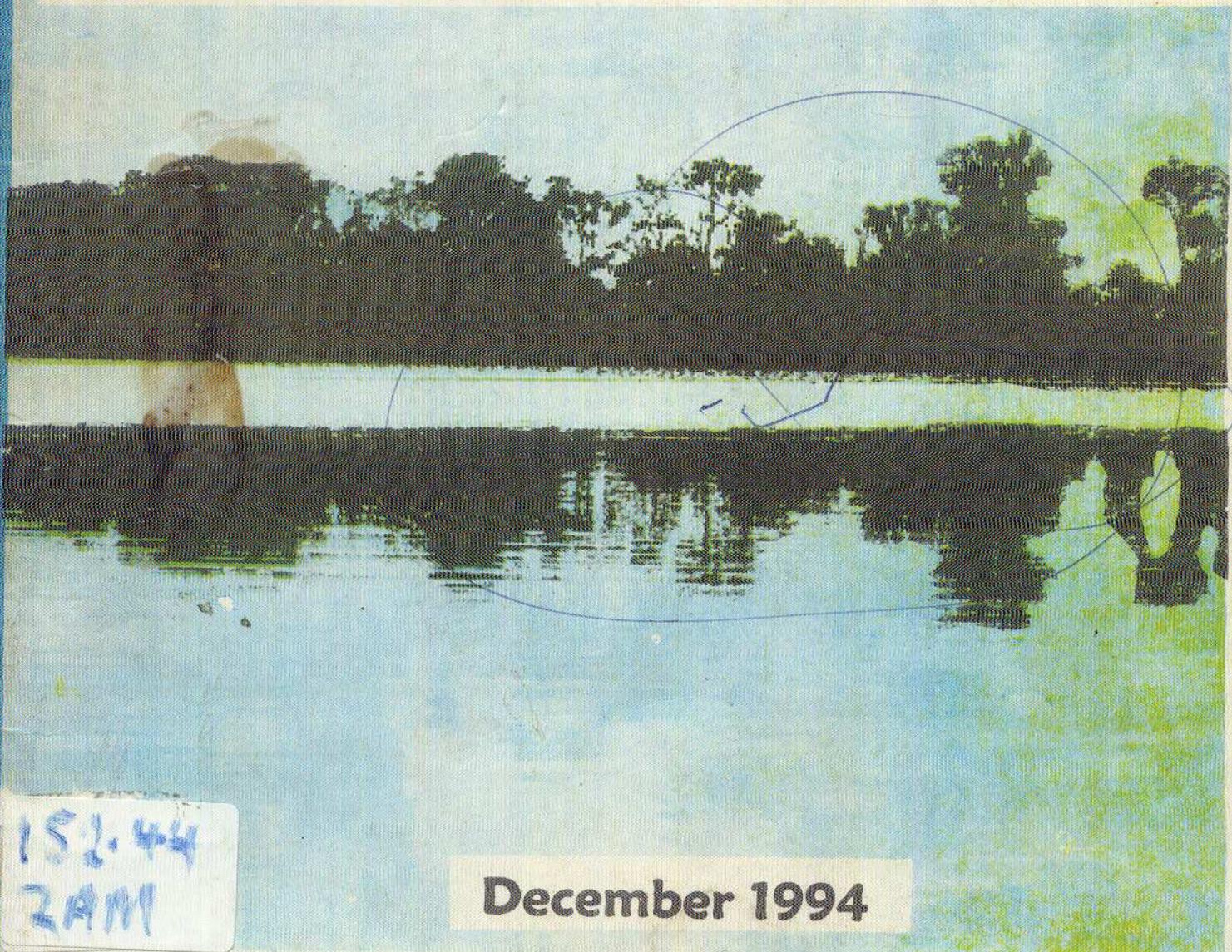




REPUBLIC OF ZAMBIA

MINISTRY OF ENVIRONMENT AND NATURAL RESOURCES

# THE NATIONAL ENVIRONMENTAL ACTION PLAN



152.44  
ZAM

December 1994

## TABLE OF CONTENTS

TABLE OF CONTENTS

LIST OF TABLES

DEFINITIONS

ACRONYMS

EXECUTIVE SUMMARY

### 1: THE NATIONAL ENVIRONMENTAL ACTION PLAN (NEAP)

1.1: Why the NEAP? .....	1
1.2: The NEAP Process .....	1
1.3: The NEAP .....	1

### 2: ZAMBIA

2.1: The Biophysical Environment.....	2
2.2: Human Population.....	2
2.3: The Economy .....	2
2.4: Property Rights.....	3
2.4.1 Land .....	3
2.4.2 Water.....	4
2.4.3 Trees and Wildlife.....	4

### 3: INSTITUTIONS AND ENVIRONMENTAL LEGISLATION

3.1: Recommended Actions .....	4
3.1.1 Implementation Strategy .....	5
3.2: Review of Institutions and Legal Reforms .....	6
3.2.1 Ministry of Agriculture, Food and Fisheries .....	6
3.2.2 Ministry of Environment and Natural Resources .....	7
3.2.3 The Ministry of Energy and Water Development .....	8
3.2.4 Ministry of Tourism .....	9
3.2.5 Ministry of Mines and Mineral Development .....	10
3.2.6 Ministry of Lands.....	10
3.2.7 Ministry of Home Affairs .....	10
3.2.8 Ministry of Local Government and Housing .....	11

### 4: ECONOMIC DEVELOPMENT AND THE ENVIRONMENT

4.1: Recommended Actions .....	11
4.1.1 Implementation Strategy .....	13
4.2: Review of Economic Policies and the Environment .....	14
4.2.1 General Policies .....	14
4.2.2 Subsidies.....	14
4.2.3 Property Rights .....	15
4.3: Action Plan for Sustainable Development .....	16
4.3.1 Economic Liberalisation .....	16
4.3.2 Economic and Environmental Planning .....	16
4.3.3 Property Rights Reform.....	17
4.3.4 Privatisation .....	18
4.3.5 Decentralization and Community Participation .....	18

<b>5: AGRICULTURE</b>	
5.1: Recommended Actions .....	19
5.1.1 Implementation Strategy.....	20
5.2: Review of Agricultural Policy .....	22
5.3: Environmental Issues in the Agricultural Sector .....	22
5.3.1 Cropland Issues .....	23
5.3.2 Rangeland Issues.....	24
5.3.3 Animal Health Issues.....	25
5.4: Action Plan for the Agricultural Sector.....	26
5.4.1 Agricultural Research.....	26
5.4.2 Agricultural Extension.....	27
5.4.3 Veterinary and Tsetse Control .....	27
5.4.4 National Council for Scientific Research (NCSR) .....	27
5.4.5 University of Zambia (UNZA).....	27
<b>6: RENEWABLE NATURAL RESOURCES</b>	
6.1: Water Sector.....	27
6.1.1 Recommended Actions.....	27
6.1.2 Implementation Strategy.....	28
6.1.3 Review of the Water Sector .....	29
6.1.4: Sources of Water.....	29
6.1.6 Management and Utilisation of Water Resources .....	29
6.1.7 Environmental Issues in the Water Sector .....	30
6.1.8 Action Plan for the Water Sector .....	31
6.2: Forests.....	31
6.2.1 Recommended Actions.....	31
6.2.2 Implementation Strategy.....	32
6.2.3 Review of the Forest Sector.....	33
6.2.4 The Forest Resource Base.....	33
6.2.5 Forest Management.....	33
6.2.6 Environmental Issues in the Forest Sector .....	33
6.2.7 Action Plan for the Forest Sector .....	33
6.3: Wildlife Resources.....	36
6.3.1 Recommended Actions.....	37
6.3.2 Implementation Strategy.....	37
6.3.3 Review of the Wildlife Sector .....	38
6.3.4 Environmental Issues in the Wildlife Sector .....	38
6.3.5 Community Participation in Wildlife Management.....	40
6.3.6 Action Plan for the Wildlife Sector .....	41
6.4: Fisheries Resources .....	42
6.4.1 Recommended Actions.....	42
6.4.2 Implementation Strategy.....	43
6.4.3 Review of Fisheries Sector .....	43
6.4.4 Environmental Issues in the Fisheries Sector.....	44
6.4.5 Action Plan for the Fisheries Sector .....	45
<b>7: TOURISM</b>	
7.1: Recommended Actions .....	45
7.1.1 Implementation Strategy.....	46
7.2: Review of the Tourism Sector .....	46
7.3: Environmental Issues in the Tourism Sector .....	46

7.4: Action Plan for the Tourism Sector .....	47
<b>8: MINING</b>	
8.1: Recommended Actions .....	48
8.1.1 Implementation Strategy.....	49
8.2: The Mining Sector.....	49
8.3: Environmental Issues in the Mining Sector.....	50
8.3.1 Land Dereliction .....	51
8.3.2 Water Pollution .....	51
8.3.3 Air Pollution .....	52
8.4: Action Plan for the Mining Sector.....	53
<b>9: INDUSTRY</b>	
9.1: Recommended Actions .....	54
9.1.1 Implementation Strategy.....	55
9.2: Review of the Industrial Sector .....	55
9.3: Environmental Issues in Industry .....	56
9.4: Action Plan for Industry .....	57
<b>10: HUMAN POPULATION</b>	
10.1: Recommended Actions .....	58
10.1.1 Implementation Strategy.....	58
10.2: Demographic Characteristics.....	59
10.3: National Population Policy.....	59
10.4: Population and Environment .....	60
<b>11: ENERGY RESOURCES</b>	
11.1: Recommended Actions .....	60
11.1.1 Implementation Strategy.....	61
11.2: Review of the Energy Sector.....	61
11.3: Woodfuel.....	62
11.3.1 Action Plan for Fuelwood.....	63
11.4: Hydroelectric Power .....	63
11.4.1 Hydropower Environmental Issues.....	63
11.4.2 Action Plan for Hydropower .....	64
11.5: Fossil Fuels .....	65
11.5.1 Action Plan for Fossil Fuels.....	65
11.6: New and Renewable Sources of Energy.....	65
11.6.1 Action Plan for Renewable Sources of Energy .....	66
<b>12: ENVIRONMENTAL EDUCATION</b>	
12.1: Recommended Actions .....	66
12.1.1 Implementation Strategy.....	67
12.2: Review of Environmental Education .....	67
12.3: Issues in the Education Sector .....	68
12.4: Action Plan for Environmental Education .....	68
<b>13: HUMAN SETTLEMENT.</b>	
13.1: Recommended Actions .....	69
13.1.1 Implementation Strategy.....	70
13.2: Review of Human Settlements .....	70
13.2.1 Settlement Patterns.....	70
13.3: Environmental Issues of Human Settlements .....	71

13.3.1 Urbanisation Issues.....	72
13.3.2 Rural Settlement Issues.....	73
13.4: Environmental Action Plan Strategies for Human Settlements.....	73
<b>14: ENVIRONMENTAL ISSUES IN THE PROVINCES</b>	
14.1: Recommended Actions .....	77
14.1.1 Implementation Strategy.....	78
14.2: Environmental Problems .....	78
14.2.1 Central Province.....	78
14.2.2 Copperbelt Province.....	78
14.2.3 Eastern Province.....	78
14.2.4 Luapula Province.....	79
14.2.5 Lusaka Province.....	79
14.2.6 Northern Province .....	79
14.2.7 North Western Province .....	79
14.2.8 Southern Province .....	79
14.2.9 Western Province .....	79

## REFERENCES

## **LIST OF TABLES**

- Table 6.1: Estimates of Total Fish Catches in Major Fisheries Areas (in tonnes) during 1985 to 1991
- Table 8.1: Production of Major Minerals (in metric tonnes) in Zambia during 1983-1992
- Table 8.2: Water Quality in Kafue River Downstream to the Discharge of Mining Effluents in the Copperbelt Area in 1987
- Table 9.1: Quality of Industrial Wastewater Effluents Discharged in the Municipal Sewer at Kafue Township
- Table 11.1: Energy Consumption by Sector in 1990
- Table 13.1: Growth Rates of Population in Large Urban Areas
- Table 13.2: Population Distribution by Rural/Urban in Provinces 1990

## **DEFINITIONS**

ON-GOING	Implementation in progress
IMMEDIATE	Implementation to start as soon as conditions permit
SHORT TERM	Implementation to be completed in 1 - 2 years
MEDIUM TERM	Implementation to be completed in 3 - 5 years
LONG TERM	Implementation to be completed in over 5 years

## **ACRONYMS**

BPM	Best Practicable Means
CBO	Community Based Organisations
CSO	Central Statistical Office
DOE	Department of Energy
DOF	Department of Fisheries
DOOR	Department of Resettlement
ECZ	Environmental Council of Zambia
EIA	Environmental Impact Assessment
EPPCA	Environmental Protection and Pollution Control Act
FAO	Food and Agriculture Organization
FD	Forest Department
GRZ	Government of Zambia
IUCN	International Union for Conservation & Nature
JICA	Japanese International Cooperation Agency
LA	Local Authorities
MAFF	Ministry of Agriculture, Food and Fisheries
MCDSS	Ministry of Community Development and Social Services
MCI	Ministry of Commerce, Trade & Industry
MEC	Ministry of Education
MENR	Ministry of Environment and Natural Resources
MEWD	Ministry of Energy & Water Development
MLA	Ministry of Legal Affairs
MLGH	Ministry of Local Government and Housing
MMMD	Ministry of Mines & Mineral Development
MOF	Ministry of Finance
MOL	Ministry of Lands
MOT	Ministry of Tourism
MTC	Ministry Transport & Communication
MOH	Ministry of Health
MST	Ministry of Science and Technology
NCS	National Conservation Strategy
NCSR	National Council for Scientific Research
NCZ	Nitrogen Chemicals of Zambia
NEAP	National Environmental Action Plan
NGO	Non Governmental Organization
NORAD	Norwegian Agency for Development
NSCU	National Soil Conservation Unit, MAFF

PFP	Policy Framework Paper
PHC	Primary Health Care
PPAZ	Planned Parenthood Association of Zambia
PTC	Planning and Technical Committee
SIDO	Small Scale Development Organization
TCPD	Town and Country Planning Department
UNCED	United Nations Conference on Environment and Development
UNDP	United Nations Development Programme
WAD	Water Affairs Department
ZCCM	Zambia Consolidated Copper Mines
ZEEP	Zambia Environmental Education Program
ZESCO	Zambia Electricity Supply Corporation Limited
ZFAP	Zambia Forestry Action Plan
ZNFU	Zambia National Farmers Union

预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_12813](https://www.yunbaogao.cn/report/index/report?reportId=5_12813)

