PRODUCTION, PLANTED AREA AND YIELD OF MAJOR CROPS IN LILONGWE ADD (1982/83 - 1988/89)

Table 3.10.6

			Plant	Planted Area (ha)	้ำล)				Yić	Yield (kg/ha)					之 之	Production (ton	(น (
Crop	ADD			RDP			ADD			RDP			ADD			RDP		
	Total	Dedza H	Ntcheu I	LWW.1	Ntcheu LLW W. LLW E. T. Lifidzi	r. Lifidzi	Total	Dedza H	Ntchen L	LLW W.	LLWE. T	T. Lifidzi		Dedza H Nicheu		LLW W.	LLWE.	T. Lifidzi
1. Maize																		
Local	318,143	42,121	318,143 42,121 55,304 143,107	143,107	45,822	38,810	1,218	852	972	1,347	1,378	1,547	389,268	35,874	53,872	193,811	63,340	48,350
Hybrid	29,862	29,862 1,415	1,257	1,257 14,543	2,798	10,295	2,592	2,237	3,241	2,833	2,289	2,692	70,488	3,152	4,200	41,238	6,290	16,833
Total	348,005	348,005 43,536	56,140	56,140 157,650	48,620	49,105	1,318	897	166	1,483	1,430	1,327	459,756	39,027	56,086	235,049	69,631	65,183
4. Groundnuts	59,627	3,352	2,697	38,251	10,959	4,847	439	315	328	451	417	371	25,932	1,027	1,015	17,581	4,736	1,865
5. Pulses	35.245	9,822	11.708	1.651	3,398	10,070	249	239	253	219	153	296	8,870	2,338	2,909	342	591	3,023
 Irish Potatoes 	2,566	2,566 1,536	1,029	r	,	720	4,479	4,501	5,006		·	4,497	11,234	6,467	4,484			3,427
7. Wheat	1,093	46	1,085		,	•	714	1,413	692	·	ſ	ł	690	65	681	۰	ı	•
8. Tobacco	14,792	1	28	13,465	1,399	216	466	1	285	469	406	446	6,940	١	80	6,367	577	322
Total	461,328	461,328 58,292	72,688	72,688 211,017	64,376 65,456	65,456							513,422	48,924	65,183	259,339	75,534	73,820
LLW.W.	LLW.W Lilongwe West	e West		Dedza H -	Dedza H - Dedza Hills	ills		-										

T. Lifidzi - Thiwi Lifidzi

LLW.E. - Lilongwe East

	Crop	Pla	anted Area (h	a)	Pi	oduction (ton))
		Bwanje V.	Dedza H	Ntcheu	Bwanje V.	Dedza H	Ntcheu
1,	Maize						
	Local	24,375	42,121	55,304	22,622	35,874	53,872
	Composite	1,047	-	-	1,243	-	-
	Hybrid	3,108	1,415	1,257	4,263	3,152	4,200
	Total	28,530	43,536	56,140	28,128	39,027	56,086
2.	Rice	1,030	0	0	1,261	0	0
3.	Groundnuts	2,515	3,352	2,697	3,792	1,027	1,015
4.	Pulses	1,051	9,822	11,708	670	2,338	2,909
5.	Wheat	0	46	1,085	0	65	681
6.	Sorghum	342	-	-	91	-	
7.	Millet	1,126	-	· _	370	-	_
8.	Cassava	7,114	-		2,302		-
9.	Irish Potatoes	0	1,536	1,029	· 0	6,467	4,484
10.	Sweet Potatoes	1,163	0	0	1,604	0	0
11.	Cotton	4,006	-		2,956	· -	-
12.	Tobacco	. 60	-	28	6	· _	8
13.	Sunflower	18	-	-	1		-
14.	Chillies	164	-	•	82	-	-
	Total	47,119	58,292	72,688	41,263	48,924	65,183

Table 3.10.7PLANTED AREA AND PRODUCTION OF MAJOR CROPS IN
RDPs CONCERNED

NUMBER OF FARM HOUSEHOLDS CULTIVATED PRODUCTION AND YIELDS BY CROPS

	No. of	Агеа	No. of		Production	Yield on	Average
Сгор	Households	Cultivated per	Households	(B)/(A)	per Harvested	Harvested	Yield in
	Cultivated (A)	Household (ha)	Harvested (B)	(%)	Household (t)	Area (t/ha)	Salima ADD (t)
Local maize	108 (90) *	0.83	72	67	0.54	0.74	1.53
Composite maize	3 (3) *	1.00	3	100	1.13	1.72	2.03
Hybrid maize	58 (44) *	0.63	34	59	0.87	1.61	1.51
Maize total	120 (100)	1.08	94	78	0.98	0.83	1.54
Upland rice	(10) *	0.25	6	75	0.3	1.01	-
Lowland rice	(91) *	0.34	53	75	0.5	1.58	-
Rice total	(65)	0.33	59	76	0.48	1.53	1.25
Cotton	(31)	0.59	34	92	0.43	0.81	-
Beans/Pulses	(15)	0.25	10	56	0.27	0.82	-
Sweet potatoes	(13)	0.17	10	66	0.45	2.84	-
Groundnuts	(13)	0.31	10	67	0.17	0.57	-
Vegetables	(9)	0.21	.7	64	0.45	1,11	-
Cassava	(8)	0.22	6	60	0.99	2.84	· _
Finger millet	(8)	0.39	4	44	0.17	0.56	-
Sorghum	(3)	0.10	2	67	0.07	0.70	-
Tobacco	(2)	0.70	0	0	·	-	· •

Number of samples: 120 farm households. Average yield in Salima ADD area: Average on 1982/83-1984/85 (Annual survey of agriculture). Percentage in parenthesis shows percentage to all farm households. *: Percentage to cultivated farm households.

Table 3.10.9

RICE CULTIVATION PRACTICES OF THE FARMERS SURVEYED

Items		Number of	f Cases
······································		Number	%
Variety cultivated	Faya 14-M-69	46	61.30
	Kota-kota	8	10.70
	Mixed Faya	4	5.30
	Blue Bonnet	2	2.70
	Karonga	2	2.70
	Manda	2	2.70
	No information	11	14.60
• •	Total	<u>75</u>	100.00
Seed used	Own seed	37	49.30
	Purchased seed	33	44.00
	No information	5	6.70
	Total	<u>75</u>	100.00
Growing period	Sowing time (A)	Middle of 1	November
0 F	Transplanting time (B)	Early Janua	
	Harvesting time (C)	Late of Ma	
	Growing period	190 days =	
	Sector Specific	., , , , , , , , , , , , , , , , , , ,	142 days (B-C)
Pertilizer application	Applied farmers	1	1.30
	Non-applied farmers	74	98.70
	Total	<u>75</u>	100.00
Weeding	Weeded farmers	57	76.00
U .	Non-weeded farmers	18	24.00
	Total	75	100.00
	Number of times weeded	1.7 times (I	By hands)
Cisease control	Controlled farmers	0	0.00
	Non-controlled farmers	75	100.00
Pest control	Controlled farmers	13	17.30
	Non-controlled farmers	62	82.70
	Total	75	100,00
	Kind of pests and way of control		ents, Hippos

do C	Farming Practices	Variety	Fertilizer Application	plication	Spraying	
ı			Standard Rate	Fertilizers recomend.	Insect Pests	Diseases
Maize	 Early planting 	Local	N-40 kg/ha + P-10 kg/ha DAP or 23:21:0+4S for	DAP or 23:21:0+45 for	Major insect pests: Armyworm, Major Disease:	Major Disease:
	2. Plant density: 37,000 - 44,000	Composite	N-76 kg/ha + P-20 kg/ha basal dosage Urea,	basal dosage Urca,	Red Locust, Large short-horned Northern Leaf Bright,	Northern Leaf Bright
	3. Application manure: 12.5 tons/ha	Hybrid	N-96 kg/ha + P-40 kg/ha CAN, S/A for	CAN, S/A for	grasshopper, Crickets,	Maize streak virus
• .	4. Weed control: during the first six weeks			top-dressing	Stalkborers, etc.	
	after germination				Chemical:	
	5. Control of storage pests is important.			-	Carbaryl (Sevin)	
	6. Stooking is recommended.				Fenvalerate (Sumcidin)	
		-			Trichlorfaon (Dipterex)	
Rice	1. Nursery prepration	Faya 14-M-69	N-60 kg/ha + P-25 kg/ha	DAP, 23:21:0+4S or	Green grasshopper, Stem	Leaf blast, Leaf spot
	2. Ploughing-breaking crods-levelling-	Blue Bonnet	N-80 kg/ha + P-25 kg/ha SA for basal dosage	SA for basal dosage	borer and Army warm	
	bunding-paddling	IET 4094	N-80 kg/ha + P-25 kg/ha Urea, CAN, S/A	Urea, CAN, S/A	Chemical:	
	3. Water control and management	IR 1561-250-2-2	N-80 kg/ha + P-25 kg/ha for top-dressing	for top-dressing	Carbaryl (Sevin)	
	4. Weed control and Bird scaring					
	5. Harvesting/Drying/Threshing/Winnowing	00				
Beams	1. Planting methods: pure stand/interplant- Pure stand	Pure stand	N-40 kg/ha + P-40 kg/ha DAP, 23:21:0+4S,	DAP, 23:21:0+4S,	Bean beetle	Anthracnoe, Angle leaf
	ing/dimba			20:20:20,Urca	Chemical:	spot, Halo blight
	2. Avoid loss of beans by shattering				Carbaryl (Sevin)	
	3. Threshing					
Cotton	1. Deep plough/Ridges 90 cm interval.		N-34 kg/ha + P-45 kg/ha + DAP, SA	DAP, SA	African ballworm, spiny, red	
	2. Early planting at the first rain		S-22 kg/ha		and pink ballworms, red spider	
	3. Weeding between planting and flowering	200			mites, cotton stainers, jassid,	
	periods				aphid, termites, elegant	
	4. Scouting and spraying				grasshopper	
	5. Picking				Chemical:	
	(Cotton Handbook of Malawi)				Cypermethrins	
					Thiodicarb (Larvin)	
					Deltamethrin (Decis)	
					Lambdacyhalothrim (Karate)	

Farming Practices and Recommended Fertilizer Application Rates and Pesticides for Major Crops Table 3.10.10

Table 3.10.11 (1/3)

Recommended Varieties and Varieties Applied in the Study Area

		Applied in	Growing	Potential	Seed	Suitable
Crop	Crop Variety	the Study	Period	Yield	Rate	Zone
		Area	(days)	(kg/ha)	(kg/ha)	(Altitude m)
Maize	Local (unimproved)	0	· •	2,700	25	
	Composite - CCA	0	130 - 140	4,500	25	E1.500 - 900
	Composite - CCC		120 - 130	3,500 - 4,500	20 - 25	Above El.1000
	Composite - CCD		110 - 128	3,000 - 4,000	20 - 25	E1.500 - 900
	Composite - UCA		140 - 150	5,000	25	Above El.1000
	Composite - Tuxpeno		110 - 120	4,000	25	Karonga lakeshore
	Hybrid - MH12		140 - 150	8,000	25	Above El.1000
	Hybrid - MH16	0	120 - 130	5,500	25	E1.500 - 900
	Hybrid - MH17		140 - 150	8,000	25	Above El.1000
	Hybrid - MH18	0	120 - 130	5,500	25	E1.500 - 900
	Hybrid - NSCM41	0	120 - 130	5,500	25 - 30	E1.500 - 900
Rice	Faya 14-M-69	0	145 - 150 (R)	3,500 - 4,000	63	Lakeshore, Phalombe plain,
	Blue Bonnet	0	125 - 130 (R)	3,000 - 4,000	75	Shire Valley, Lake Chilwa
			150 - 155 (D)			
	IET 4094	0	115 - 120 (R)	6,000	75	*some local varicities similar
			143 - 145 (D)			Faya are also planted by
	IR 1561-250-2-2	: 0	115 - 120 (R)	6,000	75	rainfed paddy filed by
			143 - 145 (D)			smallholders.
Sorghum	Local	0	90	1,200	4	Shire Valley and food securit
	PN3		90	3,000	4	crop in other marginal areas.
Pearl	Nigerian compo. tall				8	Shire Valley, supplementary
Millet	Nigerian compo. dwarf				. 8	food crop
Fingar	516			2,000	5 - 7	Alternative food and cash cro
Millet	366			2,000	5 - 7	in the plateau of Northern
	Dopalopa			2,000	5-7	Region
	Mavoli			2,000	5 - 7	
Wheat	Kenya Nyati			3,500	100	Plateau, e.g. Tasangano,
	Limpopo			3,500	100	Neno, Dedza, Phoka Hills
	Torim 73			3,500	100	
	Jupateco			3,500	100	
	Loerie	······································		3,500	100	
	Gamtoos			3,500	100	1

Source: Guide to Agricultural Production in Malawi 1991/92, MOA

Table 3.10.11 (2/3) Recommended Varieties and Varieties Applied in the Study Area

	r	Applied in	Sowing	Potential	Sced	
Crop	Crop Variety	the Study	time	Yield	Rate	Remarks
Crop	Crop variery	Area	, unic	(kg/ha)	(kg/ha)	i Konturas
Beans	Nasaka (253/1)	Alea	January for	2,500	80 - 100	Good source of protein and cash
DCAIIS	Bwenzilaana (373)		Central R.	2,500		income. Grown throughout the
· .	Sapelekedwa (600/1)	<u></u>	FebMar. for	2,500	80 - 100	country mostly in cool plateau areas
	Kamtsilo (499/1)		relay cropping	2,500	80 - 100	Also grown in low altitude during
	Kanazama (97/1)	<u>}</u>	iony copping	2,500	75 - 90	winter months from April to July.
	Namajengo (336)			2,500	75 - 90	
Cowpeas		Little	mid.JanFeb.	2,000	16 - 20	Grown throuout the country.
compeas				£1000	10 10	Suitable for warm areas with low
		<u>+</u>		· · · ·	<u>_</u>	rainfal, e.g. Shire Valley, Bwanje
						Valey, Lakeshore and Phalombe
					f	plians and dry plateu areas. High
						tolerant to heat and dry weather,
Pigcon	ICP 9145	0	Onset of the	1,700	8	Grown in all the types of soils.
Pigcon Peas			rainy season.	1,700		Improve the soil fertility through
1 603			270 days.			nirogen fixation. valuable source of
	}`·		210 days.			protein and cash.
Chick	Local	<u> </u>	February	1,500	8 - 10	Important cash crop in Shire
Peas		· · · · · · · · · · · · · · · · · · ·				Highland. Require less moisture
e cas		<u> </u>	{			and suited to relay cropping after
						maize. Improve soil fertility.
Filed	Earlicrop (early)		mid Mar		65 - 95	High altitude. Grown as pulses and
Peas	W.F. Massay (early)	{	mid.Apr.		05-55	vegetables. Improve soil fertility.
I Cas	Green Feast (mid.)		ma.npr.	- <u></u>	······	regetables. Improve son retury.
	Onward (mid.)					1 .
	Alderman (late)			2,000		
	Alderman (rate)			2,000	·	
Soya	Geduld	0	before end	2,000	25	Useful for human protein sources
Beans	Davis		December	2,000	25	and livestock artificial feed.
	Hardee	0		2,000	2.5	substisutional crop of groundnuts.
	Forrest			2,000	25	·
	Bossier			2,000	25	
	Impala]]	2,000	25	j
· . · ·	Kudu	<u> </u>		2,000	25	
Guar	Khanpur Local		mid-end Jan.	2,000	6-8	Grown as cash crop. Processed for
Beans						industrial use and animal feed.
Grams	<u> </u>		December	1,500	6 - 10	Green and black grams are grown.
						Used in the same way in cowpeas.
Ground	· · · · · · · · · · · · · · · · · · ·	·	December	1,000	100 - 110	Used in the same way in cowpeas.
Beans					1	
Ground-	Chalimbana		first half of	2,000	90	Grown as export crop for
nuts	Chitembana		December	2,400	100	confectionay trade and provide raw
	ICGMS42	Promoted		1,500	90	materials to the domestic oil
	Malimba	Promoted		1,500	35	inductry. Improve the soil fertility
	RG1			1,500		in cop roatation with maize and
	Mani-Pintar	0		2,000	70	tobacco.
	Mawanga	0		2,000	70	

Source: Guide to Agricultural Production in Malawi 1991/92, MOA

Table 3.10.11 (3/3) Recommended Varieties and Varieties Applied in the Study Area

	Ţ	Applied in	Sowing	Potential	Seed	
Crop	Crop Variety	the Study	time	Yield	Rate	Remarks
-		Area		(kg/ha)	(kg/ha)	
Cotton	Makoka 78	0		2,500	25	Very valuable crop providibg cash
	Ezam 6			2,800	25	incomes. Seed is pressed into edible
	IRM 81			3,000	25	oils and cake for feeding livestock
	Rasam 17			2,800	25	-
Tobacco	NDDF	Estate	NovDec.			
	SDDF					-
	Sun/Air Cured	0				
	Oriental (Sumsun)					
	Flue-Cured Virginia	Estate				
	Barley (Banket A1)	0				
Sun-	Local		mid end.	1,000	5 - 8	Top quality edible oil. Promoted
flower	Hybrid SO323	0	December			throughout the country except for
	Hybrid	0				the cool plateau areas.
Sesame	Local	0	mid.Dec	1,000	16 - 20	Grown throuout the country as food
			mid.Jan.			and cash crop. Processed for
						cooking oil and soap making.
						Suitable for the lakeshore and warm
	· · · · · · · · · · · · · · · · · · ·					plateau.
	······································					
Caster	Local					Grown in rich, well drained soils
sceds						under hot climate.
Cassava	Chitembwere	0	9 - 18	6,000 - 7,000		Staple food in the Lakeshore.
	Manyokola	0	months			Advantageous with drought tilerance
	Gomani	0		· · ·		and low labour requirement.
Sweet	Babache		before	20 ion		Grown throughout the country as
potatoes	Kenya		mid.Jan.	20 ton		security and cash crop.
	TIS 3017			20 ton		······································
	LRS 407			20 ton		
	Yoyera			20 ton		
	Kamchiputu			20 ton		
European	Rosita			15 - 20 ton	2,000-	Grown as food and cash crops in the
potatoes	Cardinal			15 - 20 ton	3000	cool plateau areas.
-	Roslin			15 - 20 ton		
	Tsangano		· :	15 - 20 ton		1
	Roslin Byumbwe			15 - 20 ton		1
	Crown	+		15 - 20 ton	• • • •	- · · ·
	Up to Date	1		15 - 20 ton		

Source: Guide to Agricultural Production in Malawi 1991/92, MOA

	% of Number of Houscholds Owned	Number of Implements Owned per Household
Rice	100.0	3.3
Mat	80.7	2.4
Axe/Hatchet	77.3	1,5
Sickle	66.4	1.4
Winnower	44.5	2.3
Seive	49.6	1.1
Thresher	17.6	1.5
Sprayer	10.1	1.0
Plough	3.4	1.3
Basket	2.5	1.0
Ridger	2.5	1.0
Draft animal	2.5	1.7
Cultivator	0.8	1.0
Harrow	0.0	0.0

Table 3.10.12 AGRICULTURAL IMPLEMENTS OWNED BY FARMERS

Number of effective households surveyed: 119 farm households

Table 3,10.13

MAIZE CULTIVATION PRACTICES OF THE FARMERS SURVEYED

Items			Number of	
<u></u>			Number	%
			_	
Variety cultivated	Local var		85	63.4
	Composit		2	1.5
	Hybrid va	ariety	47	35.1
	Total		<u>134</u>	100.0
Seed used	Own seed	I	87	60.8
	Purchased	l seed	56	39.2
	Total		143	<u>100.0</u>
Growing period	Sowing ti	me	Middle of N	lovember
	Harvestin		End of Apri	l to Early May
	Growing		165 days	
Fertilizer application	Applied f	armers	51	45.1
erinder approacton		ied farmers	62	54.9
	Total		113	100.0
		application		
	Basal N:	Applied farmers	47	41.6
		Non-applied farmers	4	3.5
		Total	<u>51</u>	<u>45.1</u>
		Amount applied (kg/ha)	26.1	· –
	Basal P:	Applied farmers	30	26.5
		Non-applied farmers	21	18.6
		Total	<u>51</u>	<u>45.1</u>
		Amount applied (kg/ha)	23.7	-
	Basal K:	Applied farmers	0	-
	Top N:	Applied farmers	42	37.1
		Non-applied farmers	9	8.0
		Total	51	<u>45.1</u>
		Amount applied (kg/ha)	38.7	-
	Top P:	Applied farmers	0	-
	Top K:	Applied farmers	0	-
Weeding	Weeded f	armers	106	93.8
		led farmers	7	6.2
	Total		<u>113</u>	<u>100.0</u>
Disease control	Controlled	i farmers	2	1.8
		rolled farmers	111	98.2
	Total		113	100.0
Pest control	Controlled	d farmers	20	17.7
		rolled farmers	93	82.3
	Total		113	100.0

		M	aize			R	ice		
	Family Labour	Employed Labour	Total (A)	%	Family Labour	Employed Labour	Total (A)	%	(B)/(A) %
Land preparation	44.9	2.5	47.4	30.8	100.8	8.4	109.2	16.1	230
Sowing	13.2	0.3	13.5	8.8	41.9	5.5	47.4	7.0	351
Transplanting	-	-	-	-	94.6	14.5	109.1	16.1	-
Harvesting	25.2	2.6	27.8	18.1	92.1	10.8	102.9	15.1	370
Weeding	43.7	4.9	48.6	31.6	94.0	22.8	116.8	17.2	240
Disease, pest control	16.4	0.0	16.4	10.7	152.7	40.7	193.4	28.5	1,179
Total	143.4	10.3	153.7	100.0	576.1	102,7	678.8	100.0	442
%	93.3	6.7	100.0		84.9	15.1	100.0		-

Table 3.10.14 LABOUR REQUIREMENT FOR MAIZE AND RICE CULTIVATION

Itme		Male head	Male headed household		Female h	Female headed household	Farmers living on	Average
F 1	TA kac	TA kachindamoto	TA other th	TA other than Kachindamoto			agriculture and	
	upland	up/low land	upland	up/low land	upland	up/low land	fisheries	
(A) Family size	5.7	5.5	8.4	6.1	5.6	5.0	7.0	5.8
(B) Culivated Iand (ha)						-'		
Upland	1.6	0.1	3.0	1.9	0.9	0.9	2.7	1.4
Lowland	0.0	0.4	0.0	0.3	0.0	0.3	0.1	0.4
Total	1.6	1.4	3.0	2.2	0.9	1.2	2.8	1.8
(C) Sale of products (MK)				· · · · · ·				
Crops	215.9	256.6	406.3	344.8	60.9	1.79	436.3	228.3
Livestock	5.2	50.4	248.0	1,331.0	40.0	8.8	29.2	150.0
Total	221.1	306.9	654.3	1,675.8	100.9	105.9	465.5	378.3
(D) Non-farm income (MK)	96.1	120.7	30.5	182.9	104.8	130.5	3,975.0	289.3
(E) Total income (MK)	317.2	427.6	684.8	1,859.2	205.7	236.4	4,440.5	667.6
(F) Production Cost (MK)	127.8	154.9	441.0	298.0	122.4	92.3	998.5	208.6
(G) Living expenditure (MK)	445.8	610.3	778.5	518.1	432.2	579.4	1,700.4	618.5
(H) Total outgo (MK)	573.6	765.2	1,295.5	816.1	554.6	671.7	2,698.9	827.1
(I) Balance (MK)	-256.4	-337.6	-534.7	1,043.1	-348.9	-435.3	1,741.6	-159.5
Number of camples	17	УV	œ	ť	v	÷	*	00

Table 3.10.15 FARM BUDGET OF THE TYPICAL FARMERS IN THE STUDY AREA

I - T - 50

Data source: the farmer's economic survey conducted by the JICA study team on November, 1992

Table 3.10.16 ANNUAL LIVING EXPENDITURES PER CAPITA

ltems		Male headed household	d household	I .	Female head	Female headed household	Farmers living Averaage	Average
	TA Kachidamoto	damoto	TA other the	TA other than Kachidamoto	Upland	Upland	on agriculture	
	Upland	Upland/Lowland	Upland	Upland/Lowland	Upland	Lowland	and fisheries	
Family size (Nos)	5.7	5.5	8.4	6.1	5.6	۲	~	5.8
Living expenditure								
(1) Food (MK)	258	383	194	278	300	404	1231	372
(%)	58	63	25	54	69	70	72	8
(2) Other expenses* (MK)	188	228	584	241	132	175	470	246
(%)	4 4	37	75	46	31	30	28	40
(3) Total (MK)	446	610	611	518	432	579	1701	618
(%)	100	100	001	100	100	100	100	100
Per capita expenses other than food (MK)	33	41	10	40	23	35	67	42

Table 3.10.17 DETAILS OF LIVING EXPENDITIRES

Partic	ular	Amount	Percentage	Percentage*
	<u></u>	(MK)	(%)	(%)
(A) Fo	pods	372	60	
(B) Ex	xpenses other than foods	246.4	40	
	Housing	6.8		2.8
	Fuel	11.5		4.7
	Funiture/household utensils	27.8	· .	11.3
	Clothing and footwear	115.2		46.8
	Medical care	23.5		9.6
	Transportation and communication	20.6		8.4
	Education	23.3		9.5
	Other expenses	7.2		2.9
	Taxes	3.5		1.4
	Public imposts and obligation	7		2.8
(Ċ)	Total	618.4	100	100

Note: *=Percentage for the total expenditures except food

RDP	Cattle	Goat	Smallholder Sheep	Fie	Poultry	Cattle	Goat	Estate Sheep	Pie	Poultry	Cattle	Goat	Government t Sheep	Pie	1 2	Poultry	ultry Cattle	· 1	Carle	Cattle Goat
1. Bwanje Valley	1.			0						<i>L</i>			1	2			/ Tana -	anna fana a		daaren una a a a a a a a a a a a a a a a a a
1985	25,795	37,850	2,802	2,693	48,618	425	28 S	132	412	04			c		Ċ			26,220	26,220 37,935	26,220 37,935 2,934
1987	20,02	10.11		10 241	151 003	785	071 801	8 F	510 510	8 8	1 5		50	- C		50		201,02	20,701 44,10/	20,101 44,101 2,120
1028	12 730	77 435	0.14	16.073	310 921	38	3 5	2 1	220	2 2	15	. .	00	> c		> <		000000 VVV 000	20,404 004,00 20,404 04 02	007'C 547'CT 001'00
1989	33.1.55	320.75	3 174	7 448	115.915	227	4 4	3 22		C01	1 2) <	> c	~				24 44	170114 44400 28 77 27 28	34 441 37 160 3 700
10001	25,033		282 6	011 S	124 277	1 246	ţ	50	o c	17	1 -	> <	> <	> c		> c		24440	2071/0 144/40	3/7/0 2011/0 141400 3/2/0 1011/0 14140
1661	32,414		2,693	11 527	153.855	467	35	105	00	158	12	ာင	. c	00		> c		37 803	37 803 47 808	37 803 47 808 7 708
Average	29,935	42,260	2,926	10,068	117,527	869	106	116	201	83	12	0	0	ò	1	20	0 30,643	30,643	30,643 42,366	30,643
7 Salima		•																-		
	17.580	17 483	3.051	1,750	66.468	146	5	30	38	10	1.716	200	155	C	~	6		19 447	19 447 18 487	19 447 18 487 3 736
1986	16,539		3,091	2,036	43,090	204	34	5	0	460	1.396	1.287	6	0	4	470	70 18,139		18,139 25,671	18,139
1987	23,024	27,026	3,672	2,129	47,423	220	46	34	0	534	1,719	11,549	525	0	3	98		24,963	24,963 38,621	24,963 38,621 4,231
1983	23,171		4,621	2,369	42,100	234	20	39	0	0	1,349	1,762	460	0	-	66		24,754	24,754 29,741	24,754 29,741 5,120
1989	22,487	22,715	4,010	2,912	47,125	350	127	20	0	665	1,201	1,393	450	0	14	ខ		24,038	24,038 24,235	24,038 24,235 4,480
1990	24,412		4,832	3,386	63,002	360	244	17	0	710	1,216	1,006	341	0	***	6		25,988	25,988 49,591	25,988 49,591 5,244
1661	21,645	62,559	6,025	1,736	61,605	349	239	100	0	425	1,311	. 689	344	0	σ	6		23,305	23,305 63,487	23,305 63,487 6,469
Average	21,265		4,186	2,331	52,973	266	115	46	5	401	1,415	2,656	353	0	9	6		2,947	22,947 35,690	22,947 35,690 4,585
3. Nkhotakota										÷										
1985	3,359		1,682	676	68,946	11	0	0	36	5,880	0	0	0	0		0		3,370	3,370 9,760	3,370 9,760 1,682
1986	3,230	8,276	2,040	572	72,920	£	0	150	8	12,240	0	0	0	0		0		3,329	3,329 8,276	3,329 8,276 2,190
1987	3,738		1,238	592	76,122	22	0	8	103	14,321	9	0	0	0		o		3,836	3,836 9,312	3,836 9,312 1,331
1988	3,396	7,195	1,746	310	35,156	108	28	268	17	11,953	9	0	0	0		0		3.510	3.510 7,223	3,510 7,223 2,014
1989	2,907	11,645	2,009	571	45,197	238	0	ŝ	4 6	716	6	0	0	0		0	0 3,151	3,151	3,151 11,645	3,151
1990	2,907	11,645	2,069	571	45,197	236	0	رک ا	Ŧ	780	Ŷ	0	0	0		0		3,149	3,149 11,645	3,149 11,645 2,120
1661	3,823	11,419	3,391	2,176	44,468	505	0	0	5	0	6	0	0	0		0		4,132	4,132 11,419	4,132 11,419 3,391
Average	3,337	9,893	2,025	181	55,429	155	4	81	57	6,556	4	0	0	0	_	10		3,497	3,497 9,897	3,497 9,897 2,112
Total Salima ADD	a							-												
1985	46,734		7,535	5,119	184,032	582	182	162	486	5,930	1,716	202	155	0	13	3		49,032	49,032 66,182	49,032 66,182 7,852
1986	39,846		8,171	14,978		975	154	259	511 S	12,780	1,408	1,287	197	0	47	0		42,229	42,229 78,114	42,229 78,114 8,627
1987	56,597		8,069	13,562	274,638	868	174	204	422	14,950	1,737	11.549	525	0	29	ø		59,232	59,232 93,676	59,232 93,676 8,798
1988	59,806		1	19,502		535	140	373	327	12,058	1,367	1,762	460	0	13	6	9 61,708	61,708	61,708 84,491	61,708
1989	58,549			10,931	12	1,862	201	238	\$	1,423	1,219	1,393	450	0	ы	ŝ		61,630	61,630 73,042	61,630 73,042 9,831
1990	62,352		10,484	12,731		1,862	329	305	41	1,551	1,234	1,006	341	0	19	9		65,448	65,448 102,363	65,448 102,363 11,130
1991	57,882	116,721	12,109	15,439	259,928	1.119	394	205	-	583	1,329	689	344	0	5	6		60,330	60,330 117,804	60,330 117,804 12,658
Average	54,538	85,072	9,137	13,180	225,929	1,119	225	249	263	7,039	1,430	2,656	353	0	169	a	57,087		57,087 87,953	57,087
Source:	Annual	ivestock	Census, S	LADD,	Annual Livestock Census, SLADD, 1985 - 1991															

Table 3.11.1 ANIMAL POPULATION IN SALIMA ADD (1985 - 1991)

							Unit: head
RDP	Cattle	Goat	Sheep	Poultry	Pig	Donkey	Total
1. Lilongwe							
1985/86		77,073	3,818	181,092	21,208	-	347,240
1986/87		76,784	3,965	120,965	33,288	201	309,974
1987/88		-	-	~	-	-	*
1988/89		-	-	-		-	. •
1989/90		91,109	3,966	601,825	33,914	328	799,550
Average	69,076	81,655	3,916	301,294	29,470	265	485,588
2. Lilongwe H							
1985/86		-		. 🛥		-	
1986/87		45,063	4,360	90,572	8,023	110	188,645
1987/88		45,682	4,644	84,540	9,072	88	184,744
1988/89			-	-	-	-	-
1989/90		50,048	3,380	114,026	11,178	201	218,446
Average	40,283	46,931	4,128	96,379	9,424	133	197,278
3. Thiwi Lific	lzi						-
1985/86	29,769	33,332	635		10,648	-	74,384
1986/87	29,711	29,452	661	101,609	10,436	932	172,801
1987/88	30,439	29,835	655	74,195	11,031	922	147,077
1988/89	-	-	•	·	-	-	-
1989/90	32,678	27,611	681	70,296	10,319	1,098	142,683
Average	30,649	30,058	658	82,033	10,609	984	134,236
4. Dedza Hills	S					•	
1985/86				-	-	<u></u>	-
1986/87		38,447	1,937	79,471	5,365	12	143,510
1987/88		39,835	3,039	87,627	6,535	20	156,109
1988/89		· · -		-		· · · · · ·	-
1989/90	15,573	19,598	1,524	43,922	5,497	12	86,126
Average	17,635	32,627	2,167	70,340	5,799	15	128,582
5. Nicheu							
1985/86	33,547	34,040	693	104,980	20,930	51	194,241
1986/87		35,246	646	115,987	19,323	29	206,185
1987/88		36,159	640	135,938	22,189	150	228,474
1988/89		-	_	-	· _		-
1989/90		40,112	923	126,126	20,465	17	220,092
Average	***************************************	36,389	726	120,758	20,727	62	212,248
Total Lilingwe	ADD		·	•	н 		
1985/86		144,445	5,146	286,072	52,786	51	615,865
1986/87		224,992	11,569	508,604	76,435	1,284	1,021,115
1987/88		151,511	8,978	382,300	48,827	1,180	716,404
1988/89						_,	
1989/90	and the second se	228,478	10,474	956,195	81,373	1,656	1,466,897
Average	*********************************	187,357	9,042	533,293	64,855	1,030	955,070

Table 3.11.2 Animal Population of Lilongwe ADD (1985/86 - 1989/90)

		~		Į	Jnit: head
RDP	Cattle	Goat	Sheep	Poultry	Pig
I. Livestock population	i by RDP				
1. Bwanje Valley	30,643	4,366	3,041	117,610	10,269
2. Dedza Hills	17,635	32,627	2,167	70,340	5,799
3. Ntcheu	33,587	36,389	726	120,758	20,727
Total	81,865	73,382	5,933	308,708	36,795
II. Livestock populatio	n in the study a	rea	·		
1. Bwanje Valley	14,218	2,026	1,411	54,571	4,765
2. Dedza Hills	5,114	9,462	628	20,399	1,682
3. Ntcheu	10,882	11,790	235	39,126	6,715
Total	30,215	23,278	2,274	114,095	13,162

 Table 3.11.3
 Estimated Animal Population of the Study Area

No. Pro	oduct Parameter	Unit	Amount
1. Annual Me	eat Production		
1.1 Bec	ef		· ·
	(1) Cattle population	heads	54,500
	(2) Slaughter rate	%	16.1
	(3) Average liveweight of cattle when slaughtered	kg	250
	(4) Dressing-out percentage	%	- 5(
	(5) Total carcas	ton	1,095
1.2 Sm	allstock (Goats/Sheep)		
	(1) Smallstock population	heads	94,200
	(2) Slaughter rate	%	9.9
	(3) Average liveweight of smallstock when slaughtered	kg	4(
	(4) Dressing-out percentage	%	4(
	(5) Total carcas	ton	149
1.3 Chi	cken		
	(1) Chicken population	heads	226,000
	(2) Average mature livewight	kg	0.8
	(3) Dressing-out percentage	%	75
	(4) Total carcas	ton	144
1.4 Tot	al Meat	ton	1,388
2. Annual M	ilk Production		• .
	(1) Cattle population	heads	54,500
	(2) Cow percentage in herd	%	59.3
	(3) Cow population in herd	heads	32,319
	(4) Cow in lactation period /1	heads	13,353
	(5) Annual lactation yield	kg	300
	(6) Total milk /2	ton	4,000
3. Annual Eg	g Production		
	(1) Chicken population	heads	226,000
	(2) Chicken (female) population	heads	113,000
	(3) Annual egg production/female/3	nos.	4(
	(4) Total eggs	nos.	4,520,000
4. Hides and	Skins	a.	
	(1) Annual hides production	nos.	2,100
	(2) Annual skins production	nos.	2,300
Remarks:	 /1; estameted on the basis of calf pop 11.9% in herd, female calves 12. /2; including milk for calf /3; Agricultural Compendium, Elsevi 	6%)	ale calves:

Table 3.11.4 Estimated Animal Production in Salima ADD

					Ţ	Jnit: head
RDP	Bulls	Castrated	Cows	Male	Female	Total
		Males		Calves	Calves	Cattle
1. Bwanje Valley						
1989	1,717	2,826	21,612	3,955	4,331	34,441
1990	1,708	3,149	22,395	4,376	4,683	36,311
1991	1,835	2,909	19,889	4,131	4,129	32,893
Average	1,753	2,961	21,299	4,154	4,381	34,548
% in Herd	5.1	8.6	61.6	12.0	12.7	100.0
2. Salima					·	
1989	1,429	2,969	13,554	2,846	3,240	24,038
1990	1,376	3,329	14,573	3,155	3,555	25,988
1991	1,333	2,355	13,247	2,829	2,544	22,308
Average	1,379	2,884	13,791	2,943	3,113	24,111
% in Herd	5.7	12.0	57.2	12.2	12.9	100.0
3. Nkhotakota		•			: 	
1989	317	467	1,808	297	262	3,151
1990	350	782	2,128	385	421	4,066
1991	307	1,270	1,786	348	415	4,126
Average	325	840	1,907	343	366	3,781
% in Herd	8.6	22.2	50.4	9.1	9.7	100.0
Total Salima ADD	н. 19				·	
1989	3,463	6,262	36,974	7,098	7,833	61,630
1990	3,434	7,260	39,096	7,916	8,659	66,365
1991	3,475	6,534	34,922	7,308	7,088	59,327
Average	3,457	6,685	36,997	7,441	7,860	62,441
% in Herd	5.5	10.7	59.3	11.9	12.6	100.0
Source: A	nnual Live	stock Census,	SLADD, 19	089 - 1991		

Table 3.11.5 Cattle Herd Composition in Salima ADD (1989 -1991)

Table 3.11.6 FISH YIELD IN SALIMA AND NKHOTAKOTA

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Vear	Minor Stratum	Ian	Hoh Yoh	Mar	Anr	May	Lui I	141	Auc	Con	Ċ	Nov	L L	Total
3		THOP		70TAT	de	(BTTT	7777		9mc	420	3	1011	3	T OIGT
1990	Mtakataka	45.1	32.1	48.7	34.8	73.9	57.5	56.3	61.2	75.2	59.8	29.7	38.8	613.0
	Chipoka	80.5	69.4	98.0	140.5	132.6	117.0	284.7	170.2	107.8	165.4	93.3	66.3	1,525.6
	Senga-Bay	57.8	21.1	24.0	41.2	33.6	91.3	227.9	58.9	114.0	104.0	59.9	98.1	931.7
	Domira-Bay	87.0	72.1	198.8	202.1	155.9	145.5	124.3	48.3	87.5	87.5	319.4	84.6	1,613.1
	Total	270.4	194.8	369.5	418.5	396.0	411.3	693.2	338.6	384.4	416.6	502.4	287.8	4,683.4
	Nkhotakota S	74.6	60.0	51.9	77 8	54.8	4154	193.9	104.2	146.8	673	303	763	13533
	Chia Lagoon	76.6	31.0	57.5	40.6	26.1	24.0	29.2	19.5	18.7	43.4	37.6	46.3	450.5
	Nkhotakota C.S.	21.5	60.4	18.5	27.4	1.5	45.6	137.4	64.0	31.6	36.4	36.5	23.9	504.7
	Nkhotakota C.N.	53.0	25.5	55.9	68.8	88.1	98.4	167.4	19.1	122.8	223.0	44.5	107.2	1,073.7
	Nkhotakota N.	113.6	143.4	98.7	132.1	129.3	137.7	185.7	250.3	95.7	101.6	313.6	266.2	1,967.9
	Total	339.3	320.2	282.6	346.8	299.8	721.1	713.6	457.0	415.7	471.6	462.5	519.9	5,350.0
1661	Mtakataka	23.6	50.9	95.3	38.1	66.5	26.6	12.5	71 5	200 5	757	0 77 0	27.6	0 T T T O
	Chipoka	108.5	374.0	291.6	528.0	158.5	248.9	188.4	506.2	534.5	509.2	447.0	586.9	4 481 7
	Senga-Bay	65.3	25.0	22.9	69.4	16.7	21.4	27.3	226.7	127.9	32.1	33.8	22.7	691.1
	Domira-Bay	198.8	74.2	107.0	23.9	18.4	13.6	29.9	66.0	292.8	38.4	49.4	157.6	1,069.9
	Total	396.1	524.0	516.8	659.4	260.2	310.6	258.1	870.5	1,164.6	655.4	607.3	794.9	7.017.7
							·	· .						
	Nkhotakota S.	38.5	670.5	159.7	102.0	38.8	36.5	135.2	166.1	112.1	245.5	35.6	29.6	1.770.1
	Chia Lagoon	62.3	78.5	21.7	24.3	19.4	9.8	28.8	43.5	50.8	40.5	20.6	23.1	423.3
	Nkhotakota C.S.	45.0	33.5	12.2	39.6	28.8	50.2	56.2	88.6	33.1	19.1	8.8	15.8	430.7
	Nkhotakota C.N.	45.7	30.2	90.8	35.3	33.8	38.5	67.8	1,017.5	313.9	87.1	38.3	9.66	1,898.4
	Nkhotakota N.	221.6	84.1	60.4	49.8	114.1	11.2	52.4	40.5	22.9	71.9	27.2	98.5	854.6
	Total	413.1	896.8	344.7	250.9	234.9	146.1	340.4	1,356.1	532.7	464.2	130.5	266.7	5,377.2

Region/Rural	Total	Flush toilet		Pit Latrine		Bucket	None
and Urban		Exclusive	Shared	Exclusive	Shared		
(1) Whole Malawi							
- All area	100	2.8	0.8	51.4	12.4	0.1	32.6
- Rural	100	0.9	0.5	52.5	10.3	0.1	35.8
- Urban	100	19.2	3.8	41.3	30.7	0	5.1
(2) Central Region							
- All area	100	2.7	0.8	49	11.5	0.1	36
- Rural	100	0.8	0.6	50.1	9.3	0.1	39.1
- Urban	100	20.5	2.8	37.9	32.6	0	6.1
(i) Dedza district	100	0.9	0.2	62.5	10.7	0.1	25.6
(ii) Ntcheu district	100	0.8	0.1	59.2	15.9	0.1	23.8
(3) Southern Region	·						
- All area	100	. 3	0.9	52.1	13.4	0.1	30.4
- Rural	100	0.9	0.5	53.6	11.1	0.1	33.8
- Urban	100	19	4.7	40.6	31.5	0	4.2
(i) Mangochi district	100	1.1	0.4	64.2	6.4	0	27.8

Table 3.13.1 Type of Toilet Facility Available to Population in Households

Data source: Malawi population and housing census 1987

Region	Total	Piped	Piped	Communal	Borchole	Well	(unit: %) Spring	Stream/	Lake and
rural/urban	1 Otat	inside	outside	stand	Dottilote	** 011	oping	river	dam
and season		DU	DU	pipe				11001	uum
	·····		00	<u>pipu</u>				····	· · · · · · · · · · · · · · · · · · ·
Malawi									
(1) Whole									
wet season	100	2.2	3.1	18.3	13.4	43.5	0.8	17	1.8
dry season	100	2.2	3	17.4	13.2	43.8	0.8	17.7	1.9
(2) Rural									
wet season	100	0.5	1.1	15.5	14.4	47	0.8	18.7	1.9
dry season	100	0.5	1.1	14.5	14,1	47.4	0.9	19.5	2
(3) Urban									
wet season	100	16.6	19.4	42.6	5.2	13.2	0.2	2.1	0.6
dry season	100	16.6	19.3	42.6	5.3	13.1	0.3	2.1	0.6
Central Region	_								
(1) Whole									
wet season	100	2.4	2.6	9	16.9	53.3	0.6	14.7	0.6
dry season	100	2.3	2.6	8.8	16.4	53.4	0.6	15.3	0.6
(2) Rural									
wet season	100	0.5	0.9	6.3	17.9	57.1	0.6	16.1	0.6
dry season	100	0.5	0.9	6	17.4	57.2	0.6	16.6	0.6
(3) Urban									
wet season	100	19.6	18.2	35,5	7.3	17.1	0.3	1.9	0.2
dry season	100	19.6	18.1	35.5	7.3	17.2	0.3	1.9	0.2
Southern Region									
(1) Whole									
wet season	100	2.2	3.6	24.8	11.5	37.6	0.9	17.1	2.3
dry season	100	2.2	3.6	23.3	11.3	37.9	0.8	18.5	2.4
(2) Rural									
wet season	100	0.5	1.3	22	12.5	41.2	0.9	19	2.4
dry season	100	0.5	1.3	20.3	12.2	41.6	0.9	20.6	2.6
(3) Urban									
wet season	100	15.3	21.6	46.4	4	9.6	0.2	2,1	0.9
dry season	15.3	21.4	46.5	46.6	4	9.4	0.4	2.1	0.9

TABLE 3.13.2 SOURCE OF DRINKING WATER FOR PEOPLE

Data source: Malawi Populaton and housing census 1987

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TABEL
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	<u>е</u>	crcentage distribu	Percentage distribution of education attendance aged Syears and over	tendance aged 5	years and over		Literacy
· · ·	Total popu-	Never	Primary	Primary	Secondary and	Not	rate
	lation above 5	altended	std1-3	std4-8	over	stated	(1)(%)
(A) Whole Malawi							
total	6,594,557	54.8	17.5	24.2	3.4	0.1	41.6
Male	3,178,708	44.7	19.7	30.4	5.1	0.1	52.4
Female	3,415,849	64.3	15.5	18.4	1.7	0.1	31.6
(B) Central Region							
total	2,541,503	55.8	18.1	23	'n	0.1	41.3
Male	1.240.231	5.95	20	29.1	4.5	0.0	515
Tems e	1 301 277	640	16.7	173	• •	10	216
() Belatad districts to the Sheeks Area			7.01				0.10
C) related that tells to the plucy Area							
	000 000	d t					t
	UU 4, 5 5 5	61.9	14.0	2.0.2	0,1	1.0	2
Male	151,628	59	17.7	20.6	2.6	0.1	39.3
Female	182,272	75.3	12.1	11.8	0.7	0.1	22.2
- Ntcheu							
(alo)	294,827	56.7	20.1	21.2	7	0.1	40
Male	133,457	47	22.7	26.9	3.3	0.1	50.6
Female	161370	54.8	6.1	16.4	00	0.1	313
- Mangochi					;		:
total	411.682	59.1	16.1	21.4	د. م	0.1	23.3
Male	192,865	47.9	19	27.9	13	0.1	33.8
Fentale	218.817	69.3	13.5	153		10	4
		2			2	;	•
	Total popu-	Never	Primary	Secondary and	t		
	lation above 5	attended	std 1-8	over			
uistrations(TAs) related	to the Study Area						
(1) Dedza district							
- T.A.Kasumbu	33,412	75.7	23.2	1.1			
- T.A.Kachindamoto	41,757	65.3	32.5	2.2			
- S.T.A Kamenya Gwaza	17,945	54.4	43.2	2.4			
- Dedza city	13,640	49.9	43.1	7			
(2) Ntcheu district							
- T.A.Kwantaine	25,569	49.8	47.7	2.5			
- S.T.A.Makwangwala	51,168	53.2	44.8	~			
- T.A.Njolommole	46,952	59.6	38.4	7	•		
- T.A. Chakhumbira	23,095	65.5	33.4	1.1			
- S.T.A.Goodson Ganya	56,276	55	43.2	1.8			
- T.A.Masasa	15,232	56.9	41.3	1.8			
(3) Mangochi district							
- T.A Mipando	34,156	66.6	32.2	1.2			
Total of all the related TAs in 3 districts	359,202	1.65	38.7	2.2	1		
(E) Estimate for the Studie Ana	UNU OFC	202	10	c	1		
ch running in the old of his and	NN.087			7			

Table 3.14.1 PURCHASERS AND PROCESSORS OF SMALLHOLDER CROPS IN MALAWI

	Crop	First Purchaser	Second Purchaser	Destination	Remarks
1.	Maize	ADMARC Private Traders		Maize harvested in Salima ADD is collected and consumed mainly in and around Salima township. In good harvest seasons, maize is transported to Blantyre ADD for consumers in Lower Shire.	In Salima, maize varieties such as local flint, composite and hybrid are traded with the same manner.
2.	Rice	ADMARC Private Traders	National Oil Industries Ltd. (NOIL) in Blantyre	Mainly local consumers, and limited export to Zambia.	Large amount of paddy is dealt with by ADMARC, but little by private traders.
3.	Cotton	ADMARC Private Traders	ADMARC ginnery in Baraka Chigonamikango Ltd. in Salima	After sorting into three grades, lint of grades I & II is exported, and one of grade III is sold to Devid & Whitehead Ltd., textile	Private traders are officially permitted to participate in cotton market in crop season 1992/93.
				company. Cotton seeds are sold to Lever Brothers Ltd. NOIL, and Kukoma Ltd. (local) for oil extraction	
4.	Groundnuts	ADMARC Private Traders	Lever Brothers Ltd. in Blantyre Private buyers	Edible oil is both for local consumption and export.	Cropped area has declined since late 1980's
5.	Торассо	ADMARC (monopoly)	Auction Holding Ltd. in Limbe and Lilongwe		Malawi's biggest export earner. About 84% is grown by share farmers on commercial estates.
6.	Soyabeans	ADMARC	K.K. Millers Ltd. in Kanengo Grain and Milling Ltd. in Lilongwe	Processed for animal feed and locally consumed	As promoted with new varieties by Salima ADD, soybeans become more popular.
7.	Oilseeds Sunflower Sesame Castor seeds Sugar beans	ADMARC	Lever Brother Ltd.		
8.	Chilies	ADMARC Private Traders	Private factory in Blantyre	Birdseye varieties (small) for export and Capscum vareties (large) for domestic consumption	

Source: Salima ADD

Table 3.14.2 ADMARC PURCHASING AMOUNTS OF SMALLHOLDER CROPS

	•	:									Unit: tor
Crop	1982/83	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	.991/92*	Ave
Maize											
North Region	46,306	46,284	46,553	68,049	48,830	na	na	na	56,537	32,000	49,223
Central Region	152,993	168,899	151,775	159,658	54,508	na	na	na	165,322	36,615	127,110
South Region	45,617	67,940	98,075	38,058	7,993	na	na	na	35,795	2,067	42,221
Malawi	244,916	283,123	296,403	265,765	111,331	59,466	233,026	231,680	257,654	70,682	205,405
Paddy										1	
North Region	na	na	4,647	4,647	5,806	na	na	na	1,821	910	3,566
Central Region	na	na	1,318	1,409	1,545	na	na	na	335	472	1,016
South Region	na	na	4,660	4,172	4,072	na	na	na	790	560	2,851
Malawi	na	na	10,625	10,228	11,423	6,887	11,336	7,920	2,946	1,942	7,913
Groudnuts*		·									
North Region	1,130	676	731	1,825	4,111	527	27	na	379	201	1,067
Central Region	13,860	19,911	na	na	na	na	na	na	4,916	1,598	10,071
South Region	150	300	na	na	na	na	na	na	12	21	121
Malawi	15,140	20,887	18,251	53,050	44,825	na	600	4,450	5,307	1,820	18,259
Beans											
North Region		421	820	1,738	1,875	1,582	234	179	1,012	663	947
Central Region		4,411	4,966	5,265	na	na	na	na	2,361	1,855	3,772
South Region		10,272	9,928	19,073	na	na	708	na	11	7	6,667
Malawi	2,186	15,104	15,714	26,076	10,054	na	na	na	3,384	2,525	10,720
Sunflower				·							
North Region	5	14	73	40	. 74	202	26	410	2,326	3,200	637
Central Region	na	50	15	33							
South Region	na	289	814	552							
Malawi	na	515	190	172	155	na	na	na	2,665	4,029	1,288
Oriental Tobacco						:					
Malawi		614.6	184.8	387.5	109.0	163.0	279.9	na	na	na	289.8

Source: ADMARC Regional Office Central

Guide to Agricultural Production

Monthly Bulletin of Statistics, National Statistical Office

Economic Report 1989, 1992

Remark: *; estimated by MOA

Table 3.14.3 ADMARC - PURCAHSED AMOUNTS OF SMALLHOLDER CROPS BY SALIMA DIVISIONAL OFFICE (1989/90 - 1991/92)

Area Office	Secd	Maizc	Paddy	Ground-	Sov	Sun-	Caster (Chillies F	Piecon S	Sesame B	Beans	Cow C	Cashew C	Chillies Sorghum Green-	rehum (Field	Total	Propo-
	Cotton			nuts		5						peas	DULS C	Capscum	,		peas	(kg)	tion (%)
1. Mtakataka																			
1989/90	1,140,329	287,604	133,014	30	1,765	16	1,665	0	2,839	1,196	Ċ	755	0	0	396	132	0	1,569,288	
16/0661	1,623,796	180,518	1,388	0	5,317	3,956	1,048	1,419	601	236	0	0	0	0	129	0	0	1,818,279	
1991/92	1,180,232	0	2,951	0	4,851	1,379	176	1,305	0	75	0	0	0	1	0	109	13	1, 190,958	
Average	1,314,786	156,041	45,784	10	3,978	1,809	963	906	1,147	499	0	252	0	0	175	80	4	1.526,175	14.0
2. Salima																			
1989/90	2,671,000	905,304	100,650	32	297	0	11,511	0	3,423	164	0	0	147	0	0	0	0	3.692.528	
1990/91	1,803,830	40,235	88,599	68	638	107	9.332	200	50	600	0	0	166	0	0	:16	0	1 943 825	
1991/92	1 248,543	0	0	18	3,425	1.305	5.343	320	ò	590	0	0	0	27	0	0	0	1 259 544	
Average	1.907.791	315.180	63.083	39	1.453	171	8.729	173	1.158	451	0	0	104	6	c	30	C	2 298 63 2	21.0
3. Benga																	,		
06/6861	1.983.578	595.659	39.917	158.320	152	0	0	a	53	41	0	0	0	0	0	c	C	0077770	
16/0661	2 479 065	157 140	77,798	206,852	2 538	1 496	c	84	¢	5	c	c	¢	- c	, c		C C	2 075 005	
1991/92	2,084,125	7 489	110	114,823	2.487	40	0	120	× 4	33	0	260	193	0	00) c	5 6	2 200 684	
Average	2,182,256	253,429	39,275	159,998	1.726	512	0	68	22	32	0	87	64	0	0	0		2.637.470	24.1
4. Nkhotakota																			
06/6861	13,539	14 710	911.942	1353	0	0	0	0	0	0	0	0	0	0	Û	c	G	941 544	
1990/91	42,404	2,166	158,322	0	189	0	0	0	0	0	752	0	0	0	0	0	0	203.833	
1991/92	44,318	227	0	1,040	3,136	1,031	0	110	0	180	8	56	172	0	6	\$	6	50.330	
Average	33,420	5,701	356,755	798	1,108	344	0	37	0	60	271	19	57	0	3	6	m	398,569	3.6
5. Khombedza				1 .															
06/6861	1,357,757	571,002	38,076	13,301	<i>LLL</i>	0	1,889	0	144	144	0	0	112	0	41	0	0	1,983,202	
16/0661	1,942,419	350,364	5,078	1,456	2,462	498	893	69	0	283	0	0	0	0	0	0	ö	2,303,522	
1991/92	1,178,855	43,141	0	5,000	10,582	761	341	ระ	0	14	0	0	0	74	0	0	0	1,238,719	
Average	1,493,010	321,502	14,385	6,586	4,607	420	1,041	31	48	147	0	0	37	25	14	0	0	1,841,814	16.8
6. Mkhunga																			
1989/90	69,121	372,646	320,957	828	1,095	Ö	0	0	1,216	0	542	83	o	ð	0	0	0	766,433	
16/0661	197,182	442,138	5,188	651	1,275	3,806	0	1,429	576	¢	0	ង	0	o	0	0	0	652,273	
1991/92	154,389	39,865	204	10,397	2,814	18,365	0	6,047	11	0	717	361	76	737	o	0	Q	233,246	
Average	140,231	284,883	108,783	3,959	1,728	7,390	0	2,492	601	0	420	139	25	246	0	0	0	550,651	5.0
7. Chinguluwe 1989/90		•																	
199091	1.254,897	1.172.888	0	2,169	3.051	133	C	C	C	c	c	C	c	c	¢	C	C	2 432 132	
1991/92	864,211	49,889	0	- 5 6	7,489	1,118	0	0	0	: O	0	0	16	0 0	0	0	0	922.893	
Average	1,059,554	611,389	0	1,132	5.270	626	0	0	0	0	0	0	46	0	0	0	0	1 678 016	154
Salima Divisional Office																			
06/6861	7,235,324	2,746,925	1,544,556	.173,864	4,086	91	15,065	0	7,675	1,545	542	783	259	0	437	132	0	11.730.715	
16/0661	9,343,593	2,345,449	336,373	211,196	15,470	9,996	11,273	3,201	1,227	1,151	752	38	166	0	129	116	0		
1991/92	6,754,673	140,611	3,265	131,373	34,784	23,999	5,860	7,927	R	118	777	677	532	839	6	117	3	7,105,374	
Average	7,777,863	1,744,328	628,065	172,144	18,113	11,362	10,733	3,709	2,976	1,189	690	496	319	280	192	122	F	10,931,327	100.0
	77/	10.0			11.0		21.0	0.03	0.05	10.0	10.0	6.0	0.00	0.00	0.0	0.0	0.0	100.0	

Table 3.14.4 ADMARC - PURCAHSED AMOUNTS OF SMALLHOLDER CROPS BY BALAKA DIVISIONAL OFFICE (1990/91 - 1991/92)

	Cotton			nuts	beans	flower	seed	Total	pcas			peas	มนร			gram	8		tion (%)
l. Manjawira																			
16/0661	761,796	53,801	0	288	1,000	•		15,459	6,009	68	0	266	0	0	75	. 78	0	839,067	
1991/92	1,411,634	881,051	0	0	5,855	090'6	0	6,384	4,911	258	¢	241	0	0	680	154	9,327	2,319,394	
Average	I,086,715	467,426	0	144	3,428	4,530	190	10,922	5,460	163	0	254	0	0	378	116	4,664	1,579,231	5.1
2. Balaka																			
16/0661	1,156,355	256,745	26,030	502	0	2,640	1,455	10;672	15,937	4,661	0	4,366	0	0	7	8,010	0	1,479,363	
1991/92	1,651,233	528,505	3,760	371	1,737	42,968	0	19,346	4,143	6,425	0	0	41	0	812	3,281	0	2,258,529	
Average	1,403,794	392,625	14,895	437.	869	22,804	728	15,009	10,040	5,543	٩	2,183	21	0	410	5,646	ō	1,868,946	. 6.0
3. Mangochi											.]
16/0661	133,703	768,630	107,405	671	595	194		38,334 1	104,847	2,033	1,885	35,772	ò	242	0	421	0	1,194,082	
1991/92	1,485,676	647,832	19,457	o	8,785	16,433	0	8,309	59,020	ö		10,748	253	0	0	0	0	2,256,513	
Average	809,690	708,231	63,431	336	4,690	8,314	2	23,322	81,934	1,017	943	23,260	127	121	0	211	0	1,725,298	5.5
4. Bilila		•				· .												:	
16/0661	254,397	623,014	87,302	752	254	471	391	3,614	12,237	1,144	0	7,395	0	0	976	233	19	176,069	
1991/92	366,663	799,323	144,275	222	1,418	3,551	0	2,421	8,529	1,060	0	17.	0	0	1,021	331	626	1,327,479	•
Average	310,530	711,169	115,789	487	836	2,011	196	3,018	10,383	1,102	0	3,706	0	0	666	282	344	1,159,225	3.7
5. Chiripa									-										
16/0661	669,525	1,258,223	0	9,742	3,769	239	Ð	10,363	15,190	1,530	0	5,794	0	0	712	6,671	201	1,974,375	
1991/92	798,857	798,857 20,519,874	358	1,729	22,380	3,838	0	2,449	3,555	51	0	ม	0	O	0	111	669	21,353,116	
Average	734,191	734,191 10,889,049	621	5,736	13,075	2,039	0	6,406	9,373	161	0	2,910	0	0	356	3,691	450	11,663,746	37.3
6. Nanyangu												:							
16/0661	1,465,998	382,278	•	0	1,567	181	1,184	54,232	21,531	1,438	783	2,164	0	0	56	795	729	1,931,356	
1991/92	1,513,413	602,520	0	0	94,590	7,729	0	2,454	924	2,834	0	0	0	0	922	39	2,630	2,224,464	
Average	1,489,706	492,399	0	0	48,079	3,955	592	28,343	11,228	2,136	392	1,082	0	0	489	417	1,680	2,077,910	. 6.6
7. Nsipe		•																	
16/061	1,966	2,716,781	. 11	12,075	32,792	23	34	2,924	27	139	0	273		3,761	43	795	729		
1991/92	1,075	3,186,919	0	143	83,805	15,427	0	1,933	0	33	0	0	0	16,379	0	0	29,237	3,289,335	
Average	1.521	2,951,850	39	6,109	58,299	7,725	17	2,429	14	86	0	137	0	10,070	ដ	398	14.983	3,289,335	10.5
8. Namwera					:														
16/0661			17,129	5,696	537	471	0	6,214	368	126	0	1,182	0	4,459	214	0	887		
1991/92	•		18,685	4,613	254	8,861	0	3,767	0	65	0	0	0	270	8,861	0	25,957	2,025,582	
Average	0	1,998,432	17,907	5,155	. 396	4,666	0	4,991	184	96	0	591	0	2,365	4,538	0	13,422	2,025,582	65
9. Bataka Depo		-													 .				
16/0661	•	3,384,630	0	o	180	2,610	o	56,431	106,560	0	1,890	4,950	0	0	0	6,930	0	3,557,251	
1991/92	•		0	0	109,990	0	0	0	2,340	0	0	0	0 14	148,060	0	0	0	8,166,700	
Average	0	5,719,500	0	0	55,085	1,305	0	28,216	54,450	0	945	2,475	0	74,030	0	3,465	0	5,861,976	18.8
Balaka 100001	010 011	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		200.00									• •						
1001001	7 228 551 27 200 721	127 200 721	186.535	071'67	379.914	107 867	- / c+ c	198,245	60/787 60/287	10,775		11 021	0 0C	6,462 164.700 1		21212	100'2	11,900,403	
Average	5.836.146 24 330.680	24 330 680	212 239	18.402	184 754	57 348	-	. Ľ	184 064	10.923	· Í	10011	1		7 190	14 275		21 251 247	1000
2 2 1														1					

Table 3.14.5LICENSED PRIVATE TRADERS AND SMALLHOLDER CROPS TO
BE PURCHASED FOR 1990/91 - 1992/93

No.	Licence No.	Origin	Maize	Pegion	Cow	Paddy	Chilies	Caster	Beans	Soya	Sorg-	Ground	Cotto
				peas	peas		L	seed	L	beans	hum	nuts	<u> </u>
1990/				10		······	,		·····	·		·····	
1. 5	SLADD/SAC/100228	Balaka							ļ	L			L
2. 5	SLADD/SAC/100229	Blantyre							<u> </u>				
3. 5	SLADD/SAC/100230	Balaka		<u> </u>	<u> </u>								<u> </u>
4. 5	SLADD/SAC/100231	Ntcheu								L			
5. 5	SLADD/SAC/100232	Blantyre											
6. 5	SLADD/SAC/100234	Ntcheu				L							
	SLADD/SAC/100235								·	l			
8. 5	SLADD/SAC/100236	Blantyre							· ·			 	<u> </u>
. 9. 9	SLADD/SAC/100237	Lilongwe											·
10. 5	SLADD/SAC/100238	Salima											
11. \$	SLADD/SAC/100239	Limbe	· ·			L							
12. 5	SLADD/SAC/100240	Lilongwe											
13. 5	SLADD/SAC/100241	Bwanje											
14. 5	SLADD/SAC/100242	Lilongwe											
15. §	SLADD/SAC/100243	Bwanje											
16. 5	SLADD/SAC/100244	Blantyre											· .
1	No. of traders		14	12	9	5	3	3	4	1	0	0	
1991/	92									· .			
1. 5	SLADD/SAC/100247	Ntcheu			· .	. :				1 .			
2. 9	SLADD/SAC/100248	Nkhotakota											
3. 5	SLADD/SAC/100251	Salima										· · · ·	
4. 5	SLADD/SAC/100252	Monkey Bay											
5. 5	SLADD/SAC/100253	Balaka											
6. 5	SLADD/SAC/100254	Balaka							·				
7.5	SLADD/SAC/100255	Bilira						_					[
8. 5	SLADD/SAC/100256	Salima			:								
9. 5	SLADD/SAC/100258	Blantyre						,					
10. 5	SLADD/SAC/100259	Mangochi											
-11. 8	SLADD/SAC/100260	Monkey Bay											· · ·
. 1	No. of traders		9	3	5	5	0	0	3	1	1	0	(
1992/	93			L		·						haa yoo yoo yoo ahaa ahaa ahaa ahaa ahaa	
1. 5	SLADD/SAC/100361	Lilongwe	90							:	···· · · · · · · · · · · · · · · · · ·		<u> </u>
	SLADD/SAC/100362												
	SLADD/SAC/100363					<u>├</u> ───┤							
	SLADD/SAC/100364	. –											
	SLADD/SAC/100365		60	h						-			
	SLADD/SAC/100366												10
	SLADD/SAC/100367		180	45		20						·	1,000
	SLADD/SAC/100368	•	2,000			2,000			1,000		·	1.000	1.00
	SLADD/SAC/100369												206
	SLADD/SAC/100370	•						·•					10(
	SLADD/SAC/100371		60	10			<u> </u>						<u></u>
	SLADD/SAC/100372			200010		100							
	SLADD/SAC/100372	-	·										
							· ·						1(
_	SLADD/SAC/100374	ыатуте				700	<u>,</u>				· · ·		
1	No. of traders		1	. 3	0	5	0	0	2	0	0	2	

Note 1. Shades indicate crops to be purchased by relevant private traders. Figures in shade are tonnage to be purchased by relevant traders.

2. Cotton was opened to private traders in 1992/93 crop season.

Table 3.14.6(1/2) FARM INPUT SUPPLIED BY SALIMA ADD (1991/92)

		Juania V.	Swania Vallent DDP	6	Cal	Salima DDD		╞	Ż	and motion in	000		Calim	Satima & DD Trus			1	
[tem	anus -	Sunnlied (hees)		Onantirv	Supplied (hao	d (haos)	-	Outantin	Supplie	Supplied (back)	Outantity	rity	Surnlind (have	(haos)	-	Miantin A	Annicahla	Anniferring Pate
	Credit	Cash	otal	1	Credit C	Cash Total	- T	. I	Credit Ca	Cash To	laid	a) Credit		sh Total	7-	****	ppucaouc	Application Nati
FERTILIZERS (1)	+	1			<u> </u>			1.	:			1.						
23-21-0 (20Kg)	C71'4	1.41/	1000	211,100	4,82/ 033	1,018	0.440		1 184,5 5 710 1	085,1	2070 1002	268,3301 12	2,259	71 (1415) 21 (1415) 21 (1415)	00001	867,700 173 000		Basal dosage for maize, 200kg/ha
Sub-total (23:21:0)		2		509.775	276		C 1				-				. 🕶	340,700	6.704	VS DUE NIV AD DAMONO
DAP (50kg)	693	39	732	36,600	4,354		4,883 2	í	3,679		4,204 210		8,726		9,819	490,950		Basal dosage for maize, 80kg/ha
DAP (25kg)	2,261	353	2,614	65,350	2,393	172 2,		:	1,150	450 1,	. `		504	975 6		169,475		followed by Urea
Sup-total (LAP)		005	2000	006,101	000				000							000,420	CC2.8	
Urua (Joke)	120.4	1 405	2,127	006 961	000	740		1,1,100 F	007		27 100 201 111	0 001,02	0,1491 0		0011	008,100		1 op-dressing for marze, 175kg/ha
1]rea (15ko)			2000	- 51 005001	c r r				25	30	•					2445	7,	iour weeks and energence
Sub-total (Jrea)		•	•	403.365	ہ ک	<u>, </u>		205 100	2	}	ř	106 605	1	2		805.070	A 600	
CAN (50kg)	6,421	2,065	8,486	424,300	7,292		8,140 4		5,005 5,	5,441 10,				8,354 27	27,072 1.	1,353,600		Fop-dressing for maize, 200kg/ha
CAN (25kg)	4,431	3,748	8,179	204,475	4,356											643,200		four weeks after emergence
Sub-total (CAN)				628,775		-						829,075			٦,	996,800	9,984	>
SA (50kg)	0	ō	0	0	¢	0	0				:				· ·	950		Pop-dressing for maize, 270kg/ha
SA (25kg)	19	896	912	22,800	Ġ.	ö	0		3,557	1,639 5,	5,196 129		3,573	2,535 6	6,108	152,700		when crops are 45-60 cm
Sub-total (SA)				22,800			_	0	-			130,850		-		153,650	569	
D-Compund (50kg)	10	33	49	2,450	0	0	0		0	0	0	0	16	33	49	2,450	5	5 Tobacco, 200 kg/0.4ha
Total (1)				1,669,115			1.4	,416,175			1,875	,873,805			4	4,959,095	198.364	
SEEDS (2)												ć						
Marze-NSCM (JUKE)	010'5	20	7/2'01	02/ °C01	0000	·	2/24	- 06/.E4	1,410		2,290 22	22,900 14		2,659 17	17,241	172,410		Hybrid local, 10kg/0.4ha
Marze - KZUI (JUKg)	7974	<u>,</u>	2.5	0/6	0.025								72 4		2.6	0/6		Hybrid Zimbabwe, 10kg/0.4ha
Maize MH 17 (10ke)	00017			040	047'7	1	770'7	2 077.07	7	770	67 606'2	0 060'67	0,/44	1,2/0	21.5	00712		Hybrid local, TUKg/0.4hz
Maize- MH 18 (10kg)	2.5	i v	, i	011.9	120	-		11 130	246		1350 13	13 500	1050 -		170 2	017.02	-	Hybrid Jocal, 10kg/0.4ba
Total (Maize)) 1 1	1		138,250	2			84.300	3							288.730	11 549	177 MILE 10021, 108 2004112
Soya (commercial, 18kg)	2,628	3,109	5,737	103,266	290		290	5.220	538	80	618 11		3,456	3,189 6	6.645	66,450		For commercial produc., 18ke/0.2ha
Soya (multiplication, 18kg)	600	42	642	11,556	0	0	0	0	¢	0				•	642	6,420		For seed multiplication, 18kg/0.2ha
Total (Soya)		. [114,822				5,220	_							72,870	810	-
Rice Faya (70kg)	23,375			1,716,470	6	0	0				104			41	'n.	3,512,390		For commercial produc., 70kg/0.4ha
Kice - LET (70kg)	с, С	\$ \$	- 	5	50	00	00	0	9,538				9,588	<u>a</u> ,	_	671,160		For commercial produc., 70kg/0.4ha
Total (Peddy)	>	<u>s</u>	>	0 716 470	5	5	5		c/7.1		1,275 C	89,230	07.1		C/2.1	002,68	1.7.7	For seed multiplication, 70kg/0.4ha
Groundnute - MWG (25ks)	2,850	ē	2.850	71.250	6300		4 3001		1 805	د الار	រ		11 045	11	11 205 1	200125		2540 M 44-2
Groundnuts - MPG (25kg)	0	0	0	0	0	5 > 0		÷.			2 003	74.825		-		74 875		2.7Kg/0.403
Groundnuts - GDA (40kg)	0	55	8	3,680		00	ö	0				0			26	3.680		40ko/0 4ha
Total (Groundnuts)				74,930			1	157,500			126	126,200				358,630	5.716	ð
Total (2)				2,044,472			2	247,020			2,759,834	0.834			4	993.030		
PESTICIDES (3)																	 1	
	, .	t (1410		776		817	5	212		620'7		4117		<u> </u>	Cotton, 0.2ha
Kipcord (pack)	1,002	n 95 r	1,262		2,700		2,706		1275	-	,275				5,546		<u> </u>	Cotton, 0.2ha (with Sevin+Dimethoate)
Sevin Cord	100.01	0.117	10L VE		75 120	3C 500	017 20		, , ,	100		i v	10001		13,180			Cotton, U.Zha
Actellic (Sate)	10	8 231	× 23		0		2				200	ነ 		12120	2017		<u> </u>	Count, U.Zha
Karate (250mls)	363	37	400		252		252		161	g c	191		776		813			Contron 0.2ha
Karate Pack	722	29	751		1,919	H	1,921		1,384	1	.384	ч —	4,025	31	4,056			Cotton, 0.2ha (with Sevin+Dimethoate)
Total (3)			60,112			30	30,991			¢ -	6,617			.6	97,720		19,544	
INOCULATER (4) Rhizohium Packet			Ċ				c		2	c	3			- c		1 	_ v	Con borne 0.2ks
		2				,	2								* 1		Ť	+ Joby bears, U.zna

Table 3.14:6(2/2) FARM INPUT SUPPLIED BY SALIMA ADD (1992/93)

IIPAT	4	-1: 44 /L-	λ. Β	* 0		Salima Kur	-		0		b 2			Salima AUL/ 10(a)	10141	1 0	- T	
	Credit	tit Cash T	Total	(Kg)	Credit	it Cash	Total	(kg)	Credit	dit Cash To	Ĭ	(kg)	Credit	Cash Cash	Total		Application (ha)	Application Kate
FERTLIZERS (1)	ł—	t			1					1								
23:23:0 (50kg)	4,239	2,914	7,153	357,650	4,38	2,533	6,922	346,100	8,982		14,372	718,600	17,610	10,837	28,447		0.0	Basal dosage for maize, 200kg/na
25:22:0 (25:21:0) Sub-total (23:21:0)	1.UX	85F	765.1	392,450		.	0	346.100		5	5	009.812	\$C0'T	355	265.1	24,800 34,800	0 7.286	iollowed by CAN and SA
DAP (50kg)	5,585	28	5.669	283,450	4 351	762	5.113	255.650	7,305	1.507	8.812	440.600	17.241	2.355	19.594	1	-	Basal dosage for maize, 80ke/ha
DAP (25kg)	811	86	897	22,425	0	0	0	0		0	0	0	811	86			2	followed by Urca
Sub-total (DAP)				305,875				255,650				440,600			[. 1,(5 12,527	
Urea (Sokg)	6,809	746	7,555	377,750	4,678	595	5,273	263,650		516	8,681	434,050	19,652	1,857	21,509	ri.	:	Top-dressing for maize, 175kg/ha
Urea (25kg)		5	54 4	1,350	2,080	488	2,568	64,200	2,92	0	2,929	73,225	2,010	541	5,551	1 138,775	<u>v</u>	four weeks after emergence
Urea (15kg)	0	•	ò_	0	•	¢	0	0	<u>.</u>	•	0	0	0	0	-	0		
CANT (COLOR)	272.9		31.0	1001,876	100			002 125	. ŧ.	Ē		C/7'10C	107.70				0,938	
CAN (20kg)	22	68	5.5	7 375		2%1	474,7	100/1/4	280.01	5/017	1/,062	823,100	20,037	3,034	105	0000,00,11	5 6	I op-dressing for maize, ZUVKg/ba
Sub-total (CAN)	1	3	2	411.075		<u>}</u>	1	476.975		2	K	255 450	2	3		L C	8718	In weeks aiter critergence
SA (50kg)	0	Ó	0	0	0	0	ō	0	°	0	e	0	0	0		0		Ton-dressing for maize, 270ke/ha
SA (25kg)	10	401	411	10,275	0	0	0	0	3.88	9	4.937	123.425	3.898	1.450	5.348	8 133.700		when crons are 45-60 cm
Sub-total (SA)				10,275				0				123,425						
D-Compund (50kg)	63	294	357	17,850	306	0	306	15,300	0	6	0	0	63	294	35		ł	36 Tobacco, 200 kg/0.4ha
Total (1)		-		1,516,625				1,421,875				2.645.350				5.568.550	ļ	
SEEDS (2)													 				ļ	
Maize - NSCM (10kg)	5,469	1,181	6,650	66,500	2,674	434	3,108	31,080	1,569	49	2,018	20,180	9,712	2,064	11,776	5 117,760	0	Hybrid local, 10kg/0.4ha
Maize - R201 (10kg)	° (0		0	0	0	0	0		0	0	0	0	0			0	Hybrid Zimbabwe, 10kg/0.4ha
MARCE - MIL 10 (10K8)		* *	2)/r/	2/2	<u>4</u>	474	4,240	-	431	2,093	20,930	2,293	601	5,254	32	ò	Hybrid local, 10kg/0.4ha
Maine Miri 10 (10Kg)	0.74	Ξž	010 0	20 700		543	e c	5		0 0	115	010	5	5 I			0	Hybrid local, 10kg/0.4ha
Total (Maize)		Ş	0/017	97,650	000,4	3	1,00,0	010,00	1047	9/0	200	060'05	11/5/	100.1	2TC'A	021,020	0 160	hybrid local, jukg/0,4ha
Sova (commercial 18ko)	312	5 2 30	155 2	00 0181	g	C	8	006.91		10	1001	0 010 0	1 680	5 765	A OAK	1		
Sova (multiplication 18ke)		0			şe		2 0	00701	9 C	30	ç ç	014.0	0°°,	00710	1	00+160	50	For commercial product, Toky/0.202
Total (Soya)	,	, 		99,918	<u> </u>	,	5	16.200	2	5		8.910	· · ·	>		69.460	0 772	
Rice - Faya (70kg)	36,300	833	37,133	2,599,310	3,450	10,050	13,500	945,000	[992	11 342	793,940	50.100	11 875	61.975	4		For commercial product. 70kp/0.4ha
Rice - IET (70kg)	0	0	0	0	0	ç	0	0	8,277		8,410	588,700	8,277	133	8,410		0	For commercial produc., 70kg/0.4ha
Rice - Faya Basic (70kg)	0	0	0	0	0	0	0	0	1,500	ô	1,500	105,000	1,500	0	1,500		0	For seed multiplication, 70kg/0.4ha
Total (Paddy)				2,599,310				945,000			\Box	,487,640					0 28,754	
Groundnuts - MWG (25kg)	00	00	57	0	4,900	400	5,300	132,500	58,275	_	_	1,575,750	63,175	5,155	68,330	~	0	25kg/0.4ha
Groundaries - MPO (20Kg)	50	Ś	57	50	00	00	50		511	0 (511	19,375	115	0	217.	-	20	25kg/0.4ha
Total (Groundante)	5	.	5	50	5	<u>د</u>	5	002 000	04	2	3	1,000	94	Ð		-	27 250	40kg/0.4na
Total (2)		1.	┢	2 706 878		\uparrow		022 091 1				2120.021				7 07 4 575		
PESTICIDES (3)							+-	A 100 10			+-	202171				70'+10'		
Ripcord (250 mls)	1,361	0	1,361		746	0	746		453	0	453		2,560	Ö	2.560			Cotton, 0.2ha
Ripcord (pack)	1,531		1,531		1,573	0	1,573		1,109	0	1,109	*****	4,213	õ	4,213			Cotton, 0.2ha (with Sevin+Dimethoate)
Dime Satc	7,500		10,521	****	5,377	¢	5,377	•	480	0	480		13,357	3,021	16,378			Cotton, 0.2ha
Sevin (Satc)	19,135		24,406		12,254	1	12,276		ö	0	0		31,389	5,293	36,682	-		Cotton, 0.2ha
Actellic (Satc)	0	372	372		0	0	ð		0	ð	0		ç	372	372	2	~~-	Cotton, 0.2ha
Karate (250mls)	0.0	00	00		8	00	8		0	0	0		33	0	33	-		Cotton, 0.2ha
Narate Pack	1,0.03		1.02.1		2,983		2,983		936	0	936		5,542	0	5,542	2	-	Cotton, 0.2ha (with Sevin+Dimethoate)
10iai (3)			39,814				22,988				2,978				65,780		13,156	
INOCULATER (4)		_	-	-	-				-		•							

Table 3.14.7

EXISTING STORAGE CAPACITY OF ADMARC SALIMA DIVISIONAL OFFICE

Category	Location		Storage C	apacity (ton)	
		Warehouse	Mini-silo	Shed (m3)	Total
Salima Divisional Office	Salima town	29,645	0	10,435	40,080
Salima Depot		7,722	0	10,435	
		5,400			
		2,088			
4		14,435			
1. Mtakataka Area Office		0	2,500	7,623	10,12
	Mtakataka	0	1,500	1,296	3,28
1.1 Parent Market	IVITAKAGAKA	v	1,500	486	5,20.
		0	500		5 17
1.2 Unit Markets	(1) Golomoti	0	500	3,780	5,17
				891	
	(2) Naminkokwe	0	0	468	46
	(3) Kapiri	0	0	.216	21
	(4) Dzongwe	0	500	486	98
	(5) Ngodzi	0	0	0	
2. Salima Area Office		0	0	4,248	4,24
2.1 Parent Market	Salima	0	0	3,930	3,93
2.2 Unit Markets	(1) Mtonga	0	0	112	11
	(2) Lifuwu	0	0	0	1
	(3) Pemba	0	0	206	20
3. Chinguluwe Area Office		Ö	1,000	2,267	3,26
3.1 Parent Market	Chinauluuta	ő	500	728	1,56
5.1 Parent Warket	Chinguluwe	U	500	192	1,50
				147	
	(Kalambe)			240	
3.2 Unit Markets	Thonje	0	0	0	
1	(2) Mnjere	0	0	. 0	
	(3) Mvera	0	500	432	1,46
				528	
4. Khombedza Area Office		0	500	2,844	3,34
4.1 Parent Market	Khombedza	0	500	990	2,16
				486	•
				189	
4.2 Unit Markets	(1) Kamuona	i o	ol	189	18
4.2 Offic Markets	(2) Chikombe	0	0	612	61
		0	0	378	37
	(3) Makiori	0	0	578	10
	(4) Limpimbi	-	-	0	
· · · · · · · · · · · · · · · · · · ·	(5) Katete	0	0	-	
5. Benga Area Office	· .	0	500	3,465	3,96
5.1 Parent Market	Benga	0	500	1,386	1,88
5.2 Unit Markets	(1) Mtosa	0	0	0	
	(2) Kapiri	0	0	378	37
	(3) Gomadzi	0	0	0	
	(4) Ngala	0	0	648	83
			1	189	
	(5) Katonya	0	0	486	48
	(6) Kanungunugu	Ő	ů 0	378	37
	(7) Mitawa	0	0	0	
6. Nkhotakota Area Office	()) miliawa	0	0	15,580	15,58
6.1 Parent Market	Nkhotakota	0	0	6,438	12,87
				6,438	
6.2 Unit Markets	(1) Bua	0	0	544	54
	(2) Mwalawatongole		0	0	, (
	(3) Nkhotakota	0	0	2,160	4,36
				693	
				456	
				1,056	
7. Mkhunga Area Office		0	0	2,517	2,51
5.1 Parent Market	Mkhunga	Ő	Ő	823	1,30
5.1 T afort market		Ű	°	486	- ,- 0
6 0 TL 1 14	(1) Meaniana	0	0	544	54
5.2 Unit Markets	(1) Msenjere	1	1	544	
	(2) Chidebwe	0	0		54
	(3) Liwalazi	0	0	120	12
Total		29,645	4,500	48,979	83,12

Table 3.14.8

EXISTING STORAGE CAPACITY OF ADMARC BALAKA DIVISIONAL OFFICE

Category	Location		Storage C	Capacity (ton)	
		Warehouse	Mini-silo	Shed (m3)	Total
Blaka Divisional Office	Balaka town	16,000	6,000		22,000
Balaka Depot		5,000	6,000		
•		5,000	·		
		3,500			
		1,000			
		1,000			
		500			
Liviridzi Depot					
1. Namlangu Area Office		0	500	2,350	2,85
1.1 Parent Market	Shapevale	0	500	900	1,400
1.2 Unit Markets	(1) Kasinje	0	0	600	600
	(2) Sosola	0	0	850	850
	(3) Malembo	0	0	0	
2. Bilila Area Office	· · · · · · · · · · · · · · · · · · ·	0	500	1,400	1,900
2.1 Parent Market	Bilila	0	500	800	1,300
2.2 Unit Markets	(1) Chawanje	0	0	600	600
3. Balaka Area Office		· · · · · · · · · · · · · · · · · · ·	-,		
3.1 Parent Market	Balaka		Not ava	uilable	
3.2 Unit Markets	(1) Mpilisi				
512 One markets	(2) Utale				
4. Manjawira Area Office					
4.1 Parent Market	Manjawira				
4.2 Unit Markets	(1) Chanthunya	-	Not ava	ilable	
	(2) Senzani		1101 1171		
5. Mangochi Area Office	(zy Schean				
5.1 Parent Market	Mangochi			1	
5.2 Unit Markets	(1) Monkey Bay				
5.2 Ont markets	(2) Cape Mc Lear				
	(3) Makanjira				
	(4) Fort Magwoya				
	(5) Nkhuzi				
	(6) Masi	1	Not ava	ilable	
	(7) Nankhwali	[[· · · [1	
	\(8\) Masanje			·	
	(9)) Namalaka				
	(10) Lulanga	}			
	(11) Malindi			l	
	\(12\) Nkope	1	l. l.		
6. Chiripa Area Office					
6.1 Parent Markei	Chiripa		Not ava	ilable	
7. Nsipe Area Office					
5.1 Parent Market	Nsipe				
5.2 Unit Markets	(1) Lizulu		Not ava	ilable	
	(2) Gowa				1
	(3) Chauya	· · •	, • · ·		
	(4) Mlangeni]		·	
8. Namwera Area Office	Xi y mangoni	╂────┤			
5.1 Parent Market	Namwera]	i Not ava	ilable	
5.2 Unit Markets	(1) Katuli	1	i voi ava	indule .	
		tt		 	·····
Total		16,000	7,000	3,750	26,750

				·	
Item	Unit	Bwanje	Dedza Hills	Ntcheu	Tota
Total Population in RDP	persons	198,245	200,831	264,470	663,546
Propotional Extent of Study Area	%	46.4%	29.0%	32.4%	35.6%
Estimated Population	persons	91,986	58,241	85,688	235,915
Maize					
Annual Per Capita Requirment	kg/person	200	200	200	200
Requirment	ton	18,397	11,648	17,138	47,183
Production	ton	13,047	11,333	18,812	43,192
Balance	ton	-5,350	-315	1,674	-3,991
Self-Sufficiency Ratio	%	70.9%	97.3%	109.8%	91.5%
Rice					
Annual Per Capita Requirment	kg/person	3.7	3.7	3.7	3.7
Requirment	ton	340	215	317	873
Production (paddy x 0.65)	ton	380	. 0	0	380
Balance	ton	40	-215	-317	-493
Self-Sufficiency Ratio	%	111.7%	0.0%	0.0%	43.6%
Wheat					
Annual Per Capita Requirment	kg/person	5.4	5.4	5.4	5.4
Requirment	ton	497	315	463	1,274
Production	ton	0	19	221	240
Balance	ton	-497	-296	-242	-1,034
Self-Sufficiency Ratio	%	0.0%	6.0%	47.8%	18.8%
Sorghum/Millet					
Annual Per Capita Requirment	kg/person	3.6	3.6	3.6	3.6
Requirment	ton	331	210	308	849
Production	ton	214	0	0	214
Balance	ton	-117	-210	-308	-635
Self-Sufficiency Ratio	%	64.6%	0.0%	0.0%	25.2%
Total Cereals					
Annual Per Capita Requirment	kg/person	213	213	213	213
Requirment	ton	19,565	12,388	18,226	50,179
Production	ton	13,641	11,352	19,033	44,020
Balance	ton	-5,924	-1,036	807	-6,153
Self-Sufficiency Ratio	%	69.7%	91.6%	104.4%	87.7%

Table 3.14.9 DEMAND AND SUPPLY BALANCE OF CEREALS IN STUDY AREA

Note: Production is of average in the period from 1984/85 to 1991/92

	· .	· · · · (Unit: MK)
SECTION	REVENUE	DEVELOPMENT	TOTAL
Man and administration	1,987,530	199,919	2,187,449
Planning and evaluation	0	11,241	11,241
Irrigation	0	246,230	246,230
Irrigation Nkhotakota RDP	0	185,288	185,288
Land husbandry	26,240	1,550	27,790
Construction	285,250	615,669	900,919
Computer	23,760	• . 0	23,760
Accounts and stores	4,800	17,365	22,165
Credit and marketing	5,080	508,000	513,080
Extension and visual aids	19,834	0	19,834
Nkhotakota	74,360	574,343	648,703
Salima project	134,740	82,318	217,058
Bwanje valley project	146,660	86,951	233,611
Adaptive research	0	21,470	21,470
Crops, horticulture and seed multiplication	53,230	173,784	227,014
Training	7,165	0	7,165
Chitala farm institute	86,900	0	86,900
Women's programme	6,975	4,000	10,975
Farm mechanization	18,140	9,523	27,663
Rural industries	7,960	0	7,960
Veterinary	40,862	53,435	94,297
Health/Bilharzia	0	115,333	115,333
Health/Bilharzia Nkhotakota RDP	0	93,211	93,211
Vihicle workshop	169,794	178,780	348,574
Vehicle worshop Nkhotakota	0	88,174	88,174
Total	3,099,280	3,266,584	6,365,864

TABLE 3.15.1 INTERNAL ALLOCATION OF FUNDS IN SALIMA ADD IN 1991/92

Data source : Salima ADD

Location	Basic seed			Certified seed		
	Acreage	Name of variety	Amount	Acreage	Name of variety	Amount
	(ha)		(ton)	(ha)		(ton)
Lifuwu *	10	Faya		30	Faya	105
	3	IET	40			
	2	IR1561/250/2/2				
Bua *	0			20	IET4094	110
Kastu **	0	· · · ·		20	Faya	70
Total	15		40	70		285

TABLE 3.15.2 SEED MULTIPLICATION OF RICE IN SALIMA ADD

Data source: Salima ADD

*: Government run irrigation scheme

**: Self-help irrigation scheme

RDP	NO. OF EPSs	No. of Sections	No. of field assistants	No. of Blocks	Total No. of farmers club	No. of farmers	(b)/(a)
			(a)			(b)	
Bwanje Valley	6	46	43	355	339	43,589	1,014
Salima	4	47	48	281	320	41,634	867
Nkhotakota	4	44	42	276	309	33,458	797
Total	14	137	133	912	968	118,631	892

Data source: Salima ADD

Activities	Salima RDP	Bwanje Valley RDP	Nkhotatota RDP	Total
1. On farm demo./mini plots	219	408	33	660
2. Block demonstrations	788	809	633	2,230
3. Field days	34	33	23	90
4. Public meetings	74	354	185	613
5. Club meetings	1,706	1,109	1,166	3,981
6. Form block committees	225	307	113	645
7. Block gardens/demonstrations	351	273	129	753
8. EPA demonstrations	44	15	16	75
9. Visits to on farm demonstrations	546	1,009	2,885	4,440

TABLE 3.15.4 ACTIVITIES OF EXTENSION WORK IN SALIMA ADD IN 1991/92

Data source: Salima ADD

TABLE 3.15.5 TRAINING STAFF IN SALIMA ADD

Location	Post	Number
Salima ADD headquaters		
	Training officer	1
	Assistant training officer	1
	total	2
Chitala Farm Institute		
	Principal officer	1
	Deputy pricipal officer	1
	Field assistant	4
	Farm home assistant	1
	total	7
Nkhotakota Residential	Principal officer	1
Training Center	Deputy pricipal officer	1
	Field assistant	1
	Farm home assistant	2
	total	5

Data source: Salima ADD

Course	Term	Season	Place	Subject	Trainer	Trainee
(A) Farmer's Course						
1. Day training	2hours	Dry season	EPA	farming practice	SMSs(EPA)	25-30 farmers per day
2. Residential training	1-2 weeks	Dry season	Nkhotakota RTC Chitala FI	farming practice, motorcyles riding,	TC's officers and SMSs(ADD)	farmers selected by EPA
	•			maintenance of irrigation scheme, etc.		
B) Staff Course						
1. Day training	4 hours	Dry season	EPA	technical information	PO(EPA) SMSs(RDP)	FAs and FHAs
- -			· · ·		SMSs(ADD)	
2. Residential training	1-2 week	Dry season	Nkhotakota RTC	Subjects in the year	SMSs(ADD)	FAs and FHAs
			Chitala F.I		TC's officer	
			Salima conference			
			room			

TABLE 3.15.6 TRAINING COURSES IN SALIMA ADD

Data source: Salima ADD

Note: RTC=Residential Training Center, Chitala FI=Chitala Farm Institute

SMS=Subject Matter Specialist, PO=Project Officer

FA=Field Assistnt, FHA=Farm Home Assistant

TABLE 3.15.7 TRAINING ACTIVITIES IN SALIMA ADD IN 1991/92

Activity		RDP		Total
	Salima	Bwanje Valley	Nkhhotakota	
1. Farmers RT course				
Number of courses	10	4	9	23
Number of attendant	102	88	248	438
2. Farmers DT course	· ·			
Number of courses	96	81	56	233
Number of attendant	1,985	4,437	1,543	7,965
3. Farmers mobile course				
Number of courses	112	216	122	450
Number of attendant	3,424	6,180	4,754	14,358
4.Staff RT course				
Number of courses	25	9	1	35
Number of attendant	201	78	23	302
5. Staff DT course				
Number of courses	101	120	74	295
Number of attendant	412	1,833	940	3,185

Data source: Salima ADD

Note: RT= Residential training, DT=Day training

		Fertilizer		Seed			······································
	name	dosage	price	dosage	price	interest	Total amoun
		(kg)	(MK)	(kg)	(MK)	(MK.)	(MK)
(A) Maize varie	ty: NSCM41 and MH	16/18					
	(1) CAN	100	96	10	25	14.52	135.52
	(2) 23:21:21	100	100	10	25	26.52	247.52
	CAN	100	96				
	(3) Urea	50	45	10	25	8.4	78.4
	(4) DAP	25	24.5	10	25	23.22	216.72
	CAN	150	144				
	(5) DPA	35	34.3	10	25	15.22	142.02
	Urea	75	67.5				н. Т.
(B) RICE							
	FAYA(BASIC)						
	(1) S/Ammonium	100	84	25	17.5	12.18	113.68
(2) VARIETY	BLUE BONNET						. · · ·
	(1) S/Ammonium	100	84	30	21	12.6	117.6
(3) VARIETY	/ ITE4094				·	·	- -
	(1) 23:21:0	50	50	30	21	18.6	173.6
4. A	S/Ammonium	100	84				
(C) COTTON							
(1) PACKAG	E-1		ч. -			:	
	Ripcord	500 ml	58.5			10.35	96.6
	Sevin	1875	23.75				
	Dimethoate	0.34	4				
(2) PACKAG	E-2	1 .					
	Ripcord	400 ml	27.39			6.62	61.76
	Sevin	1875	23.75				
	Dimethoate	0.34	4				
(3) PACKAG	E-3						
•	Ripcord cotton pack		57.95			6.95	64.9
(4) PACKAG	E-4						
	Karate cotton pack		44.25			5.31	49.56

TABLE 3.15.8 CREDIT PACKAGE PRICE LIST PER 0.4 HA

Data source: Salima ADD

Season	RDP	Total number	No. of		Amount	Amount	Balance	%
		of	participants	· .	loaned	recovered to		of
		farmer's club	men	women		date		recovered
		Nos	Nos	Nos	MK	MK	MK	%
1986/87	Bwanje	188	2,612	466	203,201	200,240	-3,924	98.5
	Salima	257	3,298	734	489,128	431,110	57,017	88.3
	Nkhotakota	210	3,178	447	329,928	326,109	3,812	98.8
	Total	655	9,088	1,647	1,022,257	958,459	64,753	93.8
1987/88	Bwanje	219	3,062	806	325,059	312,633	12,632	96.2
	Salima	218	3,083	911	718,749	597,524	121,225	83.13
	Nkhotakota	203	3,640	699	449,360	438,663	10,698	97.62
	Total	640	9,785	2,416	1,493,168	1,348,819	144,554	90.3
1988/89	Bwanje	304	4,614	1,134	649,797	63,202	19,708	97.1
	Salima	290	5,015	1,289	1,194,723	972,613	222,190	81.4
	Nkhotakota	342	6,622	1,879	1,204,661	1,092,333	112,328	90.7
	Total	936	16,251	4,302	3,049,181	2,696,148	354,146	88.4
1989/90	Bwanje	358	6,688	1,456	1,095,602	978,202	124,008	89.3
	Salima	320	4,301	1,836	1,318,184	1,083,633	234,551	82.2
	Nkhotakota	341	5,569	1,496	1,232,941	1,097,687	135,254	89
	Total	1,019	16,558	4,788	3,646,727	3,159,522	493,812	86.6
1990/91	Bwanje	404	6,442	2,069	1,661,641	1,411,204	250,433	84.9
(As of Oct. '92)	Salima	370	4,380	1,861	1,900,934	1,516,714	384,221	79.8
	Nkhotakota	345	5,922	1,516	2,168,739	1,584,662	584,077	73.1
	Total	1,119	16,744	5,446	5,731,315	4,512,579	1,218,731	78.7
1991/92	Bwanje	339	5,444	2,546	1,704,946	270,590	1,232,266	15.9
	Salima	320	4,373	4,032	1,841,842	258,954	1,582,889	14.1
	Nkhotakota	309	6,314	1,670	1,882,748	545,310	1,337,438	30
	Total	968	16,131	8,248	5,429,537	1,074,853	4,152,594	19.9

TABLE 3.15.9 CREDIT AMOUNT AND REPAYMENT CONDITION IN SALIMA ADD

Data source: Salima ADD

TABLE 3.15.10 AMOUNT LOANS AND REPAYMENT FOR MEDIUM TERM CREDIT IN 1991/92 (AS OF OCTOBER, 1991/92)

RDP	Total amount (MK)	% of recovery	Number of borrowers
Bwanje Valley	78,008	66	477
Salima	46,589	62	225
Nkhotalota	19,404	58	103
Total	144,001	64	805

year	RDP	Farmer	's Ciub	•	nip	Junit. (105.)		
+		Mixed club	Women's club	Total	Men	FHH	Married female	Total
1986/87	Bwanje Valley	177	11	188	2,612	0	466	3,078
	Salima	257	0	257	3,298	0	734	4,032
	Nkhotakota	210	0	210	3,181	0	448	3,629
	Totai	644	11	655	9,091	0	1,648	10,739
1986/87	Bwanje Valley	189	30	219	3,062	0	808	3,870
	Salima	218	0	218	3,083	0	911	3,994
	Nkhotakota	203	0	203	3,608	0	691	4,299
	Total	610	30	640	9,753	0	2,410	12,163
1986/87	Bwanje Valley	277	27	304	4,314	406	728	5,448
	Salima	259	31	290	5,015	331	958	6,304
	Nkhotakota	314	28	342	5,496	786	1,093	7,375
	Total	850	. 86	936	14,825	1,523	2,779	19,127
1986/87	Bwanje Valley	318	40	358	6,688	347	1,109	8,144
	Salima	257	63	320	4,307	514	1,322	6,143
	Nkhotakota	310	31	341	5,721	427	918	7,066
	Total	885	134	1,019	16,716	1,288	3,349	21,353
1986/87	Bwanje Valley	316	88	404	6,442	753	2,096	9,291
	Salima	287	83	370	4,380	328	1,533	6,241
	Nkhotakota	316	29	345	5,950	464	952	7,366
	Total	919	200	1,119	16,772	1,545	4,581	22,898
1986/87	Bwanje Valley	265	74	339	5,444	552	1,994	7,990

108

56

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TABLE 3.16.1 FARMER'S CLUB IN SALIMA ADD

(unit:Nos.)

Data source: Salima ADD

FHH: female headed household

Salima

Total

Nkhotakota

212

253

730

4,350

6,314

16,108

1,544

605

2,701

2,488

1,065

5,547

8,382

7,984

24,356

320

309

968

TABLE 3.16.2 (1/3) BASIC INFORMATION OF THE EXSISTING SCHEMES AND SCHEME COMMITTEES

	Items	Mwalawoyera scheme	Mtandamula scheme
	Type of shceme	farmer's self-help scheme	farmer's self-help scheme
6	Year of construction	1990/91 August to November 1992	1985/86 to 1987
ŝ	Contribution from farmers	labor contribution to digging out irr/drain.	labor contribution to digging out irr/drain.
	for construction	canals	canal and carring stone
4	Government contribution	planning/design/supply of all materials	planning/design/supply of all materials
Ś	Administrative location	STA: Ganya/Dedza district	TA: Kachindamoto/ Dedza district
9	Project area (net ha)	110	229
6	Number of related village	6	
~	Name of villages	(1) Akubilila 1	(1) Dziko
		(2) Akubilila 2	(2) Garuanenenji
		(3) Mose	(3) Bwanamakowa
		(4) Mwadzamgati	(4) Mbangaji
		(5) Nsanjani 3	(5) Mthembanji
		(6) Kanyoza	(6) Chatewa
		(7) Kaimaima	(7) Mkondolire
		(8) Tamsala	(8) Mwasinja
		(9) Majinga	
6	Number of households	198 (among this 76 FHHs, 38 % for total)	472 (among this 180 FHHs, 38 % for total)
10	Farm size/household	0.2 to 0.8 ha	0.2 to 1.2 ha
11	Land allocation to farmers	No new land allocation was applied to the	The land use in the project area before construction
		project. Farm of each farmer after completion	comprises paddy field and grazing lands. No new land
		of the project is as same as that before	allocation was not applied to as same as the case of
		construction	Mwalawoyera scheme. With respect to the grasing
• .			lands, an average figure of lands (total grazing
			divided by the total number of applicant farmers)
			was allocated to the farmers.
12	Land acquisition for	No land acquisition cost: Group village headman	No land acquisition cost: Group village headman
	irrigation facilities	authorized land for irrigation facilities.	authorized land for irrigation facilities.
13	Scheme committee		
13-a	-a Legal basis	no	DO .
ξ	13-b Establishment year	1990 August	1985/86 fiscal year

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TABLE 3.16.2 (2/3) BASIC INFORMATION OF THE EXSISTING SCHEMES AND SCHEME COMMITTEES

	Items	Mwaiawoyera scheme	Mtandamula scheme
13-0	13-c Structure	(1) The scheme committee is composed of 4 committes, namely (i) Land allocation, (ii) Scheme management, (iii) Block and (iv)	 The scheme committee is composed of 4 committes, namely (i) Land allocation, (ii) Scheme management, (iii) Block and (iv)
13-ó	13-d Member of land allocation	Farmer's credit club. 1-chairman/1-secretary/8-committee member	Farmer's credit club. I-chairman/1-secretary/8-committee member
13-e		1-chairman/1-vice chairman/1-secretary/ 1-vice secretary/1-treasury/4-committee member	1-chairman/1-vice chairman/1-secretary/ 1-vice secretary/1-treasury/4-committee member
13-f	Appointment/service period/salary	The group village headman is nonimated to the chairman of the land allocation committee. Other	The group village headman is nonimated to the chairman of the land allocation committee. Other
		chairman and main posts of the committees are elected by all the participant farmers. The maximum service period of the chairman and main posts is 3 years. All chairmen/main posts are voluntarily work without salaries.	chairman and main posts of the committees are elected by all the participant farmers. The maximum service period of the chairman and main posts is 3 years. All chairmen/main posts voluntarily work without salaries.
13 13	13-g Land ledger and farmer's list	there is	there is
13-h 13-i	 13-h Construction of scheme committee 13-i Meeting system 	there is General assembly meeting: once a year Periodical meeting: twice a month	there is General assembly meeting: once a year Periodical meeting: twice a month
13-1	13-j Incomes of scheme committee	(i) crop income from communal garden(ii) annual due (or membership fee): MK 5/year/participant farmer	 (i) crop income from communal garden (MK 400/year) (ii) annual duemone (iii) payment deposit from the farmers without contributing their labor for construction period(MK12/each)
13-k 13-1	13-k Outgo of the scheme committee13-1 Availability of cash flow note	Stationery, sundry costs there is a cash flow note managed by treasery in farmer's credit club committee.	Stationery, sundry costs there is a cash flow note managed by treasery in farmer's credit clum committee.
13-n 15	 13-m Properties of scheme committee 14 Farmer's credit club 15 Water management 	nothing at all 5	nothing at all 21

TABLE 3.16.2 (3/3) BASIC INFORMATION OF THE EXSISTING SCHEMES AND SCHEME COMMITTEES

Items	Mwalawoyera scheme	Mtandamula scheme
	not yet	none
15-b List of inventories of systems	not yet	none
15-c Decision of time to start imigation	not yet operated	scheme committee assisted by scheme manager of Salima ADD
15-d Operation of gate	not yet operated	scheme committee assisted by scheme manager of Salima ADD
15-e Rotational irrigation	not yet operated	not practiced
15-f Main items of maintenance	not yet operated	 (i) desilting of canal, (ii) weeding and shaping of canal. (iii) stone mitching
15-g Maintenance times	not yet operated	once a month by farmer themselves
16 General farming practice	· · · · · · · · · · · · · · · · · · ·	- -
16-a Kind of crop cultivated	rice only	rice only
16-b Sowing method	(i) transplanting(100 %)	(i) direct sowing (25 %), transplanting (75 %)
16-c Cropping calender	Early Novseeding	Early Dec-seeding
	Jan/Feb transplanting	Jan transplanting
	May/Jun harvesting	May/Jun harvesting
10-0 NICE VALLEIY	raya	Faya
16-e Method of land preparation	ali man power	Normal year: Direct sowing (25 %), animal power (75 %) Year of 1992: Direct sowing (75 %), animal power (25 %)
		animal power with 2-cattle
	none	none
້ະຄ	pounding by man power	pounding by man power
17 Marketing of nce	(i) 75 % to ADMARC, (ii) 25 % home	(i) 25 % to ADMARC, (ii) 50 %, exchange rice to maize
10 Pachtometer for the formation of the	consumption	from hills people and (iii) 25 % home consumption
10 FIDURES LIFE TAULIERS SUCCEMPTERED		(i) damage or pacady caused by propo
4		(iii) damage of paddy caused by cattle
		(iv) water shortage
		(v) lack of hospital
		(vi) lack of facilities of school and dormitory for teacher
		(vii) rough road conditions
		(viii) no ADMARC marketing facilities
		(ix) defaults of irrigation facilities which might be
		accuted from an improper design and/or construction (x) lack of field drains
		(xi) improvement of a lead canal from the Naminkokuwe
		river and an intake at the Naminkokwe river
-		(ALL) HEREAL HILLEADOUL WAREL DIRAME UN SOLICE LALLEES

TABLE 3.17.1FARMERS EXPECTATION FOR THE FUTUREAGRICULTURAL DEVELOPMENT

Items	% of the number of farmers						
	1 st	2 nd	3 rd	4 th	5 th	6 th	below 7 th
Cosnstruction of irrigation facilities	73	18	2	1	0	0	6
Construction of drainage facilities	41	40	7	1	0	0	11
Expansion of cultural lands	33	10	3	3	0	0	51
Supply of farm inputs	16	16	. 11	6	1	1	49
Reinforcement of extension services	12	29	28	13	3	0	15
Reinforcement of credit services	11	15	18	22	4	. 0	30
Development of road system	9	17	34	6	0	0	34
mprovement of marketing system	8	19	24	12	6	3	28
Introduction of mechanization	7	11	13	10	3	0	56
introduction of draft animal	6	21	18	14	3	2	36

Data source: Farmer's economic survey of JICA study team 1992, November

TABLE 3.17.2 FARMER'S EXPECTATION FOR THE FUTURE RURAL DEVELOPMENT

		Male heade	ed household	· .	Female 1	Fisheries and		
Expectation	TA Kachi	ndamoto	TA other than Kac	nindamoto				agriculture
Order	Up.	UP/Low	Up.	UP/Low	Up	(%)	UP/Low	household
1	Well	Hospital	Mill	Well	Well		Well	Well
2	Hospital	Well	G.S	Hospital	Mill		Hospital	Market
3	Mill	Mill	Hospital	Market	Hospital		Mill	Hospital
4	Market	Market	Market	Mill	Road		Market	G.S
5	G.S	G.S	Road	G.S	School		School	School
6	School	Road	Well	School	Market		Road	Mill
7	Road	School	School	Road	G.S		G.S	Road

Data source: Farmer'e economic survey conducted by JICA study team in November 1992

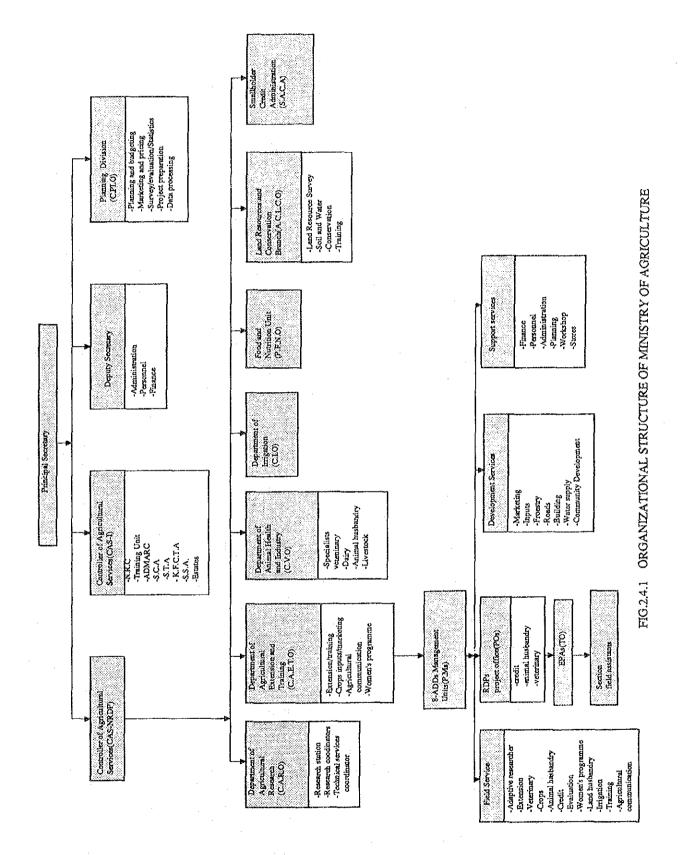
UP: farmers who own upland

UP/Low: farmers who own both upland and lowland

G.S: grain store house

ANNEX I ASSEEMENT OF DEVELOPMENT POTENTIAL

Figures



I-F-1

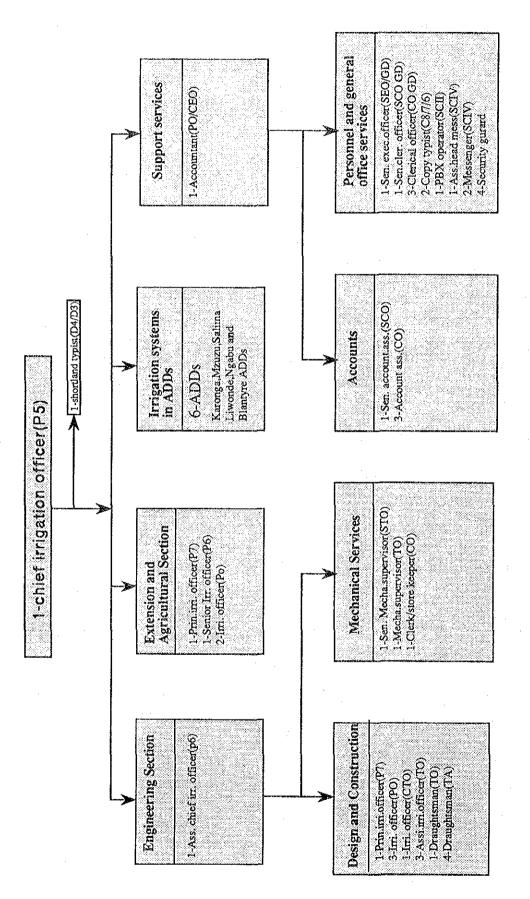


FIG.2.4.2 DEPARTMENT OF IRRIGATION

I - F - 2

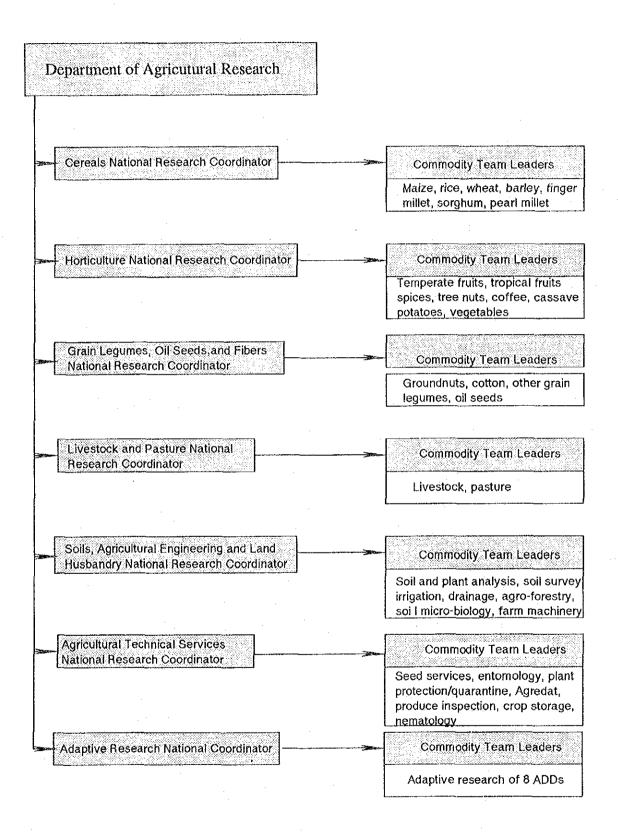
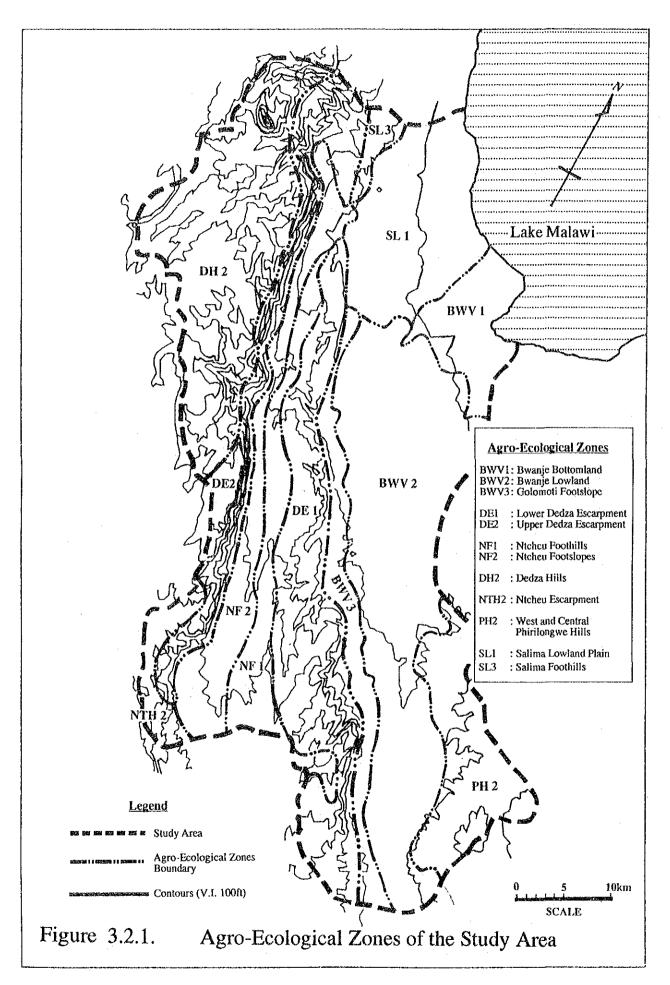
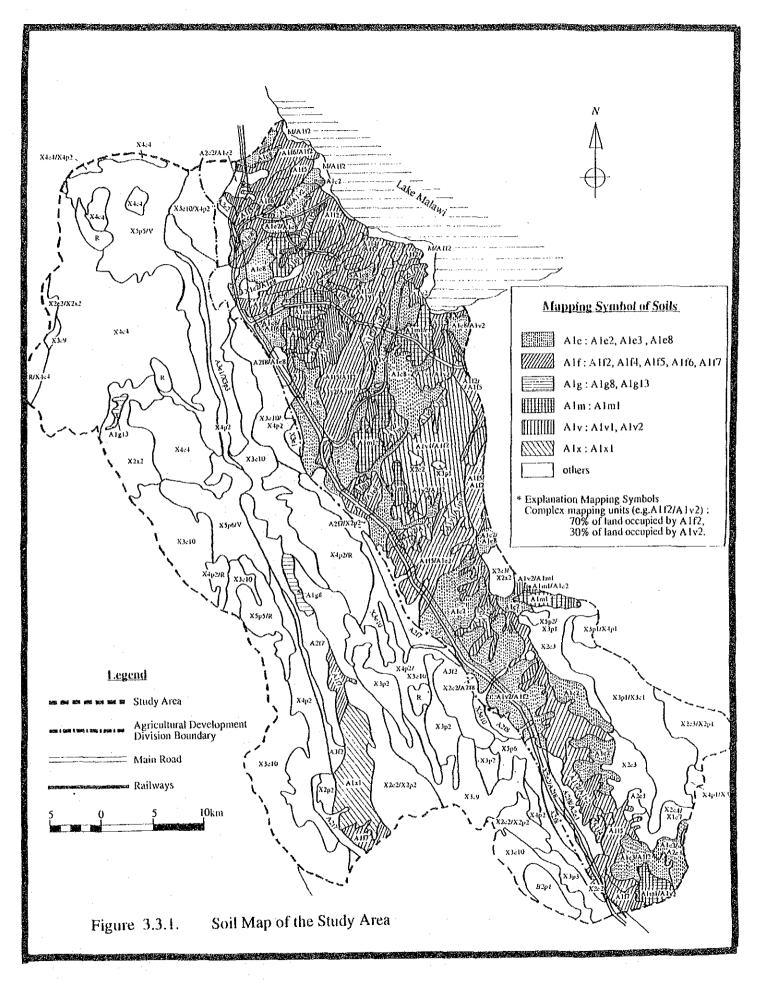
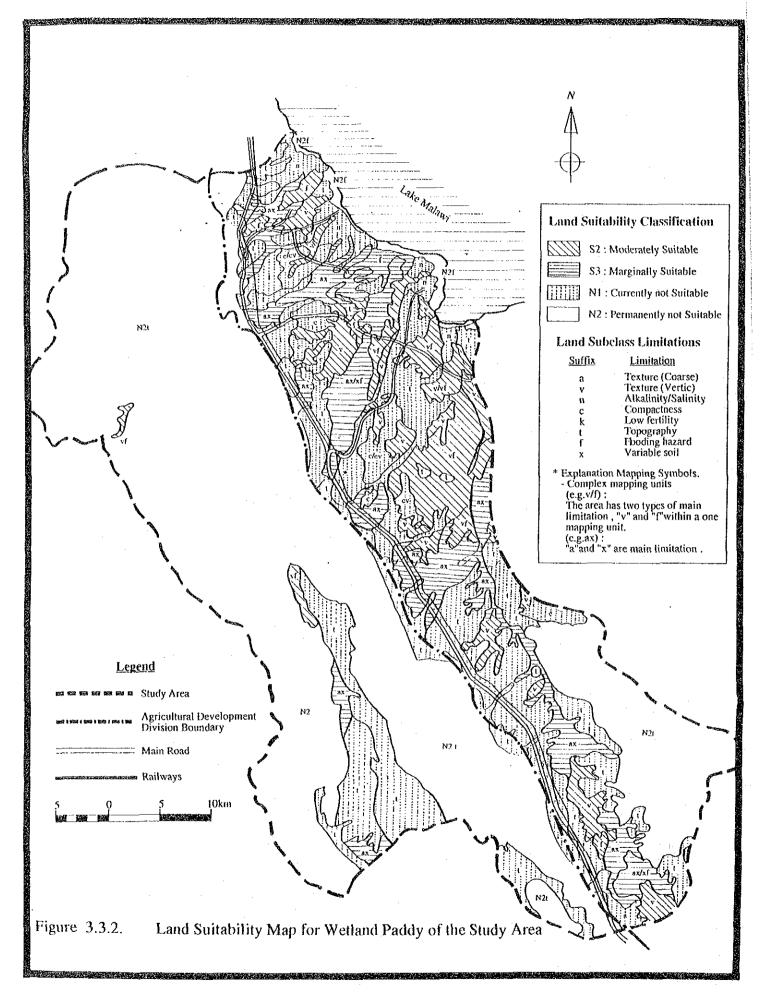
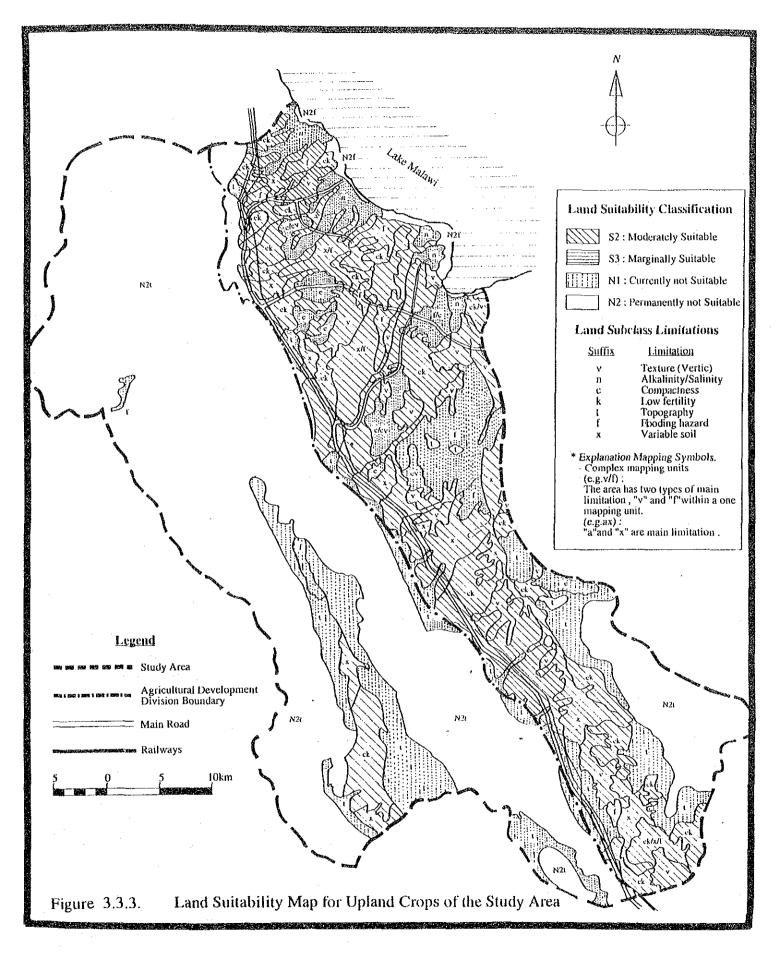


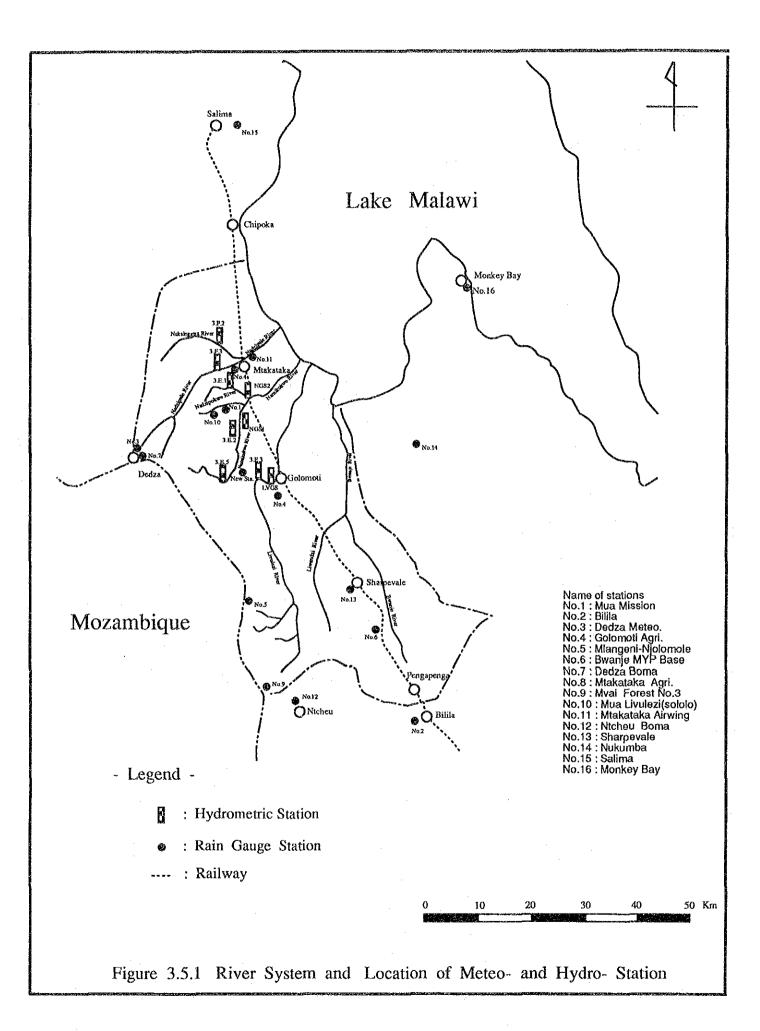
FIG. 2.4.3 FLOW OF RESEARCH COORDINATION AT NATIONAL LEVEL

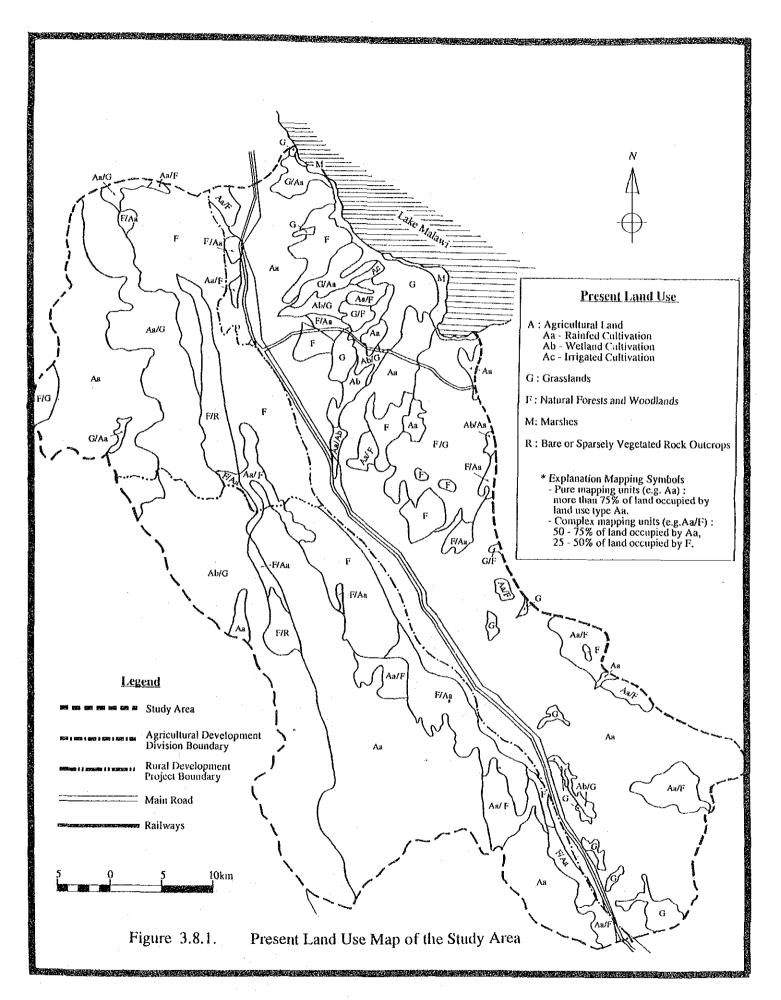












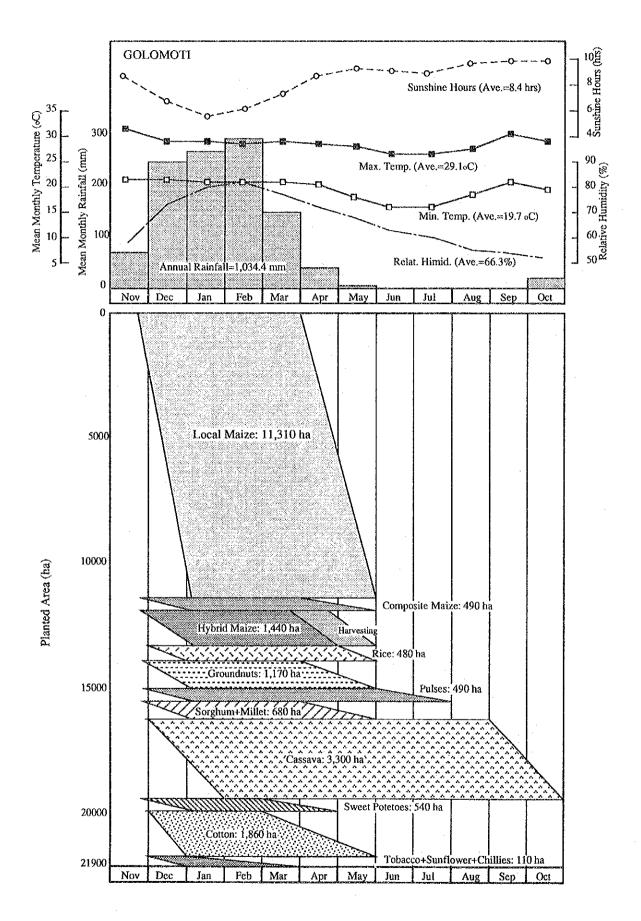


Figure 3.10.1 PRESENT CROPPING PATTERNS OF THE STUDY AREA (BWAJE VALLEY RDP)

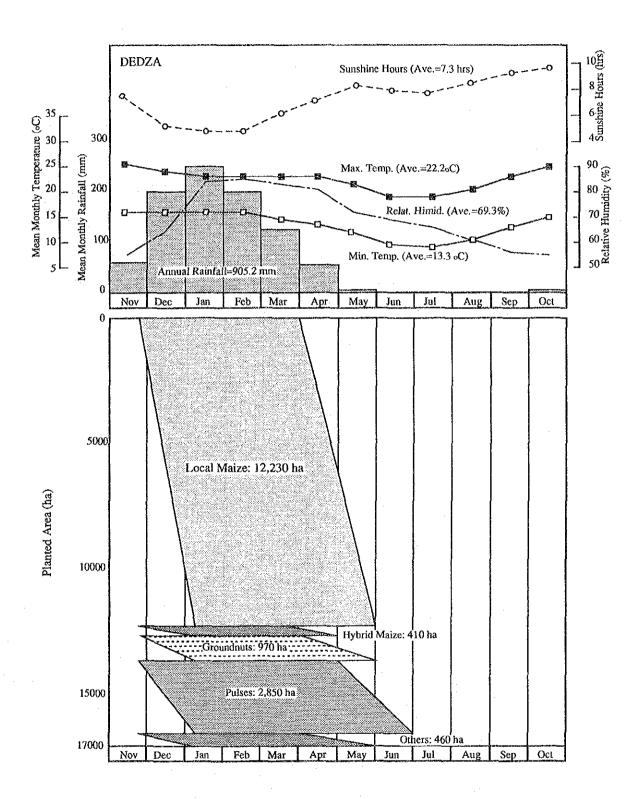


Figure 3.10.2 PRESENT CROPPING PATTERNS OF THE STUDY AREA (DEDZA RDP)

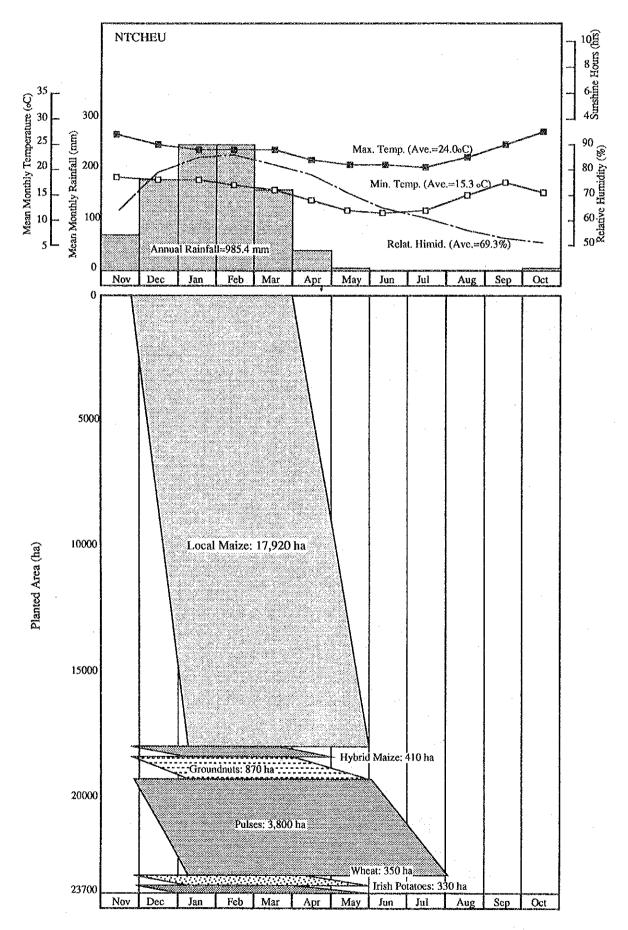
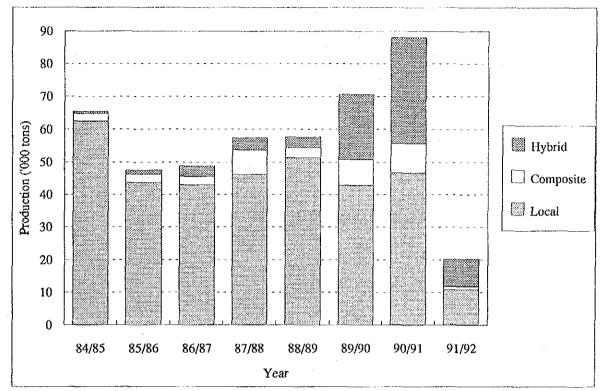


Figure 3.10.3 PRESENT CROPPING PATTERNS OF THE STUDY AREA (NTCHEU RDP)

MAIZE PRODUCTION



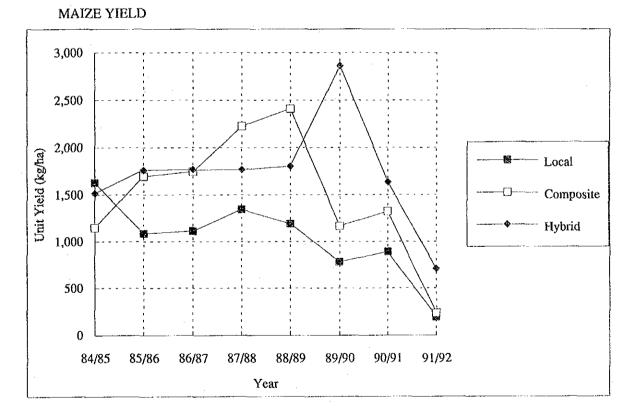
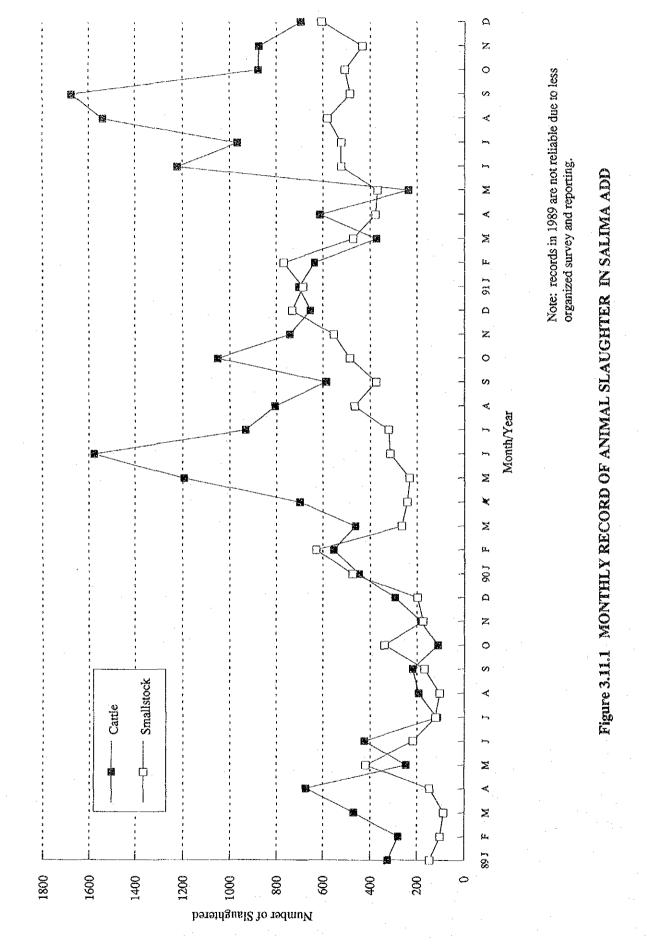
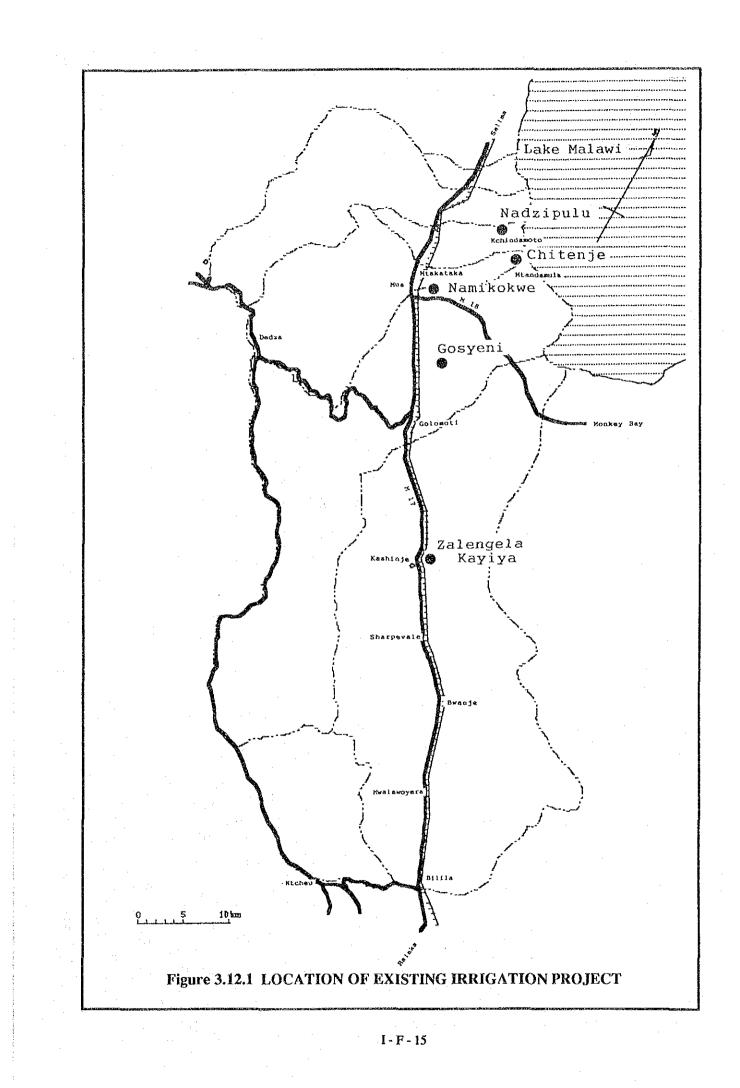


Figure 3.10.4 PRODUCTION AND YIELD OF MAIZE IN SALIMA ADD 1984/85 - 1991/92





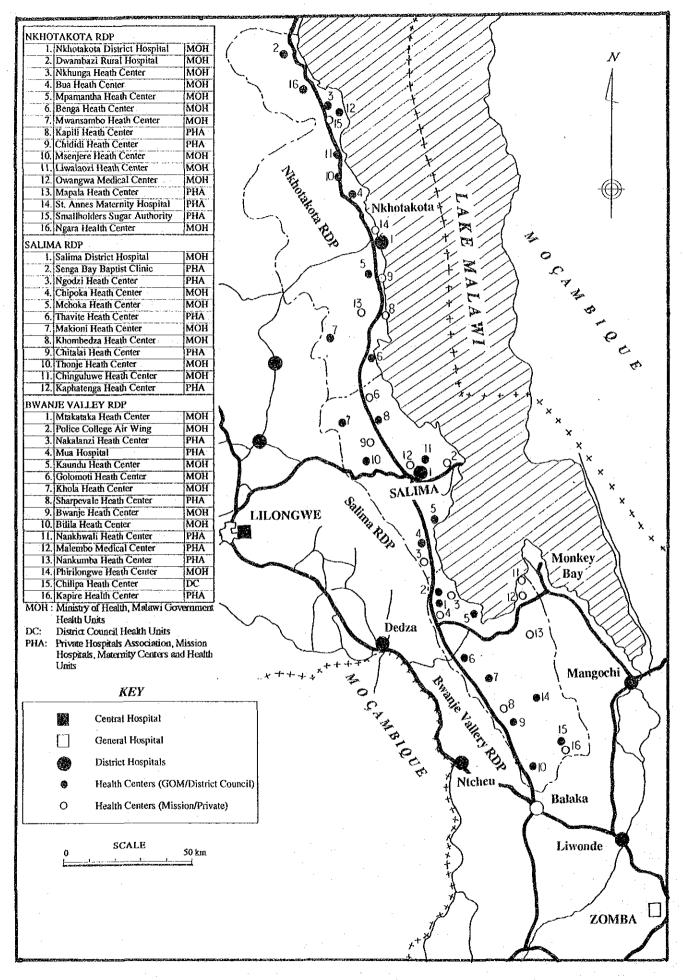


Figure 3.13.1 Hospitals and Health Centers in Salima ADD

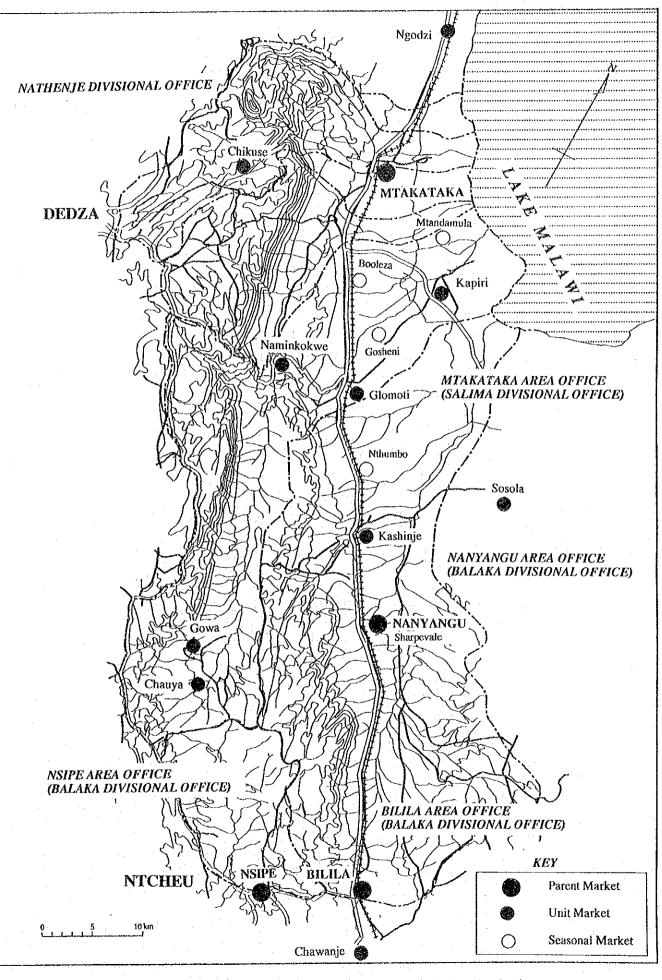


Figure 3.14.1 Location of ADMARC Markets in the Study Area

SALIMA DIVISIONAL OFFICE Division Supervisor

Division Supervisor Administrative Assistant Total Staff 239 (46)*

					Π		П			
±0.+1910 to Ap Lapa	Chinguluwe Area Office 14 (3)			Mvere	Kalanbe	Thonje	Cheji **			
*****	Mthunga Area Office 21 (3)			Msenjere	Chidebwe	Liwalazi				
	T S Total 151 (30) Khombedza Area 1 Office 21 (5)		T S	Kamuona	Chikombe	Makioni	Limpimbi	Katete		
	NTMARKET Nkhotakota Area R Office 26 (3)		T MARKE	Bua	Mwalawatongole	Nkhotakota				
	PAREN Benga Area Office 30(7)		UINI	Mtosa	Kapiri	Gomadzi	Ngora	Katonya	Kanungunungu Mitawa	
	Salima Area Office 16(2)			Mtonga	Lifuwu	Pemba				1
	Mtakataka Arca Office 23 (7)			Golomoti	Naminkokwe	Kapiri	Dzongwe	Ngodzi		
:	6 6 5 4		otakota 5 (1) [Total KS (13)			21(1)			
	Administration Computer Staff Cottage Clinic	Transport 2 (0) Workshop 5 (1) Building 8 (2) Pest Cortrol 9 (1)	Pest Control Nkhc Salima Depot	بر م	-		Security			

Fig. 3.14.2 ORGANIZATION CHART OF ADMARC - SALIMA DIVISIONAL OFFICE

Remark: * Total staff number is239 including 46 senior staff members. ** to be open soon.

					Namwera Area			Katuli												r staff members.
					Nsipe Area			Lizulu	Gowa	Chauya	Mlangeni							Remark: * Total staff number is 334 including 45 senior staff members.		
					94 (26) Nanyangu Arca	0flice 27 (5)		Kasinje	Sosola	Malembo										uff number is 334
	·		·		C E T S Total 194 (26) Chiripa Area Nany		KETS													emark: * Total sta
BALAKA DIVISIONAL OFFICE	T	Total Staff 334 (45)*			N T M A R K BUILA Area	10000000	T M A R	Chawanje	[_		_	_	_			-	Å.
	or sistant				P A R E Mangochi Area	01110e 33 (6)	I N I	Monkey Bay	Cape Mc Lear	Makanjira	Fort Magwoya	Nkhuzi	Masi	Nankhwali	Masanje	Namalaka	Lulanga	Malindi	Nkope	
	Division Supervisor Administrative Assistant				Balaka Area	(2) 61 2011 0 10 10 10 10 10 10 10 10 10 10 10 10 10		Mpilisi	Utale											
BAI			•		Manjawira Area	Office 19 (3)		Chanthunya	Senzani											
					Livitidzi Depot 20 (2)															.
					Blaka Depot 50 (3)						·						·			
					(28(7)	21 (1) 21 (1) 22 (1) 23 (1) 24	70 (14)			۷	1 1									
	-			<u></u>	Administration/ Dispensary/ Transportation/	Wage Workshop Building Pest Control	Total			Security				•	•					:

Fig. 3.14.3 ORGANIZATION OF ADMARC - BALAKA DIVISIONAL OFFICE

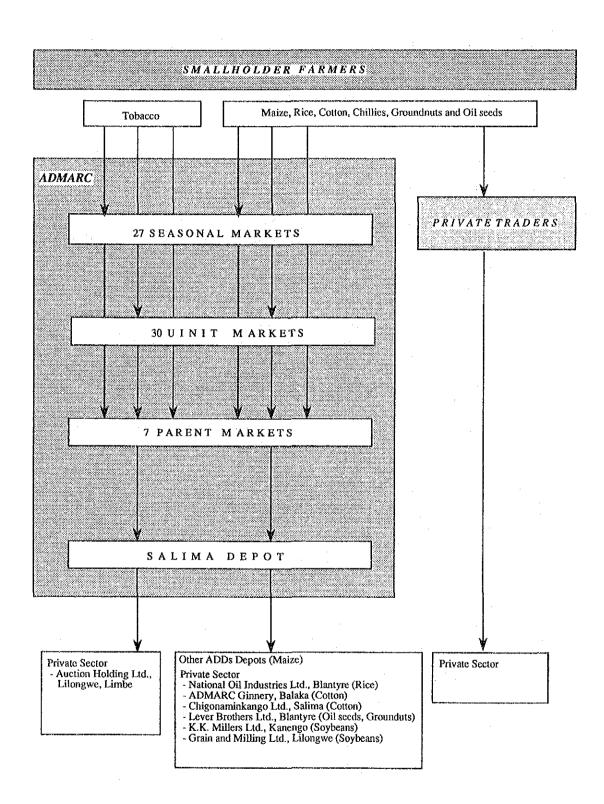


Fig. 3.14.4 MARKETING CHANNELS OF SMALLHOLDER CROPS IN SALIMA ADD

