

Table of Contents

Planting a Seedling for Better Decision-Making	iii
Executive Summary	vi
Building Partnerships for Better Poverty-Environment Analyses	x
Preface	xi
A Reader's Guide	xii
Introduction	1
▶ Chapter 1 Ecosystems and Ecosystem Services	2
The Importance of Natural Resources in the Economy of Kenya	3
Understanding Ecosystem Services and Processes	4
Major Ecosystem Components: A National View of Kenya	5
▶ Chapter 2 Spatial Patterns of Poverty and Human Well-Being	12
Population Density, Poverty Rate, and Poverty Density	15
Poverty Gap and Resources Needed to Close the Gap	18
Measures of Inequality and Housing Quality	21
▶ Chapter 3 Water	24
Water Supply and Demand	26
<i>(Rainfall; Rivers and Drainage Networks; Demand Versus Supply of Water)</i>	26
Water-Based Ecosystem Services	30
<i>(Drinking Water; Water Supply in Urban Areas; Electricity Generation; Crop Production; Livestock and Wildlife)</i>	30
Water as a Hazard: Flooding	37
▶ Chapter 4 Food	42
Food and Livelihoods	43
<i>(Sources of Food; Predominant Strategies for Food and Livelihoods; Importance of the Agriculture and Food Sector; Croplands)</i>	43
Food Crops: Major Supply Areas	48
<i>(Food Cropping in Central and Western Kenya; National Trends of Selected Food Crops)</i>	48
Livestock Products	51
<i>(Dairy in Central and Western Kenya; Livestock in the Rangelands)</i>	51
Food from the Wild	55
<i>(Fishing and Fish Farming; Hunting and Gathering)</i>	55

► Chapter 5 Biodiversity	62
Selected Indicators of Biodiversity	64
<i>(Distribution of Mammal Species; Key Sites for Bird Diversity)</i>	65
How People Affect Kenya's Biodiversity	67
<i>(Intensity of Cultivation; Agriculture and Biodiversity Conservation; Impact of Rangeland Development on Biodiversity)</i>	67
Losing and Gaining Wildlife	71
<i>(Trends in Spatial Distribution of Wildlife; Local Declines in Selected Wildlife Species; Wildlife Areas and Species in Recovery)</i>	73
► Chapter 6 Tourism	80
Links Between Ecosystem Services and Tourism	81
<i>(Building a Sustainable Tourism Industry)</i>	81
Key Ecosystem Assets for the Tourism Sector	82
<i>(Spatial Distribution of Wildlife with High Tourism Value; Coastal Ecosystems that Support Tourism)</i>	83
Nature-Based Tourism: Infrastructure, Visitor and Revenue Trends, and Spatial Diversification	86
<i>(Trends in the Tourism Economy and Visitor Distribution; Use of Protected Areas: Visitor Trends and Revenue Generation)</i>	87
► Chapter 7 Wood	94
Overall Distribution of Woody Biomass	96
<i>(Forests and Tree Cover; Plantations and Woodlots)</i>	97
Key Supply Areas for Firewood and Charcoal	100
<i>(Firewood Collection and Charcoal Making; Growth of Biomass and Potential Harvest)</i>	100
► Chapter 8 The Upper Tana: Patterns of Ecosystem Services and Poverty	108
Landscapes, People, and Poverty	109
<i>(Landforms; Population, Road Network, and Administrative Units; Spatial Patterns of Poverty)</i>	110
Water-Related Ecosystem Services	113
<i>(Indicators Examined; Drinking Water Use and Poverty; Irrigation Efforts, Other Water Uses, and Poverty; High Share of Piped Drinking Water and Small-Scale Irrigation Efforts)</i>	113
Food-Related Ecosystem Services	119
<i>(Indicators Examined; Food Cropping and Poverty; Milk Production and Poverty; High Food Cropping and High Milk Output)</i>	119
Biodiversity- and Wood-Related Ecosystem Services	125
<i>(Indicators Examined; Number of Agricultural Crops and Poverty; Woodlots in Cropland and Poverty; High Number of Agricultural Crops and High Share of Woodlots in Cropland)</i>	125
Lessons Learned and Next Steps	134
Acknowledgments	138
List of Abbreviations and Acronyms	140
Sources	141