

MALAWI +

Public Lands Utilization Study

U.S. Agency for
International
Development

Final Report

by

Barron Orr, Barbara Eiswerth, Tim Finan, and Luke Malembo

March 1998

*University of Arizona
Office of Arid Lands Studies
and the
Forestry Research Institute of Malawi*

Government of the Republic of Malawi
Ministry of Lands, Housing, Physical Planning, and Surveys
Lands Steering Committee
Malawi Environmental Monitoring Programme

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Foreward

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Dedication

This report is dedicated to the memory of the

Miombo Cowboys,

Harry Banda

and

Tawana Chauluka.

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Chapter 2: Recommendations

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Chapter 4: Study Overview

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Chapter 5: Nature of the Resource

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Chapter 6: Pressure on the Resource

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Chapter 7: Community-Level Resource Utilization

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Chapter 8: Impact on the Resource

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Chapter 9: National Protected Area Analysis

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Chapter 10: Incorporating Results into Policy

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Abbreviations

ADB	Africa Development Bank
ADD	Agriculture Development Division
APRU	Agriculture Policy Research Unit of Bunda College
CBNRM	Community Based Natural Resource Management
CLUS	Customary Lands Utilization Study
COST	Cos(θ) cosine of the zenith angle atmospheric correction model
CSR	Center for Social Research
DNPW	Department of National Parks and Wildlife
EDC	Eros Data Center
EIS	Environmental Information System
ELUS	Estate Lands Utilization Study
EPA	Extension Planning Area
FAO	Food and Agriculture Organization
FRIM	Forestry Research Institute of Malawi
GCP	Ground Control Point
GIS	Geographic Information System
GOM	Government of Malawi
ha	hectare
itm	Improved Traditional Management
KFTCA	Kasungu Flue-Cured Tobacco Authority
LPRC	Land Policy Reform Commission
LREP	Land Resources Evaluation Project
MAI	Mean Annual Increment
MK	Malawi Kwacha
MSAVI	Modified Soil-Adjusted Vegetation Index
MSS	Multispectral Scanner
MYP	Malawi Young Pioneers.
NDVI	Normalized Difference Vegetation Index
NSO	National Statistics Office
NSSA	National Survey Sample of Agriculture
ODA	Overseas Development Administration
PAN	Mean Annual Rainfall
PLUS	Public Lands Utilization Study
SADCC	Southern African Development Co-ordination Conference
SAVI	Soil-Adjusted Vegetation Index
SLEMSA	Soil Loss Estimation Model for Southern Africa
SPSS	Statistical Package for the Social Sciences
TA	Traditional Authority
tm	Traditional Management
TM	Thematic Mapper
UNDP	United Nations Development Programme
UNFPA	United Nations Family Planning Association
USAID	U.S. Agency for International Development
UTM	Universal Transverse Mercator
WFP	World Food Programme

Map of Malawi's Protected Areas

Malawi's Protected Areas

Protected Area Name	Area (ha)	Date Protected	Date Gazetted	Protected Area Name	Area (ha)	Date Protected	Date Gazetted
<u>National Parks</u>				<u>Forest Reserves</u>			
Kasungu	228,147	1922	1930	Mangochi Palm	501	1977	1980
Lake Malawi	7,365	1980	1980	Masambanjati	93	1952	1974
Lengwe	100,198	1928	1928	Masenjere	276	1930	1930
Liwonde	54,633	1969	1972	Matandwe	31,053	1931	1931
Nyika	<u>320,078</u>	1952	1966	Matipa	1,055	1948	1948
	<i>710,421</i>			Mchinji	20,885	1924	1924
<u>Wildlife Reserves</u>				Michese	8,764	1929	1929
Majete	77,754	1951	1955	Michiru	3,004	1960	1970
Mwabvi	35,193	1951	1951	Mirare	59	1943	1949
Nkhotakota	178,568	1938	1938	Msitolengwe	98	1968	1974
Vwaza Marsh	<u>98,214</u>	1956	1956	Mtangatanga	8,099	1935	1935
	<i>389,730</i>			Mua-Livulezi	12,673	1924	1924
<u>Forest Reserves</u>				Mua-Tsanya	933	1924	1924
Amalika	370	1959	1974	Mudi	39	1922	1922
Bangwe	4,205	1930	1948	Mughesse	771	1948	1948
Bunda	426	1948	1948	Mulanje Mountain	47,550	1927	1927
Bunganya	3,447	1948	1973	Musisi	7,037	1948	1948
Chigumula	525	1925	1925	Mvai	4,140	1924	1924
Chimaliro	15,205	1926	1926	Nalikule	57	1948	1948
Chiradzulu	774	1924	1924	Namizimu	88,966	1924	1924
Chirobwe	1,314	1960		Ndirande	1,433	1922	1922
Chisasira	2,484	1935	1935	Ngara	2,272	1958	1958
Chongoni	12,353	1924	1924	Mkuwazi	1,608	1927	1927
Dedza Mountain	2,917	1926	1926	Nkopola	86		
Dedza-Salima	30,965	1972	1974	North Senga	1,207	1958	1958
Dowa Hills	3,142	1964	1974	Ntchisi	8,758	1924	1924
Dzalanyama	98,827	1911	1922	Perekezi	14,482	1933	1935
Dzenza	779	1940	1948	Phirilongwe	16,385	1924	1924
Dzonze	4,494	1924	1924	Ruvuo	4,781	1935	1935
Kalulu Hills	2,892	1958	1958	Sambani	149	1938	1948
Kalwe	159	1951	1956	Soche	388	1922	1922
Kaning'ina	14,007	1935	1935	South Senga	532	1958	1958
Kanjedza	159	1922	1922	South Viphya	156,102	1958	1958
Kongwe	1,948	1926	1926	Thambani	4,680	1927	1927
Kuwilwi	134	1934	1935	Thuchila	1,843	1925	1925
Litchenya	316	1948	1948	Thuma	15,767	1926	1926
Liwonde	27,407	1924	1924	Thyolo Mountain	1,347	1924	1924
Lunyangwa	374	1935	1935	Thyolomwani	965	1930	1930
Mafinga Hills	4,734	1976	1976	Tsamba	2,806	1927	1927
Malabvi	300	1927	1927	Uzumara	754	1948	1948
Mangochi	40,853	1924	1924	Vinthukutu	1,957	1948	1948
				Wilindi	937	1948	1948
				Zomba-Malosa	<u>19,018</u>	1913	1913
					<i>769,822</i>		
				<i>Grand Total Area: 1,869,974</i>			

Map of Malawi's Agricultural Schemes

Malawi's Agricultural Schemes