

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

No. 32

THE MINISTRY OF HEALTH AND POPULATION  
THE GOVERNMENT OF THE REPUBLIC OF MALAWI

**MASTER PLAN STUDY  
ON  
STRENGTHENING  
PRIMARY HEALTH CARE SERVICES  
IN  
THE REPUBLIC OF MALAWI**

**FINAL REPORT**

**VOLUME 5  
DATA BOOK**

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**December 1999**

**ST. MARY'S HOSPITAL  
GLOBAL LINK MANAGEMENT, Inc**

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In this Report, project cost is estimated at August 1999 price and at an exchange rate of  
US\$1.00 = 45 Malawi Kwacha (MK).

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# Tables

**Table 1.1 Four Local Models for Decentralisation**

Name	Decentralisation Type
Local Government Decentralisation Initiative	Devolution of decision-making and power to local governments
The De Facto MOHP Decentralisation Model	Deconcentration model (functions are delegated to lower levels to the degree that the capacity to carry out those functions exists or can be put in place at a reasonable cost.
The Two Level MOHP Model	Elimination of the regional offices
The Health Delivery Area Model	Health services would emanate from a major facility, e.g., a district hospital or a large CHAM hospital

**Table 1.2 Summary of Household Visits in Pemba Village**

	GMP attendants	GMP absentees	Total
No. of U5 children (percentage)	62 (47.0%)	70 (53.0%)	132
No. of children studied (percentage)	59 (48.0%)	64 (52.0%)	123

**Table 1.3 GMP Coverage in Pemba Village According to Age Group**

Age	No. of Children	No. of Attendants	Coverage Rate
<12m.o.	32	20	62.5%
<24m.o.	35	23	65.7%
<36m.o.	20	6	30.0%
<48m.o.	16	6	37.5%
<60m.o.	20	4	20.0%
Total	123	59	48.0%

**Table 1.4 Comparison between GMP Attendants and Absentees**

Age	GMP attendants				GMP absentees					
	No.	Weight	Stunted		No.	Weight	Stunted			
<12m.o.	20	3	15.0%	8	40.0%	12	5	41.7%	6	50.0%
<24m.o.	23	7	30.4%	19	82.6%	12	5	41.7%	5	41.7%
<36m.o.	6	1	16.7%	4	66.7%	14	4	28.6%	8	57.1%
<48m.o.	6	0	0.0%	5	83.3%	10	2	20.0%	5	50.0%
<60m.o.	4	1	25.0%	3	75.0%	16	3	18.8%	8	50.0%
Total	59	12	20.3%	39	66.1%	64	19	29.7%	32	50.0%

**Table 1.5 Comparison of GMP Attendants between SDH and Pemba Village**

Age	Attendants to GMP at SDH					Attendants to GMP in Pemba				
	No.	weight	Stunted			No.	Weight	Stunted		
<12m.o.	44	4	9.1%	8	18.2%	66	10	15.2%	20	30.3%
<24m.o.	23	7	30.4%	18	78.3%	37	11	29.7%	30	81.1%
<36m.o.	3	1	33.3%	2	66.7%	23	8	34.8%	16	69.6%
<48m.o.	5	2	40.0%	5	100%	16	4	25.0%	15	93.8%
<60m.o.	2	1	50.0%	1	50.0%	6	4	66.7%	6	100%
<b>Total</b>	<b>77</b>	<b>15</b>	<b>19.5%</b>	<b>34</b>	<b>44.2%</b>	<b>148</b>	<b>37</b>	<b>25.0%</b>	<b>87</b>	<b>58.8%</b>

**Table 1.6 Admission and In-hospital Mortality at the Paediatric Ward of SDH**

Diagnosis	Jan '98		Jul '98	
	Admission	Mortality	Admission	Mortality
Malaria	103	5	37	5
Malaria with anaemia	63	7	33	5
Pneumonia	37	2	30	4
Malnutrition	31	4	7	3
Trauma	13		21	1
Diarrhoea	7		10	
Musculoskeletal	7		5	
Urinary Diseases	4		5	
Eye Diseases	0		5	
TB	3		1	
Neonatal sepsis	0		4	
Other LRI	2		0	
Bilharzia	2		0	
Other diseases	21	4*	32	5**
<b>Total</b>	<b>293</b>	<b>22</b>	<b>190</b>	<b>23</b>

\*) Meningitis, Anaemia, Congestive cardiac failure and sepsis

\*\*\*) Meningitis (2), Anaemia (2) and Dehydration

Table 1.7 Admission and In-hospital Mortality at the Adult Wards of SDH

Diagnosis	Jan '98		Jul '98	
	Admission	Mortality	Admission	Mortality
Trauma	37		63	2
Malaria	47	4	46	6
Pneumonia	35	2	25	5
TB	27	2	21	7
Diarrhoea	16	3	9	
Eye Diseases	11		8	
Psychiatric	9		7	
ARC	9	4	7	4
Musculoskeletal	6		7	
Skin Diseases	8		3	
Urinary Diseases	5		6	
Anaemia	9		1	
Asthma	5		2	
Breast Diseases	2		3	
Cardiac Diseases	2		1	1
Bilharzia	1		2	
Bacterial dysentery	1		0	
Other diseases	42	3	48	7
<b>Total</b>	<b>272</b>	<b>18</b>	<b>259</b>	<b>32</b>

Table 1.8 Admission to the Mua Hospital (1996)

Diagnosis	Diagnosis	Diagnosis	Adults
Malaria	508	Pneumonia	226
Anaemia	356	ARC	164
Pneumonia	228	Malaria	131
Malnutrition	102	TB	109
Diarrhoea	95	Skin	83
Meningitis	29	Trauma and poisoning	81
Trauma and poisoning	26	Anaemia	74
Septicaemia	15	Diarrhoea	48
Nephritis	11	Musculoskeletal	34
Skin	11	Meningitis	33
URI	10	Dysentery	30
TB	8	Heart failure	24
ARC	6	PID	23
Measles	5	Pleural effusion	18
Asthma	5	Bilharzia	17
Musculoskeletal	5	Obstetrical	16
Other diseases	29	Others	308
<b>Total</b>	<b>1449</b>	<b>Total</b>	<b>1419</b>

Notes: Diagnosis category is modified from original one for comparison with the data from SDH.

**Table 1.9 Ratio of LBW: Primipara vs. Multipara**

	Primipara	Multipara	Total
LBW	3 (4.5%)	2 (1.7%)	5 (2.7%)
Normal BW	64	114	178

**Table 1.10 Dosage of S-P**

Age Group	Dosage of S-P (Tablets)
Under 6 months	1/4
6 months-3 years	1/2
4-8 years	1
9-14 years	2
Over 14 years	3

**Table 1.11 ARI Cases in the Under Five Children**

Year	Cases	Population	Incidence
1991	131,789	1,611,990	81/1000
1992	109,330	1,826,490	59/1000
1993	184,796	1,955,085	95/1000
1994	252,737	2,029,362	125/1000
1995	224,116		

Note: Number of cases was calculated from OPD Report.  
URI, Pneumonia and other LRI are included.

**Table 1.12 Case Fatality of Pneumonia in Under Five Children**

Year	Deaths	Cases	Rate
1990	1,920	24,262	7.9%
1991	398	7,529	5.3%
1992	944	15,520	6.1%
1993	263	3,792	6.9%

**Table 1.13 Number of Reported EPI Diseases in Malawi (1996)**

Disease	Cases
Acute Flaccid Paralysis	9*
Poliomyelitis	0
Measles	4,121
Diphtheria	0
Pertussis	0
Neonatal Tetanus	6

Source: MEPI Unit, 1996<sup>1</sup>

\* Five of these were identified through active search in paediatric wards

Table 1.14 Immunisation Coverage (%) of Children 0-11 Months

Antigen	Routine 1992	Routine 1993	Survey 1993	Routine 1994	Routine 1995	Routine 1996	Survey* 1996
OPV	84	91	92	98	89	83	83
Measles	82	87	92	98	97	90	68
DPT	86	91	99	98	77	90	81
BCG	98	99	96	99	99	99	97

Source: National Immunisation Days Secretariat, MOHP (referred from MEPI Unit 1996 / \*MKAPH 1996)

Table 1.15 Child Immunisation Schedule

Age	Antigen/Dose	Mode of Administration
At birth	BCG	0.05 ml intradermal left upper arm
6 weeks	Polio 0 2 drops orally	0.5 ml intramuscular
	DPT 1	
10 weeks	Polio 1 2 drops orally	0.5 ml intramuscular
	DPT 2	
14 weeks	Polio 2 2 drops orally	0.5 ml intramuscular
	DPT 3	
9 months	Measles	0.5 ml intramuscular

Source: MOHP, Information on Malawi expanded programme on immunisation







Table 1.16 (3) Drug Stock - Others

Drug Stock		Private	Army	Police	Army	Parachute	BLM
NO	TABLETS/CAPSULES	Admarc	MAFCO	Mtakataka	P	P	
1	Albendazole 200mg	NONE	NE	NONE	NONE	NONE	E
2	Aminophiline 100mg	E	NONE	NONE	NONE	NONE	E
3	Aspirin 300mg	E	NE	NE	NE	NE	E
4	Chlorpheniramine 4mg	E	E	NONE	NONE	NONE	1000
5	Chlorpromazine 25mg	NONE	E	NONE	NONE	NONE	NONE
6	Cotrimoxazole 400/80mg	E	NE	NONE	NONE	NONE	E
7	Ferrous 200mg	E	NONE	NONE	NONE	NONE	E
8	Folic acid 5mg	E	E	NONE	NONE	NONE	E
9	Magnesium trisilicate comp.	NE	NE	NONE	NE	NE	E
10	Metrifonate 100mg	NONE	NONE	NONE	NONE	NONE	E
11	Penicillin V 250 mg	NONE	NE	NONE	NONE	NONE	E
12	Sulfadoxin/Pyrimethamine 500/25mg	E	E	NONE	E	E	E
13	Vitamin A 200,000 IU	NONE	E		1	NONE	NONE
No	INJECTIONS						
14	Benzathne penicillin 2.4MU	NE	NE	NONE	NONE	NONE	190
15	Benzylpenicillin 5MU	NONE	NE	NONE	NONE	NONE	20
16	Quinine 300 mg/ ml. 2mp amp	NONE	NE	NONE	NONE	NONE	NONE
17	Water for inj. 1/v 100ml. Amp	E	NE	NE	NE	NE	23
No	MISCELLANEOUS						
19	Gertian Violet paint aqueous 0.5% 500m	E	E	NE	NE	NONE	E
20	ORS (Oral rehydration Salts)	NONE	NONE	NE	NE	NONE	E
21	Salicylic acid + Sulphur ointment	E	NONE	NONE	NONE	NONE	NONE
22	Tetracycline Eye ointment 1% 3.5mg tube	E	NE	NONE	NONE	NONE	E
NO	CHILD SPACING						
23	Condoms	E	E		96	NONE	E
24	Copper T (IUD)	NONE	NONE	NONE	NONE	NONE	32
25	DepoProvera 150mg/10ml	E	30	33	NONE	NONE	475
26	Oral contracep. Combined (Lofeminol)	E	E	24	NONE	NONE	NONE
27	Ovrette oral contracep. Progesterone	E	E	NONE	NONE	NONE	95
	Out of stock longer than 1 week	N	N	Y	Y	N	N
	within past 6 months						
	How long?			2 weeks	1 week		
	How many times?			1	6		
	Registry form of drugs	Y	Y	N	Y	Y	Y

**Table 1.17 Health Facilities by Type and Operating Agency  
(Salima District and Dedza East Area)**

Health Facility Type	OPERATING AGENCY						Total
	MOHP	CHAM	Private	NGO	Military	Police	
District Hospital	1						1
General Hospital		1					1
Dispensary	1		8	1	1	1	11
Dispensary/Maternity	8	7			1		17
<b>Total</b>	<b>10</b>	<b>8</b>	<b>8</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>30</b>

**Table 1.18 Health Facilities by Type and Operating Agency  
(All over the Malawi)**

Health Facility Type	OPERATING AGENCY				Total
	MOHP	CHAM	Private	Other Providers	
Central Hospital	3				3
General Hospital		20	3	1	24
District Hospital	21				21
Leprosy /Mental Hosp.	2	1			3
Dispensary	115	29	37	162	343
Dispensary/Maternity	123	83	3	24	233
Health Post	4			8	12
Health Post/Maternity	13	3	2		18
Maternity	78	3	9	1	91
Primary Health Care	20	22			42
Mobile Clinic	541	230	9	1	781
<b>Total</b>	<b>920</b>	<b>391</b>	<b>63</b>	<b>197</b>	<b>1571</b>
%	58.6%	24.9%	4.0%	12.5%	100%

**Table 1.19 Health Facilities per 100 Thousand People**

Salima			Central Region			Malawi		
Hospital	H.C	Dispensary	Hospital	H.C	Dispensary	Hospital	H.C	Dispensary
0.37	4.41	3.7	0.35	2.61	2.58	0.42	2.02	2.98

**Table 1.20 Health Facilities and Service Levels in the Central Region**

Health Facilities		Salima	Kasungu	Nkhotakota	Ntchisi	Dowa	Mchinji	Dedza	Ntcheu	Lilongwe	Total
Hospital	MOHP	1	1	1	1	1	1	1	1	1	-
	CHAM	0	0	0	0	0	1	0	1	0	-
	Private	0	0	0	0	0	0	0	0	0	-
	Other	0	0	0	0	0	0	0	0	0	-
	Sub-total	1	1	1	1	2	1	2	2	1	6
Health Centre	MOHP	6	7	4	5	9	4	5	8	8	-
	CHAM	6	1	3	2	3	1	10	12	12	-
	Private	0	2	1	0	0	1	0	0	0	-
	Other	0	2	0	0	3	1	0	0	0	-
	Sub-total	12	12	8	7	15	7	15	20	20	21
Dispensary	MOHP	1	3	2	1	0	2	7	6	6	-
	CHAM	0	0	0	0	0	0	0	1	1	-
	Private	6	6	8	0	2	5	2	1	1	-
	Other	3	3	1	2	3	0	4	2	2	-
	Sub-total	10	12	11	3	5	7	13	10	10	45
Total	MOHP	8	11	7	7	10	7	13	15	15	-
	CHAM	6	1	3	2	4	1	11	13	13	-
	Private	6	8	9	0	2	6	2	1	1	-
	Other	3	5	1	2	6	1	4	2	2	-
	Total	23	25	20	11	22	15	30	30	31	72
Population	1995	245,005	418,915	204,688	156,529	417,593	323,581	533,319	464,652	1,264,864	
	1998	272,429	465,806	227,599	174,050	464,336	359,800	593,015	516,660	1,406,446	

**Table 1.21 Health Professionals per Population Ratios Comparisons of WHO Specifications and Current Situation in Malawi**

Staff Category	Personnel/Population Ratio (Malawi)	WHO Specification (Personnel/Population Ratio)
Medical Officer	1:42,919	1:10,000
Dentist	1:5,322,000	1:100,000
Nurse	1:1,632	1:1,000
Dental Technician	1:665,000	1:33,333
Pharmacist	1:171,000	1:33,333
Pharmacy Technician/Assistant	1:103,339	1:10,000
Radiographers	1:1,520,000	1:100,000
X-ray Operator (Radiograph Technician/Assistant)	1:168,952	1:33,333
Laboratory Technologist (Laboratory Technician/Assistant)	1:69,120	1:100,000
Environmental Health Technician/Health Assistant	1:40,000	1:10,000

National projected population in 1996: 10,644,500

Source: Human Resources Team, "Human Resources in Support of Implementing Essential Health Care Package in Malawi", July-September, 1997

**Table 1.22 In-post Health Personnel by Operative Agency and Registered Numbers**

Staff Category	MOHP	CHAM	Local Government	Total *	Total
<b>Registered**</b>					
Medical Specialist	20	0	0	20	59
Medical Officer	81	14	0	95	189
Dentist	2	0	0	2	2
Clinical Officers	227	36	0	263	266
Registered Nurse	422	58	0	480	2,070
Enrolled Nurse/Midwife	1,412	669	63	2,144	4,105
Public Health Nurses	28	0	0	28	28
Enrolled Community Nurse	237	2	0	239	316
Environmental Health Officer	92	3	0	95	95
Health Assistant	253	9	2	264	264
Laboratory Technician	22	17	0	39	44
Laboratory Assistant	73	36	0	109	110
Pharmacist	3	0	0	3	62
Pharmacy Technician	8	0	0	8	11
Pharmacy Assistant	52	11	0	53	92
Physiotherapy Technician	1	0	0	1	1
Radiographer	7	0	0	7	7
Radiography Technicians	6	3	0	9	44
Radiography Assistant	19	0	0	19	19
Dental Technician	13	3	0	26	16
Dental Assistant	38	12	0	50	51
Medical Assistant	444	151	9	604	609
Health Surveillance Assistant	3,531	79	9	3,619	3,622

\* This total can be considered as numbers of those working in the public sector.

\*\* Number of those registered in the Medical Council, Nursing Council and Pharmacy, Medicines and Poisons Board (1996 register).

Source: Human Resources Team, "Human Resources in Support of Implementing Essential Health Care Package in Malawi", July-September, 1997

Table 1.23 Distribution of MOHP Personnel by Level of Care

Staff Category	HC Dispensaries / Maternity Unit	Rural Hospital	District Hospitals	Zomba Mental Hospital	RHOs	Central Hospitals	Total
Medical Specialist	0	0	0	0	0	20	20
Medical Officer	0	0	20	0	3	58	81
Dentist	0	0	0	0	0	2	2
Clinical Officers	0	12	126	1	9	79	227
Registered Nurse	0	13	151	6	14	238	422
Enrolled Nurse/Midwife	450	80	381	12	5	484	1,412
Public Health Nurses	0	0	19	0	9	0	28
Enrolled Community Nurs	124	8	67	0	0	38	237
Environmental Health Offi	23	9	47	0	11	2	92
Health Assistant	152	13	84	0	4	0	253
Laboratory Technician	0	0	8	0	0	14	22
Laboratory Assistant	0	2	33	0	0	38	73
Pharmacist	0	0	0	0	0	3	3
Pharmacy Technician	0	0	3	0	0	5	8
Pharmacy Assistant	0	3	17	0	0	32	52
Physiotherapy Technician	0	0	0	0	0	3	3
Radiographer	0	0	0	0	0	7	7
Radiography Technicians	0	0	1	0	0	5	6
Radiography Assistant	0	0	7	0	0	12	19
Dental Technician	0	0	0	0	0	13	13
Dental Assistant	0	1	0	0	1	36	38
Medical Assistant	236	30	129	2	0	47	444
Health Surveillance Assis	2,627	30	129	2	0	47	2,835

Source: MOHP Records Office Staff Returns (1996)

Table 1.24 Staff Deployment in the Study Area

	MOHP			GHAM			Other	Grand Total **
	SDH	HCs	Total	MMH	HCs	Total		
<b>Medical Officers</b>								
Medical Officers	1	0	1	2	0	2	0	3
Clinical Officers	9	0	9	1	0	1	3	13
Medical Assistant	6	7	13	3	6	9	3	22
Dental Assistant	1	0	1	1	0	1	0	2
<b>Nurses</b>								
Registered Nurse	13	0	13	0	0	0	2	15
Enrolled Nurse/Midwife	16	12	28	11	16	27	9	64
<b>Clinical Support</b>								
Laboratory	2	0	2	1	1	2	1	5
Pharmacy	2	0	2	1	0	1	0	3
Radiography	0	0	0	0	0	0	0	0
<b>Preventive PHC</b>								
Environmental Health Officer	1	0	1	0	0	0	0	1
Assistant EHO	2	1	3	0	0	0	0	3
Health Assistant	3	5	8	0	0	0	0	8
Community Health Nurse	2	0	2	0	0	0	0	2
HSA	28	55	83	2	25	27	11	111
Lepra Assistant	1	0	1	0	0	0	0	1
Home Craft Worker*	0	0	0	3	4	7	1	8
PHC Coordinator	0	0	0	1	0	1	0	1
<b>Attendant</b>								
Patient Attendant	10	0	10	0	0	0	0	10
Hospital/Ward Attendant	63	23	86	18	14	32	8	128
Other Attendant	0	0	0	5	1	6	0	6
<b>Administrative</b>								
Hospital Administrator	1	0	1	1	0	1	0	2
Accountant/Assistant	0	0	0	2	2	4	0	4
Clerical	6	0	6	1	1	2	0	8
Other	4	0	4	1	0	1	0	5
<b>Maintenance &amp; Support</b>								
Bldg/Grounds	21	9	30	10	6	16	0	46
Cateress/Cook	8	0	8	0	0	0	0	8
Drivers	9	0	9	1	1	2	0	11
Wathman	9	10	19	4	9	13	0	32
Others	14	1	15	3	0	3	5	23
<b>Total</b>	<b>232</b>	<b>123</b>	<b>355</b>	<b>72</b>	<b>83</b>	<b>155</b>	<b>33</b>	<b>543</b>

Table 1.23 Distribution of MOHP Personnel by Level of Care

Staff Category	Home-visit /Community Clinic	Health Centre	District Hospital	Zonal Medical Hospital	PHO	Central Hospital	Total
Medical Specialist	0	0	0	0	0	20	20
Medical Officer	0	0	20	0	3	58	81
Dentist	0	0	0	0	0	2	2
Clinical Officers	0	12	126	1	9	79	227
Registered Nurse	0	13	151	6	14	238	422
Enrolled Nurse/Midwife	450	80	381	12	5	484	1,412
Public Health Nurses	0	0	19	0	9	0	28
Enrolled Community Nurs	124	8	67	0	0	38	237
Environmental Health Offi	23	9	47	0	11	2	92
Health Assistant	152	13	84	0	4	0	253
Laboratory Technician	0	0	8	0	0	14	22
Laboratory Assistant	0	2	33	0	0	38	73
Pharmacist	0	0	0	0	0	3	3
Pharmacy Technician	0	0	3	0	0	5	8
Pharmacy Assistant	0	3	17	0	0	32	52
Physiotherapy Technician	0	0	0	0	0	3	3
Radiographer	0	0	0	0	0	7	7
Radiography Technicians	0	0	1	0	0	5	6
Radiography Assistant	0	0	7	0	0	12	19
Dental Technician	0	0	0	0	0	13	13
Dental Assistant	0	1	0	0	1	36	38
Medical Assistant	236	30	129	2	0	47	444
Health Surveillance Assis	2,627	30	129	2	0	47	2,835

Source: MOHP Records Office Staff Returns (1996)

Table 1.24 Staff Deployment in the Study Area

	MOHP			CHAM			Other	Grand Total **
	SDH	HCs	Total	MMH	HCs	Total		
<b>Medical/Dental Officers</b>								
Medical Officers	1	0	1	2	0	2	0	3
Clinical Officers	9	0	9	1	0	1	3	13
Medical Assistant	6	7	13	3	3	6	3	22
Dental Assistant	1	0	1	1	0	1	0	2
<b>Nurses</b>								
Registered Nurse	13	0	13	0	0	0	2	15
Enrolled Nurse/Midwife	16	12	28	11	16	27	9	64
<b>Clinical Support</b>								
Laboratory	2	0	2	1	1	2	1	5
Pharmacy	2	0	2	1	0	1	0	3
Radiography	0	0	0	0	0	0	0	0
<b>Preventive/Promotive</b>								
Environmental Health Officer	1	0	1	0	0	0	0	1
Assistant EHO	2	1	3	0	0	0	0	3
Health Assistant	3	5	8	0	0	0	0	8
Community Health Nurse	2	0	2	0	0	0	0	2
HSA	28	55	83	2	25	27	1	111
Lepra Assistant	1	0	1	0	0	0	0	1
Home Craft Worker*	0	0	0	3	4	7	1	8
PHC Coordinator	0	0	0	1	0	1	0	1
<b>Attendant</b>								
Patient Attendant	10	0	10	0	0	0	0	10
Hospital/Ward Attendant	63	23	86	18	14	32	8	126
Other Attendant	0	0	0	5	1	6	0	8
<b>Administration</b>								
Hospital Administrator	1	0	1	1	0	1	0	2
Accountant/Assistant	0	0	0	2	2	4	0	4
Clerical	6	0	6	1	1	2	0	8
Other	4	0	4	1	0	1	0	5
<b>Maintenance &amp; Support</b>								
Bldg/Grounds	21	9	30	10	6	18	0	46
Cateress/Cook	8	0	8	0	0	0	0	8
Drivers	9	0	9	1	1	2	0	11
Wathman	9	10	19	4	9	13	0	32
Others	14	1	15	3	0	3	5	23
<b>Total</b>	<b>232</b>	<b>123</b>	<b>355</b>	<b>72</b>	<b>83</b>	<b>155</b>	<b>33</b>	<b>543</b>

Table 1.25 Training Courses Offered during the 1997

Training	Category of those who attended
Severe malaria case management	CO, MA
CDD workshop	CO
EPI	MA, EN/M
TB/DOTS briefing	MA, EN/M, HSA
Family Planning	EN/M, HSA
Water & sanitation	HA, HSA
Safe motherhood	EN/M, HA
Emergency obstetric care	Nurses, TBA

Table 1.26 Training Courses Attended by HSAs during 1995 – 1998

Type of Course	Year	# of days	Place	Sponsor
Community based maintenance/TOT	1995	5	Chipoka	SCF-UK
Family Planning	1997	5	Salima	Government
Community based development	1996	10	Salima	UNICEF
TB briefing	1997	1	Chipoka	WHO
Soya bean promotion	1996	1	Lilongwe	WFP
Bilharzia control	1997	4	Chipoka	Government
Drug Revolving Fund	1997	4	Makioni	WHO
Borehole maintenance	1996	5	Chipoka HC	SCF-UK
Domeslab casting	1998	3	Chipoka	SCH-UK
KAP survey	1998	3	Chipoka	SCH-UK
Monitoring for empowerment	1996	5	Salima	Government
Community empowerment	1996	3	Salima	CONGOMA
PRA problem identification	1998	5	Salima	ACTION AID
Malaria (microscope)	1995	14	CHSU	PHN project

Table 1.27 Courses Attended by HAs/AEHOs during 1990 – 1998

Type of Course	Year	# of days	Place	Sponsor
EPI	1991	3	Salima	UNICEF
	1993	5		
	1997	3		
Home based care	1994	5	Ntcheu	UNICEF
Home based care on AIDS	1996	5	Chipoka	MOHP
Drought relief	1993	3	Salima	MOHP
Bilharzia	1990	3	Salima	SLAD
Salt iodisation	1995	3	Blantyre	UNICEF
TB	1995	5	Salima	UNICEF
Counselling	1997	5	Salima	UNICEF
Monitoring for empowerment	1993	3	CHIPA	MOHP
	1996	4		
CBM on water hygiene	1996	5	Chipoka	Salima
	1997	3	SCF-UK	
Gravity fed piped water	1995	5	Chipoka	World Vision
Family Planning	1992	3	Salima	MOHP
	1996	3		UNICEF
	1997	2		MOHP
Communication skills	1997	6	Mzuzu	UNICEF
Community based maintenance	1996	5	Mtakataka	Concern International
PHC Review	1997	5	Lilongwe	WHO
HSA trainer course	1996	14	Mponea	PHN Project



Table 1.25 Training Courses Offered during the 1997

Training Course	Target Audience
Severe malaria case management	CO, MA
CDD workshop	CO
EPI	MA, EN/M
TB/DOTS briefing	MA, EN/M, HSA
Family Planning	EN/M, HSA
Water & sanitation	HA, HSA
Safe motherhood	EN/M, HA
Emergency obstetric care	Nurses, TBA

Table 1.26 Training Courses Attended by HSAs during 1995 – 1998

Name of Course	Year	No. of days	Place	Sponsor
Community based maintenance/TOT	1995	5	Chipoka	SCF-UK
Family Planning	1997	5	Salima	Government
Community based development	1996	10	Salima	UNICEF
TB briefing	1997	1	Chipoka	WHO
Soya bean promotion	1996	1	Lilongwe	WFP
Bilharzia control	1997	4	Chipoka	Government
Drug Revolving Fund	1997	4	Makioni	WHO
Borehole maintenance	1996	5	Chipoka HC	SCF-UK
Domeslab casting	1998	3	Chipoka	SCH-UK
KAP survey	1998	3	Chipoka	SCH-UK
Monitoring for empowerment	1996	5	Salima	Government
Community empowerment	1996	3	Salima	CONGOMA
PRA problem identification	1998	5	Salima	ACTION AID
Malaria (microscope)	1995	14	CHSU	PHN project

Table 1.27 Courses Attended by HAs/AEHOs during 1990 – 1998

Name of Course	Year	No. of days	Place	Sponsor
EPI	1991	3	Salima	UNICEF
	1993	5		
	1997	3		
Home based care	1994	5	Ntcheu	UNICEF
Home based care on AIDS	1996	5	Chipoka	MOHP
Drought relief	1993	3	Salima	MOHP
Bilharzia	1990	3	Salima	SLAD
Salt iodisation	1995	3	Blantyre	UNICEF
TB	1995	5	Salima	UNICEF
Counselling	1997	5	Salima	UNICEF
Monitoring for empowerment	1993	3	CHIPA	MOHP
	1996	4		
CBM on water hygiene	1996	5	Chipoka	Salima
	1997	3	SCF-UK	
Gravity fed piped water	1995	5	Chipoka	World Vision
Family Planning	1992	3	Salima	MOHP
	1996	3		UNICEF
	1997	2		MOHP
Communication skills	1997	6	Mzuzu	UNICEF
Community based maintenance	1996	5	Mtakataka	Concern International
PHC Review	1997	5	Lilongwe	WHO
HSA trainer course	1996	14	Mponea	PHN Project

Table 1.28 Spending by MOHP on Major Inputs

	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97
<b>Nominal Spending (MK million)</b>						
Personal emoluments	18.9	36.6	37.6	87.6	141.8	187.2
Consumable Inputs	34.3	34.1	33.5	60.5	104.8	207
Drugs and medical supplies	18.6	15.9	21.5	49.9	105.2	135
<b>Constant (1990/91) prices</b>						
Personal emoluments	16.4	26.7	22.9	38.3	36.9	36
Consumable Inputs	29.8	24.9	20.4	26.4	27.3	39.8
<b>\$US</b>						
Drugs and medical supplies per capita	0.7	0.5	0.5	0.6	0.7	0.8

Source: HFWG

Table 1.29 Spending by MOHP on Central Hospitals and Districts

	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97
<b>Central Hospitals</b>						
Personal emoluments (MK mill.)	6.6	10	6.7	10.6	9.5	8.3
Consumable inputs (MK mill.)	9.2	6.3	3.7	7.6	5.7	10.3
Drugs and medical supplies (\$US million)	2.7	2.4	2.5	2.8	0.6	-
<b>Districts</b>						
Personal emoluments (MK mill.)	7	11.5	10.8	23.8	23.7	24.2
Consumable Inputs (MK mill.)	10.6	10	8.1	9.8	12.6	18.4
Drugs and medical supplies per capita (\$US million)	3	1.9	2	2.8	6.2	-

Source: HFWG

Table 1.30 MOHP Expenditures by Year Projected to 1998

	87/88	90/91	91/92	92/93	93/94	94/95	95/96	96/97	97/98
Nominal Expenditure (millions of kwacha)	40.8	76.1	81.2	106.3	150.5	244.9	336.3	444.1	836.8 (estimated)
Real Expenditure (mn of 1982 kwacha)	11.6	16.7	14.2	16.7	19.3	24.7	24.6	18.6	20.9 (estimated)

Source: Health Finance Working Group (HFWG)

Table 1.31 Allocation of MOHP Recurrent Budget, 1996/97

Health Service Function	Percentage of budget
Management and regulatory	9.30%
Regional Health Offices	1.60%
Training institutions	2.30%
Preventive services (excludes donor funds)	2.80%
Central Hospitals	20.30%
Mental Hospital	1.60%
District Health Services	61.20%
<b>Total</b>	<b>100%</b>

Source: HFWG

Table 1.28 Spending by MOHP on Major Inputs

	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97
<b>Nominal Spending (MK million)</b>						
Personal emoluments	18.9	36.6	37.6	87.6	141.8	187.2
Consumable inputs	34.3	34.1	33.5	60.5	104.8	207
Drugs and medical supplies	18.6	15.9	21.5	49.9	105.2	135
<b>Constant (1990/91) prices</b>						
Personal emoluments	16.4	26.7	22.9	38.3	36.9	36
Consumable inputs	29.8	24.9	20.4	26.4	27.3	39.8
<b>\$US</b>						
Drugs and medical supplies per capita	0.7	0.5	0.5	0.6	0.7	0.8

Source: HFWG

Table 1.29 Spending by MOHP on Central Hospitals and Districts

	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97
<b>Central Hospitals</b>						
Personal emoluments (MK mill.)	6.6	10	6.7	10.6	9.5	8.3
Consumable inputs (MK mill.)	9.2	6.3	3.7	7.6	5.7	10.3
Drugs and medical supplies (\$US million)	2.7	2.4	2.5	2.8	0.6	-
<b>Districts</b>						
Personal emoluments (MK mill.)	7	11.5	10.8	23.8	23.7	24.2
Consumable inputs (MK mill.)	10.6	10	8.1	9.8	12.6	18.4
Drugs and medical supplies per capita (\$US million)	3	1.9	2	2.8	6.2	-

Source: HFWG

Table 1.30 MOHP Expenditures by Year Projected to 1998

	87/88	89/91	91/92	92/93	93/94	94/95	95/96	96/97	97/98
Nominal Expenditure (millions of kwacha)	40.8	76.1	81.2	106.3	150.5	244.9	336.3	444.1	836.8 (estimated)
Real Expenditure (mn of 1982 kwacha)	11.6	16.7	14.2	16.7	19.3	24.7	24.6	18.6	20.9 (estimated)

Source: Health Finance Working Group (HFWG)

Table 1.31 Allocation of MOHP Recurrent Budget, 1996/97

Health Service Function	Percentage of Budget
Management and regulatory	9.30%
Regional Health Offices	1.60%
Training institutions	2.30%
Preventive services (excludes donor funds)	2.80%
Central Hospitals	20.30%
Mental Hospital	1.60%
District Health Services	61.20%
<b>Total</b>	<b>100%</b>

Source: HFWG

Table 1.32 Total Health Financing Sources

Source	MK millions	Percentage
Government	836.8	27.4%
Missions	50 (est.)	1.6%
Donors	1884.0	61.7%
Private expenditures	280.0	9.2%
Total	3050.8	99.9%

Table 1.33 Socioeconomic Status of Household and Distance to Nearest Facility vs. First Source of Care for Children with Fever

SES/Distance	MOHP Health Centre	MOHP Hospital	CHAM Hospital	Private Clinic	Village Health Worker	Grocery/ Pharmacy	Market/ Street Vendor	Traditional Healer	Other	Total
Low/Near	69 (46.0%)	20 (13.3%)	9 (6.0%)	11(7.3%)	0	41 (27.3%)	0	0	0	150
Low/Distant	31 (29.5%)	18 (17.1%)	4 (3.8%)	10 (9.5%)	1 (1.0%)	37 (35.2%)	0	1 (1.0%)	3 (2.9%)	105
Middle/Near	32 (68.1%)	2 (4.3%)	5 (10.6%)	0	0	8 (17.0%)	0	0	0	47
Middle/Distant	82 (47.1%)	36 (20.7%)	12 (6.9%)	11 (6.3%)	6 (3.4%)	25 (14.4%)	1 (0.6%)	0	1 (0.6%)	174
High/Near	44 (61.1%)	1 (1.4%)	9 (12.5%)	1 (1.4%)	0	16 (22.2%)	0	1 (1.4%)	0	72
High/Distant	16 (21.9%)	8 (11.0%)	4 (5.5%)	6 (8.2%)	2 (2.7%)	35 (47.9%)	0	1 (1.4%)	1 (1.4%)	73
Total	274 (44.1%)	85 (13.7%)	43 (6.9%)	39 (6.3%)	9 (1.5%)	162 (26.1%)	1 (0.2%)	3 (0.5%)	5 (0.8%)	621

Table 1.34 Missing Months for HIS Outpatient Data by Health Facility Salima District, 1997

Health Facility		Month missing at district level	Month missing after the search
MOHP facilities	Salima District Hospital	None	None
	Makioni	May - Dec.	May - Dec.
	Khombedza	Augt.	Augt.
	Chinguluwe	None	None
	Maganaga	None	None
	Muchoka	Jan.	Jan.
	Chipoka	None	None
	Mtakataka	Nov.	None
	Golomoti	Jan, Feb, Apr, May, June, Sept. - Dec.	Jan, Feb, Apr, May, June, Sept. - Dec
Lifuwu	July	July	
CHAM facilities	Mua Hospital	Jan - Oct.	Jan. - Oct.
	Thavite	Apr.	None
	Chitala	June, Nov.	None
	Kaphtenga	None	None
	Senga Bay Baptist	None	None
	Ngozi	Jan., Aug., Nov.	None
	Nakalanzi	None	None
	Kaundu	None	None
	Admarc (other type)	None	None

Table 1.32 Total Health Financing Sources

Source	MK millions	Percentage
Government	836.8	27.4%
Missions	50 (est.)	1.6%
Donors	1884.0	61.7%
Private expenditures	280.0	9.2%
Total	3050.8	99.9%

Table 1.33 Socioeconomic Status of Household and Distance to Nearest Facility vs. First Source of Care for Children with Fever

SES/Distance	MOHP Health Centre	MOHP Hospital	CHAM Hospital	Private Clinic	Village Health Worker	Grocery/ Pharmacy	Market/ Street Vendor	Traditional Healer	Other	Total
Low/Near	69 (46.0%)	20 (13.3%)	9 (6.0%)	11(7.3 %)	0	41 (27.3%)	0	0	0	150
Low/Distant	31 (29.5%)	18 (17.1%)	4 (3.8%)	10 (9.5%)	1 (1.0%)	37 (35.2%)	0	1 (1.0%)	3 (2.9%)	105
Middle/Near	32 (68.1%)	2 (4.3%)	5 (10.6%)	0	0	8 (17.0%)	0	0	0	47
Middle/Distant	82 (47.1%)	36 (20.7%)	12 (6.9%)	11 (6.3%)	6 (3.4%)	25 (14.4%)	1 (0.6%)	0	1 (0.6%)	174
High/Near	44 (61.1%)	1 (1.4%)	9 (12.5%)	1 (1.4%)	0	16 (22.2%)	0	1 (1.4%)	0	72
High/Distant	16 (21.9%)	8 (11.0%)	4 (5.5%)	6 (8.2%)	2 (2.7%)	35 (47.9%)	0	1 (1.4%)	1 (1.4%)	73
Total	274 (44.1%)	85 (13.7%)	43 (6.9%)	39 (6.3%)	9 (1.5%)	162 (26.1%)	1 (0.2%)	3 (0.5%)	5 (0.8%)	621

Table 1.34 Missing Months for HIS Outpatient Data by Health Facility Salima District, 1997

Health Facility		MOHP Missing Months	CHAM Missing Months
MOHP facilities	Salima District Hospital	None	None
	Makioni	May - Dec.	May - Dec.
	Khombedza	Augt.	Augt.
	Chinguluwe	None	None
	Maganaga	None	None
	Muchoka	Jan.	Jan.
	Chipoka	None	None
	Mtakataka	Nov.	None
	Golomoti	Jan, Feb, Apr, May, June, Sept. - Dec.	Jan, Feb, Apr, May, June, Sept. - Dec
Lifuwu	July	July	
CHAM facilities	Mua Hospital	Jan - Oct.	Jan. - Oct.
	Thavite	Apr.	None
	Chitala	June, Nov.	None
	Kaphtenga	None	None
	Senga Bay	None	None
	Baptist	None	None
	Ngozi	Jan., Aug., Nov.	None
	Nakalanzi	None	None
Kaundu	None	None	
Admarc (other type)	None	None	

**Table 1.35 Comparison of Required Number of Health Facilities according to Target Population**

	80% coverage within 5 km	100% coverage within 5 km	100% coverage within 5 km (optimal solution)
Number of existing facilities remained open	17	18 (no closure of existing facilities)	1
Number of additional facilities required	11	36	43
Total number of facilities required	28	54	44

Table 2.1 Age Group and Undernutrition in the North

Age	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
6-11M	6	25.0%	18	14	58.3%	10	1	4.2%	23	24
12-23M	12	40.0%	18	19	63.3%	11	3	10.0%	27	30
24-35M	12	57.1%	9	16	76.2%	5	1	4.8%	20	21
36-47M	9	36.0%	16	19	76.0%	6	1	4.0%	24	25
48-59M	9	39.1%	14	11	47.8%	12	1	4.3%	22	23
Total	48	39.0%	75	79	64.2%	44	7	5.7%	116	123

Table 2.2 Sex and Undernutrition in the North

Sex	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Male	27	39.7%	41	45	66.2%	23	4	5.9%	64	68
Female	21	38.2%	34	34	61.8%	21	3	5.5%	52	55
Total	48	39.0%	75	79	64.2%	44	7	5.7%	116	123

Table 2.3 Number of U5 Children and Undernutrition in the North

U5 children	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
1	21	40.4%	31	33	63.5%	19	5	9.6%	47	52
2	23	34.8%	43	41	62.1%	25	2	3.0%	64	66
3	4	80.0%	1	5	100%	0	0	0.0%	5	5
Total	48	39.0%	75	79	64.2%	44	7	5.7%	116	123

Table 2.4 Birth Order and Undernutrition in the North

Birth order	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Youngest	30	37.0%	51	52	64.2%	29	7	8.6%	74	81
(y.twins)	0	0.0%	2	0	0.0%	2	0	0.0%	2	2
2nd y.	16	43.2%	21	24	64.9%	13	0	0.0%	37	37
(2 <sup>nd</sup> y.twins)	2	100%	0	2	100%	0	0	0.0%	2	2
3rd y.	0	0.0%	1	1	100%	0	0	0.0%	1	1
Total	48	39.0%	75	79	64.2%	44	7	5.7%	116	123

**Table 2.5 Number of Died Children and Undernutrition In the North**

Died children	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
0	30	37.5%	50	50	62.5%	30	5	6.3%	75	80
1	9	34.6%	17	16	61.5%	10	0	0.0%	26	26
2	6	46.2%	7	10	76.9%	3	1	7.7%	12	13
3+	3	75.0%	1	3	75.0%	1	1	25.0%	3	4
<b>Total</b>	<b>48</b>	<b>39.0%</b>	<b>75</b>	<b>79</b>	<b>64.2%</b>	<b>44</b>	<b>7</b>	<b>5.7%</b>	<b>116</b>	<b>123</b>

**Table 2.6 Household Head and Undernutrition In the North**

Head	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Mother	2	100%	0	2	100%	0	0	0.0%	2	2
Other female	4	36.4%	7	8	72.7%	3	0	0.0%	11	11
Male	42	38.2%	68	69	62.7%	41	7	6.4%	103	110
<b>Total</b>	<b>48</b>	<b>39.0%</b>	<b>75</b>	<b>79</b>	<b>64.2%</b>	<b>44</b>	<b>7</b>	<b>5.7%</b>	<b>116</b>	<b>123</b>

**Table 2.7 HHSES and Undernutrition In the North**

HHSES	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
High	21	35.0%	39	36	60.0%	24	3	5.0%	57	60
Medium	13	38.2%	21	22	64.7%	12	2	5.9%	32	34
Low	14	48.3%	15	21	72.4%	8	2	6.9%	27	29
<b>Total</b>	<b>48</b>	<b>39.0%</b>	<b>75</b>	<b>79</b>	<b>64.2%</b>	<b>44</b>	<b>7</b>	<b>5.7%</b>	<b>116</b>	<b>123</b>

**Table 2.8 ReHHSES and Undernutrition In the North**

ReHHSES	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
High	18	39.1%	28	30	65.2%	16	2	4.3%	44	46
Medium	15	34.9%	28	24	55.8%	19	3	7.0%	40	43
Low	15	44.1%	19	25	73.5%	9	2	5.9%	32	34
<b>Total</b>	<b>48</b>	<b>39.0%</b>	<b>75</b>	<b>79</b>	<b>64.2%</b>	<b>44</b>	<b>7</b>	<b>5.7%</b>	<b>116</b>	<b>123</b>



Table 2.9 PERCPSES and Undernutrition in the North

PERCPSES	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
High	18	42.9%	24	27	64.3%	15	3	7.1%	39	42
Medium	17	34.7%	32	29	59.2%	20	2	4.1%	47	49
Low	12	38.7%	19	22	71.0%	9	1	3.2%	30	31
Blank	1	100%	0	1	100%	0	1	100%	0	1
Total	48	39.0%	75	79	64.2%	44	7	5.7%	116	123

Table 2.10 ReIPERCPSES and Undernutrition in the North

Rel- PERCPSES	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
High	17	45.9%	20	25	67.6%	12	3	8.1%	34	37
Medium	14	28.0%	36	27	54.0%	23	2	4.0%	48	50
Low	17	47.2%	19	27	75.0%	9	2	5.6%	34	36
Total	48	39.0%	75	79	64.2%	44	7	5.7%	116	123

Table 2.11 Duration of Exclusive BF and Undernutrition in the North

Exclusive BF	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
0-3M	9	37.5%	15	15	62.5%	9	0	0.0%	24	24
4-5M	16	33.3%	32	31	64.6%	17	4	8.3%	44	48
6M+	23	46.0%	27	33	66.0%	17	3	6.0%	47	50
?	0	0.0%	1	0	0.0%	1	0	0.0%	1	1
Total	48	39.0%	75	79	64.2%	44	7	5.7%	116	123

Table 2.12 Duration of BF and Undernutrition in the North

Quit of BF	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
<11M	0	0.0%	1	0	0.0%	1	0	0.0%	1	1
12-23M	13	48.1%	14	17	63.0%	10	4	14.8%	23	27
24M+	15	36.6%	26	26	63.4%	15	1	2.4%	40	41
?	1	50.0%	1	2	100%	0	0	0.0%	2	2
not yet	19	36.5%	33	34	65.4%	18	2	3.8%	50	52
Total	48	39.0%	75	79	64.2%	44	7	5.7%	116	123

**Table 2.13 Frequency of Meals and Undernutrition In the North**

Meals	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Nil or once	4	57.1%	3	5	71.4%	2	1	14.3%	6	7
Twice	13	39.4%	20	20	60.6%	13	0	0.0%	33	33
3 times	28	37.3%	47	49	65.3%	26	5	6.7%	70	75
>4 times	3	37.5%	5	5	62.5%	3	1	12.5%	7	8
<b>Total</b>	<b>48</b>	<b>39.0%</b>	<b>75</b>	<b>79</b>	<b>64.2%</b>	<b>44</b>	<b>7</b>	<b>5.7%</b>	<b>116</b>	<b>123</b>

**Table 2.14 Frequency of Eating Eggs and Undernutrition in the North**

Eggs	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Never	12	25.0%	36	29	60.4%	19	4	8.3%	44	48
once/M or less	24	58.5%	17	29	70.7%	12	2	4.9%	39	41
once-twice/W	8	30.8%	18	16	61.5%	10	0	0.0%	26	26
3-6 times/W	2	40.0%	3	3	60.0%	2	0	0.0%	5	5
once/D	1	50.0%	1	1	50.0%	1	1	50.0%	1	2
>once/D	1	100%	0	1	100%	0	0	0.0%	1	1
<b>Total</b>	<b>48</b>	<b>39.0%</b>	<b>75</b>	<b>79</b>	<b>64.2%</b>	<b>44</b>	<b>7</b>	<b>5.7%</b>	<b>116</b>	<b>123</b>

**Table 2.15 PFI Score and Undernutrition in the North**

Children aged 12-59 m.o. in the two northern districts										
PFI Score	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
0-4	3	30.0%	7	5	50.0%	5	1	10.0%	9	10
5-9	27	47.4%	30	38	66.7%	19	4	7.0%	53	57
10+	12	37.5%	20	22	68.8%	10	1	3.1%	31	32
<b>Total</b>	<b>42</b>	<b>42.4%</b>	<b>57</b>	<b>65</b>	<b>65.7%</b>	<b>34</b>	<b>6</b>	<b>6.1%</b>	<b>93</b>	<b>99</b>

**Table 2.16 Frequency of Fever and Undernutrition In the North**

Fever	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
3	11	68.8%	5	14	87.5%	2	3	18.8%	13	16
2	10	41.7%	14	15	62.5%	9	1	4.2%	23	24
1	16	34.8%	30	28	60.9%	18	2	4.3%	44	46
0	10	27.8%	26	21	58.3%	15	1	2.8%	35	36
?	1	100%	0	1	100%	0	0	0.0%	1	1
<b>Total</b>	<b>48</b>	<b>39.0%</b>	<b>75</b>	<b>79</b>	<b>64.2%</b>	<b>44</b>	<b>7</b>	<b>5.7%</b>	<b>116</b>	<b>123</b>

**Table 2.17 Frequency of Diarrhoea and Undernutrition in the North**

Diarrhoea	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
3	6	60.0%	4	10	100%	0	2	20.0%	8	10
2	1	25.0%	3	3	75.0%	1	0	0.0%	4	4
1	8	34.8%	15	14	60.9%	9	1	4.3%	22	23
0	32	37.6%	53	51	60.0%	34	4	4.7%	81	85
?	1	100%	0	1	100%	0	0	0.0%	1	1
<b>Total</b>	<b>48</b>	<b>39.0%</b>	<b>75</b>	<b>79</b>	<b>64.2%</b>	<b>44</b>	<b>7</b>	<b>5.7%</b>	<b>116</b>	<b>123</b>

**Table 2.18 Age Group and Undernutrition in the South**

Age	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
6-11M	10	29.4%	24	9	26.5%	25	6	17.6%	28	34
12-23M	53	58.2%	38	51	56.0%	40	26	28.6%	65	91
24-35M	27	38.0%	44	52	73.2%	19	7	9.9%	64	71
36-47M	24	41.4%	34	40	69.0%	18	5	8.6%	53	58
48-59M	27	45.0%	33	40	66.7%	20	2	3.3%	58	60
<b>Total</b>	<b>141</b>	<b>44.9%</b>	<b>173</b>	<b>192</b>	<b>61.1%</b>	<b>122</b>	<b>46</b>	<b>14.6%</b>	<b>268</b>	<b>314</b>

**Table 2.19 Sex and Undernutrition in the South**

Sex	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Male	77	47.5%	85	102	63.0%	60	24	14.8%	138	162
Female	64	42.1%	88	90	59.2%	62	22	14.5%	130	152
<b>Total</b>	<b>141</b>	<b>44.9%</b>	<b>173</b>	<b>192</b>	<b>61.1%</b>	<b>122</b>	<b>46</b>	<b>14.6%</b>	<b>268</b>	<b>314</b>

**Table 2.20 Number of U5 Children and Undernutrition in the South**

U5 children	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
1	56	41.5%	79	69	51.1%	66	21	15.6%	114	135
2	82	47.1%	92	119	68.4%	55	24	13.8%	150	174
3	3	60.0%	2	4	80.0%	1	1	20.0%	4	5
<b>Total</b>	<b>141</b>	<b>44.9%</b>	<b>173</b>	<b>192</b>	<b>61.1%</b>	<b>122</b>	<b>46</b>	<b>14.6%</b>	<b>268</b>	<b>314</b>

**Table 2.21 Birth Order and Undernutrition In the South**

Birth order	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Youngest	97	45.5%	116	114	53.5%	99	40	18.8%	173	213
2nd youngest	42	42.4%	57	76	77.2%	23	5	5.9%	94	99
(2nd y.twins)	2	100%	0	2	100%	0	1	50.0%	1	2
<b>Total</b>	<b>141</b>	<b>44.9%</b>	<b>173</b>	<b>192</b>	<b>61.1%</b>	<b>122</b>	<b>46</b>	<b>14.6%</b>	<b>268</b>	<b>314</b>

**Table 2.22 Number of Died Children and Undernutrition In the South**

Died children	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
0	84	46.9%	95	106	59.2%	73	30	16.8%	149	179
1	32	45.1%	39	43	60.6%	28	8	11.3%	63	71
2	18	46.2%	21	25	64.1%	14	5	12.8%	34	39
3+	7	28.0%	18	18	72.0%	7	3	12.0%	22	25
<b>Total</b>	<b>141</b>	<b>44.9%</b>	<b>173</b>	<b>192</b>	<b>61.1%</b>	<b>122</b>	<b>46</b>	<b>14.6%</b>	<b>268</b>	<b>314</b>

**Table 2.23 Household Head and Undernutrition In the South**

Head	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Mother	16	53.3%	14	17	56.7%	13	5	16.7%	25	30
Other female	7	50.0%	7	9	64.3%	5	2	14.3%	12	14
Male	118	43.7%	152	166	61.5%	104	39	14.4%	231	270
<b>Total</b>	<b>141</b>	<b>44.9%</b>	<b>173</b>	<b>192</b>	<b>61.1%</b>	<b>122</b>	<b>46</b>	<b>14.6%</b>	<b>268</b>	<b>314</b>

**Table 2.24 HHSES and Undernutrition In the South**

HHSES	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
High	30	32.6%	62	49	53.3%	43	12	13.0%	80	92
Medium	44	40.7%	64	64	59.3%	44	14	13.0%	94	108
Low	67	58.8%	47	79	69.3%	35	20	17.5%	94	114
<b>Total</b>	<b>141</b>	<b>44.9%</b>	<b>173</b>	<b>192</b>	<b>61.1%</b>	<b>122</b>	<b>46</b>	<b>14.6%</b>	<b>268</b>	<b>314</b>

Table 2.25 RelHHSES and Undernutrition in the South

RelHHSES	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
High	36	30.8%	81	61	52.1%	56	17	14.5%	100	117
Medium	43	46.7%	49	59	64.1%	33	12	13.0%	80	92
Low	62	59.0%	43	72	68.6%	33	17	16.2%	88	105
Total	141	44.9%	173	192	61.1%	122	46	14.6%	268	314

Table 2.26 PERCPSES and Undernutrition in the South

PERCPSES	Low Weight		WNL	Stunted		WNL	Wasted		WNL	Total
High	36	38.3%	58	50	53.2%	44	12	12.8%	82	94
Medium	49	42.6%	66	74	64.3%	41	18	15.7%	97	115
Low	56	53.8%	48	67	64.4%	37	16	15.4%	88	104
Blank	0	0.0%	1	1	100.0%	0	0	0.0%	1	1
Total	141	44.9%	173	192	61.1%	122	46	14.6%	268	314

Table 2.27 RelPERCPSES and Undernutrition in the South

Rel- PERCPSES	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
High	40	36.0%	71	64	57.7%	47	13	11.7%	98	111
Medium	46	45.5%	55	62	61.4%	39	18	17.8%	83	101
Low	55	54.5%	46	65	64.4%	36	15	14.9%	86	101
Blank	0	0.0%	1	1	100%	0	0	0.0%	1	1
Total	141	44.9%	173	192	61.1%	122	46	14.6%	268	314

Table 2.28 Duration of Exclusive BF and Undernutrition in the South

Exclusive BF	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
0-3M	32	52.5%	29	42	68.9%	19	12	19.7%	49	61
4-5M	65	45.8%	77	88	62.0%	54	19	13.4%	123	142
6M+	43	39.4%	66	61	56.0%	48	15	13.8%	94	109
?	0	0.0%	1	0	0.0%	1	0	0.0%	1	1
Continuing	1	100%	0	1	100%	0	0	0.0%	1	1
Total	141	44.9%	173	192	61.1%	122	46	14.6%	268	314

Table 2.29 Duration of BF and Undernutrition in the South

Quit of BF	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
<11M	1	33.3%	2	1	33.3%	2	0	0.0%	3	3
12-23M	25	45.5%	30	36	65.5%	19	8	14.5%	47	55
24M+	50	41.7%	70	87	72.5%	33	5	4.2%	115	120
?	0	0.0%	2	1	50.0%	1	0	0.0%	2	2
Not yet	65	48.5%	69	67	50.0%	67	33	24.6%	101	134
Total	141	44.9%	173	192	61.1%	122	46	14.6%	268	314

Table 2.30 Frequency of Meals and Undernutrition in the South

Meals	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Nil or once	16	57.1%	12	17	60.7%	11	4	14.3%	24	28
Twice	27	40.9%	39	42	63.6%	24	11	16.7%	55	66
3 times	90	46.4%	104	118	60.8%	76	26	13.4%	168	194
>4 times	8	30.8%	18	15	57.7%	11	5	19.2%	21	26
Total	141	44.9%	173	192	61.1%	122	46	14.6%	268	314

Table 2.31 Frequency of Eating Eggs and Undernutrition in the South

Eggs	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
Never	58	50.9%	56	66	57.9%	48	20	17.5%	94	114
once/M or less	58	43.0%	77	90	66.7%	45	17	12.6%	118	135
once-twice/W	19	38.8%	30	29	59.2%	20	7	14.3%	42	49
3-6 times/W	6	46.2%	7	7	53.8%	6	1	7.7%	12	13
once/D	0	0.0%	3	0	0.0%	3	1	33.3%	2	3
>once/D										0
Total	141	44.9%	173	192	61.1%	122	46	14.6%	268	314

Table 2.32 PFI Score and Undernutrition in the South

Children aged 12-59 m.o. in the three southern districts										
PFI Score	Underweight		WNL	Stunted		WNL	Waste d		WNL	Total
0-4	16	69.6%	7	16	69.6%	7	4	17.4%	19	23
5-9	82	49.1%	85	116	69.5%	51	26	15.6%	141	167
10+	33	36.7%	57	51	56.7%	39	10	11.1%	80	90
Total	131	46.8%	149	183	65.4%	97	40	14.3%	240	280

Table 2.33 Frequency of Fever and Undernutrition in the South

Fever	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
3	24	57.1%	18	24	57.1%	18	15	35.7%	27	42
2	30	52.6%	27	43	75.4%	14	5	8.8%	52	57
1	49	37.7%	81	71	54.6%	59	16	12.3%	114	130
0	38	44.7%	47	54	63.5%	31	10	11.8%	75	85
Total	141	44.9%	173	192	61.1%	122	46	14.6%	268	314

Table 2.34 Frequency of Diarrhoea and Undernutrition in the South

Diarrhoea	Underweight		WNL	Stunted		WNL	Wasted		WNL	Total
3	22	73.3%	8	21	70.0%	9	9	30.0%	21	30
2	10	47.6%	11	13	61.9%	8	4	19.0%	17	21
1	25	45.5%	30	32	58.2%	23	9	16.4%	46	55
0	84	40.4%	124	126	60.6%	82	24	11.5%	184	208
Total	141	44.9%	173	192	61.1%	122	46	14.6%	268	314

**Table 2.35 Food Availability at Mzimba Market**

COMMODITY	AVAILABILITY			
	HIGH	MEDIUM	LOW	NIL
Cereals	√			
Starchy roots	√			
Sugar Crops				√
Pulses (beans)	√			
Nuts		√		
Fruits			√	
Meat	√			
Fish	√			
Eggs			√	
Vegetables			√	
Others (Ngumbi)				√

**Table 2.36 Food Availability at Nkhata Bay Market**

COMMODITY	AVAILABILITY			
	HIGH	MEDIUM	LOW	NIL
Cereals	√			
Starchy roots	√			
Sugar Crops			√	
Pulses (beans)		√		
Nuts		√		
Fruits			√	
Meat		√		
Fish	√			
Eggs			√	
Vegetables		√		
Others (Ngumbi)				√



Table 2.37 Food Availability at Zomba Market

COMMODITY	AVAILABILITY			
	HIGH	MEDIUM	LOW	NIL
Cereals	√			
Starchy roots	√			
Sugar Crops			√	
Pulses (beans)	√			
Nuts			√	
Fruits	√			
Meat	√			
Fish	√			
Eggs		√		
Vegetables	√			
Others (Ngumbi)			√	

Table 2.38 Food Availability at Limbe Market

COMMODITY	AVAILABILITY			
	HIGH	MEDIUM	LOW	NIL
Cereals	√			
Starchy roots	√			
Sugar Crops			√	
Pulses (beans)	√			
Nuts		√		
Fruits	√			
Meat	√			
Fish	√			
Eggs	√			
Vegetables	√			
Others			√	

Table 2.39 Summary of the Visited Nutrition Projects

Type of Project	Communal Gardening Project		Communal Goat Herding Project	Horticultural Project
Visited site (District)	Kajawo (Chikwawa)	Puli (Blantyre)	Gola (Chikwawa)	Lobl (Dedza)
Time of beginning	Dec. '98	Dec. '98	1997	1990
Objectives	Children's nutrition		Children's nutrition	IGA
Main activity	Production of maize/soy		Milk production	Vegetable growing Selling the harvest
Other activities	(Community-based feeding)			
Planner	MOHP Village head		Villagers	MOA
Actors	VHC Villagers		Villagers	Women's group
Women's participation	Yes	Yes	?	Yes
Supervisors	MCH coordinator/D.O.			JOCVs
Donor's contribution	Seeds, fertilizer technical support		(-)	Technical support
Problems	Distribution of harvest Financial management			
Dynamism	Top-down	Top-down	Bottom-up	Bottom-up
Sustainability	+ or -	+ or -	+	++

Type of Project	Nutritional Gardening	Sanplat Project	Community-based Childhood Care	
Visited site (District)	Chapita (Chikawawa)		Chiyekwete (Kasungu)	Sonda Lungu (Mzimba)
Time of beginning	1996	1998	1994	July '98
Objectives	General nutrition	Hygiene	Managing diseases	Multipurpose
Main activity	Growing soy beans	Making sanplats	IMCI	Community-based nursing
Other activities	Cooking of soy	Building latrines		IGA
Planner	RDP /MOA	PROSCAP /MOA	MCH Coordinator UNICEF	UNICEF
Actors	Villagers' group	Villagers' group	VHC	Villagers VHC
Women's participation	Yes	Yes	Yes	Yes
Supervisors	FA/HSA	HSA	MCH Coordinator	UNICEF staff
Donor's contribution	Seeds Technical support	Cement Wire	Training cost	Technical support
Problems			Lack of drugs	Foods
Dynamism	Top-down	Top-down	Bottom-up	Mixed
Sustainability	++	+ or -	+	+

**Table 2.40 Place of Antenatal Care**  
(multiple answers)

Place	Northern Region		Southern Region	
	No.	%	No.	%
Not attend	3	0.6	3	0.6
Untrained TBA	0	0.0	0	0.0
Trained TBA	13	2.6	14	2.8
Outreach clinic	12	2.4	40	8.0
Private clinic	7	1.4	7	1.4
MOHP HC	270	54.0	217	43.4
Non-govt. HC	102	20.4	92	18.4
District hospital	48	9.6	27	5.4
Central hospital	4	0.8	77	15.4
Private hospital	43	8.6	30	6.0
Other	18	3.6	6	1.2
Don't know	0	0.0	0	0.0
Total	520	104.0	513	102.6

MOHP: Ministry of Health and Population, HC: Health Centre  
govt.: government

**Table 2.41 Summary of Place of Antenatal Care**  
(multiple answers)

Place	Northern Region		Southern Region	
	No.	%	No.	%
Not attend	3	0.6	3	0.6
Trained TBA	13	2.6	14	2.8
Outreach clinic	12	2.4	40	8.0
MOHP health facility	322	64.4	321	64.2
Non-govt. health facility	152	30.4	129	25.8
Other health facility	18	3.6	6	1.2
Total	520	104.0	513	102.6

**Table 2.42 Antenatal Care Provider**  
(multiple answers)

Care Provider	Northern Region		Southern Region	
	No.	%	No.	%
Untrained TBA	0	0.0	0	0.0
Trained TBA	11	2.2	18	3.6
Ward attendant	7	1.4	3	0.6
Nurse/midwife	470	94.0	482	96.4
CO/doctor	13	2.6	10	2.0
Other health personnel	9	1.8	1	0.2
Other	2	0.4	0	0.0
Don't know	1	0.2	0	0.0
NA	4	0.8	2	0.4
Total	517	103.4	516	103.2

**Table 2.43 Access Time to the Antenatal Clinic**  
(multiple answers)

Time	Northern Region		Southern Region	
	No.	%	No.	%
<15 min	27	5.4	56	11.2
15-30 min	63	12.6	123	24.6
30-60 min	136	27.2	105	21
1-2 hr	171	34.2	158	31.6
>2 hrs	119	23.8	66	13.2
NA	4	0.8	3	0.6
Total	520	104.0	511	102.2

**Table 2.44 Access Time by the Place of Antenatal Care: Northern Region**  
(multiple answers)

Place	Access time to the antenatal clinic (%)						Total %	Total No.
	<15 min	15-30 min	30-60 min	1-2 hr	>2hrs	NA		
Trained TBA	61.5		23.1	7.7	7.7		100.0	13
Outreach clinic	33.3	50.0	16.7				100.0	12
Private clinic	14.3	14.3	42.9	14.3	14.3		100.0	7
MOHP HC	3.0	13.3	24.8	37.0	21.5	0.4	100.0	270
Non-govt. HC	2.9	9.8	21.6	29.4	36.3		100.0	102
District hospital		6.3	31.3	39.6	22.9		100.0	48
Central hospital		75.0	25.0				100.0	4
Private hospital	2.3	7.0	37.2	34.9	18.6		100.0	43
Other	11.1	5.6	38.9	27.8	16.7		100.0	18
Total	27	63	136	171	119	1		517

**Table 2.45 Access Time by the Place of Antenatal Care: Southern Region**  
(multiple answers)

Place	Access time to the antenatal clinic (%)						Total %	Total No.
	<15 min	15-30 min	30-60 min	1-2 hr	>2hrs	NA		
Trained TBA	28.6	42.9	28.6				100.0	14
Outreach clinic	37.5	47.5	10.0	2.5	2.5		100.0	40
Private clinic		14.3		85.7			100.0	7
MOHP HC	7.8	21.2	18.9	35.0	16.6	0.5	100.0	217
Non-govt. HC	14.1	25.0	18.5	29.3	13.0		100.0	92
MOHP hospital*	3.8	22.1	34.6	31.7	7.7		100.0	104
Private hospital	6.7	6.7	10.0	50.0	26.7		100.0	30
Other	16.7	50.0			16.7	16.7	100.0	6
Total	56	123	105	158	66	2		510

\* In the case of southern region we didn't separate district hospitals and central hospitals, as there are no district hospitals in Blantyre and Zomba districts.

**Table 2.46 Reason for Choosing Antenatal Clinic**  
(multiple answers)

Reason	Northern region		Southern region	
	No.	%	No.	%
Easy to access	325	65.0	381	76.2
Good advice	172	34.4	125	25.0
Quality of care	45	9.0	24	4.8
Vaccination	39	7.8	34	6.8
Free of charge	32	6.4	40	8.0
Someone's recommendation	23	4.6	12	2.4
Due to problems	13	2.6	4	0.8
Availability of drugs	7	1.4	1	0.2
Referred	5	1.0	1	0.2
Good staff attitude	3	0.6	6	1.2
Short waiting time	1	0.2	4	0.8
Other	48	9.6	22	4.4
Don't know	5	1.0	1	0.2
NA	4	0.8	2	0.4
<b>Total</b>	<b>722</b>	<b>144.4</b>	<b>657</b>	<b>131.4</b>

**Table 2.47 Place of Last Delivery**

Place of Delivery	Northern Region		Southern Region	
	No.	%	No.	%
Home	69	13.8	76	15.2
Relative/friend's house	3	0.6	1	0.2
TBA's house	44	8.8	74	14.8
MOHP HC	150	30.0	96	19.2
Private clinic	4	0.8	5	1.0
Non-govt. HC	50	10	67	13.4
District hospital	77	15.4	41	8.2
Central hospital	4	0.8	98	19.6
Private hospital	73	14.6	29	5.8
Other	26	5.2	12	2.4
NA	0	0.0	1	0.2
<b>Total</b>	<b>500</b>	<b>100.0</b>	<b>500</b>	<b>100.0</b>

**Table 2.48 Summary of Place of Last Delivery**

Place	Northern Region		Southern Region	
	No.	%	No.	%
At home	72	14.4	77	15.4
TBA's house	44	8.8	74	14.8
MOHP health facility	231	46.2	235	47.0
Non-govt health facility	127	25.4	101	20.2
Other health facility	10	2.0	0	0.0
On the way to health facility	12	2.4	9	1.8
Other	4	0.8	3	0.6
NA	0	0.0	1	0.2
Total	500	100.0	500	100.0

\*At home included their own/relative's/friend's house

**Table 2.49 Place of Delivery by Characteristics of Mother and Household: Northern Region**

	(Percentage distribution)					Total No. of (%) Births	
	At home	TBA's house	MOHP health facility	Non-govt. health facility	other		
<b>Mother's age at the time of last delivery</b>							
<20	6.7	12.5	51.0	26.9	2.9	100.0	104
20-34	14.4	8.2	48.5	24.3	4.6	100.0	305
35+	14.6	8.3	27.1	41.7	8.3	100.0	48
Unknown	32.6	4.7	39.5	11.6	11.6	100.0	43
<b>Mother's education</b>							
Never attended	31.7	6.3	31.7	23.8	6.3	100.0	63
Primary 1-4	11.0	9.6	50.7	21.9	6.8	100.0	73
Primary 5-8	13.6	10.0	46.6	25.6	4.2	100.0	309
Secondary	3.6	3.6	54.5	30.9	7.3	100.0	55
<b>No. of children alive</b>							
1	8.6	9.4	50.0	28.9	3.1	100.0	128
2 or 3	12.2	7.7	50.8	22.7	6.6	100.0	181
4 or 5	23.8	9.8	39.3	23.0	4.1	100.0	122
6+	14.5	8.7	39.1	30.4	7.2	100.0	69
<b>Household SES</b>							
High	14.4	9.4	46.0	24.8	5.4	100.0	202
Medium	15.3	5.7	43.3	28.7	7.0	100.0	157
Low	13.5	11.3	49.6	22.7	2.8	100.0	141
<b>PerCap.SES</b>							
High	14.5	8.6	46.8	22.0	8.1	100.0	186
Medium	16.0	9.0	43.6	27.6	3.8	100.0	156
Low	12.8	9.0	48.1	26.9	3.2	100.0	156
NA	0.0	0.0	50.0	50.0	0.0	100.0	2
All births	72	44	231	127	26		500

SES: Socioeconomic status

PerCap: Per Capita

Table 2.50 Place of Delivery by Characteristics of Mothers and Households: Southern Region

	(Percentage distribution)							Total No. of Births
	At home	TBA's house	MOHP health facility	Non-govt. health facility	Other	NA		
<b>Mother's age at the time of delivery</b>								
<20	11.9	19.8	39.6	26.7	2.0	0.0	100.0	101
20-34	14.0	14.0	50.7	19.1	1.8	0.4	100.0	278
35+	0.0	8.0	60.0	28.0	4.0	0.0	100.0	25
Unknown	27.1	13.5	40.6	14.6	4.2	0.0	100.0	96
<b>Mother's education</b>								
Never attended	22.4	20.0	43.2	13.6	0.8	0.0	100.0	125
Primary 1-4	14.2	19.8	40.1	21.0	4.3	0.6	100.0	162
Primary 5-8	12.8	8.4	53.6	22.9	2.2	0.0	100.0	179
Secondary	8.8	5.9	58.8	26.5	0.0	0.0	100.0	34
<b>No. of children alive</b>								
0	0.0	0.0	100.0	0.0	0.0	0.0	100.0	1
1	5.5	15.5	46.4	30.9	1.8	0.0	100.0	110
2 or 3	20.2	15.7	45.3	16.1	2.7	0.0	100.0	223
4 or 5	18.3	16.3	45.2	17.3	1.9	1.0	100.0	104
6+	11.3	8.1	56.5	21.0	3.2	0.0	100.0	62
<b>Household SES</b>								
High	16.9	18.5	43.1	19.2	2.3	0.0	100.0	130
Medium	11.9	14.1	49.2	23.2	1.7	0.0	100.0	177
Low	17.7	12.5	47.9	18.2	3.1	0.5	100.0	192
NA	0.0	100.0	0.0	0.0	0.0	0.0	100.0	1
<b>PerCap.SES</b>								
High	13.8	19.3	44.8	19.3	2.8	0.0	100.0	145
Medium	16.9	15.2	45.5	20.2	2.2	0.0	100.0	178
Low	14.9	10.9	50.9	20.6	2.3	0.6	100.0	175
NA	50.0	0.0	0.0	50.0	0.0	0.0	100.0	2
All births	77	74	235	101	12	1	100	500

SES: Socioeconomic status

PerCap: Per Capita

**Table 2.51 Place of Antenatal Care / Place of Delivery: Northern region**

Place of ANC	Place of delivery							Total
	At home	TBA's	MOHP HC	Non-govt HC & clinic	MOHP hospital	Private hospital	Other	
Not attend	2 (66.7)					1 (33.3)		3 (100.0)
Trained TBA		11 (84.6)	1 (7.7)				1 (7.7)	13 (100.0)
Outreach	1 (8.3)		5 (41.7)		2 (16.7)	3 (25.0)	1 (8.3)	12 (100.0)
MOHP HC	44 (16.8)	21 (8.0)	131 (50.0)	4 (1.5)	35 (13.4)	19 (7.3)	8 (3.1)	262 (100.0)
Non-govt HC & clinic	15 (14.3)	6 (5.7)	11 (10.5)	49 (46.7)	9 (8.6)	11 (10.5)	4 (3.8)	105 (100.0)
MOHP hospital	6 (12.5)	5 (10.4)	1 (2.1)		33 (68.8)		3 (6.3)	48 (100.0)
Private hospital						39 (95.1)	2 (4.9)	41 (100.0)
Other	4 (25.0)	1 (6.3)	1 (6.3)	1 (6.3)	2 (12.5)		7 (43.8)	16 (100.0)
<b>Total</b>	<b>72</b>	<b>44</b>	<b>150</b>	<b>54</b>	<b>81</b>	<b>73</b>	<b>26</b>	<b>500</b>

**Table 2.52 Place of Antenatal Care/ Place of Delivery: Southern Region**

Place of ANC	Place of delivery							Total
	At home	TBA's house	MOHP HC	Non-govt. HC and clinic	MOHP hospital	Private hospital	Other	
Not attend	2 (66.7)	1 (33.3)						3 (100.0)
Trained TBA	1 (7.1)	12 (85.7)					1 (7.1)	14 (100.0)
Outreach clinic	4 (11.4)	14 (40.0)	8 (22.9)	1 (2.9)	7 (20.0)	1 (2.9)		35 (100.0)
MOHP HC	44 (20.5)	29 (13.5)	86 (40.0)	5 (2.3)	34 (15.8)	8 (3.7)	9 (4.2)	215 (100.0)
Non-govt. HC & clinic	7 (7.1)	9 (9.2)		66 (67.3)	11 (11.2)	3 (3.1)	2 (2.0)	98 (100.0)
MOHP hospital	16 (15.7)	2 (2.0)			83 (81.4)	1 (1.0)		102 (100.0)
Private hospital	2 (6.9)	6 (20.7)	2 (6.9)		3 (10.3)	16 (55.2)		29 (100.0)
Other	1 (20.0)	1 (20.0)			1 (20.0)		1 (20.0)	4 (100.0)
<b>Total</b>	<b>77</b>	<b>74</b>	<b>96</b>	<b>72</b>	<b>139</b>	<b>29</b>	<b>13</b>	<b>500</b>



Table 2.53 Means of Transportation to the Delivery Place

Place of Delivery	Northern Region		Southern Region	
	No.	%	No.	%
On foot	271	54.2	285	57.0
Bus	59	11.8	61	12.2
Matola	41	8.2	21	4.2
Ambulance	22	4.4	17	3.4
Bicycle	9	1.8	24	4.8
Other	19	3.8	12	2.4
Oxcart	7	1.4	0	0.0
Own car	1	0.2	3	0.6
NA	70	14.0	77	15.4
Unknown	1	0.2	0	0.0
Total	500	100	500	100

Table 2.54 Means of Transportation by the Place of Delivery: Northern Region

Place of delivery	Means of transportation (%)									Total (%)	Total No.
	On foot	Bus	Matola	Ambulance	Bicycle	Oxcart	Other	NA			
Home	4.2							95.8	100.0	72	
TBA's house	90.9	2.3	2.3		2.3		2.3		100.0	44	
MOHP health facility	57.1	17.7	8.7	7.8	2.2	2.6	3.9		100.0	231	
Non-govt health facility	58.3	11.8	15	3.9	2.4	0.8	7.9		100.0	127	
Other	84.6	7.7	3.8					3.8	100.0	26	
Total No.	271	59	41	23	9	7	20	70		500	

Table 2.55 Means of Transportation by the Place of Delivery: Southern Region

Place of delivery	Means of transportation (%)									Total (%)	Total No.
	On foot	Bus	Bicycle	Matola	Ambulance	Other	Own car	NA			
Home	2.6							97.4	100.0	77	
TBA's house	54.7	42.2	2.3		0.8				100.0	128	
MOHP Health facility	70.7	3.7	6.4	5.9	8.5	3.7	1.1		100.0	188	
Non-govt Health facility	74.5		9.6	9.6		5.3	1.1		100.0	94	
Other	83.3			8.3				8.3	100.0	12	
NA								100	100.0	1	
Total No.	285	61	24	21	17	12	3	77		500	

**Table 2.56 Time to the Delivery Place**

Time	Northern Region		Southern Region	
	No.	%	No.	%
<15 min	58	11.6	52	10.4
15-30 min	67	13.4	108	21.6
30-60 min	103	20.6	117	23.4
1-2 hr	106	21.2	82	16.4
>2 hrs	96	19.2	63	12.6
NA	70	14	77	15.4
Unknown	0	0	1	0.2
Total	500	100	500	100

**Table 2.57 Access Time by the Place of Delivery: Northern Region**

Delivery place	Access time (%)						Total	Total No.
	<15 min	15-30 min	30-60 min	1-2 hr	>2 hrs	NA		
Home	2.8	1.4				95.8	100.0	72
TBA's house	36.4	29.5	27.3		6.8		100.0	44
MOHP health facility	8.7	12.6	25.5	32.5	20.8		100.0	231
Non-govern. Health facility	10.2	15	18.9	22.8	33.1		100.0	127
Other	26.9	19.2	30.8	7.7	11.5	3.8	100.0	26
Total	58	67	103	106	96	70		500

**Table 2.58 Access Time by the Place of Delivery: Southern Region**

Delivery place	Access time (%)						Total	Total No.
	<15 min	15-30 min	30-60 min	1-2 hr	>2 hrs	NA		
Home		1.3	1.3			97.4	100.0	77
TBA's house	24.3	43.2	23.0	2.7	6.8		100.0	74
MOHP health facility	8.1	21.3	28.1	25.1	17.0	0.4	100.0	235
Non-govern. Health facility	12.9	20.8	30.7	17.8	17.8		100.0	101
Other	16.7	33.3	16.7	25.0		8.3	100.0	12
NA						100.0	100.0	1
Total No.	52	108	117	82	63	78		500

Table 2.59 Reasons for Choosing the Delivery Place

(multiple answers)

	Northern region		Southern region	
	No.	%	No.	%
Easy to access	221	44.2	276	55.2
Referred from antenatal clinic	99	19.8	94	18.8
Good reputations	64	12.8	30	6.0
Quality of care (availability of trained personnel/big hospital)	51	10.2	39	7.8
Free of charge	33	6.6	26	5.2
Precipitate labour	22	4.4	22	4.4
Difficult access to the intended place	12	2.4	24	4.8
Other's recommendation	27	5.4	4	0.8
It was too late to leave for the place	21	4.2	10	2.0
Comfortable to stay	20	4.0	11	2.2
Complications	23	4.6	7	1.4
Fast labour/sudden labour	9	1.8	15	3.0
Attended ANC there	8	1.6	6	1.2
Labour started on the way to the intended place	6	1.2	5	1.0
Near family member	6	1.2	1	0.2
Other	43	8.6	34	6.8
Don't know	7	1.4	3	0.6
Total	672	134.4	607	121.4

Table 2.60 Reasons for Choosing to Deliver at Home, Friend's/Relative's House and TBA's House

(multiple answers)

	Northern region		Southern region	
	No.	%*	No.	%**
Easy to access	49	42.2	117	77.5
It was a precipitate labour	18	15.5	19	12.6
Long distance/difficult access to health facilities	9	7.8	20	13.2
It was too late to leave for the place	20	17.2	8	5.3
It was a fast/sudden labour	8	6.9	13	8.6
Comfortable to stay	3	2.6	4	2.6
Other's recommendation	6	5.2	1	0.7
Other	25	21.6	30	19.9
Total	138	119.0	212	140.4

\*% among 116 deliveries carried out at home/friend's/relative's house

\*\*% among 151 deliveries carried out at home/friend's/relative's house

**Table 2.61 Reasons for Choosing the Delivery Place Separated by the Delivery Place:  
Northern Region** (multiple answers)

Delivery place	Reasons for choosing (%)							Total (%)	Total No.
	Easy to access	Referred from antenatal clinic	Good reputation	Quality of care	Free of charge	Other			
Home				1.4	1.4	97.3	100.0	74	
TBA's house	50.8	1.6	9.5		3.2	34.9	100.0	63	
MOHP health facility	36.4	18.4	8.1	10.9	9	17.1	100.0	321	
Non-govt Health facility	32.2	18.6	17.5	8.2	0.5	23	100.0	183	
Other	43.8	15.6				40.6	100.0	32	
Total	222	99	64	51	33	204		673	

**Table 2.62 Reasons for Choosing the Delivery Place Separated by the Delivery Place:  
Southern Region** (multiple answers)

Delivery place	Reasons for choosing (%)						Total (%)	Total No.
	Easy to access	Referred from antenatal clinic	Quality of care	Free of charge	Good reputation	Other		
Home	8.8					91.3	100.0	80
TBA's house	63.4	2.2	1.1	1.1	6.5	25.8	100.0	93
MOHP health facility	50.7	22.6	5.8	8.2	3.8	26	117.1	292
Non-govt health facility	44.5	20.3	14.8	0.8	10.2	9.4	100.0	128
Other	38.5					61.5	100.0	13
NA						100	100.0	1
Total	276	94	37	26	30	144		607

**Table 2.63 Whether or not the Respondents Obeyed the Advice from the Antenatal Clinic Service on Choosing the Delivery Place**

Obey the Advice	Northern region		Southern region	
	No.	%	No.	%
Yes	410	82.0	383	76.6
No	81	16.2	104	20.8
Don't know	2	0.4	0	0.0
NA	7	1.4	13	2.6
Total	500	100.0	500	100.0

**Table 2.64 Whether or not the Respondents Obeyed the Advice from the Antenatal Clinic by the Place of Delivery: Northern Region**

Delivery Place	Obey the advice (%)				Total %	Total No.
	Yes	No	Don't know	NA		
Home	14.5	78.3		7.2	100.0	69
Relative's house	33.3	66.7			100.0	3
TBA's house	50.0	47.7		2.3	100.0	44
MOHP HC	99.3		0.7		100.0	150
Private clinic	100.0				100.0	4
Non-govt. HC	100.0				100.0	50
District hospital	98.7			1.3	100.0	77
Central hospital	100.0				100.0	4
Private hospital	98.6	1.4			100.0	73
Other	84.6	11.5	3.8		100.0	26
Total	410	81	2	7		500

**Table 2.65 Whether or not the Respondents Obeyed the Advice from the Antenatal Clinic by the Place of Delivery: Southern Region**

Delivery Place	Obeyed the advice			Total %	Total
	Yes	No	NA		
Home	5.3	88.2	6.6	100.0	76
Relative's house		100.0		100.0	1
TBA's house	54.1	39.2	6.8	100.0	74
MOHP HC	100.0			100.0	96
Private clinic	100.0			100.0	5
Non-govt. HC	97.0	1.5	1.5	100.0	67
District hospital	100.0			100.0	41
Central hospital	99.0		1.0	100.0	98
Private hospital	100.0			100.0	29
Other	46.2	46.2	7.7	100.0	13
Total	383	104	13		500

**Table 2.66 Whether or not the Respondents Obeyed the Advice from the Antenatal Clinic by the Place of Antenatal Care: Northern Region**

Place of ANC	Obey the advice (%)					Total No.
	Yes	No	Don't know	NA	Total (%)	
Not attended		33.3		66.7	100.0	3
Untrained TBA					0.0	0
Trained TBA	84.6	7.7	7.7		100.0	13
Outreach clinic	100.0				100.0	12
Private clinic	100.0				100.0	7
Government HC	80.0	18.5	0.4	1.1	100.0	270
Non-govt HC	82.4	16.7		1.0	100.0	102
District hospital	77.1	22.9			100.0	48
Central hospital	100.0				100.0	4
Private hospital	100.0				100.0	43
Other	68.8	25.0		6.3	100.0	16
Total	425	84	2	7		518

**Table 2.67 Whether or not the Respondents Obeyed the Advice from the Antenatal Clinic by the Place of Antenatal Care: Southern Region**

Place of ANC	Obey the advice				Total
	Yes	No	NA	Total	
Not attended			100.0	100.0	3
Untrained TBA				0.0	0
Trained TBA	57.1	35.7	7.1	100.0	14
Outreach clinic	67.5	30.0	2.5	100.0	40
Private clinic	85.7	14.3		100.0	7
Government HC	72.8	24.9	2.3	100.0	217
Non-govt HC	85.9	13.0	1.1	100.0	92
District hospital	92.6	7.4		100.0	27
Central hospital	79.2	19.5	1.3	100.0	77
Private hospital	76.7	20.0	3.3	100.0	30
Other	33.3	50.0	16.7	100.0	6
Total	389	110	14		513

**Table 2.68 Reasons for not Obeying the Advice from the Antenatal Clinic on Choosing the Delivery Place**

Reason for not obeying the advice	Northern region		Southern region	
	No.	%	No.	%
Difficult access to the intended place	20	25.0	29	29.0
It was precipitate labour	17	21.3	27	27.0
It was too late to leave for the place	16	20.0	10	10.0
Didn't know the EDD	4	5.0	2	2.0
The labour was fast/sudden	3	3.8	2	2.0
Was not able to reach the place	2	2.5	11	11.0
Other	18	22.5	19	19.0
Total	80	100.0	100	29.0

EDD: Expected Date of Delivery

Table 2.69 Delivery Care Provider

Delivery care provider	Northern region		Southern region	
	No.	%	No.	%
Relative/friend/neighbor	41	8.2	57	11.4
Untrained TBA	11	2.2	6	1.2
Trained TBA	51	10.2	87	17.4
Ward attendant at health facility	9	1.8	11	2.2
Nurse/midwife	332	66.4	304	60.8
CO/doctor	25	5.0	21	4.2
Other health personnel	1	0.2		
Other	3	0.6		
Don't know	1	0.2		
None (self)	26	5.2	13	2.6
NA			1	0.2
	500	100.0	500	100.0

Table 2.70 Delivery Care Provider by the Place of Delivery: Northern Region

Place	Relative	Untrained TBA	Trained TBA	Ward attendant	Nurse midwife	CO/doctor	Other	None (self)	Total %	Total No.
Home	46.4	13.0	7.2					33.3	100.0	69
Relative house	33.3		66.7						100.0	3
TBA's house		2.3	97.7						100.0	44
MOHP HC				4.7	94.7			0.7	100.0	150
Private clinic					100.0				100.0	4
Non-govt. HC					98.0		2.0		100.0	50
District hospital				1.3	79.2	19.5			100.0	77
Central hospital					50.0	50.0			100.0	4
Private hospital				1.4	86.3	11.0	1.4		100.0	73
Other	38.5	3.8	3.8		42.3		3.8	7.7	100.0	26
Total No.	43	11	51	9	332	25	3	26		500