 254.4 263.1</td> <td>270.2</td>	i	247.4 254.4 263.1	270.2
1902.7   2.0884   2.2355   2.3377   3.016.0   4,168.5   5.292.1   5,778.1   6,233.0   1,109.3   1,152.5   1,192.0   20.1   27.4   31.1   140.4   168.1   190.5   203.5   223.8   36.5   40.6   42.7   20.1   27.4   31.1   140.4   168.1   190.5   35.2   36.2   37.1   10.2   10.6   11.3   13.4   13			
1,002,7   2,0884   2,235,5   2,337,7   3,016.0   4,188.5   5,292,1   5,778.1   6,233.0   1,109.3   1,152.5   1,192.5   1,192.7   1,192			
1902.7   2084   2235   2337.7   3016.0   41885   5.2827   5.7781   6.2430   1.0923   1.132.3   1.2427   1.2427   2.2432   2.243   2.	0000	1 1102	1 22
61.6 63.4 107.4 131.1 140.4 1681 1905 2035 2238 355 40.0 40.1 13.4 13.4 13.1 140.4 1681 1905 2035 2238 355 40.0 40.0 40.1 13.4 13.4 13.2 12.8 13.4 13.4 13.4 13.2 12.8 13.4 13.4 13.4 13.4 13.2 12.8 13.4 13.4 13.4 13.4 13.4 13.4 13.4 13.4	_	. 500	A S
20.1         27.4         32.6         37.5         45.2         53.9         61.9         68.4         12.3         12.8         13.4           15.7         18.6         23.0         28.0         30.3         35.2         35.1         10.2         10.6         11.3           15.7         18.6         28.4         32.4         1.48.7         1.230.7         1.48.8         1.98.2         879.0         12.7         131.4         134.3           25.6         64.0         76.4         92.1         100.3         1.26.8         164.1         181.1         208.0         38.5         38.5         43.7           712.0         826.1         94.6         1.06.3         1.28.9         1.51.6         1.71.3         134.3         1.34.3         1.34.3         1.34.3         1.34.4         1.28.0         1.51.6         1.71.3         1.34.3         43.7         1.28.0         1.51.6         1.71.3         1.34.3         43.7         1.34.4         1.34.3         38.5         43.7         1.28.0         1.51.6         1.71.3         1.34.3         1.34.3         1.38.2         2.01.3         1.34.3         38.5         43.7         1.34.3         38.5         43.7         1.28.0	46.1 46.2	0.0	<b>.</b>
15.7         18.6         23.0         28.0         30.3         35.2         35.7         36.2         37.1         10.2         10.6         11.3           753.0         855.4         887.4         1.187.4         1.230.7         1.489.7         1.807.8         1.945.6         2.282.2         502.8         532.5         560.3           57.6         824.0         78.4         92.1         103.3         128.9         164.1         20.0         131.4         134.3           772.0         829.1         947.6         1.133.4         1.517.1         1,820.7         2.400.8         3.236.0         41.44.8         436.5         460.0           433.7         518.0         598.2         681.9         908.7         981.9         1.283.0         1,713.8         234.0         241.1         249.7           50.18         598.2         681.9         908.7         981.9         1,263.0         1,713.8         234.0         241.1         249.7           50.18         598.2         681.9         908.7         1081.3         1,398.2         2,015.7         2,285.5         204.1         241.1         249.7           50.18         528.0         541.0         578.7         1,44	13.4 13.1		∴ ;
753.0 855.4 997.4 1,167.4 1,230.7 1,419.7 1,807.8 1,945.6 2,282.2 552.8 532.5 560.3 281.4 323.4 370.8 4,471.1 190.3 1,269.0 194.1 191.4 134.3 395.5 171.4 134.3 372.4 370.8 477.1 1,00.3 1,269.0 194.1 191.2 260.0 385.5 191.4 134.3 172.0 829.1 194.2 1240.2 4,144.8 493.3 455.5 465.0 433.7 518.0 598.2 681.9 908.7 477.2 4,00.8 32.38.0 4,144.8 493.3 455.5 465.0 433.7 518.0 598.2 681.0 908.7 477.8 1,289.0 1,515.6 1,713.8 234.0 241.1 2,49.7 256.6 393.2 395.5 264.0 241.1 2,49.7 256.0 2	11.3 12.0	<b>V</b> .	- ;
281.4 323.4 3788 477.1 579.6 655.2 742.8 799.2 879.0 121.7 131.4 134.3 57.6 64.0 78.4 92.1 100.3 128.9 184.1 191.1 208.0 345.5 38.5 45.7 468.0 73.7 578.0 128.9 184.1 191.1 208.0 345.5 345.5 468.0 43.7 518.0 599.2 881.9 970.7 2.400.8 3.238.0 4.144.8 439.3 45.5 468.0 43.7 518.0 599.2 881.9 970.7 2.400.8 3.238.0 4.144.8 439.3 45.5 468.0 43.7 518.0 599.2 881.9 1.283.0 1.515.6 1.713.8 234.0 241.1 249.7 240.7 2.285.5 2.846.2 291.3 313.1 333.2 246.0 -281.6 -282.5 -328.1 -643.0 -725.4 -14.10.1 -1.844.9 -2.245.0 -121.8 -122.1 220.6 229.4 135.9 228.0 575.7 6.540.0 7461.7 9033.7 11.407.3 13.990.2 15.827.7 11.946.0 3.000.8 31.490.0 3277.8 27.5 32.5 42.0 39.8 38.2 41.7 43.3 598.8 651.8 676.6 711.1 247.2 284.2 590.3 777.8 389.8 651.8 676.6 7711.1 590.9 114.4 134.8 148.1 171.9 215.6 210.5 246.0 234.7 599.9 14.4 134.8 148.1 171.9 215.6 216.5 226.9 234.7 599.9 14.4 134.8 148.1 171.9 215.6 216.5 226.5 234.7 599.7 14.4 134.8 148.1 171.9 215.6 216.5 226.5 234.7 599.7 14.4 134.8 148.1 172.3 2.075.0 2231.2 226.5 234.7 599.7 14.8 226.9 234.7 599.7 14.8 6.528.5 14.8 7.5 14	580.3 581.6	610.8	65
57.6         64.0         78.4         92.1         100.3         128.9         194.1         191.1         208.0         38.5         38.5         43.7           712.0         828.1         947.6         1,133.4         1,517.1         1,920.7         2,400.8         3,238.0         4,144.8         438.3         455.5         468.0           433.7         518.0         598.2         681.9         908.7         991.9         1,283.0         1,144.8         234.0         241.1         249.7           355.6         383.9         480.5         546.0         658.4         716.7         744.9         124.2         220.6         229.4           197.9         228.0         252.2         388.7         477.9         578.1         683.7         2146.2         220.6         229.4           246.0         -281.6         -262.5         -328.1         -643.0         -725.4         -1410.1         -1344.9         -22.45.0         127.8         136.9         136.9           246.0         -281.6         -243.0         -746.7         578.1         -1407.1         1,1944.9         -22.45.0         127.8         136.9         136.9         136.9         136.9         136.9         136.9	134.3 129.3	113.1	Ç
97.0         64.0         7.84         1.51.7         1.60.7         2.40.8         3.238.0         4.144.8         438.3         455.5         466.0           433.7         518.0         598.2         681.6         908.7         1.593.0         1.515.6         1.713.8         234.0         241.1         249.7           433.7         518.0         598.2         681.6         908.7         1.283.0         1.515.6         1.713.8         234.0         241.1         249.7           351.6         358.6         38.2         480.5         546.0         658.4         718.7         704.9         814.0         936.1         118.7         127.9         133.2         220.6         229.4         135.9         228.0         224.5         220.6         229.4         135.9         135.9         136.1         136.0         136.0         136.0         136.0         136.0         136.0         136.0         136.0         241.1         249.0         241.1         249.0         241.1         249.0         241.1         249.0         241.1         249.0         241.1         246.0         244.1         246.0         244.2         246.0         244.0         246.0         244.1         246.0         246.0	43.7 46.0	48.5	₹
1720   8281   3478   11314   12771   1386.2   2015.7   2285.5   2346.2   241.1   249.7   243.7   256.8   256	4680 4721	508.8	Š
433.7 518.0 598.2 681.9 908.7 991.9 1,203.0 1,513.0 1,713.0 224.0 221.1 333.2 255.6 393.9 480.5 546.0 658.4 716.7 784.9 814.0 936.1 212.2 220.6 229.4 197.9 228.0 251.5 228.0 251.5 222.2 368.7 716.7 784.9 814.0 936.1 212.2 220.6 229.4 197.9 228.0 251.5 222.2 368.7 716.7 784.9 814.0 936.1 12.2 220.6 229.4 135.9 228.0 251.5 222.2 368.7 7140.1 1,944.9 22.245.0 121.8 127.9 135.9 135.9 135.9 136.0 13.0 12.1 12.1 12.1 12.1 12.1 12.1 12.1 12	240.7	7.876	ã
501.8         594.8         896.7         865.4         1,091.3         1,398.2         2,015.7         2,285.5         2,846.2         291.3         313.1         333.2           355.6         393.9         480.5         546.0         658.4         718.7         784.9         814.0         936.1         212.2         220.6         229.4           197.9         228.0         251.5         228.2         388.7         477.9         578.1         693.7         211.8         127.8         127.9         135.9           246.0         -281.6         -262.5         -328.1         -643.0         -725.4         -1,410.1         -1,944.9         -2245.0         -171.8         127.8         136.1         -135.9         136.1         137.9         136.1         136.2         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.1         136.2         136.2         136.2         136.2         136.2         136.2         136.2         136.2         136.2         136.2         136.2         136.2         136.2         136.2         136.2         136.2 <td>7.40.1</td> <td></td> <td>,</td>	7.40.1		,
561.8         584.8         886.7         1.081.3         1.388.2         2.015.7         2.225.5         2.205.2         2.015.7         2.225.5         2.206.2         2.284.0         2.646.0         2.881.6         2.882.5         2.646.0         2.881.6         2.226.5         2.881.6         2.226.5         2.245.0         1.18.7         1.27.9         1.35.9         1.36.1         1.18.7         1.27.9         1.35.9         1.36.1         1.18.7         1.27.9         1.35.0         1.36.1         1.26.1         1.26.1         1.26.1         1.26.1         1.36.1	322 3525 3776	4200 4505	40
355.6         393.9         480.5         546.0         658.4         718.7         784.9         814.0         393.1         217.2         220.0         229.4           197.9         2280.         251.5         282.5         -388.1         -477.9         747.9         181.6         127.2         127.8         127.9         127.9         127.9         128.9         1	0.000 0.000 4.000	545 5857	
197.9   228.0   2515   222.2   368.7   477.9   578.1   683.7   818.6   119.7   127.9   135.9   126.0   2246.0   2245.0   2245.0   2245.0   2245.0   227.8   2327.8   2327.8   2327.2	ZZ#.4 Z53.3 Z5#.0	1657 1404 1590	7 6 6 6
246.0 -281.6 -282.5 -328.1 -643.0 -725.4 -1410.1 -1,644.9 -2,2245.0 -121.8 -121.1 -124.1 -134.0 -125.2 -138.1 -134.0 -125.4 -1410.1 -1,644.9 -2,2245.0 -121.8 -121.1 -124.1 -134.0 -3,000.8 -3,149.0 -3,277.8 -3,2	145.0	148.4	Ó
\$\( \text{5.048.0} \) \( \text{5.752.7} \) \( \text{6.544.0} \) \( 7.461.7 \) \( 9.033.7 \) \( 11.407.3 \) \( 13.908.2 \) \( 15.877.7 \) \( 17.996.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3.000.8 \) \( 3.748.0 \) \( 3	0.34.1 0.00.0 0.140.1	2,001 2,000	. !
211.4 270.2 317.1 380.0 443.3 588.8 651.8 676.6 711.1 247.2 284.2 55.3 62.4 70.5 27.5 32.5 42.0 39.8 38.2 41.7 43.3 50.8 65.5 60.1 371.8 380.0 443.3 588.8 651.8 676.6 711.1 144.1 34.8 148.1 171.8 215.6 210.5 245.8 24	3,2/1,6 3,329.0 3,324.1	C	31
838 97.5 1136 1324 1548 1906 211.1 24.12 284.2 35.3 92.4 70.5 13.8 13.8 13.8 13.8 13.8 13.8 13.8 13.8	900	1035	
2114 270.2 317.1 380.0 443.3 588.8 651.8 676.6 711.1 47.2 52.5 42.0 39.8 38.2 41.7 43.3 50.8 65.5 65.5 65.5 65.5 65.5 66.5 66.5 65.5 65.5 65.5 66.			) i
211.4 270.2 317.1 380.0 443.3 398.8 931.8 978.0 711.1 271.2 317.1 380.0 443.3 398.8 931.8 978.0 711.1 221.5 32.5 42.0 39.8 38.2 44.7 43.3 50.8 65.5 28.2 590.3 717.8 349.2 241.7 43.3 1.601.9 86.9 14.4 134.8 148.1 171.8 215.6 210.5 245.8 271.0 23.6 54.5 56.3 53.9 55.8 72.2 81.8 87.5 101.6 128.0 143.5 155.0 148.4 164.0 220.2 211.8 226.9 234.7 598.5 148.8 2.985.7 588.0 1143.2 1.2885.1 172.3 2.075.0 2.223.1 2.728.8 2.985.7 582.2 3.828.3 3.984.0 64.3 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13	1	1	
275 325 42.0 39.8 38.2 41.7 43.3 50.8 50.3 50.3 41.7 43.3 50.8 50.3 45.9 50.3 47.8 349.2 542.1 1.441.3 1.601.9 50.9 50.9 50.9 51.4 13.4 13.4 148.1 171.9 215.6 210.5 245.8 271.0 53.6 54.5 56.3 53.9 55.8 72.2 81.8 87.5 101.6 53.6 54.5 155.0 148.4 164.0 230.2 271.6 226.9 234.7 588.5 1.487.8 1.722.3 2.075.0 2.223.1 2.728.8 2.985.7 588.2 3.828.3 3.845.0 6.131.9 6.083.4 7.956.1 9.081.9 10.310.6 13.630.1 16.342.4 18.603.7 21.215.9 3.842.2 3.828.3 3.845.0 4.005.1 3.007.0 14.187.5 14.185.5 14.1856.5 13.857.0 4.053.1 4.223.6 3.823.8 3.823.8 3.8333.8 3.8333.8 3.833.8 3.8333.8 3.8333.8 3.8333.8 3.8333.8 3.8333.8 3.8333.8 3.8333.8 3.8333.8 3.8333.8 3.	1	1	
479.6 528.2 590.3 77.28 549.2 450.5 1,441.3 1,501.3 1,44 134.8 148.1 171.9 215.6 210.5 245.8 271.0 144 134.8 148.1 171.9 215.6 210.5 245.8 271.0 143.5 155.0 148.4 164.0 230.2 211.8 228.9 234.7 155.0 148.4 164.0 230.2 211.8 228.9 234.7 589.5 1,487.8 1,722.3 2075.0 2,223.1 2,728.8 2,895.7 589.2 618.4 645.7 613.9 13.9 6,934.9 6,031.9 6	1	1	
96.9 114.4 134.8 148.1 171.9 215.6 210.5 245.8 271.0 53.6 54.5 56.3 53.9 55.8 72.2 81.8 87.5 101.6 128.0 143.5 155.0 148.4 164.0 230.2 211.6 226.9 234.7 898.0 1,143.2 1,298.5 1,487.8 1,722.3 2075.0 2,223.1 2,728.8 2,895.7 568.2 918.4 945.7 6,131.9 9,983.4 7,956.1 9,081.9 10,910.6 13,683.0 16,342.4 18,603.7 21,215.9 3,842.2 3,828.8 3,894.0 4,503.1 4,278 6,403.7 31,41,874.1 18,933.7 19,205.8 21,895.6 3,877.0 4,053.1 4,223.6	1	1	
53.6 54.5 59.3 53.9 55.8 72.2 81.8 87.5 101.0 128.0 143.5 155.0 148.4 169.0 230.2 211.6 226.9 234.7 89.60 1,143.2 1,298.5 1,487.8 1,722.3 2,075.0 2,223.1 2,728.8 2,895.7 569.2 818.4 645.7 6,131.9 6,983.4 7,956.1 9,081.9 10,910.6 13,683.0 16,342.4 18,603.7 21,215.9 3,842.2 3,828.8 3,894.0 4,600.7 10.7 8 17.8 0,400.4 114,70.5 14,18,673.1 9,205.8 21,895.6 3,877.0 4,053.1 4,223.6	1	,	
129.0 143.5 155.0 148.4 164.0 230.2 211.8 226.9 234.7   143.2 1,288.5 1,487.8 1,722.3 2,075.0 2,223.1 2,728.8 2,895.7 569.2 618.4 645.7 61.81.9 6,985.1 9,081.9 10,910.6 13,693.0 16,342.4 18,603.7 21,215.9 3,642.2 3,828.8 3,984.0   4,000.0 1,000.0			
988.0 1143.2 1,288.5 1,487.8 1,722.3 2,075.0 2,223.1 2,728.8 2,895.7 5,892.4 188.4 545.7 6,893.7 5,893	* 400	1	Ė
6,131,9 6,683.4 7,956.1 9,081,9 10,910.6 13,683.0 16,342.4 18,603.7 21,215.9 3,642.2 3,828.8 3,894.0 4,643.1 4,223.6 4,640.2 3,824,0 3,825,0 3	640.7 668.1 660.4	2017	3 5
	3,894.0 4,077.0 4,094.8 4	- 1.125,4 - 2.220,4 - 4.421,1 -	1.000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4,223,6 4,311,5 4,332,2	0.474	}¦8
25.24 26.00 26.76 27.52 28.27	25.24	56.76	ų į
289.5 344.6 378.1 416.7 451.76 549.59 631.66 697.88 773.45 172.27 189.04 190.63	190.63 188.31 171.64	167.21	2

Table K.1.1.1-5 Growth of Gross Domestic Product (1992-1996)

(unit: %)

	-									Const	Constant (1982) Pr		ļ	
		00-1001-00	1002-03	- I	1993-94* 199	94-95*	1995-96**	1990-91 18	1891-92 19	992-93 199	199384* 199-	994-95* 1985-8	-96** 1892-1	1996*etek
	200	1001 10	Į	1	1							,	,	ç
A NON-MONETARY ECONOMY				c	c	5	80		2.7	2.6	1.7	3.2	9:	5.3
Forestry				4.5	10	Š	0	i 4	-8.7	-4.8	4	4.0	4.0	2.8
				S . S	0.0	† c	i c		*	1.2	2,0	.3	€.	<u>۔</u> ئ
TOTAL STATE OF THE STATE OF	_			1.7	1.7	12.3	7.0	410			41	4.2	1.6	2.6
		•		6.2	6.5	6.2	e i	m (	0 4	) F		47	42	5.1
	_			7.5	8.8	8.7	10.9	7	9.0	0 0	9 6	÷ «		e e
Ownership of Dwellings		8.7	5.5	6.2	4.	7.4	6.	2.1	7.7	<b>4</b> .	o Vi	ţ	i	;
Company of the part of the par														
B. MONETARY ECONOMY													;	,
			,	9.6	27.0	8.2	7.9	-1.1	-3.7	7	2.8	8.4	4 (	- t
Agriculture		÷ 6	- g	5.0	, e.	9	10.0	8.4	4.2	10.3	8.8	5.1	0,5	, c
Forestry			D 14	9 6	9	-1.7	10.4	-2.2	-6.9	2.9	4.0	<b>4</b> .	<b>4</b> , 0	α (c
Fighing				2 5			4	6.4	-80	5.0	9.	7.7	2.5	2.2
Mining and Quarrying	~~		20 -	2.0	- 10	, t	17.3	. 00 . cr	1.2	8	6,	3.9	3.7	2.8
Manufacturing	· 		4,0	# C	7		100	4	15.55	-8.7	<del>ر</del>	3.8	က က	9.5
Building and Construction			3.2	13.0	4.5	0 0	9 0	- ი : დ	, or	80	2.2	1.6	3,1	1.9
			9.0	26.5	28.3	0.01	0 6	3 6	e u	5.0	œ	8.8	8.0	5.7
Figure 1 Description Hotels			3.9	26.6	25.0	34.8	787	; c	3 -	i c		4	0,4	ب ب
Tribde, Adetains assure, Totals			13.3	9.5	27.3	20.0	13.1	e e	?:	o S	2	!	!	
Transport, Gtorage and Constitutions				•					;	1		ď	7.7	67
Finance, insurance, Keel Estate and			25	28.3	44.2	13.9	15.3	Ġ	6.9	.2	5	n d	- 6	) -
Business Services	_		3 2	o o	6.7	6.4	15.0	5	1.6	0.5	Ċ.	3.6	e c	- c
Ownership of Dwellings		•	 		0 10	20.0	18.0	જ જ	2.4	0.8	5.6 6.	6.3	0.0 0.0	יי יי
Other Services	_	-	7.0.	10.8	944	37.9	15.4			10.1	8.2	ໝູ່ ເກົ	N C	
Less imputed Bank service charges	-,-		ď	26.3	21.9	12.4	14.8	1.6	-0.2	۲. ۲.	3.2	ر 4 ر	200	3 6
Sub-Total			9 6	8 9	189	17.1	15.0		8.9	10.9	8.3	11.2	o n	2
2. Private households (Domestic Services)			è	2	9									
3. Producers of Government Services	_		. 9	20.5	144	3.8	, io			ı	1	ı	t	1
Public Administration			3 -	3 0	ď	17.3	29.0	-		1	ı	1	ı	I
Defense	_		- 6	1 5. A	8	40.7	11.1			ı	ı	1	ı	1
Education		٠	2 4	- 0	, <b>5</b>	484	10.3			1	١	ı	ı	
Health			- 6	4.00	t e	ď	18.2			ı	ı	ı	1	ı
April of the Services			ים:	5.6	9.0	9 6				ı	1	ι	•	ι
Other Services	_		10.5	40.4	, i	3 6	5 6	Ç.	7.0	2.1		89		£.
25 C C C C C C C C C C C C C C C C C C C			15.B	20.5	۲.,	27.0	100	. c	† <del>4</del>	ic	3,0	<b>0</b>	4.7	3.2
			15.4	25.2	18.6	33.8	0.47	40	† 4 5 ¢	3 6	6	8.4	4.6	3.2
TOTAL MONETARY ECONOMY AND MONETARY ECON	<b>Ξ</b>	13.0	ŧ5	24.4	19.2	3.6	13.9	7.	٥ ۾ ا	, c	3 5	o o	8.	0.3
ADOREST DECOMES CAPITA			11.2	20.8	15.8	10.5	S.S.		6.0	,				
GRUSS DVINCTIVATION OF THE PROPERTY OF THE PRO			1											

\* Revised.
\*\* Provisional.
\*\*et Cumulative.
Source.Statistical Abstract 1995(1990–1992)
Economic Survey 1997(1992–1996)

Table K.1.1.1-6 Sectoral Share of GDP at 1982 Constant Prices

0.8 0.7 0.7 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1200 0001 7001		
Forestry Fishing Building and Construction Water Collection Ownership of Deellings  Jordan Non-Wolf ARY ECONOMY  I. Enterprises and Non-Profit Institutions Agriculture Fishing Mining and Quarrying Building and Construction Transport, Storage and Communications Transport, Storage and Communications Transport, Storage and Communications Business Services Ownership of Deellings Ownership of Owellings Ownership of		•	(
Fishing   Puildings and Construction   1.8   1.8   1.7   1	o ·	<i>5</i>	
Water Collection   1.8   1.8   1.7   1.7   1.7	0	ာ် ၁	
Water Collection         0.6	7	7 1.	<u>-</u> -
MONETARY ECONOMY  1. Enterprises and Non-Profit Institutions  3. Electricity and Guarrying  Mining and Guarrying  Mining and Guarrying  Mining and Construction  Electricity and Water  Trade, Restaurants, Hotels  Transport, Storage and Communications  Electricity and Water  Transport, Storage and Communications  Electricity and Mater  Transport, Storage and Communications  Electricity and Mater  Transport, Storage and Communications  Electricity and Mater  Transport, Storage and Communications  Electricity and Water  Transport, Storage and Communications  Transport, Storage and Communications  Electricity and Water  Transport, Storage and Communications  Transport, Storage and Communications  Electricity and Water  Transport, Storage and Communications  Transport, Storage	6 0.	0.	ö
Moneration of Dwellings	7	6.2	2
NomeTARY ECONOMY   Economy	<del>ري</del> ري	5.7 5.6	5.5
Agriculture  Agriculture  Agriculture  Forestry  Forestry  Fishing  Mining and Guarrying  Mining and Construction  Finance. Insurance. Real Estate and Finance. Insurance. Real Estate and Guarrying Suchers Services  Other Services  Public Administration  Defense  Education  Harden Services  Public Services  Public Services  Defense  Education  Forestry  1.0 1.0 1.0 1.1 1.0  1.1 1.1 1.0  1.1 1.3 13.3 13.5 13.6 13.6  1.2 1.3 13.1 13.3 13.5 13.6  1.3 13.1 13.3 13.5 13.6  1.4 1.5 1.7 7.9 8.2 8.7  1.4 1.5 1.7 1.8 2.0			
28.8 28.4 28.2 27.3 26.2  1.0 1.0 1.0 1.1 1.1  0.3 0.3 0.3 0.3 0.3 0.3  ng donstruction 1.0 1.0 1.0 1.1  1.0 1.0 1.0 1.0 1.0  and Water 1.0 1.0 1.0 1.1 1.1  Storage and Communications 11.30 11.20 11.00 10.90 11.1  surrance, Real Estate and 7.6 7.7 7.9 8.2 8.7  for Dwellings 6.1 5.9 5.5 5.5 5.5 5.5  ces 3.1 3.2 3.2 3.2 3.3  Bank Service Charges 77.8 77.6 77.5 77.3 76.7  nistration 1.1 1.2 1.1 1.1 1.1 1.1  services 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3			
Guarrying	25. 1	25.	22.
Guarrying  Guarrying  Rug  Guarrying  Rug  Guarrying  Rug  Rug  Guarrying  Rug  Rug  Guarrying  Rug  Rug  Guarrying  Rug  Rug  Rug  Rug  Rug  Rug  Rug  R	1.2	Ļ.	1.3
Guarrying  ng  ng  ng  ng  ng  ng  ng  ng  ng	0.3	0.3 0.3	ö
### 13. 13. 13. 13. 13. 13. 13. 13. 13. 13.	0.3	Ö	0
Mark   1.0   1.0   1.0   1.1   1.0   1.0   1.0   1.0   1.1   1.0   1.0   1.0   1.0   1.1   1.0   1.0   1.0   1.0   1.1   1.0   1.0   1.0   1.0   1.1   1.0   1.0   1.0   1.0   1.1   1.0   1.0   1.0   1.0   1.0   1.1   1.0   1.0   1.0   1.0   1.0   1.1   1.1   1.0   1.0   1.0   1.0   1.0   1.1   1.0   1.0   1.0   1.0   1.1   1.0   1.1   1.0   1.0   1.0   1.1   1.0   1.1   1.0   1.0   1.1   1.0   1.0   1.1   1.0   1.1   1.0   1.0   1.0   1.1   1.0	13.8	13.	13.4
d construction	2.6	2	2
aurants, Hotels  Storage and Communications  Total Diversity  Tot	· -	<del></del>	-
Storage and Communications 6.1 5.9 5.9 6.0 6.1 Storage and Communications 6.1 5.9 5.9 6.0 6.1 surfance, Real Estate and 7.6 7.7 7.9 8.2 8.7 fowellings 5.5 5.5 5.4 5.5 5.5 5.5 6.8 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3	11.0	<del></del>	-
Storage and Communications         6.1         3.9         3.9         3.9         3.9         3.1         3.1         3.2         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.3         3.2         3.3         3.2         3.3         3.2         3.3         3.2 </td <td>· ·</td> <td>. "</td> <td></td>	· ·	. "	
surance, Real Estate and 7.6 7.7 7.9 8.2 8.7 6.5 5.5 5.5 5.4 5.5 5.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	- · ·		5
iervices       7.6       7.7       7.9       8.2       8.7         of Dwellings       5.5       5.5       5.4       5.5       5.5         ces       3.1       3.2       3.2       3.3       3.3         Bank Service Charges       -3.2       -3.2       -3.2       -3.2       -3.2       -3.3         overnment Services       1.4       1.5       1.7       1.8       2.0         nistration       -       -       -       -       -         il services       -       -       -       -       -         coss       -       -       -       -       -       -			Ç
65.5 5.5 5.4 5.5 5.5 5.5 5.5 5.5 5.5 5.5	ر ا رو ا		<u>.</u>
Bank Service Charges 3.1 3.2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3	5.5	5.4 5.5	ο. Ο.
Bank Service Charges	3 3.4		က်
77.8 77.6 77.3 76.7 olds (Domestic Services) 1.4 1.5 1.7 1.8 2.0 overnment Services	3 -3.6		ဂု
olds (Domestic Services) 1.4 1.5 1.7 1.8 2.0 overnment Services	7 76.0		77.0
overnment Services  overnment Services  nistration  istration  ist	0 2.2		2.5
Producers of Government Services  Public Administration  Defense  Education  Health  Agricultural services  Other Services	 		
nistration			
8 Services			
3 S6rvices (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		j i	
38 SGTVICOS	1	I I	
1 1 5900	1	1	
	1	f	1
15.2 15.3 15.5 15.8	8 16.1	15.9 15.4	15.0
94 4 94 5 94 6 94 5	5 94.3	94.3 94.4	94.5
2. Nor-Monatary Foonomy 100,0 100,0 100,0 100.0 100.0 1	0 100.0 1	100.0 100.0	100

K-6

Table K.1.1.1-7 Production Accounts, 1995-1996

									1006		
				1995					1	C	44
•		Gross	Inter	Gross L	Gross Domestic Product	oduct	Gross	Inter	Gross D	Domestic Product	oduct
		*********	madiate		(at Factor Cost)	Sost)	Output	mediate	")	at Factor (	Cost)
		at approx.	Con		Labour	ting	at approx.	Oon-			
			sumption		Costs	Surbins'''	Basic	sumption			Uperating Surplus'''
		Prices*		Tota			Prices*		lotai	1	or bine
¥	NON-MONETARY ECONOMY	745.25	143, 11	602.14	5, 25	596, 89	826.97	177.27	649. 70	5. 48	544. 22
œi	MONETARY ECONOMY					-	-				-
	and Non-Frotic II	6.367.00	588, 88	5, 778, 12	444, 02	5, 334, 10	6, 778. 60	545. 60	6, 233, 00	579.94	5, 653, 06
٠	Agriculture				121.77	81 77	254.85	31.00			84. 70
	Torestry	86.25		61.93	16.12	45.81	72.34	3.97			50. 28
		119 05	82 84	36, 21	18.80	17.41	123, 55	86. 49	37. 06		17. 70
	Mining and Guarry ing	16 431 39	14 485	1, 945, 55	763, 78	1, 181, 77	21, 096. 71	18, 814, 48			1, 324, 13
	#anutactur,nmg			•	595, 95	203, 23	1, 717, 91	838.89			263. 71
	Building and Construction	657.53			161.40	29. 73	715, 73	507, 72	208. 01	154, 28	
	Flectricity and mater	7 391 00	4	3, 238, 00	1, 775, 09	1, 462, 91	8, 499, 65	4, 354, 89		1, 826, 76	
	Transport Storage and Communications	3, 035, 78	<del>-</del>	1, 515, 64	456.10	1,059.54	3, 425. 54	1, 711, 70	1, 713.84	504. 16	1, 209, 68
	Finance, Insurance, Real Estate								40	000	1 742 83
	and Business Services	2, 992, 00	•	2, 295.	831, 85	463.67	3, 446, 34	800.18	90.00	902.33	0.36.0
	Ownership of Deel lings	901, 14	87.14	814	o 0	814.00	1, 031, 10	-936.10	930, 10	3 5	9000
	0+11+1 C+12-12-13-13-13-13-13-13-13-13-13-13-13-13-13-	1, 944, 91	1, 251, 18	693. 73	451.11	242. 62	1, 771, 47	952. 87	2 1	266. 4	200
	Constituted Bank Service Charges	-1, 944, 90	9	Ť	0.0		2, 245, 03	Ó	245	<u>خ</u> د	9 6
	TOTAL	43, 671, 82	28, 044, 17	15, 627. 65	5, 635, 99	9, 991. 66	51, 178. 82	82 33, 232, 85	17, 945, 97	b, 283. 09	
	2. Private Household (Domestic Services)	247.11	0.00	247. 21	247.21	o 0		00.00	284. 17	284. 17	0.00
	3 Producers of Government Services	4, 015, 15	1, 286. 36	2, 728. 79	2, 863, 50	-134, 71	4, 404, 57	1, 418.86	2, 985. 71	2, 950, 48	35, 23
	Total Monetary Economy	47, 934, 08	29, 330, 43	8	8, 746.				215.	9, 518, 54	11, 697, 31
	Total Monetary & Non-Monetary Economy	48, 679, 33	29, 473, 54	19, 205, 79	8, 751, 95	10, 453, 84	59, 694.	52 34, 828, 98	21, 865, 55	9, 324, 041	
5	Source Foonomic Survey 1997										

Table K.1.1.1-8 Inflation Trends

							=100)
Year		Average	<u>Annual</u>	Inflation	Rate (%)	Coeff	icient
1972		18. 93		_			
1973		20, 66				14	
1974		24. 18			17.	04	
1975		28. 79			19.		
1976		31. 88			. 10.	73	
1977		36, 37			14.	08	
1978		41. 99			15.	45	
1979		45, 25			7.	76	
1980		51. 31			13.	39	
1981		57. 53			12.	12	
1982		69. 92			21.	54	•
1983		78. 52	,		12.	30	
1984		86. 28			9.	88	
1985		97. 16			12.	61	
1986		101.76			4.	73	3, 95
1987		110, 62			. 8.	71	3. 63
1988		124. 28			12.	35	3, 23
1989		141.00			13.	45	2.85
1990		163, 11				68	2.46
1991		195. 12			19.	62	2.06
1992		248. 44			27.	33	1. 62
1993		362. 72			46.		1.11
1994		319, 99			28.		1. 26
1995		325. 11				60	1. 24
1996		354. 37				00	1.13
1997		401.93				42	1.00
Carres	A Land	D	4 01	1007 1000			

Source National Development Plan 1994-1996 Fact Book 1997/98

Table K.1.1.1-9 Average Retail Prices in Nairobi

	Unit	1991	1992	1993	1994	1995
Bread, white	0.5kg loaf	6.42	7. 12	13.71	15.00	15.17
Wheat flour	2kg	21.97	26. 99	53.67	52.71	51.08
Maize flour	kg	5. 92	11. 25	13.88		]15.96
Maize grain	kg	6. 29	8. 54	12. 25	17.40	12.58
Millet flour	kg	12.38	15.41	17.67	28.42	30.86
Rice, grade II	kg	16. 23	21.33	29.94	31.17	33. 21
Dry beans	kg	13, 25	14.90	23, 54	37.38	31.88
Green grams	kg	17.71	24.83	31. 17	57.88	42.72
Beef with bones	kg	40.00	46.66	68.75	98.33	106. 67
Offals-Matumbo	kg	26.00	27. 33	40. 17	65.09	70. 29
Milk	0.5 lit.	4. 10	6. 18	9.08	13. 25	13. 67
Eggs	dozen	24.00	31, 83	48. 10	60.35	64. 23
Cooking oil	500 g	14. 18	18.94	44. 08	46. 13	51.31
Ghee	500 g	14, 18	18.94	44. 17	46. 82	52. 36
Margarine	500 g	18. 79	27. 54	50, 49		65. 76
Salt	kg	4. 15	5. 26	12. 25	14. 79	14. 92
Coffee	34 g	3.04	3.50	3. 88	5. 62	7.88
Tea leaves	100 g	6. 24	9.37	18. 29	20.68	20, 88
Sugar, refined	kg	13.65	21. 13	32.38	42.21	40, 50
Cabbage	kg	6.76	8.79	12.42	14 18	15. 96
Kales	kg	7.91	7.76	16.92	8.51	12.42
Carrots	kg	16, 60	14. 29	15.67	23 27	16, 17
Onions	kg	8.82	15.83	16.67	37.86	22.50
Tomatoes	kg	16.85	12.00	22, 92	26.37	27. 60
Cooking bananas	dozen	5. 73	9.51	21.67	29. 72	31.00
Ripe bananas	dozen	11.80	13, 75	29. 75	42.98	38. 48
Beer	0.5 lit.	13. 10	14. 42	24, 60	33. 25	36. 17
Cigarettes	pkt.	17.00	19.83	31.50	40.00	40.00
Kerosene	lit.	7. 96	9. 38	15. 16	17. 13	17.04
Matches	box	1. 22	1. 42	2. 02	2.58	3.00
Bed linen	pair	310. 42	339. 75	386. 91	451.29	517.50
Bath towel	each	195.83	145.00	223. 12	287.71	347.67
Source. Statistica	Abstract 19				201.11	VT1. VI

Source, Statistical Abstract 1995

Table K.1.1.1-10 Foreign Exchange Rate of Kenya Shilling

Mean Rate in Kenya Shillings 31st Dec. 31st Dec. 31st Dec. 31st Dec. 31st Dec. 31st Dec. 1991 1992 1993 1994 1995 1996 Currency 44. 8390 55. 9390 55. 0211 28.0740 36, 2160 68, 1630 1 US Dollar 86.5590 93, 0495 52, 4280 54, 7050 100, 9160 69.9490 1 Pound Sterling 35, 3431 39, 2980 28.8890 38. 9300 1 Deutsche Mark 18. 4860 22, 3810 8.3730 11, 4070 10.5053 5.4100 6.5680 11.5670 1 French Franc 48, 5040 40.8195 24.7210 46.0560 34. 1350 1 Swiss Franc 20, 7110 31.5221 25. 7780 34. 7650 1 Dutch Guilder 16, 4010 19.9240 35. 1270 6.0300 8.3910 7.9967 5.0600 5. 1240 8. 1930 1 Swedish Kroner 8,8160 8.5385 4.6970 5.2350 9.0710 6.6010 1 Norwegian Kroner 1 Zambian Kwacha\*\* 0.3140 0.1020 0.1030 0.0650 2.6270 3.1910 5.5940 4. 1150 5.5430 5.0433 1 Austrian Schilling 1.0900 1.4080 1.8950 1.7239 0.8970 1.8990 1 Belgian Franc 7, 3660 10.0710 9.1951 4, 7520 5.7930 10,0770 1 Danish Kronor 28. 5530 41,0900 24. 2460 51, 3080 31, 9310 1 Canadian Dollar 11.8523 11,7800 9, 4470 12, 8130 6.7880 6.9230 1 Finish Marka 34, 5420 43, 8243 46.1740 21.3310 24.9710 1 Australian Dollar 54, 3800 47, 3897 44. 9530 29.0660 60.9140 100 Japanese Yen 22. 3520 3.5480 3,6003 2.7660 2.4550 3.9880 100 Italian Lira 2.4410 1.6090 1.5391 2.1730 1.4340 1 Indian Rupee 1.0850 1.3990 1.3818 1.3970 1.4420 1 Pakistan Rupee 14.6910 15.3710 25.8500 18, 1700 100 Burundi Francs\*\* 1.2211 23, 4360 24, 7600 46.7400 32.3200 100 Rwanda Francs\*\* Overall Weighted Index\* 314, 6000 600, 0000 419, 8300 551, 5600 510.7150 1982=100 282, 1000

Table K.1.1.1-11 Projected Growth Rates for GDP and Sector Share (1997-2001)

	Projected Rate 1997				Projected Share 200	Sector
Agriculture		4.40		27. 90		26, 00
Industry	+ 1	7.86		16.50		18.00
Services, Private		6.00		38. 60		38. 80
Public Services		6. 20		17. 00		17. 20
GDP	· · · · · · · · · · · · · · · · · · ·	5.90	<u>                                     </u>	100.00	!	100.00
Source National D	evelopment	Plan 19	97-2001			

<sup>\*</sup> Trade weighted Fisher's ideal index.

<sup>\*\*</sup> P. T. A. Exchange Rates (Zambia, Rwanda and Burundi). Source Economic Survey 1997

## K. 1. 2 STATE BUDGET

Table K.1.1.2-1 Government Accounts

	1990/91	1991/92	(unit:1,000 l 1992/93	K. pound) 1993/94
Revenue	1000/01	.00.,02		
Revenue Recurrent Account Development Account Total	1, 928, 189	2, 878, 787	5, 421, 427	5, 272, 101
	883, 586	1, 279, 798	1,841,806	3, 275, 706
•	2, 811, 775	4, 158, 585	7, 263, 233	8, 547, 807
Expenditure				
Recurrent Account	3, 062, 909	3, 642, 253	5, 122, 352	7, 831, 398
Development Account	475, 176	329, 546	473, 833	5 <del>6</del> 3, 312
Total	3, 538, 085	3, 971, 799	5, 596, 185	8, 394, 710
Surplus/Deficit		186, 786	1, 667, 048	153, 097
Source. Statistical Abstra	ict 1995			

Table K.1.1.2-2 Central Government Out-Turn of Revenue and Expenditure

						Change(%)
•			(unit:K <b>&amp;</b> mi	llion)		(1992/93-
	1992/93	1993/94	1994/95	1995/96	1996/97	1996/97)
Current revenue	3,454.71	5,039.37	6,067.82	7,181.84	7,441.42	115.40
Current expenditure	3,884.17	5,921.64	5,888.84	6,7,45.53	7,404.05	90.62
Current surplus	-429.46	-873.27	208.98	436.31	37.37	~108.70
Capital revenue	21.37	12.31	38.62	29.02	5.02	-76.51
Capital expenditure	423.71	566.67	715.17	890.36	1,052.63	148.43
Net lending	76.28	35.90	29.52	-209.71	133.36	74.83
External grants	440.40	458.15	661.45	450.05	787.15	78.74
Overall deficit	-467.68	-1,005.38	164.36	234.73	-356.45	-23.78
Financing deficit:				•		
External loans(net)	318.00	-56.75	=106.50	86.30	136.60	-57.04
Total domestic borrowing	751.70	1,212.35	401.90	-113.55	88.30	-88.25
Long-term(net)	66.05	-168.80	-376.70	-355.10	-19.75	-129.90
Short-term(net)	685.70	1,380.95	778.60	241.55	108.05	-84.24
Changes in cash balances:						
Increase=(-)	-602.02	-150.20	-459.76	-207.48	131.55	-121.85
Memorandum items:						
Public debt redemption	1,672.45	2,461.34	1,579.62	1,463.46	1,453.06	-13.12
(a) External	269.56	1,018.70		=		
(b) Internal	1,402.89	1,442.64		503.13		· · ·
Source.Economic Survey 1997	7					

Table K.1.1.2-3 Balance of Payment

		1994			1995			1996	
	Debits/	Credits/		Debits/	Credits/		Debits/	Credits/	
	Asetts	Liabilities	Net	Asetts	Liabilities	Net	Asetts	Liabilities	Net
A. Current Account								5 000 00 D	1.510.40
1. Merchandise(FOB)	4,936.21	4,150.89 Da		6,787.22	4,822.42 Dr		7,335.32	5,822.92 Dr	
2. Shipment	790.25	152,49 Dr		1,086.59	295.73 Dr		1,174.33	262.55 Dr	
3. Other transportation	279.59	670.62	391.03	298.38	635.10	338.72	298.84	770.21	471.37
4. Foreign travel	319.03	1,404.80	1,085.77	372.43	1,249.64	877.21	477.13	1,279.65	802.52
5. International investment income	1,075.01	58,60 D	r 1,016.41	901.38	65.95 Dr		691.72	61.24 Dr	
6. Other goods, services & income:government	241.33	848.12	606.79	298.94	415.66	116.72	314.18	394.29	80.11
7. Other goods, services & income:private	294,36	184.32	110.04	266.51	211.27 Dr		258.81	148.94 Dr	
8. Unrequited transfers-government	7.03	351.52	344.49	5.81	238,92	233.11	4.67	370.30	365.63
9. Unrequited transfers-private	171.12	583.63	412.51	112.29	1,162.00	1,049.71	12.04	1,247.76	1,235.72
Total	8.113.93		291,06	1,012.55	9,096.69 Dr	1,030.86	10,587.04	10,355.88 Da	211.18
of which, Visible balance	4,936,21	,	r 785.32	6.787.22	4,822.42 Dr	1964.80	7,335.32	5,822.92 Dr	1512.40
Invisible balance	3,177.72		1,076.38	3,340.33	4,274.27	933.94	3,231,72	4,532.94	1,301.22
B, Capital Account									
10, Government long-term		Dr 317.49 D	317.49	904.66	889.90 Dr	14.76	1,039.93		14.27
11. Private long-term	0.17	Dr 120.47 D	r 120.64	149.64	129.22 Da	20.42	128.81	112.08 Di	
12. Parastatals long-term		Dr 285.85 D	r 285.85	298.51	151.40 Di	147.11	251.29		
13. Short-term		688.70	688.70	0.00	819.70	819.70	0.00	1,865.87	1,865.87
Total	0.17	Dr 35.11	35.28	1,352.81	1,990.22	637.41	1,420,03	3,102,30 D	
C. Errors and Omissions			9.05			24.54			1,163.02
D. Overali Balance			264.83		Di	r 368.91			
E. Monetary Movement								_	
14. Change in reserves	448.6	7	r 448.67	cr 420.53	l .	420.53	1,081.52		r 1,081.52
15. Transactions with IMF		46.64	46.64		Dr 93.72 D			119.37 D	
16. Change in other fiablities		137.20	137.20		42.10	42.10		37.87	37.87
Total Monetary Movements	448.6	7 183,84 D	r 264.83	or 420.53	51.62	368.91	1,081.52	81.50 D	r 1,163.02
Source Economic Survey 1997						-			

## Change in Balance of Payments Magnitudes

	1994	1995	1996
1, Exports(FOB)	712.57	671.53	1,000.50
2. Imports(FOB)	607.05	1,851.01	548.10
3. Services(net)	-160.18	-668.26	48.75
4. Transfers(net)	57.90	525.82	318.53
5. Change on current account	3.24	-1,321.92	819.68
6. Private long-term capital(net)	95.00	100.22	3.69
7. Public long-term capital(net)	-759.53	441.47	-5.00
8. Change on basic balance(net balance on line 5-7)	851.29	-780.23	818.37
9. Short term capital, errors and omissions(net)	167.98	135.55	724.50
10. Net change on all above items(monetary movement	s -1,019.27	-633.74	1,531.93

Table K.1.1.2-4 Gross Receipts on Recurrent Account of Central Government

				(K	a€million)
	1992/93	1993/94	1994/95	1995/96**	1996/97+
DIRECT TAXATION					
Income Tax	998. 52	1, 838, 36	2, 175. 29	2, 404. 12	2, 324. 88
Other	-	-	_	_	
Sub-Total	998. 52	1,838.36	2, 175. 29	2,404.12	2, 324. 88
INDIRECT TAXATION					
Sales Tax/VAT on Domestic Manufactures	406. 54	651.24			737. 23
Sales Tax/VAT on imports	700.60	798, 48			786. 09
Import Duties***	459. 15	739. 64			-
Excise Duties	418. 35	556. 27	966. 61	1, 130. 59	1, 297. 40
Export Duties	0. 22	0. 30			· -
Trading Licences	11. 28	11.01	18. 83		28. 65
Licences and Fees Under Traffic Act	16, 26	19. 53	21. 30		44. 30
Other Taxes, Licences and Duties	59. 78				76. 94
Sub-Total	2, 072. 18	2, 865. 85	3, 230. 24	3, 733. 15	4, 145. 91
OTHER REVENUE AND INCOME					
Compulsory Fees, Fines and Penalties	40.56	76. 16	64. 83		and the second second
Income From Poverty	241.86	58, 91	155, 53	503.62	
Current Transfers	8. 74	9, 66	28.71	9. 82	28. 69
Sales of Goods and Services	78.85	101.90	361.99	421.57	507. 60
0ther	35. 37	100, 84	119.95	58.90	
Sub-Total .	405. 38	347. 47	731.01	1, 073. 60	
Total	3, 476. 08	5, 051. 68	6, 136. 54	7, 210. 87	7, 446, 42

Table K.1.1.2-5 Central Government Expenditure on Main Services

1992/93     Recurrent Development   Lotal   Lotal   Local   Lotal   Local   Lotal   Local	Recurrent Dave lopment Account Account Account Account 118.16 3.42 121.58 118.16 3.20.37 1 510.26 118.16 3.20.38 1.21 289.77 329.38 12.81 342.79 1.004.32 66.33 1.006.65 52.40 18.26 70.66	Recurrent Account 1,027,61 371,14 1,871,14 1,826,21 295,28 2,40	1994/95 Deve lopment Account Account 12, 80 2, 30 1, 12, 80 87, 57 18, 68 0, 00 0, 00	1.032.91 973.69 973.69 1.032.91 383.78 383.78 350.78 1.55.41	Recurrent Dev Account Acc 613. 43 128. 00 391. 16 1, 132. 59 40. 06 1, 491. 21	1895/96 Deve lopment Account 271, 16 13, 66	Total	Recurrent De Account Acc	1996/97 Development Account	
Recurrent Development Account Account Ictal  Account Account Ictal  243.13 189.75 432.88 68.26 5.27 73.53 213.66 17.66 231.61 553.35 212.67 73.63 1783.70 26.61 270.31 1783.70 26.61 270.31 1783.70 43.44 74.73 11.29 43.44 74.73 11.29 43.44 74.73 11.29 43.44 74.73 11.29 43.44 74.73 11.29 43.44 74.73 11.29 43.44 74.73 11.14 11.14 116.14 134.19 11.14 116.14 133 138.77		Recurrent 483. 40 1, 027. 61 371. 14 1, 827. 1382. 51 308. 57 1, 326. 21 295. 28 2, 24		- 669 338 338 738 748 749 749	F 885 58 25	velopment count 271,16 13,66		۲	velopment scount	
Account Account Total  24.13 189.75 432.88 68.26 25.27 73.53 213.96 17.66 231.61 255.35 212.67 738.02 245.70 21.01 854.79 778.78 70 71.01 854.79 778.78 70 71.01 854.79 778.78 4.76 9.13 4.74 74.73 11.29 43.44 74.74 18.10 47.00 17.4 64.40 18.41 18.15 13.138.77 11.14 15.43 28.57 11.14 15.43 28.57		483.40 1, 027.6 1, 027.14 371.14 1, 827.15 308.57 1, 326.21 2, 22 2, 240	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	- 69 238 338 78 78 78	8 8 5 8 8 2	271.16 13.66	i		Count	7-4-7
243,13 189,75 432,88 28 68.26 5.27 73,53 1 2 213.96 17.65 231.61 2 243.70 26.61 270.31 3 243.70 26.61 270.31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	233,71 3,42 9,21 246,34 12,81 66,33 97,73 27,99 18,26	<del></del>		973.69 032.91 383.78 335.38 314.86 350.78 155.41	613, 43 128, 00 391, 16 1, 132, 59 440, 06 1, 491, 21	271.16				10181
243.13 189.75 452.88 268.26 25.35 213.69 25.35 212.67 73.83 268.26 231.61 25.35 212.67 73.80.2 25.35 212.67 73.80.2 25.35 212.67 73.80.2 25.35 212.67 23.80 26.95 232.25 23.25	233, 71 3, 42 9, 21 246, 34 12, 81 65, 33 1, 73 27, 99 18, 26	<del></del>		972.03 935.38 335.38 314.86 350.78 155.41	128.00 391.16 1,132.59 440.06	13.66	884 59	897 54	633 17	1,460,71
# Safety	3.42. 9.21. 246.34 12.81. 65.33.1, 97.73 27.99	<del></del>		032.91 383.78 335.38 314.86 413.78 350.78 155.41	128.00 391.16 1,132.59 440.06	13.66	20.4.00			
Safety 213.96 17.45.35 14.35 1	246. 34 12.81 12.81 65. 33 1, 97, 73 18. 26			383, 78 335, 38 314, 86 413, 78 350, 78 155, 41	391,16 1,132,59 440,06 1,491,21		141.66	136.54	12. /0	129.24
## Safety   213.96   17.65   231.61   2	246.34 12.81 12.81 65.33 1, 27,99 18.26			335.38 314.86 413.78 350.78 155.41	1, 132, 59 440, 06 1, 491, 21	15, 74	406.90	461, 44	22. 15	483.59
525.35 212.67 738.02 0 20.03 1 34.02 0 20.03 1 378.02 1 26.01 270.31 2 20.37 70.00 26.61 270.31 2 20.37 70.00 26.61 270.31 2 20.37 2 20.25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	246.34 12.81 12.81 65.33 1, 27.99 18.26			335, 38 314, 86 413, 78 350, 78 155, 41	1, 132, 33 440, 06 1, 491, 21	91 000	25 45	1 AOK 50	866 09	2 072 54
reation Mater 13.44 14.39 14.13 15.40 15.4	12.81 65.33 1, 97,73 27,99 18.26	-		314, 86 413, 78 350, 78 155, 41	440.06 1.491.21	300.00	2	70.00	7.00	
25.75   25.2	65.33 1, 97,73 27,99 18.26	<del></del>	~	413, 78 - 350, 78 155, 41	1.491.21	11.89	451.85	525. 43	<b>3</b>	3
Munity Welfere 175, 30 56, 95 22.25 2 4.37 4.76 9.13 175, 30 56, 95 22.25 2 4.37 4.76 9.13 175, 30 56, 95, 19 17, 95 17,	97.73 27.99 18.26	_		350.78 155.41		94, 94	. 586. 15	1, 639, 29	48.40	1 787.6
175.30 56.95 222.29 2  munity Welfere 4.37 4.76 9.13  51.96 43.23 95.19  51.96 43.44 74.73  turing & Construction 31.29 43.44 74.73  turing & Construction 47.00 17.4 64.40  s. Steam and Water 33.14 41.34 14.48  & Communications 11.14 15.43 26.57  Services 137.44 1.33 138.77	97,73 27,99 18.26		78.09 0.09 0.09	155.41	370 60	83.86	454, 46	414.21	276.86	691.0
### ### ### ### ### ### ### ### ### ##	27, 99 18, 26		8, 08 0, 00 0, 00	155.4	99 99	62 63	00 00	19 93	69 61	84.5
51.96 43.23 95.19  fration 31.29 43.44 74.73  turing & Construction 47.00 17.4 64.40  s. Steam and Water 33.14 41.34 74.48  & Communications 11.14 15.43 26.57  Services 137.44 1.33 188.77	18.26		000	<	0.30	200	3		1 6	
17.30 43.44 74.73 12.20 43.44 74.73 12.20 43.44 74.73 12.20 43.44 74.73 12.20 63.14 64.40 17.4 64.40 17.4 64.40 17.4 64.40 17.4 64.40 17.4 64.40 17.4 17.4 18.41 19.05 116.14 134.19 18.05 116.14 134.19 18.77 17.4 64.40 17.30 138.77 17.4 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40 17.30 138.77 17.40				<b>7</b> . <del>1</del>	82.68	70.66	153, 34		52.83	3
tration 131.29 43.44 74.73 12.51 130.90 120.11 300.90 120.11 300.90 17.4 64.40 17.00 17.4 64.40 17.5 17.5 17.4 64.40 17.5 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17.4		-								
1.29 43.44 14.73 130.90 130.90 130.90 130.90 130.90 17.4 64.49 17.00 17.4 64.49 17.00 17.4 64.49 18.05 11.6 14 134.19 11.14 15.43 28.51 11.14 11	7		7. 81	105 69	63.53	58.75		76.57	141.87	218.4
# Fishing 189.80 201.1 330.90 1	76.70		20 25	375 A1	216 10	170.53	386.63	229, 53	331, 79	561.3
er 33.14 41.34 54.49 8 13.6 116.14 134.19 8 11.14 15.43 26.57 8 137.44 138.77	302.88		35. 50	5 6	2 6	\$ F		24 81	14 10	128.9
33.14 41.34 74.48 18.05 116.14 134.19 11.14 15.43 26.57 137.44 1.33 138.77	28.38		30.0		00.0				466.45	0 0
18.05 116.14 134.19 11.14 15.43 26.57 117.14 1.33 138.77	38.83		84.81	138, 18	54.88	113.53		07.00	2	7 8 7
18.05 110,14 1543 26.57 137,44 15.38 138.77	90 00		132, 14	268, 75	190, 73	192, 84		223, 33	288, 58	511.91
11, 14 15, 43 26, 57 137, 44 1, 33 138, 77	200		76 70	105.30	11, 79	184, 47		16.31	118.91	135. 2
137, 44 1, 33 138, 7	50.00 24.00	20.00	9.0	47 14	47.56	3.52	51.08	54, 40	10, 17	64.5
AC 880 08 000 00 000	0.03		* 13 013	130.50	65 V 39	724 20 1		757.80	1 081 85	1,839,65
•	558. 18		3/0/ o	130.00	96	6			} } }	
			000	447.34		0.00	3, 601, 85	982.	0.0	2, 982, 35
Public debt 3, 123, 21 0 3, 123, 21 5, 2/4, 90	0, 00 3, 274, 30		1, 306. 22 9.	205.55	7. 790. 53		9, 170, 36	7, 839, 33	ı	10, 147, 80

Source Economic Survey 1997

Statistics! Abstract 1995

## K. 1. 3 SOCIAL STATUS

Table K.1.1.3-1 Household Welfare Indicators (1994)

	Rural	Urban	Total
1. Popualtion			40.007
Male(1,000)	10,935	2,102	13,037
Female(1,000)	11,356	2,028	13,384
Total(1,000)	22,291	4,130	26,421
2. Household Head			
Male Head(%)	73.8	81.8	75.5
Female Head(%)	26.2	18.2	24.5
3. Literacy Rate			
Male(%)	71.6	94.2	76.6
Female(%)	39.0	76.4	44.7
4. High Education Level of Head			
Pre-school/Primary(%)	41.6	34.0	40.1
Secondary(%)	17.6	43.0	22.8
Secondary+(%)	2.4	11.1	4.2
None(%)	36.7	9.2	31.1
Not Stated(%)	1.6	2.7	1.8
5. Occupation of Household Head			
Unpaid Family Worker(%)	6.7	3.7	5.9
Agricultural Farmer(%)	57.9	2.4	46.5
Skilled Worker(%)	14.4	43.9	20.4
Unskilled Worker(%)	13.3	26.7	16.1
Business Person(%)	7.7	22.4	10.7
6. Household Expenditure/Income			
Mean Per Capita Income/year(Ksh)	21,305	51,010	27,403
Mean Per Capita Expenditure/year(Ksh)	16,196	44,279	21,961
Mean Household Expenditure/month(Ksh)	6,365	11,373	7,393
Food Share in Total Expenditure(%)	73.7	60.3	71.0
7. Access to Sanitation(%)	75.9	97.6	80.4
8. Acceess to Safe water(%)	32.5	93.3	44.9
Source.Welfare Monitoring Survey II 1996			

Table K.1.1.3-2 Distribution of Wage Employment by Industry and Income Group (1994)

	less than 2.000	2, 000~ 3, 999	4, 000~ ( 5, 999	6, 000 <sup>°</sup> 8 7, 999	8,000 <sup>~</sup> 1 14,999	15, <del>0</del> 00~ 2 19, 999	20,000~ 2 24,999	25,000 <sup>~</sup> A 29,999	Above 30,000	Total
Agriculture and Forestry				,	1	1			0.17	
	3.264	G.	20 655	9	56.845	. 98.	9, 460	4.510	710	
Agriculture and nunting	,	•	7,7	a	121	256	224	6	۲-	19 974
Forestry and logging	7	'n	7,877	o	2 !	3,	5 6	- i.	٠ ،	
			50		3	∞	23	<u>.</u>	>	
TISH ING	2 2 60	0	26 652	74	58 031	18, 255	9,717	4, 422	519	205, 100
Sub-lotal	, ,	5	10, 01	-			476	340	S	_
2. Wining and Quarrying			7	•			040 40		1 711	
2 Extend 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	680		1.092	ත		30, 302	54, 748			
			0			4,963	2, 785		190	
4. Electricity and mater	, с.		1 064			12, 345	10,916		740	
5. Construction			1, 23	2 905		19 287	29, 512		7, 572	
6. Trade, Restaurants and hoters	, <del>,</del>		7			17, 370	21,847		2, 256	
7. Transport and Communication	_	6	5 315	875		9,603	8,976	19, 240	9, 622	67, 514
8. Finance, Insurance, Real Estate and pussings	1 606	í	5,196			178,854	146, 359		19, 377	
9. Community, Social and Personal Services	5,716	14 344	40, 407	141, 228	312, 773	297, 522	264, 837		44, 993	
Source Statistical Abstract 1995	.3									

Table K.1.1.3-3 Income Group by Sex (1994)

	Male e	Female	Total
Less than 2.000	3, 754	1, 962	ις
2 00073 999	9,809	4, 535	14, 344
4 000 5 999	31,027	9, 380	40, 407
6,000~7	87, 719	53, 509	141, 228
8 000~14 999	226, 511	86, 262	312, 773
15,000~19,999	213, 592	83, 930	297, 522
20 000 24 999	186, 900	77, 937	264, 837
25, 000729, 999	157, 532	36, 777	194, 309
Above 30 000	36, 813	8, 181	44, 994
Total	953, 657	362, 473	1, 316, 130
Source, Statistical	Abstract	1995	

Table K.1.1.3-4 National Monthly Urban Food Poverty Line per Adult Equivalent, 1994

			ALL 1	ALL-URBAN (using internal	g internal e	expenditure weights)	weights)		
	Monthiv	Monthly	Calories	Calories	Calories	Calories	Quality	Prices	Food
	Consumntion	o	Dei		produced as	produced	needed to	Kshs. /kg	expenditure
Food		adult Kg /adult	100	per	ratio of	per	meet	1994	at poverty line
500+		Pourvalent	)	month	total	month	requirement	•	Kshs.
5	1994				intake		Kg./month		1994
Dung	154 60	5 31	240	12, 746, 14		6, 380, 09	2.66	29, 11	77.39
Dr cau	252.21	4	340	48, 337, 88	(-)	24, 195. 57	7.12	17.74	126, 24
Ma 1 2 6	98 90	٠٠.	330	11, 218, 38	8.32	5, 615.37	1.70	28. 51	48.51
Most a	247 12		224	4, 903, 44		2, 454, 42	1, 10	112.89	123.70
ata.		ic	230	1, 192, 57		596.94	0.26	68.08	
20.2	_		80	4, 973, 93		2, 489. 70	3, 11	27.00	
	•	0.45	140	633.	0.47	317.26	0.23	93.	
C683	· •		880	14, 125, 64	10.47	7	0.80	85, 61	68. 79
ייייין איייין ר	-		6	204			1, 78	14.24	25.38
Fruits Venterior	200.77	. 42	40	068	4	3, 037, 59	7.59	13.55	102.90
Vegetables	74 15	ہ زہ	310	6, 332, 37	4	3, 169, 67	1.02	36.30	37.12
Dealis	72 48	icc		8, 956, 05	6.64	4, 482. 96	3.20	11.33	
2000	146 23	i er		12, 083, 79	8.96	6,048.55	1.61	45.38	73.20
Jugar Tea/coffee	64.71	်င	24	73.96	0.05	37.02	0.15	209.99	32, 39
200				** ***********************************	100 001	87 500 00			874.72
Total				134, 031. 4			•		
Source, Econ	Source, Economic Survey 1997	1997							

Table K.1.1.3-5 National Monthly Rural Poverty Line per Adult Equivalent, 1994

Monthly         Calories         Produced         produced         produced         produced         produced         calories         reseated to the calories         calories         research         calories         requirem           consumption         Prices         A. 38         1.73         3.44         8.1         1.65         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11						ALL	إ⊠		1.1		Food
Monthly   Prices   Kg / Adult   Calories   Perduced   Produced   Produced   Produced   Produced   Produced   Produced   Perdulic   Perduced   Perduced				Line with 1		Calories	Calories		Gual Ty		3
Monthly         Consumption         Consumption         Consumption         Consumption         Prices         Kg. /adult (shs. /kg equivalent tem         Consumption         Consumption         Prices         Kg. /adult (shs. /kg equivalent tem         Consumption         Consumption         Prices         Kg. /adult (shs. /kg equivalent tem         Consumption         Prices         Kg. /adult (shs. /kg equivalent tem)         Prices         Legal (shs. /kg equivalent tem)         Prices         Legal (shs. /kg equivalent tem)         Prices         Legal (shs. /kg equivalent tem)         Produced tem)				MOULUIN			as people	Calories	needed to		expend:ture
cod         Consumption         Prices         Kg. / adult         Calories         per month         intake         product           tem         Kshs. / adult         Kshs. / kg         equivalent         per month         month intake         product         requivalent         per month         month intake         product         requivalent         per month         requivalent         requivalent         requivalent         per month         requivalent		Monthly		Consumption		produced	2 20000014	Pool in the	+00#	Prices	at poverty
Code Consumption         Consumption Frides regulation teem         Ne.f. adult regulation from the feet of t				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Calories	per	ratio of total	produced	100		3
tem         Kshs. /adult         Kshs. /kg         equivalent         Per in 1982         100g         1981         1982         100g         1982         20         1         11         1         1         1         1         1         1         1         1         1         1         1         1         1         2         1         1         1         1         1         2         1         1         2         1         1         2         1         1         2         1         1         3         3         4         0         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         1         2 <th>Food</th> <td>Consumption</td> <td></td> <td>78. / aun -</td> <td>200</td> <td>4</td> <td>: ntake</td> <td>_ eq</td> <td>requirement</td> <td>Kshs. /kg</td> <td>ine in Ashs.</td>	Food	Consumption		78. / aun -	200	4	: ntake	_ eq	requirement	Kshs. /kg	ine in Ashs.
equivalent         1982         in 1982         100g         1,582         1,584         1         1,51         1,113         71           2.35         4,38         0,54         240         1,287         67         1,13         7         39, 305, 20         20           1         2,46         1,83         1,37         330         4,544, 40         7         33         4,944, 40         7         34         4,07         8         3,25         16         2,07         1,399, 47         1,41,17         2,815, 59         1,41,17         2,815, 59         1,41,17         2,815, 59         1,41,17         2,815, 59         1,41,17         2,815, 59         1,41,17         2,815, 59         1,41,17         2,815, 59         2,815, 59         3,41,17         3,41,17         3,41,17         3,41,17         3,41,17         3,41,17         3,41,17         3,41,17         3,41,17 <th>tem</th> <td>Kshs. /adult</td> <td></td> <td>equivalent</td> <td>per</td> <td>1000</td> <td>1080</td> <td>month</td> <td>Kg./month</td> <td>1994</td> <td>1994</td>	tem	Kshs. /adult		equivalent	per	1000	1080	month	Kg./month	1994	1994
2. 35         4,38         0,54         240         1,481         58,23         39,305,20           1         24,46         1,83         13,37         340         45,444,81         58,23         39,305,20           1         4,66         2,69         1,73         30         6,180         7,33         4,944,40           1         11,10         13,72         0,16         200         16,180         36         2,07         1,399,47           2,11         13,43         3,30         4,07         80         3,255,76         4,17         2,815,90           1,05         7,88         0,13         140         186,55         0,24         161,35           \$ fars         5,69         16,27         0,35         880         3,077,57         3,94         2,61,79           \$ fars         5,69         16,27         0,35         880         3,077,57         3,94         2,61,79           \$ fars         6,99         1,87         3,12         40         1,248,21         1,60         1,079,58           \$ 5,95         2,24         1,87         3,45,38         4,29         2,89         2,89         2,89         2,89         2,89         3,345,38 <th></th> <td>equivalent</td> <td>1982</td> <td>in 1982</td> <td>100g</td> <td>- 1</td> <td></td> <td>1 113</td> <td>0.46</td> <td></td> <td>13, 62</td>		equivalent	1982	in 1982	100g	- 1		1 113	0.46		13, 62
24, 46         1, 83         13, 37         340         45, 444, 81         30, 35, 30, 30, 30, 30, 30, 30, 30, 30, 30, 30	Door	2.35	4.38		***************************************			30.00			_
4. 66         2. 69         1.73         330         5, 116, 13         4. 66         2. 69         1. 372         0. 81         200         1. 618, 08         2. 07         1. 39, 47         4. 17         2. 13         24         2. 13         24         313, 24         313, 24         313, 24         313, 24         313, 24         4. 17         2. 815, 90         313, 24         4. 17         2. 815, 90         4. 17         2. 815, 90         4. 17         2. 815, 90         4. 17         2. 815, 90         4. 17         2. 815, 90         4. 17         2. 815, 90         90         3. 255, 76         4. 17         2. 815, 90         90         1. 082, 32         1. 60         1. 61, 35         90         90         1. 082, 32         1. 60         1. 079, 58         90         90         1. 248, 21         1. 60         1. 079, 58         90         90         1. 248, 21         1. 60         1. 079, 58         90         90         1. 248, 21         1. 60         1. 079, 58         90         1. 248, 21         1. 60         1. 079, 50         2. 893, 42         2. 893, 42         2. 893, 42         2. 893, 42         2. 893, 42         2. 893, 42         2. 893, 42         2. 893, 42         2. 893, 42         2. 893, 42         2. 893, 42         2. 893, 42	7	24. 46	1.83			- 3		00 V			44, 33
8 fats         10 feet         10 feet         20 feet         1 feet         20 feet         1 feet         10 feet         1	00.00	4.66	2.69			- 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 300			
2 11         13.40         0.16         230         362.16         0.40         312.75         4.17         2.815.90           13.43         3.30         4.07         80         3.255.76         4.17         2.815.90           & fatts         5.69         16.27         0.35         880         3.077.57         3.94         2.61.79           s         5.69         16.27         0.35         880         3.077.57         3.94         2.617.79           s         5.69         16.27         0.35         880         3.077.57         3.94         2.617.79           s         5.69         2.24         3.12         40         1.248.21         1.60         1.079.58           s         5.95         2.49         1.87         310         5.783.77         7.41         5.002.38           s         8.15         5.45         1.50         3.345.38         4.29         2.893.42           coffee         2.14         19.06         0.11         24         26.95         0.03         2.331           total         1.00.00         67.500.00	Most	11, 10	13.72			- 1		21.0			10.
8 fats         13.43         3.30         4.07         80         3.255 76         4.11         2.813 30           \$ fats         1.05         7.88         0.13         140         186.55         0.24         161.35           \$ fats         5.69         16.27         0.35         880         3.077.57         3.94         2.61.79           s         5.69         16.27         0.35         880         3.077.57         3.94         2.61.79           s         1.60         1.6.27         3.12         40         1.248.21         1.60         1.079.58           sebles         9         2.24         3.12         40         1.248.21         1.60         1.079.58           s         5.95         2.49         2.39         140         3.345.38         4.29         2.893.42           coffee         2.14         19.06         0.11         24         26.95         0.03         2.331           coffee         2.14         19.06         0.11         24         26.95         0.067.500.00	rich	2.11	13.40			:		2 0	***************************************	97 15	
1. 05         7. 88         0. 13         140         186 55         0. 24         161.35           5. 69         16. 27         0. 35         880         3.077.57         3. 94         2. 661.79           6. 99         2. 24         3. 12         40         1. 248.21         1. 60         1. 079.58           8. 31         4. 99         1. 87         310         5. 783.77         7. 41         5. 002.38           8. 15         5. 45         1. 50         3.75         5. 607.80         7. 19         4. 850.18           8. 15         5. 45         0. 11         24         26. 95         0. 03         23.31           1.01.13         1. 50         3.75         5. 607.80         0. 03         23.31	H : 1 I.	13.43	3.30			:		2 8 2			10.
5.69         16.77         3.94         2.661.79           3.74         3.94         2.661.79           3.74         3.11         1.2         90         1.082.32         1.39         936.09           6.99         2.24         3.12         40         1.248.21         1.60         1.07.958           8.31         4.99         1.87         310         5.783.77         7.41         5.002.38           8.15         5.45         1.50         375         5.607.80         7.19         4.850.18           2.14         19.06         0.11         24         26.95         0.03         23.31           101.13         1.10         1.10         1.10         1.10         1.10         1.10			00 1					0			***************************************
5. 69         16. 21         0. 33         00         1, 082         1 : 39         936. 09           3. 74         3. 11         1, 2         40         1, 082         21         1, 60         1, 079. 58           6. 99         2. 24         3. 12         40         1, 248. 21         1, 60         1, 079. 58           9. 31         4, 99         1, 87         310         5, 783. 77         7, 41         5, 002. 38           8. 15         2. 49         2. 39         140         3, 345. 38         4, 29         2, 893. 42           8. 15         5. 45         1, 50         375         5, 607. 80         7, 19         4, 850. 18           2. 14         19, 06         0, 11         24         26. 95         0, 03         23. 31           101, 13         101, 13         100, 00         67, 500. 00	Eggs	S						2 661			24.
3. 74         3. 11         1. 2         90         1, 062, 05         6. 99         1. 079, 58           6. 99         2. 24         3. 12         40         1, 248, 21         1, 60         1, 079, 58           5. 95         2. 49         1, 87         310         5, 783, 77         7, 41         5, 002, 38           8. 15         5, 45         1, 50         375         5, 607, 80         7, 19         4, 89, 18           2. 14         19, 06         0, 11         24         26, 95         0, 03         23, 31           101, 13         13         14         15, 6043, 74         100, 00         67, 500, 00	Oils & fats	5.69	٠,			;	*************	936			
6, 99         2, 24         3, 12         40         1, 248, 21         1, 50         1, 50         1, 50         3, 12         1, 87         310         5, 183, 77         7, 41         5, 002, 38           8, 31         4, 99         1, 87         310         5, 183, 77         7, 41         5, 002, 38           8, 15         2, 49         2, 39         140         3, 345, 38         4, 29         2, 893, 42           8, 15         5, 45         1, 50         375         5, 607, 80         7, 19         4, 850, 18           2, 14         19, 06         0, 11         24         26, 95         0, 03         23, 31           1,01, 13         13         13         14         100, 00         67, 500, 00	Frisite	3.74	٠.					1 070			39
9 31         4, 99         1, 87         310         5, 783, 77         7, 41         5, 002, 38           5 95         2, 49         2, 39         140         3, 345, 38         4, 29         2, 893, 42           8 15         5, 45         1, 50         375         5, 607, 80         7, 19         4, 850, 18           2, 14         19, 06         0, 11         24         26, 95         0, 03         23, 31           101, 13         13         13         14         15         14         15         15	Version 1 ac	66 9	2, 24					- 1			35
5.95         2.49         2.39         140         3.345.38         4.29         2.893.42           8.15         5.45         1.50         375         5.607.80         7.19         4.850.18           2.14         19.06         0.11         24         26.95         0.03         23.31           10.13         13.00         0.00         67.500.00	Vegetables	+6 6	00 V					5,002		1	69 96
5. 95     2. 49     4. 850. 18       8. 15     5. 45       1. 50     375     5. 607. 80       7. 19     4. 850. 18       2. 14     19. 06     0. 11       2. 14     19. 06     0. 11       2. 14     100. 00     67. 500. 00	Beans	- O . O		C		:		2,893			
8, 15     5, 45     1, 50     3/2     3,50,50     0.03     23, 31       offee     2, 14     19,06     0, 11     24     26,95     0, 03     23, 31       78, 043, 74     100,00     67,500,00	Roots	5.95	2. 49	7		1		4 850			62.
offee 2.14 19.06 0.11 24 26.95 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Sugar	8, 15	5. 45	-		2, 007.		200			29.
78, 043. 74 100. 00	Tea/coffee	2.14	19.06	0.11	24	26.		S			
101 13						75 070 05		67 500 00			702.99
C1:10	To+a	101, 13				/8, 043, /4					

Source, Economic Survey 1997

Table K.1.1.3-6 Weight of Major Items in Household Expenditure

		Monthly income Class	
	Lower	Middle	Upper
	(less than 2,000)	(2, 000~7, 999) (a	(above 8, 000)
1 Food	4	0110	0 0549
Carea ond Careals Products	0. 2133	0.0/12	0.0042
מפולפו פו פפולפו פו פפולפו פו מפולפו פו מפולפו פו פפולפו פו פפולפו פו פפולפו פו פפולפו פו פפולפו פו פו פפולפו פו	0 0805	0.0527	0.0436
Wheat Products	0.2038	0.1299	0.0978
Sub-lota!	0 0903	0.1862	0. 2067
2. Weat	0.0304	0.0346	0.0397
3. Fish	0.1083	0.1266	0.1000
4. Dairy Products	0.0701	0.0775	0.0793
5. Oil and Fats	0.0311	0.0521	0.0613
6 Fruits	0 1165	0,0869	0 0928
7. Vegetables	0.0613	0.0285	0.0249
7. Pulses	0000	0.0181	0.0108
8. Roots	0 1775	0. 2596	0. 2837
9. Uthers	1,0000	1.0000	1.0000
Source Statistical Abstract 1995			

Table K.1.1.3-7 Rural Food Poverty Ranking by Province

	1982	<u>)</u>	1992	2	1994	ļ
Province	Headcount	% Rank	Headcount	% Rank	Headcount	% Rank
Coast	76. 25	5	63.00	2	50. 95	4
Eastern	64. 58	2	62.31	1	59.50	7
Central	37.89	1	67. 83	3	32. 95	1
Rift Valley	69. 63	3	81.02	6	45. 75	3
Nyanza	77.08	6	70.72	4	41.31	2
Western	73. 25	4	78. 41	5	52. 25	5
North Eastern	_	_		_	56. 55	6
Total Rural	65. 53		71.78		47, 19	

Note. North Eastern was not covered during the previous surveys.

Table K.1.1.3-8 Rural Absolute Poverty Ranking by Province

	1982		1992	2	1994	ļ <u> </u>
Province	Headcount		Headcount	% Rank	Headcount	% Rank
Coast	54. 55	5	43. 50	3	55.63	5
Eastern	47.73	2	42. 16	2	57.75	6
Central	25. 69	1	35. 89	· 1	31.93	1
Rift Valley	51.05	3	51.51	5	42.87	3
Nyanza	57.88	6	47, 41	4	42. 21	2
Western	53.79	4	54.81	6	53.83	4
North Eastern		_		-	58.00	- 7
Total Rural	47.89		46, 33		46. 75	· ·

Note North Eastern was not covered during the previous surveys. Source Economic Survey 1997

Table K.1.1.3-9 Number of Schools by Type

						un)	ıt:numbe	(L	
	1986	1987	1988	1989	1990	1991	1992	1993	1994
Primary	13, 392	13,849	14, 288	14 691	14,864	15, 196	15, 465	15,804	15, 906
Secondary	2, 485	2, 592	2, 717	2, 654	2, 678	2,647	2, 640	2, 639	2,834
Teacher training	22	22 22	23	24	24	26	23 24 24 26 29	28	28
Technical training									,
Institues	22		<u>6</u>	19	<u>~</u>	<u>~</u>	<u>~</u>	<u>~</u>	20
Total	15, 921	16, 463	17,047	17, 388	17, 584	17,887	18, 152	15, 921 16, 463 17, 047 17, 388 17, 584 17, 887 18, 152 18, 489	18, 788
Source. Statistical Abstract 1995	stract 19	95							

Table K.1.1.3-10 Pupils Enrolled

-								.=	(unit; numper)
	1986	1987			1990	1991	1992	1993	1994
Primary	4 843 432	4, 843, 432 5, 031, 340	5.1	5	5, 392, 319	5, 455, 996	5, 563, 987	5, 428, 396	5, 557, 008
Secondary	458, 712	522, 261			618, 461	614, 161	629, 062	531, 342	619,839
Teacher training	15,644	17,817		÷	21, 091	19, 161	19, 154	17, 696	17, 435
Technical training	6, 118				5, 906	6,849	7, 654	7, 891	8, 148
Total	5, 323, 906	5, 571, 418	5, 200, 124	6, 054, 088	6, 037, 777	6, 096, 167	6, 219, 857	5, 985, 325	6, 202, 430
Source Statistical Abstract 1995	Abstract 19	195							

Table K.1.1.3-11 Primary School Enrollment

			(	unit∶numbe	r)
	1990	1991	1992	1993	1994
Nyeri	178, 725	175, 038	177, 559	171, 702	174, 264
Kirinyaga	106, 572	108, 332	111, 190	112, 659	112, 990
Embu	107, 753	109, 876	114, 019	110, 604	111, 796
Meru	273, 944	292, 588	301, 192	211, 355	111, 427
Thraka Nithi		-	-	74, 274	74, 165
Nyanbene	_	•••			103, 525
Total	666, 994	685, 834	703, 960	680, 594	<u>688, 167</u>

Source Statistical Abstract 1995

Table K.1.1.3-12 Secondary School Enrollment

•			(	unit:1,000)	
	1990	1991	1992	1993	1994
Nairobi	34. 2	35. 9	34. 0	15. 0	31.7
Coast	40. 4	41. 5	40.0	30. 0	37. 0
North Eastern	3. 1	3.4	12. 0	1. 0	3. 6
Eastern	115. 3	113. 4	125. 0	104. 0	112. 9
Central	140. 2	124. 7	122. 0	118. 0	129. 7
Rift Valley	121. 7	119.8	95.0	111. 0	121. 9
Nyanza	97. 5	90. 9	89. 0	81. 0	105. 2
Western	88. 3	88. 9	62. 9	71. 0	77. 9
Total	640.7	618. 5	579. 9	531.0	619.9

Source. Statistical Abstract 1995

Table K.1.1.3-13 Female Population by Highest Level of Education

	None		Pre-school/Pr	imary	Secondary		Secondary	+	Not Stated	
Age Groups	Population	%	Population	%	Population	<u> </u>	opulation	%	Population	<u> </u>
12-14	90, 785	7.7	1.057.144	89.6	29, 837	2. 5	~	_	2, 476	
15-19	113, 588	8. 2	920, 749	66.6	319, 872	23. 2	15, 447	1. 1	12, 036	
20-24	124, 791	10. 1	673, 612	54.7	372, 774	30.3	34, 213	2.8	26, 821	
25-29	156, 881	15. 1	538, 689	51.8	290, 936	28. 0	39, 874	3.8	14, 384	
30-34	207, 246	24. 5	377, 204	44.6	217, 584	25. 7	27, 928	3. 3	15, 444	
35-39	239, 122	36. 8	282, 663	43.5	98, 050	15. 1	21, 336	3. 3	8, 431	
	242, 071	50.7	164, 507	34. 4	51, 987	10.9	10, 580	2. 2	8, 478	
40-44	187, 124		123, 077	36. 9	17, 223	5. 2	2, 248	0.7	3, 596	
45-49	914, 491	84. 3	140, 960	13. 0	14, 592	1.3	9, 211	0.8	5, 953	0.5
50+	2, 133, 978	31.1	3, 634, 295	53.0	952, 611	13. 9	66, 038	1.0	73, 355	1. 1
Rural Urban	142, 121	10. 4	644, 310	47. 2	459, 944	33. 7	94, 799	6. 9	24, 262	1.8
Urban		27.7	4, 278, 605	52.0	1, 412, 556		160, 837	2.0	97, <u>617</u>	1. 2
Total	2, 276, 099	21.1	4, 270, 000	32.0	1, 112,000					

Source. Welfare Monitoring Survey 11, 1996

Table K.1.1.3-14 Population by Education (high level completed), 1989

Mone			Primary		Secondar	v		Not	
Note		None		St. 5-8			University	Stated	Total
10-14	Male								
15- 9	6-9	619, 546	597, 371						
20-24 76 315 67, 876 312, 750 298, 740 41, 078 10, 283 22, 552 889, 594 25-29 86, 605 67, 226 290, 631 278, 150 30, 666 11, 218 17, 978 782, 474 30-34 92, 400 62, 903 198, 803 188, 566 17, 080 10, 886 13, 135 583, 773 35-39 89, 145 59, 987 164, 226 117, 832 10, 447 9, 988 10, 214 460, 949 40-44 86, 907 54, 184 135, 971 70, 222 5, 937 6, 617 7, 895 367, 933 45-49 90, 007 57, 240 89, 524 31, 335 2, 911 4, 152 5, 958 281, 127 50-54 93, 672 56, 751 60, 022 16, 736 1, 373 2, 587 4, 765 235, 906 55-59 84, 547 44, 272 35, 026 9, 472 789 1, 338 3, 573 179, 017 60+ 329, 330 101, 389 43, 567 8, 986 844 1, 628 10, 215 485, 959 Not stated 3, 622 997 1, 590 841 56 33 7, 607 14, 746 6-9 592, 400 619, 977 5 5 5 127, 897 1, 340, 284 10-14 189, 356 827, 277 451, 422 6, 517 31, 075 1, 485, 647 10-14 189, 356 827, 277 451, 422 6, 517 31, 30, 75 1, 485, 647 10-14 189, 356 827, 277 451, 422 6, 517 31, 30, 75 1, 485, 647 10-14 189, 356 827, 277 451, 422 6, 517 31, 30, 75 1, 485, 647 10-14 189, 356 827, 277 451, 422 6, 517 31, 30, 75 1, 485, 647 10-14 189, 356 827, 277 451, 426 192, 593 7, 275 587 17, 682 1, 200, 712 20-24 184, 100 33, 908 445, 402 275, 897 20, 083 5, 760 18, 190 1, 013, 340 25-99 222, 593 92, 471 289, 562 212, 011 11, 296 5, 608 13, 748 847, 289 30-34 228, 692 73, 394 159, 822 95, 732 4, 134 4, 194 9, 683 575, 651 35-39 222, 527 63, 495 114, 583 44, 318 1, 963 2, 851 18, 90 1, 013, 340 40-44 222, 161 52, 085 64, 139 16, 241 1, 010 1, 676 6, 6, 33 364, 245 40-44 222, 161 52, 085 64, 139 16, 241 1, 010 1, 676 6, 6, 33 364, 245 56-54 185, 131 30, 245 15, 931 3, 406 353 542 5, 010 240, 618 55-59 147, 160 20, 081 8, 015 13, 340 6 353 542 5, 010 240, 618 55-59 147, 160 20, 081 8, 015 13, 340 6 353 542 5, 010 240, 618 55-59 147, 160 20, 081 8, 015 13, 340 6 353 542 5, 010 240, 618 55-59 147, 160 20, 081 8, 015 13, 340 6 353 542 5, 010 240, 618 55-59 147, 160 20, 081 8, 015 13, 340 6 353 542 5, 010 240, 618 55-59 147, 160 20, 081 8, 090 67, 190 34 90, 161 41, 962 16, 63 6, 394 29, 992 15-19 200, 964 300, 882 1, 410, 718 333	10-14	159, 060	903, 401	403, 618	5, 647				
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35-99         89,145         59,987         164,226         117,832         10,447         9,098         10,214         460,949         40-44         86,907         54,184         135,971         70,222         5,937         6,817         7,895         367,933         457,933         68,17         7,895         367,933         457,933         672         56,751         60,022         16,736         1,373         2,587         4,765         225,906         60+         329,330         101,389         43,567         8,986         844         1,628         10,215         495,959         19,790         179,017         60+         329,330         101,389         43,567         8,986         844         1,628         10,215         495,959         98,952         33,622         997         1,590         841         56         33         7,607         14,746         495,959         140         189,960         285,273         8,21,875         75         147,900         147,900         140         485,959         140         148,962         275,387         179,017         140,224         1,227,659         119,842         58,629         285,273         8,21,875         75         75         75         75         75         75         75					188, 566	17, 080	10, 886	13, 135	583, 773
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50-54         93, 672         56, 751         60, 022         16, 736         1, 373         2, 587         4, 765         235, 930         179, 017           60+         329, 330         101, 389         43, 567         8, 986         844         1, 628         10, 215         495, 959           Not stated         3, 622         997         1, 590         841         56         33         7, 607         14, 746           Total         1, 899, 280         2, 238, 770         2, 492         422         1, 227, 659         119, 842         58, 629         285, 273         8, 321, 875           Female         6-9         592, 400         619, 977         5         5         127, 897         1, 340, 284           10-14         169, 356         827, 277         451, 422         6, 517         31, 075         1, 485, 647           15-19         132, 840         135, 709         714, 026         192, 593         7, 275         587         17, 682         1, 200, 712           20-24         164, 100         83, 908         445, 402         276, 897         20, 083         5, 760         18, 190         1, 013, 340           25-29         222, 593         92, 471         289, 562         212, 011								5, 958	
55-59         84 547         44, 272         35, 026         9, 472         789         1, 338         3, 573         179, 017           60+         329, 330         101, 389         43, 567         8, 986         844         1, 628         10, 215         495, 959           Not stated         3, 622         997         1, 590         841         56         33         7, 607         14, 746           Total         1, 899, 280         2, 238, 770         2, 492, 422         1, 227, 659         119, 842         58, 629         285, 273         8, 321, 875           Female         6-9         592, 400         619, 977         5         5         127, 897         1, 340, 284           15-19         132, 840         135, 709         714, 026         192, 593         7, 275         587, 73         17, 682         1, 200, 712           20-24         164, 100         83, 908         445, 402         275, 897         20, 083         5, 760         18, 190         1, 013, 340           25-29         222, 593         9, 2471         289, 562         212, 011         11, 296         5, 608         13, 748         847, 289           30-34         2228, 692         73, 394         159, 322         95, 732 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>235, 906</td>									235, 906
60+         329, 330         101, 389         43, 567         8, 986         844         1, 628         10, 215         495, 959           Not stated         3, 622         997         1, 590         841         56         33         7, 607         14, 746           Total         1, 899, 280         2, 238, 770         2, 492, 422         1, 227, 659         119, 842         58, 629         285, 273         8, 321, 875           Female         6-9         592, 400         619, 977         451, 422         6, 517         31, 075         1, 485, 647           15-19         132, 840         135, 709         714, 026         192, 593         7, 275         587         17, 682         1, 203, 712           25-29         222, 593         92, 471         289, 562         212, 011         11, 296         5, 608         13, 748         847, 289           30-34         228, 692         73, 394         159, 822         95, 732         4, 134         4, 194         9, 683         575, 661           35-39         222, 516         64, 139         16, 241         1, 010         1, 676         6, 933         364, 245           45-49         206, 232         43, 431         29, 477         6, 410         599 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Not stated   7,622   997   1,590   841   56   33   7,607   14,746   7,761   1,899   280   2,238   770   2,492   422   1,227,659   119,842   58,629   285,273   8,321,875   8									
Total         1,899,280         2,238,770         2,492,422         1,227,659         119,842         58,629         285,273         8,321,875           Female         6-9         592,400         619,977         5         5         127,897         1,340,284           10-14         169,356         827,277         451,422         6,517         31,075         1,485,647           15-19         132,840         135,709         714,026         192,593         7,275         587         17,682         1,200,712           20-24         164,100         83,908         445,402         275,897         20,083         5,760         18,190         1,013,340           25-29         222,593         92,471         289,562         212,011         11,296         5,608         13,748         847,289           30-34         288,692         73,394         159,822         95,732         4,134         4,194         9,683         575,661         847,948           40-44         222,161         52,085         64,139         16,241         1,010         1,676         6,933         364,245           45-49         206,232         43,431         29,477         6,410         599         940         6,316									
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40-44									
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50-54         185, 131         30, 245         15, 931         3, 406         353         542         5, 010         240, 618           55-59         147, 160         20, 081         8, 015         1, 556         217         297         3, 829         181, 155           60+         473, 082         31, 363         9, 749         2, 075         417         465         13, 488         530, 639           Not stated         5, 473         738         949         327         26         19         2, 971         10, 503           Total         2, 971, 747         2, 074, 174         2, 303, 082         857, 088         47, 373         22, 939         265, 029         8, 541, 432           Both sexes         6-9         1, 211, 946         1, 217, 348         7         6         0         0         259, 346         2, 688, 653           10-14         328, 416         1, 730, 678         855, 040         12, 164         0         0         63, 394         2, 989, 692           15-19         220, 964         300, 882         1, 410, 718         393, 724         15, 936         1, 176         35, 295         2, 378, 695           20-24         240, 415         151, 784         818, 152						1,010			
55-59         147, 160         20, 081         8, 015         1, 556         217         297         3, 829         181, 155           60+         473, 082         31, 363         9, 749         2, 075         417         465         13, 488         530, 639           Not stated         5, 473         738         949         327         26         19         2, 971         10, 503           Total         2, 971, 747         2, 074, 174         2, 303, 082         857, 088         47, 373         22, 939         265, 029         8, 541, 432           Both sexes         6-9         1, 211, 946         1, 217, 348         7         6         0         0         259, 346         2, 688, 653           10-14         328, 416         1, 730, 678         855, 040         12, 164         0         0         63, 394         2, 989, 692           20-24         220, 964         300, 882         1, 410, 718         393, 724         15, 936         1, 176         35, 295         2, 378, 695           20-24         240, 415         151, 784         818, 152         574, 637         61, 161         16, 043         40, 742         1, 902, 934           25-29         309, 198         159, 697         5									
60+         473, 082         31, 363         9, 749         2, 075         417         465         13, 488         530, 639           Not stated         5, 473         738         949         327         26         19         2, 971         10, 503           Total         2, 971, 747         2, 074, 174         2, 303, 082         857, 088         47, 373         22, 939         265, 029         8, 541, 432           Both sexes         6-9         1, 211, 946         1, 217, 348         7         6         0         0         259, 346         2, 688, 653           10-14         328, 416         1, 730, 678         855, 040         12, 164         0         0         63, 394         2, 989, 692           15-19         220, 964         300, 882         1, 410, 718         393, 724         15, 936         1, 176         35, 295         2, 378, 695           20-24         240, 415         151, 784         818, 152         574, 637         61, 161         16, 043         40, 742         1, 902, 934           25-29         309, 198         159, 697         580, 193         490, 161         41, 962         16, 826         31, 726         1, 629, 763           30-34         321, 092         136, 297 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Not stated 5, 473 738 949 327 26 19 2, 971 10, 503   Total 2, 971, 747 2, 074, 174 2, 303, 082 857, 088 47, 373 22, 939 265, 029 8, 541, 432   Both sexes 6-9 1, 211, 946 1, 217, 348 7 6 0 0 259, 346 2, 688, 653   10-14 328, 416 1, 730, 678 855, 040 12, 164 0 0 63, 394 2, 989, 692   15-19 220, 964 300, 882 1, 410, 718 393, 724 15, 936 1, 176 35, 295 2, 378, 695   20-24 240, 415 151, 784 818, 152 574, 637 61, 161 16, 043 40, 742 1, 902, 934   25-29 309, 198 159, 697 580, 193 490, 161 41, 962 16, 826 31, 726 1, 629, 763   30-34 321, 092 136, 297 358, 625 284, 298 21, 214 15, 080 22, 818 1, 159, 424   35-39 311, 672 123, 482 278, 809 162, 150 12, 410 11, 949 18, 421 918, 893   40-44 309, 068 106, 269 200, 110 86, 463 6, 947 8, 493 14, 828 732, 178   45-49 296, 239 100, 671 119, 001 37, 745 3, 510 5, 092 12, 274 574, 532   50-54 278, 803 86, 996 75, 953 20, 142 1, 726 3, 129 9, 775 476, 524   55-59 231, 707 64, 353 43, 041 11, 028 1, 006 1, 635 7, 402 360, 172   60+ 802, 412 132, 752 53, 316 11, 061 1, 261 2, 093 23, 703 1, 026, 598   Not stated 9, 095 1, 735 2, 539 1, 168 82 52 10, 578 25, 249   Total 4, 871, 027 4, 312, 944 4, 795, 504 2, 084, 747 167, 215 81, 568 550, 302 16, 863, 307					1,000				
Total         2, 971, 747         2, 074, 174         2, 303, 082         857, 088         47, 373         22, 939         265, 029         8, 541, 432           Both sexes         6-9         1, 211, 946         1, 217, 348         7         6         0         0         259, 346         2, 688, 653           10-14         328, 416         1, 730, 678         855, 040         12, 164         0         0         63, 394         2, 989, 692           15-19         220, 964         300, 882         1, 410, 718         393, 724         15, 936         1, 176         35, 295         2, 378, 695           20-24         240, 415         151, 784         818, 152         574, 637         61, 161         16, 043         40, 742         1, 902, 934           25-29         309, 198         159, 697         580, 193         490, 161         41, 962         16, 826         31, 726         1, 629, 763           30-34         321, 092         136, 297         358, 625         284, 298         21, 214         15, 080         22, 818         1, 159, 424           35-39         311, 672         123, 482         278, 809         162, 150         12, 410         11, 949         18, 421         918, 893           40-44									
Both sexes         6-9         1, 211, 946         1, 217, 348         7         6         0         0         259, 346         2, 688, 653           10-14         328, 416         1, 730, 678         855, 040         12, 164         0         0         63, 394         2, 989, 692           15-19         220, 964         300, 882         1, 410, 718         393, 724         15, 936         1, 176         35, 295         2, 378, 695           20-24         240, 415         151, 784         818, 152         574, 637         61, 161         16, 043         40, 742         1, 902, 934           25-29         309, 198         159, 697         580, 193         490, 161         41, 962         16, 826         31, 726         1, 629, 763           30-34         321, 092         136, 297         358, 625         284, 298         21, 214         15, 080         22, 818         1, 159, 424           35-39         311, 672         123, 482         278, 809         162, 150         12, 410         11, 949         18, 421         918, 893           40-44         309, 068         106, 269         200, 110         86, 463         6, 947         8, 493         14, 828         732, 178           45-49         296, 239 </td <td></td> <td></td> <td>/38</td> <td>949</td> <td>321</td> <td></td> <td></td> <td>2,9/1</td> <td></td>			/38	949	321			2,9/1	
6-9 1, 211, 946 1, 217, 348 7 6 0 0 259, 346 2, 688, 653 10-14 328, 416 1, 730, 678 855, 040 12, 164 0 0 63, 394 2, 989, 692 15-19 220, 964 300, 882 1, 410, 718 393, 724 15, 936 1, 176 35, 295 2, 378, 695 20-24 240, 415 151, 784 818, 152 574, 637 61, 161 16, 043 40, 742 1, 902, 934 25-29 309, 198 159, 697 580, 193 490, 161 41, 962 16, 826 31, 726 1, 629, 763 30-34 321, 092 136, 297 358, 625 284, 298 21, 214 15, 080 22, 818 1, 159, 424 35-39 311, 672 123, 482 278, 809 162, 150 12, 410 11, 949 18, 421 918, 893 40-44 309, 068 106, 269 200, 110 86, 463 6, 947 8, 493 14, 828 732, 178 45-49 296, 239 100, 671 119, 001 37, 745 3, 510 5, 092 12, 274 574, 532 50-54 278, 803 86, 996 75, 953 20, 142 1, 726 3, 129 9, 775 476, 524 55-59 231, 707 64, 353 43, 041 11, 028 1, 006 1, 635 7, 402 360, 172 60+ 802, 412 132, 752 53, 316 11, 061 1, 261 2, 093 23, 703 1, 026, 598 Not stated 9, 095 1, 735 2, 539 1, 168 82 52 10, 578 25, 249 Total 4, 871, 027 4, 312, 944 4, 795, 504 2, 084, 747 167, 215 81, 568 550, 302 16, 863, 307		2,911,141	2,074,174	2, 303, 082	807,088	47,313	22, 939	200, 029	0, 041, 432
10-14       328, 416       1, 730, 678       855, 040       12, 164       0       0       63, 394       2, 989, 692         15-19       220, 964       300, 882       1, 410, 718       393, 724       15, 936       1, 176       35, 295       2, 378, 695         20-24       240, 415       151, 784       818, 152       574, 637       61, 161       16, 043       40, 742       1, 902, 934         25-29       309, 198       159, 697       580, 193       490, 161       41, 962       16, 826       31, 726       1, 629, 763         30-34       321, 092       136, 297       358, 625       284, 298       21, 214       15, 080       22, 818       1, 159, 424         35-39       311, 672       123, 482       278, 809       162, 150       12, 410       11, 949       18, 421       918, 893         40-44       309, 068       106, 269       200, 110       86, 463       6, 947       8, 493       14, 828       732, 178         45-49       296, 239       100, 671       119, 001       37, 745       3, 510       5, 092       12, 274       574, 532         50-54       278, 803       86, 996       75, 953       20, 142       1, 726       3, 129       9, 775       47		1 011 010	1 017 040	7	'n		^	050 046	2 600 652
15-19		1, 211, 940							
20-24       240, 415       151, 784       818, 152       574, 637       61, 161       16, 043       40, 742       1, 902, 934         25-29       309, 198       159, 697       580, 193       490, 161       41, 962       16, 826       31, 726       1, 629, 763         30-34       321, 092       136, 297       358, 625       284, 298       21, 214       15, 080       22, 818       1, 159, 424         35-39       311, 672       123, 482       278, 809       162, 150       12, 410       11, 949       18, 421       918, 893         40-44       309, 068       106, 269       200, 110       86, 463       6, 947       8, 493       14, 828       732, 178         45-49       296, 239       100, 671       119, 001       37, 745       3, 510       5, 092       12, 274       574, 532         50-54       278, 803       86, 996       75, 953       20, 142       1, 726       3, 129       9, 775       476, 524         55-59       231, 707       64, 353       43, 041       11, 028       1, 006       1, 635       7, 402       360, 172         60+       802, 412       132, 752       53, 316       11, 061       1, 261       2, 093       23, 703       1, 026, 598<						-	_		
25-29 309, 198 159, 697 580, 193 490, 161 41, 962 16, 826 31, 726 1, 629, 763 30-34 321, 092 136, 297 358, 625 284, 298 21, 214 15, 080 22, 818 1, 159, 424 35-39 311, 672 123, 482 278, 809 162, 150 12, 410 11, 949 18, 421 918, 893 40-44 309, 068 106, 269 200, 110 86, 463 6, 947 8, 493 14, 828 732, 178 45-49 296, 239 100, 671 119, 001 37, 745 3, 510 5, 092 12, 274 574, 532 50-54 278, 803 86, 996 75, 953 20, 142 1, 726 3, 129 9, 775 476, 524 55-59 231, 707 64, 353 43, 041 11, 028 1, 006 1, 635 7, 402 360, 172 60+ 802, 412 132, 752 53, 316 11, 061 1, 261 2, 093 23, 703 1, 026, 598 Not stated 9, 095 1, 735 2, 539 1, 168 82 52 10, 578 25, 249 Total 4, 871, 027 4, 312, 944 4, 795, 504 2, 084, 747 167, 215 81, 568 550, 302 16, 863, 307							• • •		
30-34 321,092 136,297 358,625 284,298 21,214 15,080 22,818 1,159,424 35-39 311,672 123,482 278,809 162,150 12,410 11,949 18,421 918,893 40-44 309,068 106,269 200,110 86,463 6,947 8,493 14,828 732,178 45-49 296,239 100,671 119,001 37,745 3,510 5,092 12,274 574,532 50-54 278,803 86,996 75,953 20,142 1,726 3,129 9,775 476,524 55-59 231,707 64,353 43,041 11,028 1,006 1,635 7,402 360,172 60+ 802,412 132,752 53,316 11,061 1,261 2,093 23,703 1,026,598 Not stated 9,095 1,735 2,539 1,168 82 52 10,578 25,249 Total 4,871,027 4,312,944 4,795,504 2,084,747 167,215 81,568 550,302 16,863,307									
35-39 311, 672 123, 482 278, 809 162, 150 12, 410 11, 949 18, 421 918, 893 40-44 309, 068 106, 269 200, 110 86, 463 6, 947 8, 493 14, 828 732, 178 45-49 296, 239 100, 671 119, 001 37, 745 3, 510 5, 092 12, 274 574, 532 50-54 278, 803 86, 996 75, 953 20, 142 1, 726 3, 129 9, 775 476, 524 55-59 231, 707 64, 353 43, 041 11, 028 1, 006 1, 635 7, 402 360, 172 60+ 802, 412 132, 752 53, 316 11, 061 1, 261 2, 093 23, 703 1, 026, 598 Not stated 9, 095 1, 735 2, 539 1, 168 82 52 10, 578 25, 249 Total 4, 871, 027 4, 312, 944 4, 795, 504 2, 084, 747 167, 215 81, 568 550, 302 16, 863, 307								31, 126	
40-44       309,068       106,269       200,110       86,463       6,947       8,493       14,828       732,178         45-49       296,239       100,671       119,001       37,745       3,510       5,092       12,274       574,532         50-54       278,803       86,996       75,953       20,142       1,726       3,129       9,775       476,524         55-59       231,707       64,353       43,041       11,028       1,006       1,635       7,402       360,172         60+       802,412       132,752       53,316       11,061       1,261       2,093       23,703       1,026,598         Not stated       9,095       1,735       2,539       1,168       82       52       10,578       25,249         Total       4,871,027       4,312,944       4,795,504       2,084,747       167,215       81,568       550,302       16,863,307									
45-49 296, 239 100, 671 119, 001 37, 745 3, 510 5, 092 12, 274 574, 532 50-54 278, 803 86, 996 75, 953 20, 142 1, 726 3, 129 9, 775 476, 524 55-59 231, 707 64, 353 43, 041 11, 028 1, 006 1, 635 7, 402 360, 172 60+ 802, 412 132, 752 53, 316 11, 061 1, 261 2, 093 23, 703 1, 026, 598 Not stated 9, 095 1, 735 2, 539 1, 168 82 52 10, 578 25, 249 70tal 4, 871, 027 4, 312, 944 4, 795, 504 2, 084, 747 167, 215 81, 568 550, 302 16, 863, 307									
50-54     278,803     86,996     75,953     20,142     1,726     3,129     9,775     476,524       55-59     231,707     64,353     43,041     11,028     1,006     1,635     7,402     360,172       60+     802,412     132,752     53,316     11,061     1,261     2,093     23,703     1,026,598       Not stated     9,095     1,735     2,539     1,168     82     52     10,578     25,249       Total     4,871,027     4,312,944     4,795,504     2,084,747     167,215     81,568     550,302     16,863,307									
55-59     231,707     64,353     43,041     11,028     1,006     1,635     7,402     360,172       60+     802,412     132,752     53,316     11,061     1,261     2,093     23,703     1,026,598       Not stated     9,095     1,735     2,539     1,168     82     52     10,578     25,249       Total     4,871,027     4,312,944     4,795,504     2,084,747     167,215     81,568     550,302     16,863,307						3, 510	5, 092		
60+ 802,412 132,752 53,316 11,061 1,261 2,093 23,703 1,026,598 Not stated 9,095 1,735 2,539 1,168 82 52 10,578 25,249 Total 4,871,027 4,312,944 4,795,504 2,084,747 167,215 81,568 550,302 16,863,307									
Not stated 9,095 1.735 2.539 1.168 82 52 10,578 25,249 Total 4,871,027 4,312,944 4,795,504 2,084,747 167,215 81,568 550,302 16,863,307									
Total 4, 871, 027 4, 312, 944 4, 795, 504 2, 084, 747 167, 215 81, 568 550, 302 16, 863, 307									
Source Statistical Abstract 1995				4, 795, 504	<u> 2, 084, 747</u>	<u>167, 215</u>	81, 568	550, 302	16, 863, 307

Source Statistical Abstract 1995

Table K.1.1.3-15 School Attendants in Urban Population by Age Group (1989)

	At School	Left School	Never Attended	Not Stated	Total
Male					
6-9	125, 645	3, 910	,26, 941	24, 151	180, 647
10-14	166, 710	9, 603	7, 704	5, 060	189, 077
15-19	106, 425	65, 321	7, 442	5, 823	185, 011
20-24	30, 004	221, 407	9, 999	13, 636	275, 046
25-29	7, 656	249, 006	13, 050	10, 707	280, 419
30-34	4, 032	171, 208	13, 567	7, 639	196, 446
35-39	2, 588	119, 671	12, 350	5, 417	140, 026
4044	1, 852	84, 224	11, 791	3, 955	101, 822
45-49	1,063	53, 281	11, 713	2,666	68, 723
50-54	703	34, 877	12, 085	1, 930	49, 595
55-59	354	17, 282	8, 868	1, 182	27, 686
60+	690	20, 863	23, 294	2, 062	46, 909
Age Not Stated	109	734	209	5, 466	6,518
· -	447, 831	1, 051, 387	159, 013	89, 694	1, 747, 925
Total	447,001	1, 051, 007	109,010	00, 004	1, 141, 020
Female			00.444	00 000	100 070
6-9	129, 804	4, 465	28, 114		186, 379
10–14	170, 181	16, 909	13, 816	5, 107	206, 013
15-19	92, 711	101, 596	15, 415	5, 564	215, 286
20-24	17, 937	199, 585	20, 334	9, 730	247, 586
25-29	5, 303	166, 885		5, 679	205, 764
30-34	2, 634	87, 243	25, 912	3, 240	119, 029
35-39	1, 531	55, 619	23, 023	2, 200	82, 373
40-44	901	29, 761	20, 759	1, 640	53, 061
45-49	498	16, 373	17, 656	1, 221	35, 748
50-54	292	9, 376	15, 356	963	25, 987
55-59	169	5, 031	10, 470	555	16, 225
60+	466	8, 197		1, 626	44, 225
Age Not Stated	97	334		1,714	2, 437
Total	422, 524	701, 374		63, 235	1, 440, 113
Both Sexes					
6-9	255, 449	8, 375			367, 026
10-14	336, 891	26, 512			395, 090
15-19	199, 136	166, 917		11, 387	400, 297
20-24	47, 941	420, 992	30, 333		522, 632
25-29	12, 959	415, 891	40, 947	16, 386	486, 183
30-34	6, 666	258, 451	39, 479	10, 879	315, 475
35-39	4, 119	175, 290	35, 373	7, 617	222, 399
40-44	2, 753	113, 985		5, 595	154, 883
45-49	1,561	69, 654			104, 471
50-54	995	44, 253			75, 582
55-59	523	22, 313			43, 911
60+	1, 156	29, 060			91, 134
Age Not Stated	206	1, 068			8, 955
Total	870, 355	1, 752, 761	· ·		3, 188, 038
Source, Statistical					

Table K.1.1.3-16 Life Expectancy

Kenya	59
High Income	77
Middle Income	67
Low Income	63
Sorce Fact Book 1997/98	

Table K.1.1.3.17 Literacy Rate (%)

Female	63. 3
Male	75. 7
Average	69. 4

Table K.1.1.3-18 Ethnic Group Growth Rate of Population

	(Nill	ion)	Annual
Tribe	1979	1989	Growth (%)
Kikuyu	3, 20	4.46	3. 40
Luhya	2. 20	3. 08	3, 80
Luo	1. 95	2. 65	3. 10
Kalenjin	1. 73	2.46	3. 60
Kamba	1. 65	2. 45	4. 10
Kisii	0. 94	1: 32	3. 40
Meru	0. 84	1.09	2. 60
Mijikenda	0. 73	1. 01	3. 20
Masai	0. 24	0.38	4.60
Turkana	0. 20	0. 28	3. 20
Source Fact	Rook 1007/08		

Source Fact Book 1997/98

Table K.1.1.3-19 Farming Practices by Sex

Table K.1.1.3-20 House Keeping

	Table K.1	Table K.1.1.3-19 Farming Practices by Sex	ming Practi	ces by Sex		Table K.1.1.3-20		House Keeping	
-		-	)					'n)	(unit:%)
					(nni+;%)		,	Always Son	Sometimes
		54:440	Wood:	Harvostino	Selling	Care for boultry	Male	3.0	3.5 5
	1 - 1	r I di i i i i	meed IIIS	1191 10011116	1		Female	9.2	2.5
Ma126	<b>M</b> ale	<b>1</b> 0		ָר מ מ		Feeding for animals	Male	 	3.7
	remaie	0		3		0	Female	12.3	12.3
		œ	œ	00	***	Grazing cattle	<b>¥</b> a ie	25. 2	13.1
Potatoes				7	_		Female	14, 1	14.0
	remale	2	2	_		Milking	Male	11.8	က (မိ
	10.10	1.	12	=	10	1	Female	37. 4	<b>4</b> .0
corree	五 2 2 3 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	2 5	1 4	9	<u> </u>	Grazing goats/sheep	Male	20.9	12.5
	remare	2	-	-			Female	26. 7	12.2
		и		LC.	4	Cooking	Male	4.7	3. <del>4</del>
<u>-</u>	72 - C	יו כ	) L		ي ح	)	Female	90.0	<del>~_</del>
	remale		•			Care for child	Maie	7.3	4.7
c		ı	Ľ	LC.	4		Female	63, 2	
Pyrethrum	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	יו כ	) [-	· •	. ru	Purchasing food	Male	22. 9	22.8
	remale	•		•			Female	71.4	1.3 5.1
	O CO	Œ		9	រប	Fetching water	Maie	ي ب	က က
COLTON		0	o o	, &	i LC	l	Female	89. 1	6.
remaile o o o o o o o o o o o o o o o o o o o	remale of prince	C. C. C.	1076-1070			Procuring fuel wood	Male	5.2	3.7
Source, Intel	Sraied nur	al survey	voore for	hoth say			Female	88. 6	2.3
Note Farmers aged more than 15 years 101 b	s aged mor	Ci ilgii A	year o lor	200		Clearing house	Male	4.6	2.8
	•					)	Female	89. 7	2.0
						Source Integrated Rura	Surveys 1976-1979	76-1979	-

Table K.1.1.3-21 Pattern of Change of Fetching Water during Wet and Dry Seasons

ason less than 5 min. 6–15 min.  78.6 4.5 2.6 77.0 2.6 77.0 0.4 1.7 0.2 0.4 0.6 0.6 0.6 0.6 0.7 0.8 0.9 0.9 0.9 0.9 0.9 0.9	collect water			Time Tak	Time Taken to Collect Water during Dry Season	Water during	Dry Seaso	Ľ	
min.	during wat seeon	less than 5 min.	6-15 min.	16-30 mir	1. 31-45 min.	46-60 min.	61-90 min.	91-120 min.	more than 120
2.6 770 9.8 12 3.8 0.7 0.7 0.4 1.7 72.6 5.4 8.1 3.1 0.7 0.6 0.6 0.6 0.8 - 10.3 73.2 0.3 - 2.7 0.3 - 1.5 - 0.2 - 1.4 - 2.7 0.2 - 2.7 0.2 0.2 - 2.7 0.2 0.2 - 2.7 0.2 0.2 - 2.7 0.2 0.2 - 2.7 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	:l	78.6	4.5	7	7 1.5	3.3	0.8	1.8	
2.0 77.0 3.6 5.4 8.1 3.1 0.2 0.2 0.2 0.3 0.4 6.5 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Less cran Julii.	2 6			1.0	ď	0.7	10	
0.4 1.7 726 5.4 8.1 3.1 0.2 0.4 6.4 65.5 9.4 5.9 0.6 0.6 1.7 2.5 63.3 6.1 0.3 73.2 0.3 - 2.2 - 2.7 2.7 20 min. 1.5 - 0.2 - 1.4 -	6-15 min.	7.0	2.						
0.2 0.4 6.4 6.55 9.4 5.9 0.6 0.6 1.7 2.5 63.3 6.1 0.6 0.8 - 10.3 73.2 0.3 - 2.2 - 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	16-30 min	4.0	<u>.</u> .	72.			3.7	2,	
0.6 0.6 1.7 2.5 63.3 6.1 0.6 0.6 0.8 - 10.3 73.2 0.3 - 2.7 - 2.7 0.3 - 2.7 0.2 - 1.4 0.2 0.2 - 1.4 0.2 0.2 - 1.4 0.2 0.2 - 1.4 0.2 0.2 - 1.4 0.2 0.2 0.2 - 1.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	24 46 min	60	40	œ	_		5.9	4.7	_
0.6 0.6 0.8 - 10.3 73.2 0.3 - 2.7 0.3 - 2.7 0.3 - 2.7 0.3 - 1.5 - 0.2 - 1.4 - 2.7	31743 min.	, .		,		4	4	ď	
0.6 0.6 0.8 – 10.3 73.2 0.3 – 2.2 – 2.7 20 min. 1.5 – 0.2 – 1.4 –	46-60 min.	0.6	a.o	_	6.7	2,3	5	ָּיָרָ נְּיָרְ מָיִרְיִי	
20 min. 1.5 – 2.7 – 2.7 – 2.7	61-90 min	90		0	ا 8	10.3	73.2		•
20 min. 1.5 - 0.2 -	100 100 100 100 100 100 100 100 100 100	60		^	1 6	ı	2.7	7 62.5	
1.5 - 0.2 -	91-12- min.	3.		1	ł	,		Č	7 70
	more than 120 min.		-	O	.2	1.4	1	7.7	

K. 1. 4 SOCIAL INDICATOR OF UNDP

Table K.1.1.4-1 Social Indicators of UNDP

		Food		Food				-TG-76-76-76-76-76-76-76-76-76-76-76-76-76-			
		Production per Capita	Agricultural	(as of Total	Calorie			Imports		Cereal	Food Aid
		Index		Household	Supply	٠	Change Since	(as % of		mports	in Cereals
		(1979-81=100)	(as of GDP)	Consumption)	per capita	Total kg	1980-82 (%)	Merchandise Imports	1	(1,000 ton)	(1,000 ton)
	HDI Rank	(1993)	(1994)	(1980-1985)	(1992)	(1990–1992)	(1990–1992)	(1980)	(1994)	(1994)	(1994)
High Human Development	ı	104	8	32	2, 894	20	3	12	വ	35,810	ı
Medium Human Development	1	133	16	54	2, 730	=	89	ı	ထ	80,572	1
Low Human Development	i	113	32	5	2, 262	CJ	19	14	-	12,861	4,396
All Developing Countries	1	123	15	5	2, 553	6	44	13	7	129,243	6,427
Least Developed Countries	1	94	37		2,054	7	12	15	16	7,651	3,752
Sub-Sahara Africa	ı	97	20	45	2,096	σο	٣	Ξ	5	10,162	2,752
Industrial Countries	1	96	9	ı	ł	29	13	=	9	90,212	•
World	i	118	9	f	ı	13	39	=	မ	219,455	1
Kerva	134	83	29	38	2075	7	107	ထ	5	622	102
Ghana	132	115	46	20	2206	25	16	10	6	311	101
Cameroon	133	6/	32	24	1981	10	-26	රා	Ξ	226	2
South Africa	6	74	5	34	2705	10	10	က	S	913	ı
Botswana	97	69	5	25	2288	4	21	1	<del></del>	175	7
Egypt	109	114	20	49	3336	7	33	32	22	9, 200	179
Zimbabwe	129	78	15	4	1989	2	-44		ო	50	4
Congo	130	79	10	37	2297	33	16	10	17	98	12
Nigeria	141	129	43	48	2125	9	<b>19-</b>	17	13	1,078	
Tanzania	149	91	57	64	2021	. 15	27	<del>ნ</del>	60	195	118
Ethiopia	170	98	57	49	1610	0	0	8	20	928	720

Table K.1.1.4-2 Human Development Index of UNDP

Table K.1.1.4-3 Human Poverty Index (HPI)

	HPI	HPI
	Ranking	Value (%)
South Africa		
Botswana	29	22. 9
Egypt	44	34. 8
Swaziland	_	_
Namibia	59	45. 1
Zimbabw	17	17. 3
Ghana	43	32. 6
Kenya	32	26. 1
Lesotho	35	27.5
Nigeria	54	41.6
Zambia	45	35. 1
Tanzania	50	39.7
Angola	· —	_
Sudan	57	42. 3
Uganda	53	41.3
Malawi	60	45.8
Mozambique	72	50. 1
Eritrea	_	
Ethiopia	75	56. 2
Sierra Leone	77	59. 2
Somalia		

Source Human Development Report 1997, UNDP Note HPI, given for 78 developing countries.