## **Contents**

	List of Boxes	vii
	List of Plates	i
	List of Figures	>
	List of Tables	xi
	Acknowledgments	xii
	Introduction	1
1	The Concept and Study of Outdoor Recreation	13
2	Perspectives on the Past	31
3	The Natural Environment and Outdoor Recreation	63
4	Social Psychology and Outdoor Recreation	95
5	Economics and Outdoor Recreation	131
6	Management of Outdoor Recreation	169
7	Parks and Protected Areas	207
8	Outdoor Education and Interpretation	243
9	Adventure Recreation	277
10	Issues in Outdoor Recreation	321
	Conclusion	35]
	Bibliography	355
	Index	381

#### **Boxes**

1.1	Is Golf Outdoor Recreation?	24–25
3.1	Climate Change and Outdoor Recreation	8990
7.1	Yellowstone to Yukon Initiative	217–219
7.2	Banff National Park	228–229
8.1	History of Park Interpretation in North America	256–257
9.1	The Timiskaming Tragedy	312–313
10.1	Easter Seals Camp Merrywood	324–325
10.2	Geocaching	332–333
10.3	Debate: Is Outdoor Recreation Anti-Environmental?	341–342
10.4	Leave No Trace Principles	343-344

24-25

## **Plates**

1.1	Why is Kayaking Considered an Outdoor Recreation Activity?	18
3.1	A Free-flowing River is an Example of a Resource Located at the	
	Biophysical or Natural Environment End of the Continuum of	
	Recreational Resources	78
3.2	The Presence of Resource Users, Technological Innovations, and	
	Lack of Alternatives Make Sand Dunes a Recreational Resource for	
	Sandboarding	78
4.1	Environmental Cognition is Concerned with the Perceptions and	
	Meanings of the Environment	117
4.2	Fly-Fishing for Trout Typifies Technique-Setting Specialists Associated	
	with Recreation Specialization	125
6.1	How can Outdoor Recreation Managers Strive to Protect the Natural	
	Environment and Provide Opportunities for Meaningful Experience?	184
6.2	Providing a Rope Bridge is Sometimes the Best Option to Protect	
	the Environment and to Facilitate Travel	185
7.1	Lake Manyara National Park in Tanzania, Africa	234
8.1	Interpreter at King's Canyon, Watarrka National Park, Australia	269
8.2	Traditional Forms of Non-Personal Interpretation	270
9.1	Are These Adventurers Experiencing Flow?	285
9.2	Example of a Ropes Course	295
10.1	Fishing can be Simple and Involve a Limited Amount of Technology	328
10.2	Some Forms of Fishing have been Heavily Influenced by Technology	329

# **Figures**

I.1	Different Forms of Research	4
I.2	An Interdisciplinary Framework of Outdoor Recreation	7
1.1	Multidimensional Definition of Leisure	15
1.2	Phases of the Outdoor Recreation Experience	19
1.3	Inter-Relationships Among Leisure, Recreation, and Tourism	25
3.1	Moose and Wolves at Isle Royale	73
3.2	The Ecological Concept of Carrying Capacity	74
3.3	Human Population Growth	75
3.4	Man, Culture, and Nature	76
3.5	Continuum of Recreational Resources	77
4.1	Maslow's Hierarchy of Needs	100
4.2	Levels of Causality of Leisure Behavior	101
4.3	Seeking and Escaping Dimensions of Leisure Motivation	102
4.4	Model for Recreation Satisfaction	105
4.5	Process of Leisure Socialization	107
4.6	Outdoor Recreation Norm Curve	109
4.7	Leisure Repertoire	111
4.8	Leisure Novelty	111
4.9	General Theory of Motivation	120
4.10	Theory of Planned Behavior	121
4.11	Model of Optimal Experience or Flow	123
4.12	Recreation Specialization	126
5.1	Demand Curves	135
5.2	Percentage of Canadians Participating in Outdoor Activities in Natural Areas	
	in 1996	138
5.3	Consumer Surplus Model	145
5.4	Arguments Against User Fees	150
5.5	Objectives of Pricing in Recreation	151
5.6	Approaches and Methods of Pricing	152
5.7	Spatial Considerations for Expenditures	158
5.8	Outdoor Recreation Service Delivery System	166
6.1	Impacts from Outdoor Recreation	172

	6.2	Crowding and Satisfaction	178
	6.3	The General Components of Management	183
	6.4	Objectives of Outdoor Recreation Management	186
	6.5	Outdoor Recreation as a Production Process	187
	6.6	Outdoor Recreation Management Framework	189
	6.7	Recreation Carrying Capacity	190
	6.8	Limits of Acceptable Ecological Change	195
	6.9	Limits of Acceptable Change Planning System	196
	6.10	Visitor Impact Management	198
	6.11	Visitor Activity Management Process	200
	7.1	The Relationship Between Wilderness and Civilization	233
	7.2	Growth of Parks and Protected Areas Worldwide	236
	7.3	Changing Emphasis in Parks Over Time	237
	8.1	The Distinction Between Information Assimilation and Experiential Learning	253
	8.2	Proactive Experiential Learning	254
	8.3	The Communication Process	260
	8.4	Steps to Writing a Theme	267
	8.5	The Interpretive Model	273
	9.1	The Adventure Experience Paradigm	284
	9.2	Profile of the Timid Individual	286
	9.3	Profile of the Arrogant Individual	287
	9.4	Harter's Theory of Competence Motivation	289
	9.5	The Adventure Therapy Process	293
	9.6	Breaking Through Limits to New Growth	294
	9.7	Life Cycle of Groups	298
	9.8	Categories of Leadership Theories	304
	9.9	Brick Wall Model of Outdoor Leadership	306
		Situational Leadership Model	307
		Outdoor Leadership Development Cycle	308
	9.12	Three Theories of Transfer in Adventure Education	310
		Accident Ratio Triangle	314
	9.14	Model of Risk-Management Planning	317
	0.1	Model of Technological Impacts	331
]	0.2	Dichotomy of Nature-Based Tourism	335
]	.0.3	The Ecotourism Spectrum	337

## **Tables**

1.1	A Synthesis of Outdoor Recreation Definitions	20–23
3.1	ORRRC Land Classification	80
4.1	Four Levels or Hierarchies of Demand for Outdoor Recreation	103
5.1	Demand as a Schedule of Visits, Costs per Visit, and Total	
	Expenditure, Hypothetical Recreation Area	134
5.2	Percent and Number of People 16 Years and Older in the US Participating in	
	Land-Resource-Based Outdoor Activities, 1994-1995	140
5.3	Percent and Number of People 16 Years and Older in the US Participating in	
	Water-Resource-Based Outdoor Activities, 1994-1995	141
5.4	Percent and Number of People 16 Years and Older in the US Participating in	
	Snow- and Ice-Based Outdoor Activities, 1994–1995	142
5.5	Positive and Negative Dimensions of the Impacts of Tourism on Host	
	Communities	155–156
5.6	Land and Water Area Administered by Federal Land-Managing Agencies by	
	Agency and Region, 1995	160
5.7	Key Features of the Leisure Services Delivery System	167
6.1	Appropriate Setting Descriptions for Each of the Six Classes in the	
	Recreational Opportunity Spectrum	193
6.2	Nine Steps of VERP	201
7.1	Contents of a National Park Management Plan	220
7.2	Administrative Evaluation Criteria	223
7.3	IUCNs Category System for National Parks and Protected Areas	235
8.1	Piaget's Stages of Cognitive Development	250
8.2	Differences Between Captive and Non-Captive Audiences	261
8.3	Organizations Providing Interpretive Services in North America	264
8.4	Principles of Interpretation	266
9.1	Stages of Group Development	297
9.2	Advantages and Disadvantages of Decision-Making Methods	302–303
10.1	Categories of Technological Effects and Implications for	
	Backcountry Recreation	330