

TABLE OF CONTENTS

Glossary of Selected Terms	vii
Preface	xi

CHAPTER 1 INTRODUCTION TO LAND DEGRADATION

Introduction.....	2
A Brief Historical Review of Land Degradation.....	3
The Main Land Degradation Types And Processes.....	7
Effects of Land Degradation.....	20
Indicators of Soil Loss.....	23
Solutions of Soil Degradation	39
References.....	41

CHAPTER 2 THE NATURE OF DESERTIFICATION

Introduction.....	48
Desertification, its Causes and why it matters	50
Consideration of Desertification, Land Degradation and Drought (DLDD).....	64
Global Desertification Process.....	79
References.....	88

CHAPTER 3 PROCESSES AND CONSEQUENCES OF DEGRADATION

Introduction.....	94
Impacts of Soil Degradation on The Landscape.....	98
Consequences of Loss of Topsoil.....	118
Soil Acidification	123
Water Logging	124
Salinization	128
Compaction.....	129
Reduced Soil Fertility.....	132
Consequences For Productivity	134
References.....	137

..... 6.10 Global Agendas	152
Nutrient Cycle	166
Soil Degradation	172
References	177

CHAPTER 5 METHODS OF MONITORING LAND DEGRADATION

Introduction	184
Monitoring Desertification	185
Land Use and Land Cover (LULC)	197
Normalized Difference Vegetation Index	211
Land Capability Classification	216
References	223

CHAPTER 6 MANAGING LAND DEGRADATION AND DESERTIFICATION

Introduction	230
Land Use and Land Cover Change	231
Nature and Scope	234
The Focus of Land-Use Planning	237
The Impact and Management of Rural Land Degradation	253
Issues Brief: Desertification, Land Degradation and Drought	258
Environmental Impact And Mitigation Measures	261
References	269

CHAPTER 7 DESERTIFICATION INDICATORS

Introduction	276
Desertification Indicators	277
Land Degradation and Desertification	282
The Soil and Water Conservation	291
References	304