

Contents

<i>Foreword</i>	Jay Holcomb	xiii
<i>Preface</i>		xvii
1	<i>Overview of wildlife rescue</i>	1
2	<i>Characterizing wildlife search and rescue</i>	3
3	<i>Laws and regulations governing wildlife rescue in the USA</i>	7
4	<i>Code of practice</i>	10
5	<i>The components of wildlife search and rescue</i>	11
	Human safety	11
	<i>Environmental hazards</i>	11
	<i>Human factor hazards</i>	12
	<i>Equipment hazards</i>	13
	<i>Health risks</i>	13
	<i>Zoonotic diseases</i>	15
	Bacterial infections	15
	Fungal infections	18
	Viruses	19
	Parasites	19
	<i>Personal protective equipment</i>	22
	<i>Protection from hazardous materials</i>	24
	<i>Basic safety and preparedness guidelines</i>	26
	<i>Operational risk management</i>	27
	<i>Outfitting</i>	32
	The welfare of the animal	34
	<i>Understanding stress</i>	35
	<i>Minimizing stress during rescue operations</i>	38
	Potential for success	40
	<i>The mindset of the hunter and the hunted</i>	42
	<i>The importance of natural history</i>	42
	<i>The fundamentals of the search</i>	43
	<i>The fundamentals of the capture</i>	45

6	<i>Anatomy of a response team</i>	52
7	<i>Overview of wildlife capture equipment</i>	55
	The towel	55
	Herding boards	55
	Nets and netting	57
	<i>The hoop net</i>	57
	<i>The open-ended hoop net</i>	58
	<i>The throw net</i>	60
	Land seine	60
	Mechanical nets	60
	<i>Active land seine</i>	60
	<i>The bow net and Q-net</i>	61
	<i>The whoosh net</i>	62
	Driving, funnel, and walk-in traps	63
	The dho-gaza	66
	Drop traps	66
	Cage traps	68
	Projectile-powered nets	68
	Lures	69
	Catchpole	70
8	<i>Capture, handling, and confinement of wild birds</i>	71
	Techniques for capturing wild birds	71
	<i>Enticing wild birds using lures</i>	71
	<i>The Bartos trap</i>	76
	<i>Snare-type traps</i>	76
	<i>Bal-chatri</i>	76
	<i>The phai trap</i>	78
	<i>Noose carpets</i>	79
	<i>The single snare</i>	79
	<i>Leg snare pole</i>	84
	<i>Swan hook</i>	85
	<i>Pit traps</i>	85
	<i>Mist nets</i>	86
	<i>On the water</i>	86
	Floating gill nets	88
	Floating barriers and submersible pens	89
	<i>Spotlighting</i>	90

Special circumstances and particular methods	92
<i>Hummingbirds</i>	92
<i>Loons (Gaviiformes)</i>	93
<i>Grebes (Podicipediformes)</i>	94
<i>Rails and coots (Rallidae)</i>	94
<i>Brown pelican (Pelecanus occidentalis)</i>	95
<i>Cormorants (Phalacrocoracidae)</i>	97
<i>Waders</i>	97
<i>Alcids</i>	98
<i>Birds trapped in structures</i>	98
<i>Hummingbirds in skylights</i>	99
<i>Window strikes</i>	100
<i>Ducklings in a pool</i>	100
<i>Birds entangled in fishing tackle</i>	104
<i>Rodenticide poisoning</i>	105
<i>Shot through with a projectile</i>	105
<i>Glue traps</i>	109
<i>Avian botulism</i>	110
<i>Lead poisoning</i>	111
<i>Domoic acid poisoning (DAP)</i>	111
<i>"Sea slime"</i>	113
<i>Oil and petroleum products</i>	113
Handling and restraint of wild birds	117
Processing from nets and housing	124
Short-term and temporary housing for wild birds	124
 9 <i>Capture, handling, and confinement of land mammals</i>	 130
Techniques for capturing wild mammals	130
<i>Chemical immobilization</i>	131
Special circumstances and particular methods	131
<i>Small rodents</i>	131
<i>Large rodents, porcupines, beaver</i>	132
<i>Lagomorphs, rabbits and hares</i>	132
<i>Xenarthrans, anteaters, armadillos</i>	132
<i>Skunks</i>	133
<i>Canids</i>	133
<i>Deer</i>	133
Physical restraint of land mammals	134
<i>Bats</i>	134

x Contents

<i>Small rodents</i>	135
<i>Talpids, moles and relatives</i>	136
<i>Squirrels</i>	137
<i>Opossums</i>	137
<i>Porcupines</i>	137
<i>Lagomorphs, rabbits and hares</i>	138
<i>Small and medium-sized carnivores</i>	138
<i>Mustelids, badger, otter, weasels</i>	139
<i>Skunks</i>	139
<i>Coyotes and foxes</i>	139
<i>Felids</i>	140
Processing mammals from nets and cages	140
Temporary confinement of land mammals	142
10 <i>Capture and handling of reptiles and amphibians</i>	145
11 <i>Marine mammal rescue</i>	146
Rescuing seals and sea lions	146
Young seals and sea lions	147
<i>Hoop nets</i>	149
<i>Modified open-ended hoop net</i>	149
<i>Wraps, slings, and stretchers</i>	151
<i>The towel wrap</i>	151
<i>Flat webbing cargo net</i>	152
<i>The floating net</i>	153
Physical restraint of seals and sea lions	153
Confinement and transport of pinnipeds	153
Cetaceans	156
12 <i>Basic wildlife first aid and stabilization</i>	158
Performing a cursory physical examination	159
Bleeding	161
Dehydration	161
Fluid therapy	162
<i>Oral fluid administration (mammals)</i>	164
<i>Oral fluid administration (birds)</i>	165
<i>Subcutaneous injections</i>	168
Treating hypothermia	170
Treating Hyperthermia	171
Basic wound care	172

Stabilizing fractures	173
<i>Robert Jones bandage</i>	174
<i>Figure-eight wrap</i>	174
<i>Bird body wrap</i>	176
<i>The ball bandage</i>	176
13 <i>Transporting wildlife</i>	177
14 <i>Field euthanasia</i>	179
15 <i>Life, liberty, and euthanasia</i>	182
16 <i>Rescuing baby birds and land mammals</i>	184
17 <i>Reuniting, re-nesting, and wild-fostering</i>	185
Returning altricial chicks to the wild	187
Returning precocial chicks to the wild	193
Returning baby mammals to the wild	195
Nutritional support	198
18 <i>Offering public service</i>	200
Public relations and the art of shapeshifting	202
Contracting with municipalities	203
Appendix 1 <i>Ready packs</i>	204
Appendix 2 <i>Wildlife observation form</i>	206
Appendix 3 <i>Wildlife trauma equipment and supplies</i>	207
Appendix 4 <i>Instructions for tying nooses</i>	209
Appendix 5 <i>Barn owl box plans and instructions</i>	211
Appendix 6 <i>Sample contract</i>	213
<i>Further reading</i>	220
<i>Index</i>	222

COMPANION WEBSITE

This book has a companion website:

www.wiley.com/go/dmytryk/wildlifeemergency

with Figures and Tables from the book for downloading

