Index

in snow geese, 76

Scientific names of animals and plants	African horse sickness
can be found in Appendix B.	in biowarfare/bioterrorism, 242, 254–255, 257, 346 in zebras, 150
_	African sleeping sickness, 12
A	African swine fever, in biowarfare/bioterrorism, 242,
Abalone, 47	251, 255, 257, 346
withering syndrome in, 52, 322	African tick-bite fever, 13
Abrins, in biowarfare/bioterrorism, 352	African trypanosomiasis, 12
Abscess	Agricola (database), 291, 293
brain, in deer, 224–225	Agriculture, 99, 103, 105
in harvested wildlife, 217	world trade in agricultural products, 201
Abstracting services, 289–294	Agris (database), 293
Acanthocephaliasis	Agroterrorism, 244, 247–249, 259, 262
in birds, 220–221	characteristics of most dangerous pathogens, 249
fauna affected, 320	pathogens of concern, 251–257
geographic area affected, 320	AIDS, see HIV/AIDS
in sea otters, 60, 221	Airborne disease, see Aerosol transmission
Acariosis, in bees, 351	Air conditioning, 99
Acinetobacter, human disease from animal bites/	Airline travel, 193, 201
scratches, 197	Alaskan Wildlife Diseases, 287
Acroporids, 42–43	Alaska SeaLife Center, 173
Adenovirus hemorrhagic disease	Algae
fauna affected, 313	coral bleaching, 46
geographic area affected, 313	coralline lethal orange disease, 44-46
in mule deer, 76, 80	Algal blooms, 48–49, 105, 209
Adenovirus infection	Alligators
fauna affected, 313	alligator meat, 154, 165
geographic area affected, 313	game ranching, 153–154
in long-tailed ducks, 63	human disease from bites/scratches, 197
Adventure tourism, 195	Alphavirus, in biowarfare/bioterrorism, 247
Aeromonas, human disease from animal bites/	Alternative agriculture, see Game ranching
scratches, 197	American coots, trematodes in, 75
Aeromonas caviae	American foulbrood, in biowarfare/bioterrorism, 349
fauna affected, 316	American Journal of Epidemiology, 292
geographic area affected, 316	American Journal of Tropical Medicine and Hygiene,
Aeromonas hydrophila, in sea turtles, 51	292
Aeromonas jandeaei	Amidostomum, see Gizzard worms
fauna affected, 316	Amnesic shellfish poisoning, 49
geographic area affected, 316	Amphibian Medicine and Captive Husbandry, 286
Aeromonas salmonicida, see Furunculosis	Amphibians
Aerosol transmission, 10, 31, 195, 199	anchorworms in, 65
of biowarfare/bioterrorism agents, 234	Batrachochytrium in, 66
Aflatoxicosis	chlamydiosis in, 65
in birds, 105	chytridiomycosis in, 21, 63–67
game meat and, 228	common and scientific names of, 332

Dermosporidium in, 65

fungal diseases in, 64

disease emergence in, 63-68

Amphibians—Continued	Antlers, 151
Ichthyophonus in, 64	Antler velvet, 151, 153
leeches in, 65	Apes, 156
malformations in, 65, 67	Aphanomyces invadans, 48
Perkinsus-like infection in, 65	APHIS, 133
population declines, 63, 67	Appendicitis, from lead shot ingestion, 211
ranavirus in, 63–67	Aquaculture, 47, 50, 68, 71, 90, 99, 103–105, 140,
Ribeiroia in, 65	142, 244
saprolegniasis in, 64	founder stocks for, 105
translocations of, 67, 148	Aquarium fish, 94–95, 105, 166
Amplification host, 37	Aquatic Sciences and Fisheries Abstracts (database),
Anaplasmosis, in biowarfare/bioterrorism, 350	294
Anatoxins, in biowarfare/bioterrorism, 352	Araeolaimus, 43
Anchorworms	Argentine hemorrhagic fever, in biowarfare/bioterror-
in amphibians, 65	ism, 245, 346
fauna affected, 320	Arthropods
geographic area affected, 320	as amplification hosts, 37
Andromous fish, jurisdiction and regulatory authorities	common and scientific names of, 332–333
for stewardship of, 259	spread by wild birds, 37
Angiomatosis	Arthropod-vectored diseases, 7, 10, 12, 31, 98, 199
bacillary, 96	Artiodactyls, 242
· ·	Asclepiadae, 7
fauna affected, 321	·
geographic area affected, 321	Asian tapeworm, in freshwater fish, 69
Animal bites, 10, 31, 96, 195, 197, 199	Asian tiger mosquito, 105
by companion animals, 93	Aspergillosis
by marine mammals, 58	in birds, 175, 227–228
Animal hides, 7, 15, 130, 148–149, 151–153, 156	in Canada geese, 227
Animal migration, 99	human disease from animal bites/scratches, 197
Animal parts, disposal of, 211	in waterfowl, 103
Animal Plagues, 276–277	Aspergillus sydowii, see Sea fan disease
Animal Plant and Health Inspection Service (APHIS),	Astrovirus, foodborne, 86
133	Atlas of Travel Medicine and Health, 202
Animal processing, 195	Atrophic rhinitis of swine, in biowarfare/bioterrorism,
Animal scratches, 10, 93, 96, 195, 197	349
Animal translocations, see Translocations of wildlife	Audubon Center for Birds of Prey, 173
Anisakiasis	Aujeszky's disease, see Pseudorabies
foodborne, 86–87, 89	Aum Shinrikyo cult, 241–243
routes for human exposure to, 15	Avian botulism, 228
Annotated Bibliography of Helminthes of Waterfowl,	toxin in fish, 21–24, 31, 212
290	type C, 105
Antelope	fauna affected, 321
antelope meat, 165	geographic area affected, 321
game ranching, 165	in United States, 21, 26
hemorrhagic disease of, 226–227	in waterbirds, 21, 27, 72–73, 75
Anthrax	type E
from animal hides, 7	fauna affected, 321
in biowarfare/bioterrorism, 234, 236-237, 243-245,	geographic area affected, 321
248–249, 254, 256, 349	in waterbirds, 21–24
in deer, 76	Avian cholera, 105, 222
letter attacks of 2001, 236	in biowarfare/bioterrorism, 242, 349
research on, 244	fauna affected, 316
zoonoses-specific publications, 282	in geese, 224
Antibiotics, 99	geographic area affected, 316
resistance to, 25, 103	in marine birds, 55, 62

in waterbirds, 73–74, 77	geographic area affected, 316
in waterfowl, 242	Baconism, 278–279
Avian Cholera and Related Topics: An Annotated	Bacterial and Viral Zoonoses, 281
Bibliography, 290	Bacterial diseases
Avian diseases, 13	biowarfare/bioterrorism agents, 349-350
Avian Diseases (journal), 292	companion animals as sources of, 93
Avian infectious bronchitis, in biowarfare/bioterrorism,	crossing species barriers, 101
346	fauna affected, 316
Avian infectious laryngotracheitis, in biowarfare/bioter-	foodborne, 84, 86
rorism, 346	game meat and, 222–225
Avian influenza	geographic area affected, 316
avian influenza virus H5N1, 265, 301	human disease from animal bites/scratches, 197
in biowarfare/bioterrorism, 252, 257–258, 346	human disease from handling wildlife, 198
costs incurred by society from, 138	pathogen characteristics, 16
Avian malaria	sources of human disease, 25
fauna affected, 319	Bacterial kidney disease
geographic area affected, 319	fauna affected, 316
in Hawaii, 98	in finfish, 71
Avian pox, 81	geographic area affected, 316
·	
in bald eagles, 226	Bacterial wilt, in biowarfare/bioterrorism, 257, 349
in biowarfare/bioterrorism, 346	Bacteroides, human disease from animal bites/
fauna affected, 313	scratches, 197
geographic area affected, 313	Bag limits, 158
in Hawaii, 98	Bald eagles
in songbirds, 175	avian pox in, 226
Avian tuberculosis, 225	avian vacuolar myelinopathy in, 75
in biowarfare/bioterrorism, 349	deaths in Wisconsin, 78, 82, 322
in ducks, 214	Ballast water, 39, 71, 105
fauna affected, 318	Batrachochytrium, see Chytridiomycosis
geographic area affected, 318	Bats
in whooping cranes, 217	fungal spores in guano, 15
Avian vacuolar myelinopathy	human diseases from bites/scratches, 197
bird mortalities from, 78	rabies in, 7, 13, 31, 195
fauna affected, 321	Baylisascariasis, in raccoons, 6, 218
geographic area affected, 321	Bear meat, 91
pathology of, 78	Beavers
in waterbirds, 75, 78	giardiasis in, 37
_	translocations of, 141, 147
В	tularemia in, 224–225
Babesiosis	Bees, diseases of, 244, 349, 351
	Beggiatoa, 43
bovine, in biowarfare/bioterrorism, 351	Bibliographies, 288–291
crossing species barriers, 101	Bibliography of References to Avian Botulism: Update
Baboons, 83–84	291
human diseases in, 163	A Bibliography of Cooperative Extension Service Lit-
Bacillary angiomatosis, companion animals as	erature on Wildlife, Fish, and Forest Resources,
sources of, 96	210
Bacillus anthracis, see Anthrax	A Bibliography of References to Diseases of Wild
Bacillus cereus	Mammals and Birds, 290
fauna affected, 316	· · · · · · · · · · · · · · · · · · ·
foodborne, 89	Bibliography of Ticks and Tickborne Diseases: From
geographic area affected, 316	Homer (about 800 B.C.) to 31 December 1984,
Bacillus mycoides	291 Disharp sheep translagations of 140, 141, 147
fauna affected, 316	Bighorn sheep, translocations of, 140–141, 147
	Biodefense spending, 243

Biohazard, the Hot Zone and Beyond: Mankind's	Birdbaths, 172
Battle Against Deadly Disease, 285	Bird feeders, 78, 172, 175–176
Bioinvasion, 285	cleaning of, 176–177
Biological Abstracts (database), 291, 294	Birds
Biological and Toxin Weapons Convention (BWC),	caged, see Caged birds
240, 244, 256–257	common and scientific names of, 333-335
Biological control, infectious diseases used for,	human disease from bites/scratches, 197
260–261	marine, see Marine birds
The Biology of Animal Viruses, 277	salmonellosis in, 78
Biosafety facilities, 23	terrestrial, 75–78, 81
level-3 facilities, 135, 243	Usutu virus in, 77, 81
level-4 facilities, 243	West Nile virus in, 75–76, 79
Bioterrorism, 1, see also Biowarfare/bioterrorism	Bison
costs of, 244	bison meat, 151, 165, 228
defined, 234	bovine tuberculosis in, 151, 154–155, 225, 242
fear factor in, 239–240	bovine viral diarrhea in, 155
impact on conduct of scientific research, 244	brucellosis in, 105, 151, 225
Biotic diversity, 26	game ranching, 151–152, 154–155, 165
Biotoxins, see Toxins	infectious bovine rhinotracheitis in, 155
Biowarfare/bioterrorism, 1, 231–265, 302	Johne's disease in, 155
agroterrorism, 244, 247–249, 251–257, 259, 262	malignant catarrhal fever in, 154–155
animal diseases and, 244–254	necrobacillosis in, 155
attributes required for effective weapons, 241	pasteurellosis in, 155
availability of biological agents, 239	scours in, 155
biodefense spending, 243	translocations of, 151
biowarfare vs. bioterrorism, 236–242	Bite, see Animal bites
costs from, 243	Black-band disease, in coral, 42
critical elements necessary for event to occur, 240	Black bears, translocations of, 147
history of, 234–237	Black Death, see Plague
information sources, 238–239	Blackhead, in turkeys, 220
list A disease from OIE, 244, 255	Black spot/grub, in fish, 219
means of pathogen dissemination, 239	Bleaching, coral, 46–47
pathogens of concern, 244–257, 346–352	Blowhole sampling, 198
bacteria, 349–350	Blue mold, in biowarfare/bioterrorism, 257, 350
category A, 245	Bluetongue virus
category B, 246–247	in biowarfare/bioterrorism, 252, 255, 257, 346
category C, 250	in deer and antelope, 214, 226–227
"double agents," 248–249	Boats, contaminated surfaces of, 71
fungi, 350–351	Bohle iridovirus, 64
parasites, 351–352	Bolivian hemorrhagic fever, in biowarfare/bioterrorism,
prions, 348–349	245, 346
rickettsia, 350	Bonamiosis, in biowarfare/bioterrorism, 351
viruses, 346–348	Borrelia burgdorferi, see Lyme disease
potential perpetrators, 239	Bot flies
present situation, 236–243	in harvested wildlife, 216, 218
preventative steps to reduce risks for, 264	in rabbits, 220
toxins, 352	Bothriocephaliasis
wildlife and, 258–264	fauna affected, 320
early detection and response to illness, 259	geographic area affected, 320
knowledge and networks, 263-264	Bottled drinking water, 88
surveillance and monitoring of wildlife diseases,	Botulism
263–264	avian, <i>see</i> Avian botulism
wildlife as disease delivery systems, 260-261	in biowarfare/bioterrorism, 245, 352
"BioWatch Initiative." 243	foodborne, 89, 215

human disease, 25 Botulism-intoxication, in waterbirds, 75 Bovine genital campylobacteriosis, in biowarfare/bioterrorism, 349 Bovine spongiform encephalopathy, 226, 247 in biowarfare/bioterrorism, 348 costs incurred by society from, 138	fauna affected, 317 foodborne, 85–86, 92 geographic area affected, 317 migratory birds as reservoirs for, 87 waterborne, 88 Canada geese aspergillosis in, 227
crossing species barriers, 101 foodborne, 85 human disease, 25	captive propagation of, 145, 158 lead poisoning in, 214 nonmigratory urban populations of, 102
Bovine tuberculosis, <i>see</i> Tuberculosis, bovine	translocations of, 141
Bovine viral diarrhea, in bison, 155 Brain abscess, in deer, 224–225	Canadian Cooperative Wildlife Health Centre, 133, 262–263
Brevetoxicosis	Canadian Cooperative Wildlife Health Centre Newslet
fauna affected, 321	ter, 290
geographic area affected, 321	Cane rat, game ranching, 152
in manatees, 49	Canids
Brown tides, 48	canine distemper virus in, 81
Brucellosis	canine parvovirus in, 80
in biowarfare/bioterrorism, 246, 256, 349 in bison, 105, 151, 225	human diseases from bites/scratches, 197 wild
in caribou, 225	canine parvovirus in, 160
in elk, 105, 172, 175, 225	heartworm from domestic animals, 160
fauna affected, 316–317	Canine distemper virus
in feral swine, 225	adaptation and change, 106
foodborne, 84	in biowarfare/bioterrorism, 242
geographic area affected, 316–317	fauna affected, 313
information sources, 284	in felids, 83
in marine mammals, 55–56, 58	geographic area affected, 313
zoonoses-specific publications, 282	in lions, 76, 80, 83, 242
Brush-tailed possum, 149	in marine mammals, 54, 242
Buffalo	Canine parvovirus
bovine tuberculosis in, 242	fauna affected, 313 geographic area affected, 313
rinderpest in, 76 Bullet fragments, in game meat, 211	in wild canids, 80, 160
Bungarotoxins, in biowarfare/bioterrorism, 352	Canning, of game meat, 215
Burkholderia mallei, see Glanders	Capillariasis
Burkholderia pseudomallei, see Melioidosis	in biological control of vertebrates, 261
Bush meat, 130, 160–161	in mice, 261
B-virus, 100	Capnocytophaga canimorsus, from animal bites, 93–94
C	Caprine arthritis/encephalitis, in biowarfare/bioterrorism, 346
CAB Abstracts (database), 294 Caged birds, 94–95	Captive-propagated wildlife, 83, 139, see also Game
ornithiosis in, 12	ranching
translocations of, 150 Caimans, game ranching, 153	birds and mammals for recreational hunting, 142, 145
Calicivirus, in marine mammals, 56–57	movement of pathogens between facilities and sur-
California Raptor Center, 173	roundings, 140, 143
Camping, 5, 8	national wildlife health strategy, 178–179
Campylobacteriosis	released animals, 106, 130
in biowarfare/bioterrorism, 349	health certification of, 158–159, 177
companion animals as sources of, 94	waterfowl, 158
	waterfowl health regulation, 158

Capture myopathy, 217	in biowarfare/bioterrorism, 349
Capybara	companion animals as sources of, 94
capybara meat, 165–166	fauna affected, 317
game ranching, 152	geographic area affected, 317
Carcass	in migratory birds, 31
assessment of	pathogen characteristics, 16
external examination, 212–214	in waterbirds, 73
internal examination, 213-217	in wildlife rehabilitation facilities, 13
diseased, contamination of water supply with, 245	Cholera, 97, 106
handling and processing of, 210-211	avian, see Avian cholera
Caribou	in ballast water, 105
brucellosis in, 225	in biowarfare/bioterrorism, 234, 237, 247, 349
caribou meat, 215, 218	epidemics and pandemics of, 40
myiasis in, 218	foodborne, 86, 89
Carnivores	marine environment and, 40
feeding on carcasses or discarded viscera, 211	Snow's investigation of, 9
human diseases from bites/scratches, 197	Cholesterol content, of game meat, 151
tapeworm life cycle, 211, 213	Chronic wasting disease (CWD), 177
terrestrial, contact with seals, 54–55	costs incurred by society from, 138
Carp, spring viremia of, 68–71, 315, 348	in deer, 32–33, 80, 83, 155, 172, 175, 226–227
Carrier, 12	in elk, 33, 80, 83, 155, 172, 175, 226–227
Castor bean poisoning, 105	eradication and prevention activities, 33
Cat fleas, 195	fauna affected, 316
Cats	game ranching and, 154
cat feces, 222	geographic area affected, 316
domestic, 12, 30, see also Companion animals	social and economic impact of, 32–34
feline panleucopaenia in, 261	Chytridiomycosis
feral, 261	in amphibians, 21, 63–67
Cat scratch disease, companion animals as sources	fauna affected, 319
of, 94–95, 195	geographic area affected, 319
Cattle	• • .
	Ciguatera fish poisoning, 87 in biowarfare/bioterrorism, 352
agroterrorism targets, 248–249	
bovine tuberculosis in, 242	increase in occurrence of, 49
rinderpest in, 242	Citrobacter, human disease from animal bites/scratch-
caza, 160–161	es, 197
CDC, focusing on emerging diseases, 23	Citrus canker, in biowarfare/bioterrorism, 257, 349
Central European encephalitis, in biowarfare/bioterror-	Civet cats, as origin of SARS virus, 164
ism, 250, 348	Clams
Ceratomyxa shasta	disseminated neoplasia in, 53, 322
fauna affected, 319	domoic acid in, 49
geographic area affected, 319	hard, 52
Cervids	marine, 47
chronic wasting disease in, 33	quahog parasitic unknown disease in, 52
game ranching, 151–152, 154	soft-shelled, 53
Cetaceans, 51–59	Clinostomum complanatum, see Yellow grub
Chemical weapons, 240–243	CLOD, see Coralline lethal orange disease
Cheyletiella, companion animals as sources of, 95–96	Clostridium, human disease from animal bites/
Chickens, commercial, 72	scratches, 197
Chimpanzees, human diseases in, 163	Clostridium botulinum, see Botulism
Chinchilla, game ranching, 149	Clostridium perfringens toxin
Chipmunks, translocations of, 147	enterotoxemia in wild birds, 105
Chlamydia psittaci, see Ornithosis	foodborne, 89
Chlamydiosis, 16	Coadaptation, between hosts and pathogens, 25
in amphibians, 65	Coastal regions, 39–41

cholera in waters of, 40	pocket pets, 195
Coatimundi, rabies in, 164	rabies in, 94
Coccidioidomycosis	rat-bite fever in, 94
fauna affected, 319	ringworm in, 95
geographic area affected, 319	Rocky Mountain spotted fever in, 94, 96
human disease, 13, 25	roundworms in, 96
in sea otters, 60–61	salmonellosis in, 94
travel-associated, 203	scabies in, 95–96
Cod worm, 31	sporotrichosis in, 95
Coffee berry disease, in biowarfare/bioterrorism, 257,	tetanus in, 94
350	toxoplasmosis in, 95–96
Collared peccaries	tularemia in, 94–96
game ranching, 152	viral diseases transmitted by, 93
peccary meat, 166	wildlife as pets, 12, 161–166, 168–171
translocations of, 147	yersiniosis in, 94
The Coming Plague: Newly Emerging Diseases in a	Conjunctivitis, house finch, 77–78, 81–82, 172,
World Out of Balance, 285	175–176
Commercial activities, 148–166	Contagions, 233
international, 105–106	Contagious agalactia, in biowarfare/bioterrorism, 349
Common eider, 55	Contagious bovine pleuropneumonia, in biowarfare/
Companion animals	bioterrorism, 255
acquisition of pathogens from wildlife, 93	Contagious equine metritis, in biowarfare/bioterrorism,
arthropod parasites of, 95–96	349
bacillary angiomatosis and, 96	Containment, 103
bacterial diseases transmitted by, 93	Containment facilities, 135
campylobacteriosis in, 94	Contaminated waters, 12, 37, 39, 199
Capnocytophaga in, 94	cholera in marine environment, 40
cat scratch disease in, 94–95	contact with, 10, 15, 31, 85, 195
Cheyletiella in, 95–96	cryptosporidiosis, 86, 89, 92
chlamydiosis in, 94	diseased carcasses as bioweapons, 245
commercial trade in, 99, 152–153, 156–157	Escherichia coli, 87
cryptococcosis in, 95	ingestion of, 10, 31, 195
cryptosporidiosis in, 95	Contracaecum corderoi
disease emergence and, 93–97	fauna affected, 320 geographic area affected, 320
immunocompetency and, 96–97 diseases in, economic and social costs of, 136	
	Coping with Diseases at Bird Feeders, 172 Coral
disease transmission to humans, 10, 30–31 disease transmission to wildlife, 11, 30, 160	black-band disease of, 42
echinococcosis in, 95	common and scientific names of, 335–336
feeding game meat to, 209	dark-spot disease of, 44
giardiasis in, 95–96	hard, 41–42
health hazards associated with, 93–96	rapid wasting disease of, 44
hookworms in, 96	red-band disease of, 43
human wellness and, 97	scleractinian, 42–44
larva migrans in, 95–96	soft, 41–42
leptospirosis in, 94	white-band disease of, 41, 43
Lyme disease in, 94, 96	white plague of, 44
lymphocytic choriomeningitis virus in, 94	white pox disease of, 44
melioidosis in, 94	yellow-band disease of, 43–44
Mycobacterium marinum in, 94	Coral bleaching, 46–47
nursing home visits by, 96	Coral disease, 321
Pasteurella multocida in, 94–95	Coral Health and Disease (book), 284
percentage of households with pets, 93	Coralline algal disease, 44–45
plague in, 94, 96	Coralline lethal orange disease (CLOD), 44–46
	• • • • • • • • • • • • • • • • • • • •

Coral reef communities, 41–47	Cutaneous larva migrans, companion animals as
Cormorants	sources of, 95–96
avian cholera in, 62	CWD, see Chronic wasting disease
domoic acid poisoning in, 49	Cyanobacteria, 43
Newcastle disease virus in, 72-73	Cyanobacterial blooms, 48
Corynebacterium, human disease from animal bites/	Cyclospora cayetanensis, foodborne, 86, 89
scratches, 93, 197	Cysticerci, 213
Corynebacterium diphtheriae, see Diphtheria	Cysticercosis
Cougar jerky, 31, 91, 215, 222	in biowarfare/bioterrorism, 351–352
Countering Agricultural Bioterrorism, 247	in moose, 218, 221, 223
Cowdriosis, in biowarfare/bioterrorism, 254, 350	
Coxiella burnetti, see Q fever	D
Coyotes	Dom construction 00 104 105
human diseases from bites/scratches, 197	Dam construction, 99, 104–105
mange in, 260–261	Damselfish neurofibromatosis, 50, 322
tapeworm life cycle, 211, 213	Dark-spot disease, of coral, 44
tapeworms in, 36	"Dark Winter," 236
translocations of, 156	Databases, on-line
Crabs	fee-based, 291, 294
domoic acid in, 49	free, 289–290, 293
shell disease in, 53, 322	Day care programs, 99
Cranes, inclusion body disease in, 105	Deboning, 227
Crayfish plague	Deer
fauna affected, 319	anthrax in, 76
geographic area affected, 319	bluetongue virus in, 214
CRC Handbook Series in Zoonoses, 280–281	bovine tuberculosis in, 80, 83, 154–155, 172, 175,
	224–225
Creutzfeldt-Jakob disease, 226	brain abscesses in, 224–225
new variant, 33, 85, 226	captive propagation and release for hunting, 145
Crimean-Congo hemorrhagic fever, in biowarfare/bioterrorism, 250, 346	chronic wasting disease in, 32–33, 80, 83, 155,
Crocodiles	172, 175, 226–227
crocodile meat, 165	cutaneous fibroma in, 224, 226
game ranching, 153–154, 156, 165	deer meat, 33, 151, 165, 215, 218, 228
as pets, 167	Escherichia coli O157:H7 in, 13, 31, 91, 215
Cropping patterns, 105	feeding by humans, 34, 172, 175
Crows, West Nile fever in, 34, 37, 76, 81	game ranching, 33, 151-152, 154-155, 165
Cruise ships, 193, 201	hemorrhagic disease of, 226–227
	Johne's disease in, 155
Crustaceans, marine, 47 Cryptobia branchialis	leptospirosis in, 155
fauna affected, 319	liver flukes in, 218, 220–221, 223
geographic area affected, 319	malignant catarrhal fever in, 154-155
	necrobacillosis in, 155
in tilapia, 71	pasteurellosis in, 155
Cryptococcosis, companion animals as sources of, 95	scours in, 155
Cryptosporidiosis	staphylococcal disease in, 31
in biowarfare/bioterrorism, 247, 351	streptothricosis in, 198, 225
companion animals as sources of, 95	translocations of, 141, 147
costs incurred by society from, 138	yersiniosis in, 154–155
fauna affected, 319	Deforestation, 99, 105
foodborne, 86	Demodectic mange, 218
geographic area affected, 319	Dengue fever, 29, 102
waterborne, 88	Department of Homeland Security, 243, 258
in Milwaukee, Wisconsin, 40, 106	Departments of Natural Resources, 259
Current Contents (database), 294	Dermatophilosis, in biowarfare/bioterrorism, 350
Cutaneous fibroma, in deer, 224, 226	

Dermatophilus congolensis, see Streptothricosis Disease expansion, 98 Dermatophytosis, see Ringworm Disease for Our Future, 285 Dermocystidium, in amphibians, 65 Disease Information (report), 283 Dermo disease Disease prevention, 135 fauna affected, 319 infrastructure needs, 180 geographic area affected, 319 national wildlife health strategy, 179 in oysters, 53 regulatory needs, 174-180 Dermosporidium Diseases and Parasites of White-tailed Deer, 286 in amphibians, 65 Diseases of Amphibians and Reptiles, 286 fauna affected, 319 Diseases of Animals in Relation to Man, 280-281 geographic area affected, 319 Diseases of Aquatic Organisms, 290 Desulfovibrio, 42 Diseases of Man Acquired from his Pets, 280 Developmental host, 36 Diseases of Marine Mammals, 286 Diamondback terrapin, 157 Diseases of the Reptilia, 286 Diatoms, 104 Diseases of Wildlife in Wyoming, 287 Diseases of Wild Waterfowl, 286 Diclofenac, 321 Dinner, Pets, and Plagues by the Bucketful, 285 Diseases Transmitted from Animals to Man, 280-281 Dinoflagellates, 48-49, 87 Disease surveillance, 30, 132, 135 Diphtheria, 106 Disease transmission Diphyllobothrium latum, 222 from humans to wildlife, 5-7, 11 from wildlife to humans, 5-7, 15 Direct contact, disease transmission by, 10, 31 Dirofilaria immitis, see Heartworm Disseminated neoplasia, in clams, 53, 322 Disarmament, 236 Dogs Disease carriers, 148 canine distemper in, 54, 242 Disease control domestic, 12, 30, see also Companion animals infrastructure needs, 180 feral, 54 national wildlife health strategy, 180 wild, 260 regulatory needs, 174-180 Dogs, Zoonoses, and Public Health, 93, 280 Disease cycle, 14 Dog tapeworm, in rabbits, 218, 220, 223 Disease diagnosis, 132, 134 Dolphin morbillivirus, 54-55 Disease ecology, 7-11, 14 fauna affected, 313 Disease emergence geographic area affected, 313 companion animals and, 93-97 Dolphins, 51-56, see also Marine mammals concepts in, 21-26 immunoblastic malignant lymphoma in, 322 defining disease, 21 pulmonary carcinoma in, 322 evolutionary considerations, 24-25 Domestic animals, 301, see also Companion animals factors contributing to, 97-107 agroterrorism, 247-249 foodborne diseases, 30-31, 84-92 animal disease programs, 132-135 in free-ranging wildlife, 30, 38-84, 179 animal wastes, 103-104 in freshwater aquatic environments, 63-75 diseases in, economic and social costs of, 136, 138 human factors in, 26-30, 99, 102-106 diseases transmitted to humans by, 7 human-wildlife interfaces, 130-174 disease transfer between wild and domestic speincreased attention to, 22-23 cies. 242 in marine environment, 39-63 West Nile virus in, 79 new challenges and opportunities, 22-23 Domoic acid, 25, 49, 103 pathogen factors in, 21-24, 98-101, see also fauna affected, 321 Pathogens geographic area affected, 321 Dothistroma needle blight, in biowarfare/bioterrorism, perspectives on, 26-38, 83-84 steps in process, 98 257, 350 in terrestrial environment, 75-84 Dourine, in biowarfare/bioterrorism, 351 toxins and, 48-49 Doves, trichomoniasis in, 175, 218, 220, 222 wildlife and zoonoses, 30-38 Drinking water, 31, 84, 88 bottled, 88 zoonoses and, 30-31 Disease establishment, 98-99 water treatment, 84

Duck plague	Elderly, companion animal contacts, 96–97
in biowarfare/bioterrorism, 242	Electronic publishing, 276, 278, 289
in captive-bred waterfowl, 156	Elephant herpesvirus, 150
fauna affected, 313	fauna affected, 313
geographic area affected, 313	geographic area affected, 313
in mallard ducks, 214	Elephants, translocations of, 150
in waterfowl, 71–72, 97, 158–159, 242	Elephant shrew, monkeypox in, 168
Ducks	Elk
avian cholera in, 62	bovine tuberculosis in, 172, 175, 225
domestic, 71	brucellosis in, 105, 172, 175, 225
game ranching, 153	chronic wasting disease in, 33, 80, 83, 155, 172,
type E botulism in, 21	175, 226–227
Duck virus enteritis, see Duck plague	elk meat, 151, 215
Duck virus hepatitis	feeding by humans, 172, 174-175
in biowarfare/bioterrorism, 346	game ranching, 33, 151-152, 154
susceptibility to, 103	translocations of, 141, 147
Dysentery, in biowarfare/bioterrorism, 234	Elkhorn coral, 41
_	The Emergence of New Diseases, 285
E	Emerging diseases, see also Disease emergence
Eared grebes, mass mortality among, 75, 322	defined, 21
Eastern equine encephalitis	social and economic impacts of, 32-35
in biowarfare/bioterrorism, 247, 256, 346	Emerging Infectious Diseases (journal), 23, 292
fauna affected, 313	Encyclopedias, 288
geographic area affected, 313	Endangered species, jurisdiction and regulatory au-
Ebola virus	thorities for stewardship of, 259
in biowarfare/bioterrorism, 245, 346	Endemicity, 98
crossing species barriers, 100	Enterobacter, human disease from animal bites/
fauna affected, 313	scratches, 197
geographic area affected, 313	Enterotoxins
in nonhuman primates, 162	in biowarfare/bioterrorism, 246, 352
zoonoses-specific publications, 282	human disease, 25
Echinococcosis, 16, see also Hydatid disease	Environmental change, 99
companion animals as sources of, 95	Environmental quality, 131
Echinoderms, common and scientific names of, 336	Enzootic abortion of ewes, 349
Eco-challenge athletes, 195	Enzootic bovine leukosis, in biowarfare/bioterrorism,
Ecological disturbances, 26–27, 99	346
Economic development, 104–105	Enzootic diseases, 5, 38
Economics	Epidemics
of ecotourism, 161	cholera, 40
of wildlife diseases, 131, 138	historic publications on, 9
Ecosystem alterations, 1, 40	"virgin soil epidemics," 97
Ecosystem factors, 179	Epidemic typhus, in biowarfare/bioterrorism, 247
Ecosystem health, 131	Epidemiological Bulletin, 292
Ecosystem stress, 83	Epizootic hematopoietic necrosis, in finfish, 70
Ecotourism, 5, 12, 83–84, 90, 130–131, 148, 154,	Epizootic hemorrhagic disease
156, 160, 193	in deer and antelope, 226–227
economic returns, 161	fauna affected, 313
game meat consumption and, 209	geographic area affected, 313
loving primates to death, 162–163	Epizootic infectious anemia, in biowarfare/bioterror-
Egrets, salmonellosis in, 78	ism, 346
Egtved disease, <i>see</i> Viral hemorrhagic septicemia	Epizootic lymphangitis, in biowarfare/bioterrorism, 350
Ehrlichiosis, crossing species barriers, 101	Epizootics, historic publications on, 9
Elands, rinderpest in, 76	Epizootic ulcerative syndrome
,,	fauna affected, 319

in finfish, 50	geographic area affected, 313
geographic area affected, 319	Feline leukemia virus
Equine influenza, in biowarfare/bioterrorism, 346	fauna affected, 313
Equine piroplasmosis, in biowarfare/bioterrorism, 351	geographic area affected, 313
Equine rhinopneumonitis, in biowarfare/bioterrorism,	Feline panleucopaenia
346	in biological control of vertebrates, 261
Equine viral arteritis, in biowarfare/bioterrorism, 346	in cats, 261
Eradication, of smallpox, 26	Ferrets, 94–95
Ergot, in biowarfare/bioterrorism, 257, 351	Fetus, toxoplasmosis in, 96
Erysipelas	Fibroma
fauna affected, 317	cutaneous, in deer, 224, 226
geographic area affected, 317	in squirrels, 226
human disease from animal bites/scratches, 197	Fibropapillomatosis, in turtles, 51, 313
human disease from handling wildlife, 198	fauna affected, 313
in marine mammals, 56, 58, 198	geographic area affected, 313
Erysipeloid, 6	Field dressing, 211
Erysipelothrix rhusiopathiae, see Erysipelas	Field guides, 287–288
Escherichia, human disease from animal bites/	Field Guide to Wildlife Diseases—General Field Pro-
scratches, 197	cedures and Diseases of Migratory Birds, 288
Escherichia coli	Field Manual of Wildlife Diseases—General Field
enterohemorrhagic, 352	Procedures and Diseases of Birds, 288
enterotoxigenic, 86, 89	Field Manual of Wildlife Diseases in the Southeastern
foodborne, 103	United States, 288
Escherichia coli O157:H7	Filter feeders, 209
in biowarfare/bioterrorism, 246, 349	Finfish, see also Aquaculture
chronic sequelae of infection, 92	Asian tapeworm in, 69
in deer meat, 13, 31, 91, 215	bacterial kidney disease in, 71
foodborne, 85–87, 89, 92	black spot/grub in, 219
sources of human infections, 87	common and scientific names of, 336–338
Escherichia vulneris	diseases notifiable to OIE, 70
fauna affected, 317	epizootic ulcerative syndrome in, 50
geographic area affected, 317	as food, 39, 228
Estuarine regions, 47–50	food demands for, 140
Etiologic agents, see Pathogens	freshwater, 68–71
European brown hare syndrome	foodborne diseases, 86–88
fauna affected, 313	furunculosis in, 225
geographic area affected, 313	gyrodactylosis in, 71
European cervid herpesvirus, 155	herpesvirus in, 51
European foulbrood, in biowarfare/bioterrorism, 349	heterosporis in, 219
Eustrongylides, 222, 224	human disease from bites/scratches, 197
Eutrophication, 105	ich in, 218
Extreme athletes, 195	infectious pancreatic necrosis virus in, 71
F	introductions, unauthorized, 71
•	iridovirus in, 47
Factories of Death, 234	jurisdiction and regulatory authorities for steward-
Fascioloides magna, see Liver flukes	ship of, 259
Fat content, of game meat, 151	lamprey scars, 213, 216
Feathers, 153	marine, 39, 47–51
Feedlots, 103–104	mycobacteriosis in, 50
Feed station circuit, 172	nodavirus in, 47 sportfishing, 142, 146
Felids, canine distemper virus in, 83	Streptococcus iniae in, 50
Feline immunodeficiency virus	tumors of, 213, 216
fauna affected, 313	thorny-headed worms in. 218

Finfish—Continued	guidelines for meat consumption, 209–216
type E botulinum toxin in, 21–24, 31, 212	hepatitis A, 87–89
viral diseases of, 70	listeriosis, 85–86, 89, 92
white grub in, 219	morbidity and mortality from, 84-85
yellow grub in, 219	norovirus, 88–89
Fire blight, in biowarfare/bioterrorism, 257, 349	Norwalk-like virus, 86–88
Fish, see also Aquaculture; Finfish; Shellfish	parasitic, 84, 86–87
aquarium, 94–95, 105, 166	perspectives on, 91
ornamental, 166	prion diseases, 85–86
Fish and Fisheries Worldwide (database), 294	risks of "going native," 90–91
Fish and Wildlife Service, 259	rotavirus, 86
Fish-cleaning stations, 211	salmonellosis, 85–86, 89, 92, 103
Fish culture, 47	seafood, 86–89, 104
Fish Disease Diagnosis and Treatment, 286	shigellosis, 89
Fish Diseases and Disorders, 286	staphylococcal, 89
Fish Diseases Commission (OIE), 71	streptococcal, 84
Fish-handler's disease, 50	toxoplasmosis, 85, 88, 92
Fish hatchery, 47, 71, 142, 144, 146	transitions and transgressions, 84–90
birds feeding at, 71	trichinosis, 13, 84, 90–92, 215
specific-pathogen free, 142	tuberculosis, 84
Fish Health Policy (USFWS), 142	tularemia, 88–89
Fish health programs, 142, 144, 146	•
Fishing, 139	Vibrio, 86, 88
	viral, 84, 86
fee-based, 130, 154–156	yersiniosis, 85–86
Flavobacterium, 51	Food practices, 99
Fleas	Food processing, 103
of companion animals, 96, 195	Food wastes, ecotourism-related, 160
delivery system for biowarfare, 234	Food web, 41
Flea-vectored diseases, 195	Foot-and-mouth disease
Flies, protecting carcass from, 210	in biowarfare/bioterrorism, 251, 255, 257, 346
Florida Ioon mortality, 322	costs incurred by society from, 138, 248
Flyways, 102	Fowl typhoid, in biowarfare/bioterrorism, 349
Foodborne diseases, 199, 209–228, see also Game	Foxes
meat	captive propagation and release for hunting, 145
anisakiasis, 86–87, 89	fox chasing, 156
astrovirus, 86	fox farming, 149
Bacillus cereus, 89	mange in, 220
bacterial, 84, 86	rabies in, 83
in biowarfare/bioterrorism, 246	translocations of, 156
botulism, 89, 215	Fox squirrels, translocations of, 147
bovine spongiform encephalopathy, 85	Francisella tularensis, see Tularemia
brucellosis, 84	Free-ranging wildlife, 5, see also Human-wildlife inter-
campylobacteriosis, 85-86, 92	faces
cholera, 86, 89	disease emergence in, 38–84
chronic sequelae or disability with, 91–92	diseases in, economic and social costs of, 136-139
Clostridium perfringens, 89	disease surveillance in, 30
"conditions/things" encountered, 216–228	disease transfer between wild and domestic spe-
cryptosporidiosis, 86, 89, 92	cies, 242
Cyclospora, 86, 89	information sources, 286–287
emergence of, 30–31	jurisdiction and regulatory authorities for steward-
emerging diseases, 84-92	ship of, 259
Escherichia coli, 103	national wildlife health strategy, 179
Escherichia coli O157:H7, 85-87, 89, 92	public ownership of, 136–139
fruits and vegetables, 88-89	·

Freshwater aquatic environment	home preparation of, 215
amphibians, 63–68	in human diet, 166
disease emergence in, 63-75	learning about local area, 209-210
fish, 68–71	parasites encountered in, 216–222
waterbirds, 71–75	potential bacterial diseases, 222–225
Frogs, see also Amphibians	potential fungal diseases, 227-228
game ranching, 153	potential prion diseases, 226–228
Frog virus-3, 64	potential toxin exposure, 228
Fruit bats, viruses carried by, 37	potential viral diseases, 224–226
Fruits, foodborne diseases, 88–89	preserving and preparing for consumption, 211-212
Fungal diseases	primary source of, 211
biowarfare/bioterrorism agents, 350-351	role in diet, 211
companion animals as sources of, 95	sporadic consumers of, 209
fauna affected, 319	Game ranching, 33, 130, 148–154, 160
game meat and, 227–228	exotic species, 157
geographic area affected, 319	mixed game and cattle ranches, 149
human disease from animal bites/scratches, 197	Geese, 71
human disease from handling wildlife, 198	avian cholera in, 224
pathogen characteristics, 16	game ranching, 153
sources of human disease, 25	Geneva Convention, 240
travel-associated, 203	Gerbils, 195
Fur farming, 149	Giardiasis
Furunculosis	in aquatic rodents, 31
fauna affected, 317	in beavers, 37
in fish, 225	companion animals as sources of, 95–96
geographic area affected, 317	fauna affected, 319
Fusarium semitectum, see Necrotizing scute disease	geographic area affected, 319
Fusobacterium, human disease from animal bites/	human disease, 25
scratches, 197	waterborne, 37, 88
Fusobacterium necrophorum, see Necrobacillosis	zoonoses-specific publications, 282
G	gibier, 160–161
u	Giraffes, rinderpest in, 76
Galapagos Islands giant tortoise mortality, 322	Gizzard worms, in upland game birds, 218
Gambian rats, monkeypox in, 168–171, 177	Glanders, in biowarfare/bioterrorism, 234, 237,
Gambierdiscus toxicus, 87	245–246, 248, 256, 350
Game farming, 148, 158–159	Global commerce, 201
Game meat, 8, 10, 15, 31, 90–92, 130, 148–149,	Gloves, disposable, handling carcasses, 211, 227–
152–153, 160–161, 195, 209–228, <i>see also</i>	228
Foodborne diseases	Gnathostomiasis
assessment of carcass	foodborne, 87 travel-related, 195
external examination, 212–214	Goat pox, in biowarfare/bioterrorism, 252, 255, 348
internal examination, 213–217	Golden lion tamarins, captive-bred, 178
carcass handling and processing, 210-212	Gorgonians, 42
characteristics of consumers in USA, 211	Gorillas
"conditions/things" encountered, 216–228	ecotourism and, 160
countries providing, 165	human diseases in, 163
deciding what to eat, 228	Gray squirrels
demands for, 228	
economic value of, 160, 164	fibromas on, 226 translocations of, 150
fat and cholesterol content of, 151	Green pythons, ranavirus infections in, 81
food, cultural, and social needs for, 209-211	Green sea urchin disease
foodborne diseases, 88–89	fauna affected, 319
guidelines for consumption, 209–216	geographic area affected, 319
	goograpino aroa anotica, o ro

Green turtles, 51	Hendra virus, crossing species barriers, 37–38, 100
Ground squirrels, tularemia in, 260–261	Hepatitis A virus, foodborne, 87–89
The Grouse in Health and in Disease, 277	Herons, salmonellosis in, 78
Guillain-Barré syndrome, 92	Herpesvirus, 16
Guinea pigs, 195	in elephants, 150
Gulls	in finfish, 51
avian cholera in, 62	human disease from animal bites/scratches, 197
type E botulism in, 21	Heterosporis
Gumboro disease, see Infectious bursal disease	fauna affected, 320
Guns, Germs, and Steel, 285	in fish, 219
Gymnodinium breve, 49	geographic area affected, 320
Gyrodactylosis	in yellow perch, 68
fauna affected, 320	Hiking, 5, 8
in finfish, 71	Hippocrates, 9, 11
geographic area affected, 320	Histomoniasis, in upland game birds, 218, 222
ш	Histoplasmosis, 16
Н	human disease, 25
HAB, see Harmful algal blooms	routes for human exposure to, 15
Habitat loss, 179	travel-associated, 203
Hamsters, human disease from bites/scratches,	Historic literature, 9–10, 276–277
94–95, 195, 197	History of Animal Plagues of North America, 276
Handbook of Diseases of Saskatchewan Wildlife, 288	HIV/AIDS, 5, 7, 22, 29, 38, 92, 97, 136, 193
Handbook of Trout and Salmon Diseases, 286	crossing species barriers, 100
Handbook of Zoonoses, 280	human disease from handling wildlife, 198
Handbooks, 288	pandemic, 160
Hantavirus, 13	people living with in 2002, 32
in biowarfare/bioterrorism, 250, 347	social impact of, 32
crossing species barriers, 101	Hog cholera
in rodent feces/urine, 15	in biowarfare/bioterrorism, 251
Haplosporidiosis, in oysters, 52	fauna affected, 313
Hard coral, 41–42	geographic area affected, 313
Harmful algal blooms (HAB), 48-49	in wild boar, 80
Hatchery stock, 47	Hookworms, companion animals as sources of, 96
Health, overoptimistic expectations of, 26–27	Horse pox, in biowarfare/bioterrorism, 347
Health advisories, game meat, 228	Horses
Heartwater, in biowarfare/bioterrorism, 254, 350	agroterrorism targets, 248
Heartworm	as pets, 94–95
fauna affected, 320	Hosts, 11, 14
geographic area affected, 320	amplification, 37
in wild canids, 160	coadaption of hosts and pathogens, 25
in wolves, 160	dead-end, 11
Heavy metals, 25	developmental, 36
Helicobacter	intermediate, 98
fauna affected, 317	reservoir, 47, 98, 168–169
geographic area affected, 317	The Hot Zone, 285
Helminths, 98	Hounds, 156
Hemolytic uremic syndrome, 92	House finch conjunctivitis, 77–78, 81–82, 172, 175–
Hemorrhagic disease	176
of antelope, 226–227	Human demographics 102
of deer, 226–227	Human dispass programs 132–135
Hemorrhagic fever with renal syndrome, in biowarfare/	Human disease programs, 132–135
bioterrorism, 250, 347	Human diseases, economic and social costs of, 136
Hemorrhagic septicemia, in biowarfare/bioterrorism,	Humanitarian activities, in developing countries, 13
350	Transantanan adavides, in developing countries, 15

Human population growth, 129	human mortality in USA, 26
Human-wildlife interfaces, 130–174	Infectious Diseases of Wildlife: Detection, Diagnosis
commercial activities, 148–166	and Management, 287
linkages and differences, 131-139	Infectious Diseases of Wild Mammals, 283, 286
need for changes, 174-180	Infectious hematopoietic necrosis, in finfish, 70
wildlife feeding, 172–177	Infectious keratoconjunctivitis
wildlife management activities, 139-148	fauna affected, 317
wildlife rehabilitation, see Wildlife rehabilitation	geographic area affected, 317
Hunter education specialists, 210	in wildlife, 80
Hunting, 8, 131, 139, 142, see also Game meat	Infectious pancreatic necrosis
fee-based, 130, 154-156, 158-159	fauna affected, 314
impact of CWD in deer, 32-33	in finfish, 71
market, 139	geographic area affected, 314
private shooting preserves, 139–140, 143, 149, 154, 156, 158–159	Infectious pustular vulvovaginitis, in biowarfare/bioter rorism, 347
social and economic effects of, 144	Infectious salmon anemia, 50
subsistence, 160	fauna affected, 314
Hydatid disease, 16, 83	geographic area affected, 314
in biowarfare/bioterrorism, 352	Influenza
in foxes and coyotes, 6, 36, 156	avian, <i>see</i> Avian influenza
human disease, 25, 83	in biowarfare/bioterrorism, 255
zoonoses-specific publications, 282	crossing species barriers, 100
200110300 0000110 0001100110110, 202	fauna affected, 314
I	genetic recombination in virus, 36
	geographic area affected, 314
Ich, in fish, 218	in marine mammals, 55–57
Ichthyophonus	in migratory birds, 36
in amphibians, 64	in shorebirds, 36
fauna affected, 319	Information brokerage services, 293
geographic area affected, 319	Information sources, 275–295
Iguanas	abstracting services, 289–294
commercial production of, 156	abundance of, 16
game ranching, 153	biowarfare/bioterrorism, 238–239
as pets, 93, 166–167	books, 288–289
salmonellosis in, 166, 198	changes in style and content over time, 276–279
Immunoblastic malignant lymphoma, in dolphins, 322	field guides, 287–288
Immunocompromised individuals, 96–97, 193	free-ranging wildlife, 286–287
Inclusion body disease, in cranes, 105	general compendiums on zoonoses, 280–281
Index case, 83	handling and processing of wild game, 210
Indexing services, 289–294	historic literature, 9–10, 276–277
Industrialization, 99	indexing services, 289–294
Infectious and Parasitic Diseases of Wild Birds, 283,	journals (periodicals), 278–279, 289, 292, 295
286	news media, 23, 293
Infectious bovine rhinotracheitis	pathfinding, 287–295
in biowarfare/bioterrorism, 347	pathogens, 276
in bison, 155	popular literature, 23, 285
Infectious bursal disease	pre-1980 books, 277
in biowarfare/bioterrorism, 347	publications of symposium and professional meet-
fauna affected, 314	ings, 281, 284
geographic area affected, 314	
in marine birds, 62–63	travel medicine, 202–203
Infectious diseases	wildlife disease literature, 283–290
in 21st century, 28–29	zoonoses, 276–283
eradication of, 26–27	Ingenta (database), 291, 293
global mortality from, 28–29	Interlibrary loan, 293

Intermediate hosts, 98 International Bird Rescue Research Center, 173 International Journal of Zoonoses, 292 International Society of Travel Medicine, 202 Intoxication, in vultures, 76, 81 Introductions, 99 Invertebrates, marine, 45 Investigation and Management of Disease in Wild Animals, 286 Iridovirus, in finfish, 47	Lead poisoning, 25 in birds feeding on corn, 103 in Canada geese, 214 Lead shot, 211 Learned journals, 278–279 Leather, see Animal hides Leeches, in amphibians, 65 Leishmaniasis, in biowarfare/bioterrorism, 351 Leporine dysautonomia, 322 Leptospirosis
J	in biowarfare/bioterrorism, 350 changing patterns of, 201
Japanese encephalitis, in biowarfare/bioterrorism, 347 Jerky, 91, 215, 222 Johne's disease in biowarfare/bioterrorism, 350 in bison, 155 in deer, 155 Journal des Scavans, 279 Journal of Aquatic Animal Health, 290 Journal of Fish Diseases, 290 The Journal of Infectious Diseases, 292 Journal of Wildlife Diseases, 283, 290 Journal of Zoo and Wildlife Medicine, 290 Juvenile oyster disease, 52–53, 322	companion animals as sources of, 94 contaminated water, 12 crossing species barriers, 101 in deer, 155 fauna affected, 317 geographic area affected, 200, 317 human disease from animal bites/scratches, 197 in marine mammals, 6, 55–56, 58 travel-related, 195 Lesser scaup, brevetoxin poisoning in, 49 Lexis/Nexis Academic Universe, 295 Leyogonimus polyoon, 75 Library catalog, 289 Library of Congress subject headings, 289
K	Library resources, see Information sources
Kangaroo meat, 165 Karnal bunt, in biowarfare/bioterrorism, 257, 351 Keywords, 289 Killer Germs: Rogue Diseases of the Twenty-First Century, 285 The Killers All Around, 285 Koi herpesvirus, 69 fauna affected, 314 geographic area affected, 314 Kudu, rinderpest in, 76 Kuru, 226 Kyasamur forest disease, in biowarfare/bioterrorism, 250, 348	Lice, 59 in harvested wildlife, 216 Limberneck, 75 Lindsay Wildlife Museum, 173 Lions canine distemper virus in, 76, 80, 83, 242 human diseases from bites/scratches, 197 tuberculosis in, 80 Listeriosis fauna affected, 317 foodborne, 85–86, 89, 92 geographic area affected, 317 Literature guide, 287–295 Liver flukes, in deer, 218, 220–221, 223 Livestock, 13, see also Agroterrorism
L	Livestock, 13, see also Agroterronsm
Laboratory-acquired infections, 10, 15 Labyrinthula, 41, 45 Lacazia loboi, see Lobomycosis Lamprey scars, 213, 216 Landscape changes, 1, 7, 26–27, 30, 83, 99, 104–106, 129, 174 Land use, 104–105 Largemouth bass virus, 69 Larva migrans, 218 companion animals as sources of, 95–96 Lassa virus, in biowarfare/bioterrorism, 245, 347	Lizards commercial production of, 156 human disease from bites/scratches, 197 Lobomycosis fauna affected, 319 geographic area affected, 319 in marine mammals, 56, 59 Lobo's disease, see Lobomycosis Lobsters, shell disease in, 53, 322 Loggerhead turtles, 51

Long-tailed ducks, adenovirus in, 63	Manual of Common Wildlife Diseases in Colorado,
Lumpy skin disease, in biowarfare/bioterrorism, 253,	288
255, 347	Marburg virus
Lyme disease	in biowarfare/bioterrorism, 245, 347
companion animals as sources of, 94, 96	crossing species barriers, 100
deforestation/reforestation and, 105	fauna affected, 314
fauna affected, 317	geographic area affected, 314
geographic area affected, 317	zoonoses-specific publications, 282
human disease, 13, 25	Marek's disease, in biowarfare/bioterrorism, 347
maintenance of tick populations, 36	Mariculture, 47
Lymphocytic choriomeningitis virus	Marine birds, 55–63
companion animals as sources of, 94	avian cholera in, 55, 62
human disease from animal bites/scratches, 197	infectious bursal disease in, 62–63
M	Marine environment
	cholera and, 40
Mad cow disease, 16, 247	coral reef communities, 41–47
Maedi-visna, in biowarfare/bioterrorism, 347	disease emergence in, 39–63 marine birds, 55–63
Malformations, in amphibians, 65, 67	marine bilds, 35–63 marine fish, 39, 47–51, 259
fauna affected, 321	marine mammals, 51–59
geographic area affected, 321	plant communities, 39–41
Malignant catarrhal fever	shellfish, 39, 47–53
in biowarfare/bioterrorism, 347	turtles, 51
in bison, 154–155	The Marine Mammal Center, 173
in captive-bred ruminants, 105–106	Marine mammals, 51–56
in deer, 154–155	bacterial diseases in, 56, 58–59
fauna affected, 314	brucellosis in, 55–56, 58
geographic area affected, 314 Mallard ducks	calicivirus in, 56–57
captive propagation and release for hunting, 143,	canine distemper virus in, 54, 242
145, 158–159	erysipelothrix in, 56, 58, 198
duck plague in, 214	fungal diseases in, 56, 59
Mammals, 38	influenza virus in, 55–57
captive propagation and release for hunting, 145	jurisdiction and regulatory authorities for steward-
common and scientific names of, 338–343	ship of, 259
marine, see Marine mammals	leptospirosis in, 55–56, 58
terrestrial, 80, 83–84	lobomycosis in, 56, 59
translocations of, 146-148	melioidosis in, 198
West Nile virus in, 75–76	morbillivirus in, 54–55
Manatees	mycobacterial disease in, 56
brevetoxin poisoning in, 49	mycoplasmosis in, 56, 58, 198
brucellosis in, 56	papillomavirus in, 55
tuberculosis in, 58	parasitic diseases of, 56, 59
Mange	poxvirus in, 56–57 Q fever in, 56, 59
in biological control of vertebrates, 261	rickettsial diseases in, 56, 59
in biowarfare/bioterrorism, 352	salmonellosis in, 56, 59
in coyotes, 260–261	sea otters and infectious diseases, 60–61
fauna affected, 320	trichinosis in, 56, 59
geographic area affected, 320	tuberculosis in, 58
in harvested animals, 216	vibriosis in, 56, 58–59
in squirrels, 218, 220	viral diseases in, 56–57
in wolves, 260	zoonoses and, 57–59
Manual of Common Parasites, Diseases and Anoma-	Marine Wildlife Veterinary Care & Research Center,
lies of Wildlife in Ontario, 288	173

Market hunting, 139	animal hosts, 169
Marteiliosis, in biowarfare/bioterrorism, 351	in biowarfare/bioterrorism, 256, 347
Masked palm civet cats, 164	crossing species barriers, 101
Mass mortality, avian, 38	disease advancement, 168, 170
Measles	early disease emergence, 168
fauna affected, 314	in elephant shrew, 168
geographic area affected, 314	in Gambian rat, 168–171
in humans, 106	human disease from animal bites/scratches, 197
in nonhuman primates, 84, 163	human disease from handling wildlife, 198
Meat, see Game meat	in humans, 168
Medicine	in porcupines, 170–171
medicinals from wildlife, 152-153, 156	in prairie dogs, 166, 169, 197–198
modern medicine, 99, 103	reservoirs and vectors, 168-170
"one medicine" concept, 131, 174	in squirrels, 168–171
Medline (database), 289, 293	USA experience, 169
Melioidosis	Monkeys, 156
in biowarfare/bioterrorism, 246, 256, 350	Monk seal morbillivirus-WA
companion animals as sources of, 94	fauna affected, 314
human disease from handling wildlife, 198	geographic area affected, 314
in marine mammals, 198	Moose
Menhaden, skin ulcers in, 48	cysticercosis in, 218, 221, 223
The Merck Veterinary Manual, 288	moose meat, 164, 166, 218, 220, 223
Mercury poisoning, 25	translocations of, 147
Metazoan parasites, pathogen characteristics, 16	Morbidity, 71
Mice	Morbidity and Mortality Weekly Report, 283
capillariasis in, 261	Morbillivirus, in marine mammal, 54-55
human disease from bites/scratches, 197	Moritella marina
Microbes, 7	fauna affected, 317
Micrococcus, human disease from animal bites/	geographic area affected, 317
scratches, 197	Mosquitoes
Microsporum, see Ringworm	abatement activities, 35
Migratory birds	in Hawaii, 98
chlamydiosis in, 31	Mosquito-vectored diseases, 31, 105, 195
dependence on wetlands, 102	Mountain goats, translocations of, 147
human behavior and, 102	Mountain gorilla, 84
influenza virus in, 36	Mousepox virus, 260
jurisdiction and regulatory authorities for steward-	Mule deer, adenovirus hemorrhagic disease in, 76, 80
ship of, 259	Mules, 244
reservoirs for Campylobacter, 87	agroterrorism targets, 248
spread of disease by, 37	Multinucleated spore unknown
West Nile virus in, 37	in biowarfare/bioterrorism, 351
Mikrocytosis	fauna affected, 319
in biowarfare/bioterrorism, 351	geographic area affected, 319
fauna affected, 320	in oysters, 52
geographic area affected, 320	Muntjac meat, 166
in oysters, 53	Musk, 151
Mink, game ranching, 149	Muskrats, tularemia in, 31, 225
Mink spongiform encephalopathy, 226	Mycobacteriosis, 6
Mirage of Health, 277	fauna affected, 317
Mites, in harvested wildlife, 216	in finfish, 50
Modern medicine, 99, 103	geographic area affected, 317
Mollusks, 104	in marine mammals, 56
marine, 47	zoonoses-specific publications, 282
Monkeypox, 164, 168–171	Mycobacterium avium, see Avian tuberculosis;

Johne's disease	Necrotizing enteritis
Mycobacterium bovis, see Tuberculosis, bovine	fauna affected, 317
Mycobacterium marinum, 50	geographic area affected, 317
companion animals as sources of, 94	Necrotizing scute disease, 78
Mycobacterium tuberculosis, see Tuberculosis	fauna affected, 319
Mycoplasma agassizii, 78	geographic area affected, 319
Mycoplasma conjunctivitis	Nematodes, in sea otters, 61
fauna affected, 317	Nest boxes, 172
geographic area affected, 317	Neurovisceral toxic syndrome, 104
Mycoplasma gallicepticum, see House finch conjunc-	Newcastle disease
tivitis	in biowarfare/bioterrorism, 242, 252, 255, 257, 348
Mycoplasma phocacerebrale, 58	in birds, 242
Mycoplasmosis	costs incurred by society from, 138
in biowarfare/bioterrorism, 349	fauna affected, 314
in marine mammals, 56, 58, 198	geographic area affected, 314
Mycotoxicosis	information sources, 284
in birds, 105	routes for human exposure to, 15
fauna affected, 321	velogenic virus, 72
geographic area affected, 321	in waterbirds, 71–73
in sandhill cranes, 76	New England Journal of Medicine, 283
Myiasis	New Jersey Atlantic brant mortality, 322
in biowarfare/bioterrorism, 254, 352	The New Killer Diseases, 285
in mammals, 218	News media, 23, 293
Myxobolus cerebralis, see Whirling disease	Newspapers, 293, 295
Myxomatosis	News reader service, 293–294
in biological control of vertebrates, 261	Newts, see Amphibians
in biowarfare/bioterrorism, 347	Nipah virus
fauna affected, 314	in biowarfare/bioterrorism, 250, 347
geographic area affected, 314	crossing species barriers, 37–38, 101
in rabbits, 24, 261	Nitzschia pungens, 104
Myxomatosis (book), 277	Nodavirus, in finfish, 47
,	Nonhuman primates
N	AIDS and, 198
	Ebola virus in, 162
Naegleria australiensis, in biowarfare/bioterrorism,	ecotourism and, 156, 160, 162–163
351	human pathogens entering wildlife populations, 163
Nairobi sheep disease, in biowarfare/bioterrorism, 347	tuberculosis in, 83–84, 162–163
National Center for Infectious Diseases Web site, 202	Noninfectious Diseases of Wildlife, 283, 286
National Oceanographic and Atmospheric Administra-	Norovirus, foodborne, 88–89
tion, 259	North American Parasitic Zoonoses, 281
National Response Plan, 258	Norwalk-like virus, foodborne, 86–88
National Wildlife Health Center (NWHC), 133–135,	Nosemosis of bees, 351
262–263	Nosocomial infections, 103
Web site, 287	Nursing homes, visits by companion animals, 96
National wildlife health strategy, 178–179	Nutria meat, 165
for captive-propagated wildlife, 178–179	NWHC, see National Wildlife Health Center
disease prevention, 179	nyama, 160–161
for free-ranging wildlife, 179	nyama, 100–101
Natural History of Infectious Disease, 277	0
Natural Nidality of Transmissible Diseases, 277	-
Nature (journal), 283	Obstructive rhinitis, in turtles, 51
Necrobacillosis	Ocean, see Marine environment
in bison, 155	Office International des Épizooties (OIE), 287
in deer, 155	finfish diseases notifiable to, 70

Fish Disease Commission, 71	crossing species barriers, 101
list A diseases, 244, 255	fauna affected, 320
list B diseases, 244, 256	foodborne, 84, 86–87
OIE, see Office International des Épizooties	game meat and, 216-222
OIE Scientific and Technical Review, 292	geographic area affected, 320
Oil spill, 25, 166–167	of harvested wildlife
Onchorhynchus masou virus disease	external parasites, 216-221
in biowarfare/bioterrorism, 347	internal parasites, 219
in finfish, 70	in nonhuman primates, 163
"One medicine" concept, 131, 174	sources of human disease, 25
On-line literature, 276	travel-related, 195
On-line resources, 289	Parasitic Diseases of Wild Mammals, 283, 286
Ophidian paramyxovirus	Paratuberculosis, in biowarfare/bioterrorism, 350
fauna affected, 314	Paratyphus, in biowarfare/bioterrorism, 234
geographic area affected, 314	Parinaud's oculoglandular syndrome, 13
Opossums, human disease from bites/scratches, 197	Parr, 71
Ornamental fish, 166	Parrotfish, 44
Ornithosis, 6, 12, 16, see also Psittacosis	Parrots, as pets, 166
in biowarfare/bioterrorism, 244, 246, 254, 349	A Partial Bibliography on Duck Plague, 290
human disease from handling wildlife, 198	A Partly Annotated Bibliography on Infections, Para-
in waterfowl, 198	sites, and Diseases of African Wild Animals, 290
·	Partridges
Oscillatoria, 43 Ostrich	•
	captive propagation and release for hunting, 140,
game ranching, 152	145
ostrich meat, 151, 165	fee-based hunting of, 154
Outbreak Alert: Responding to the Increasing Threat	game ranching, 152
of Infectious Diseases, 285	histomoniasis in, 222
Outdoor recreation, 5, 8	Pasteurella multocida, see Avian cholera
An Outline of Zoonoses, 281	Pasteurellosis
Ovine pulmonary adenomatosis, in biowarfare/bioter-	from animal bites, 93–95
rorism, 347	in bison, 155
Oysters, 47	in deer, 155
dermo disease in, 53	human disease from animal bites/scratches, 197
juvenile oyster disease in, 52–53, 322	routes for human exposure to, 15
microcytosis in, 53	Pathfinder, 288
multinucleated spore unknown disease in, 52	Pathfinding, 287–295
P	search methods, 288–295
1	starting the search, 287–288
Pack animals, 152, 244	Pathogens, 5, 14, 98–101
Pandemic	adaptation and change, 99, 106, 164
cholera, 40	agents requiring government approval for research
HIV/AIDS, 160	on, 345
plague, 234	biowarfare/bioterrorism agents, 231–265, 346–352
Papillomavirus, in marine mammals, 55	coadaption of hosts and pathogens, 25
Paracoccidioidomycosis, travel-associated, 203	crossing species barriers, 30, 37–38, 83–84,
Paralytic shellfish poisoning, in biowarfare/bioterror-	99–101, 131
ism, 352	factors in disease emergence, 21–24
Parapox, in red deer, 155	global dissemination of, 85
Parasites and Diseases of Wild Birds in Florida, 287	information sources, 276
Parasites of North American Fishes, 286	introduction into new host population, 97
Parasitic diseases	movement between captive propagation facilities
biowarfare/bioterrorism agents, 351–352	and surroundings, 140, 143
companion animals as sources of, 95	pathogen characteristics, 16
	survival, proliferation, and transmission of, 98-100

virulence of, 25	fauna affected, 319
PAWS Wildlife Center, 173	geographic area affected, 319
Peanut farming, 105	in salmonids, 51
Pelicans	Plague, 6, 83
domoic acid poisoning in, 49	aerosol transmission of, 234
type C botulism in, 21	in biowarfare/bioterrorism, 234, 236-237, 244-245,
Penaeid shrimp, 104	256, 258, 350
Penguins	companion animals as sources of, 94, 96
avian cholera in, 62	ecology of, 234–235
infectious bursal disease in, 62	epidemics of, 28
Perkinsosis, <i>see also</i> Dermo disease	fauna affected, 318
in biowarfare/bioterrorism, 351	geographic area affected, 318
Perkinsus-like infection	pandemics of, 234
in amphibians, 65	in prairie dogs, 31, 76, 80
fauna affected, 320	research on, 244
geographic area affected, 320	zoonoses-specific publications, 282
Peste de petits ruminants, in biowarfare/bioterrorism,	Plagues and Peoples, 277
255, 257, 347	Plant pathogens, in biowarfare/bioterrorism, 257
Pesticides, 103	Plants
human poisoning, 25 Pets, <i>see</i> Companion animals	common and scientific names of, 343
•	marine communities, 39–41
Pfiesteria, 48–49	Plasmodium relictum, see Avian malaria
fauna affected, 321	Pneumonia, in turtles, 51
geographic area affected, 321	Pocket pets, 195
Pheasants	Polar bears, 56, 58
captive propagation and release for hunting, 139,	bear meat, 59
145	Polio
fee-based hunting of, 154	fauna affected, 315
game ranching, 152	geographic area affected, 315
pheasant meat, 165	in nonhuman primates, 163
tracheal worms in, 220, 222	Polymorphus, 60
translocations of, 141	Popular literature, 23, 285
Philosophical Transactions, 279	Porcine enterovirus, in biowarfare/bioterrorism, 253,
Phocine distemper virus, 54–55	257
Phocine herpesvirus	Porcine reproductive and respiratory syndrome, in
fauna affected, 314	biowarfare/bioterrorism, 253, 347
geographic area affected, 314	Porcupines, monkeypox in, 170–171
Phocine morbillivirus	Pork, 84
fauna affected, 314	Porpoise morbillivirus, 54–55
geographic area affected, 314	fauna affected, 315
Phormidium corallyticum, 42	geographic area affected, 315
Pigeons	Porpoises, see Marine mammals
feeding of, 172	Posthodiplostomum minimum, see White grub
trichomoniasis in, 76, 175, 218	Poultry
Pig frog ranavirus, 64	avian cholera in, 55, 242
Pilchard herpesviral disease, 51	large-scale production operations, 103, 105
fauna affected, 314	Newcastle disease in, 242
geographic area affected, 314	salmonellosis in, 78
Pilot whale morbillivirus	Poxvirus
fauna affected, 314	in birds, 226
geographic area affected, 314	in marine mammals, 56–57
Pine martens, translocations of, 147	Prairie dogs
Pinnipeds, 51–59	monkeypox in, 166, 169, 197-198
Piscirickettsiosis	as pets, 177

Prairie dogs—Continued	Q
plague in, 31, 76, 80	O fover
translocations of, 147	Q fever
tularemia in, 166	in biowarfare/bioterrorism, 246, 350
Presidential Decision Directive on Emerging Infectious	fauna affected, 318
Diseases, 23	geographic area affected, 318
Pre-travel counseling, 203	human disease, 25
Preventing Emerging Infectious Diseases: A Strategy	in marine mammals, 56, 59
for the 21st Century, 23	Quahog parasitic unknown, 52
Primary amebic meningoencephalitis, in biowarfare/	fauna affected, 320
bioterrorism, 351	geographic area affected, 320
PrimateLit (database), 293	Quail
Primates, nonhuman, see Nonhuman primates	captive propagation and release for hunting, 145 egg production, 165
Prion diseases	fee-based hunting of, 154
biowarfare/bioterrorism agents, 348–349	game ranching, 152
crossing species barriers, 101	quail meat, 165
fauna affected, 316	Quarantine, for translocations, 177
foodborne, 85–86	Quarterly Wildlife Mortality Report, 290
game meat and, 226–228	Quarterly triname mentanty respect, 200
geographic area affected, 316 pathogen characteristics, 16	R
sources of human disease, 25	Dahkit hamayuhania diasasa 04.70.00
Professional societies, 281, 284	Rabbit hemorrhagic disease, 24, 76, 80
"Project BioShield," 243	in biological control of vertebrates, 261
ProMed-mail, 283	in biowarfare/bioterrorism, 347 fauna affected, 315
Pronghorn, translocations of, 147	geographic area affected, 315
Propagation, captive, <i>see</i> Captive-propagated wildlife	Rabbits
Protecting the Nation's Health in an Era of Globaliza-	bot flies in, 220
tion: CDC's Global Infectious Disease Strategy,	captive propagation and release for hunting, 145
23	dog tapeworm in, 218, 220, 223
Proteus, human disease from animal bites/scratches,	game ranching, 149
197	myiasis in, 218
Protozoal diseases	myxomatosis in, 24, 261
biowarfare/bioterrorism agents, 351	as pets, 94–95
fauna affected, 319	rabbit hemorrhagic disease in, 24, 76, 80, 261
geographic area affected, 319	rabbit meat, 165, 218
pathogen characteristics, 16	Shope's fibroma in, 226
sources of human disease, 25	tapeworm life cycle, 211, 213
Protozoal encephalitis, in sea otters, 60	translocations of, 147, 150
Pseudomonas, human disease from animal bites/	tularemia in, 13, 31, 150, 225
scratches, 197	Rabies, 16, 83, 301
Pseudonitzschia australis, 49	in bats, 13, 31, 195
Pseudorabies, in biowarfare/bioterrorism, 253, 347	nonvampire, 7
Pseudoterranova, 86	in biowarfare/bioterrorism, 253, 348
Psittacine beak and feather disease, 150	in coatimundi, 164
Psittacosis, 16, 195, <i>see also</i> Ornithosis information sources, 284	in companion animals, 93
Public domain, 154	disease ecology, 7
Public health measures, breakdown in, 99, 106	fauna affected, 315
Published information, see Information sources	in foxes, 83
Publishers' catalogs, 289	geographic area affected, 315
PubMed (database), 289	history, 7 human disease, 25
Pullorum disease, in biowarfare/bioterrorism, 350	from animal bites/scratches, 197
Pulmonary carcinoma, in dolphins, 322	information sources, 284
, F = 7.5	

in pet wildlife, 164 in raccoons, 80, 83, 105, 150	Regional Disease Emergency Operations Program, 133
routes for human exposure to, 15	Regulations, disease control in wildlife, 174–180
in skunks, 83, 164	Reindeer
viral adaptation and change, 106	game ranching, 152, 165
zoonoses-specific publications, 282	reindeer meat, 165, 220
Raccoons	Renal adenoma, in dolphins, 322
Baylisascaris in, 6, 218	Renibacterium salmoninarum, see Bacterial kidney
captive propagation and release for hunting, 145	disease
rabies in, 80, 83, 105, 150	Reptiles
raccoon meat, 218	commercial production of, 156
thorny-headed worms in, 218	common and scientific names of, 343–344
translocations of, 150	disease emergence in, 83
Rainbow trout	as pets, 166–167, 172
bacterial kidney disease in, 71	salmonellosis in, 166, 195
farmed, 47	terrestrial, 81
gyrodactylosis in, 71	translocations of, 148
translocations of, 150	Reservoir host, 47, 98, 168–169
viral hemorrhagic septicemia in, 47	Respiratory disease, in nonhuman primates, 163
whirling disease in, 68–69, 105, 150	The Restless Tide: The Persistent Challenge of the
Rajneeshee cult, 241	Microbial World, 285
Ranavirus	Ribeiroia
in amphibians, 63–67	in amphibians, 65
fauna affected, 315	fauna affected, 320
geographic area affected, 315	geographic area affected, 320
in snakes, 81	Rice breast disease, <i>see</i> Sarcosporidiosis
Rapid wasting disease, of coral, 44	Ricin, in biowarfare/bioterrorism, 246, 352
The Raptor Center, 173	Rickettsial diseases
Raptors, West Nile fever in, 172	in biowarfare/bioterrorism, 247, 350
Rat-bite fever, companion animals as sources of, 94	crossing species barriers, 101
Rats	fauna affected, 318–319
human disease from bites/scratches, 197	in fish, 51
sarcocystis in, 261	geographic area affected, 318–319
Rats, Lice, and History, 277	pathogen characteristics, 16
Reality television, 195	Rift Valley fever
Red-band disease, of coral, 43	Aswan Dam construction and, 104–105
Red deer	in biowarfare/bioterrorism, 251, 255–256, 348
European cervid herpesvirus in, 155	fauna affected, 315
parapox in, 155	geographic area affected, 315
Red ear slider, 157	Rinderpest
Red fox, tapeworms in, 36	in African mammals, 76
Red neck disease, in turtles, 104	in biowarfare/bioterrorism, 242, 251, 255, 257, 348
Red sea bream iridoviral disease, 47	Ringworm, 214, 228
fauna affected, 315	companion animals as sources of, 95
geographic area affected, 315	River otter, translocations of, 147
Red tides, 39, 48–49	Rocky Mountain spotted fever, 16
Redwood Creek ranavirus, 64	in biowarfare/bioterrorism, 350
fauna affected, 315	companion animals as sources of, 94, 96
geographic area affected, 315	human disease, 25
Reef fish, 87	zoonoses-specific publications, 282
Reemerging disease, 21	Rodents
Reference materials, <i>see</i> Information sources	aquatic, giardiasis in, 31
Reforestation, 104–105	hantavirus in feces/urine, 15
	Rotavirus, foodborne, 86

Roundworms	in rats, 261
companion animals as sources of, 96	in sea otters, 60
in fish, 22	Sarcoptic mange, 76, 216, 218, 220
in harvested wildlife, 217	Sarcosporidiosis, in waterfowl, 218, 220–221
in snowy egret, 224	Sarin, 243
Royal Society of England, 278	SARS, see Severe acute respiratory syndrome
Ruminants, 106	Sausage, game meat, 215, 222
Russian spring-summer meningoencephalitis, in bio-	Saxitoxin, 25
warfare/bioterrorism, 250, 348	Scabies
0	companion animals as sources of, 95-96
S	in nonhuman primates, 163
Salamanders, see Amphibians	Scallops, 41
Salmon	Scavengers, 139
aquaculture, 47	Schistosomiasis
gyrodactylosis in, 71	travel-related, 11
infectious salmon anemia virus in, 50	zoonoses-specific publications, 282
Salmonella	Science (journal), 283
antibiotic-resistant, 85	Science News, 283
serotypes of, 12, 30	Scientific journals, 289, 292, 295
Salmonellosis, 16, 30	development of, 278–279
in biowarfare/bioterrorism, 234, 237, 241, 246, 350	table of contents of, 291
in birds, 78, 195	Scientific literature, 9–10, 275–295, see also Informa
companion animals as sources of, 94	tion sources
fauna affected, 317	changes in style and content over time, 276–279
foodborne, 85-86, 89, 92, 103	Scientific names, 332–344
geographic area affected, 317	Scientific research, impact of bioterrorism on conduc
human disease from handling wildlife, 198	of, 244
in iguanas, 166, 198	Scientific symposium, publications arising from, 281,
in marine mammals, 56, 59	284
in reptiles, 166, 195	Scleractinian coral, 42–44
in songbirds, 172, 175	Sclerotinia stem rot, in biowarfare/bioterrorism, 257, 351
in turtles, 6, 12, 157, 198	Scours
Salmonids	in bison, 155
piscirichettsiosis in, 51	in deer, 155
viral hemorrhagic septicemia of, 47	Scrapie, 226
Salmon sarcoma virus	in biowarfare/bioterrorism, 349
fauna affected, 315	Scrombroid poisoning, 87
geographic area affected, 315	SCWDS Briefs, 290
Saltwater fish, 71	Seabirds, 63
Sandhill cranes	Sea fan disease, 45
Campylobacter reservoirs, 87	Seafood, foodborne diseases of, 86–89, 104
mycotoxicosis in, 76, 228	Seagrass communities, 39–41
Sanitation, 106	Seagrass wasting disease, 41
San Joaquin Valley fever, 61	Seal finger, 58, 198
San Miguel sea lion virus, 57	Sea lions, 51–56, see also Marine mammals
Saprolegniasis	Seals, 51–56, see also Marine mammals
in amphibians, 64	contact with terrestrial carnivores, 54–55
fauna affected, 319	human disease from bites/scratches, 197
geographic area affected, 319	Sea otters, see also Marine mammals
Sarcocystis in high given control of vertebrates 261	acanthocephaliasis in, 60, 221
in biological control of vertebrates, 261	coccidioidomycosis in, 60–61
fauna affected, 320	infectious diseases in, 55, 60–61
geographic area affected, 320	nematodes in. 61

protozoal encephalitis in, 60	eradication of, 26
Sarcocystis neurona in, 60	in Native American populations, 28, 105
toxoplasmosis in, 60–61	transmission of, 236
Search engines, 16, 289	Smoked meat, 211–212, 215
Sea turtles, 51	Smolt, 71
commercial production of, 157	Snails
Sea urchin disease, 45, 322	game meat, 160
Sea urchins, 41	game ranching, 153
Serotypes, Salmonella, 12, 30	Snakes
Serratia, human disease from animal bites/scratches,	commercial production of, 156
197	human disease from bites/scratches, 197
Severe acute respiratory syndrome (SARS), 22, 29,	as pets, 166–167
105, 136, 160–161	ranavirus infections in, 81
costs incurred by society from, 138	snake farming, 165
global spread of, 193–194	snake meat, 165
origin in civet cats, 164	Snow, John, 9
Sheep pox, in biowarfare/bioterrorism, 252, 255, 348	Snow geese, aflatoxicosis in, 76
Shell disease, in lobsters and crabs, 53, 322	Snowshoe hares, translocations of, 147
Shellfish, see also Aquaculture	Social costs, of wildlife diseases, 131, 138
common and scientific names of, 344	Soft coral, 41–42
as food, 39, 228	Softshell turtle iridovirus, 104
food demands for, 140	fauna affected, 315
freshwater, foodborne diseases, 86–88	geographic area affected, 315
marine, 39, 47–53	Softshell turtles, 157
Shellfish poisoning, 49, 209	Songbirds
Shell necrosis, in tortoises, 78	avian pox in, 175
Shiga toxins, in biowarfare/bioterrorism, 352	feeding by humans, 175
Shigellosis	salmonellosis in, 78, 172, 175
in biowarfare/bioterrorism, 237, 241, 246, 350	Southeastern Cooperative Wildlife Disease Study,
foodborne, 89	133, 262–263
intentional contamination with, 241	Sphingomonas, 44
Shooting preserves, private, 139–140, 143, 149, 154,	Spirillum, human disease from animal bites/scratches,
156, 158–159	197
Shope's fibroma, in rabbits, 226	Sponge disease, 45, 322
Shorebirds, influenza virus in, 36	Sponges, 41
Shotshell pellets, in game meat, 211	common and scientific names of, 344
Shrimp	Sporotrichosis, companion animals as sources of, 95
farmed, 53, 104	Sportfishing, 142, 146
penaeid, 104	economics of, 142
in seagrass beds, 39	Spring viremia, of carp, 68–71, 315, 348
Taura syndrome in, 53, 105	Squirrel parapox, 150
white spot syndrome virus in, 53	Squirrels
Six Modern Plagues and How We Are Causing Them,	feeding of, 172
285	fibromas on, 226
Skunks	human disease from bites/scratches, 197
	interstate sale of, 177
human diseases from bites/scratches, 197 as pets, 12, 164	
rabies in, 83, 164	mange in, 218, 220 monkeypox in, 168–171
	· ·
Slime mold, marine, 41	myiasis in, 218
Smallpox	squirrel meat, 218
aerosol transmission, 234	translocations of, 147, 150
in biowarfare/bioterrorism, 234, 236–237, 244–245,	Staphylogogal diseases
348	Staphylococcal diseases
epidemics of, 28	animal bites and, 93

Staphylococcal diseases—Continued	T
in deer, 31	Tada da adama virus CA
foodborne, 89	Tadpole edema virus, 64
human disease from animal bites/scratches, 197	fauna affected, 315
State of Wisconsin's Reference and Loan Library, 293	geographic area affected, 315
Steel Shot and Lead Poisoning in Waterfowl: An Anno-	Taenia ovis krubbei, see Cysticercosis
tated Bibliography of Research, 291	Tapeworms
Steinhausiosis	dog, <i>see</i> Dog tapeworm
fauna affected, 320	in fish, 222
geographic area affected, 320	in harvested wildlife, 217
Stem rust, in biowarfare/bioterrorism, 257, 351	Taura syndrome
St. Louis encephalitis	in biowarfare/bioterrorism, 348
fauna affected, 315	fauna affected, 315
geographic area affected, 315	geographic area affected, 315
Stomach worms, in harvested wildlife, 217	in shrimp, 53, 105
Streptococcal diseases	Technology, 99, 103
animal bites and, 93	Tegus, commercial production of, 156
fauna affected, 317–318	Terrestrial environment
foodborne, 84	birds, 75–78, 81
geographic area affected, 317–318	disease emergence in, 75–84
Streptococcus iniae, 38	mammals, 80, 83-84
in finfish, 50	reptiles, 81
Streptococcus suis, 301	tortoises, 78
Streptothricosis	Teschen disease, in biowarfare/bioterrorism, 253, 348
in deer, 198, 225	Tetanus, companion animals as sources of, 94
human disease from handling wildlife, 97–98, 198	Theileriosis, in biowarfare/bioterrorism, 351
Subsistence hunting, 160	Thorny-headed worms
Sugarcane Fiji disease, in biowarfare/bioterrorism,	in aquatic animals, 218
257, 348	in mammals, 218
Sugarcane leaf scald disease, in biowarfare/bioterror-	in waterfowl, 218
ism, 257, 350	Tickborne disease, 31, 98, 195
Suncoast Seabird Sanctuary, 173	maintenance of tick populations, 36
Surra, in biowarfare/bioterrorism, 351	Tickborne encephalitis, in biowarfare/bioterrorism, 250
Swans, 71	Tickborne hemorrhagic fever, in biowarfare/bioterror-
game ranching, 153	ism, 250
Swimmers' itch, 15, 31	Ticks
Swimming, see Contaminated water; Outdoor recre-	of companion animals, 12, 96
ation	of harvested wildlife, 216, 219
Swine	West Nile virus in, 37
feral, brucellosis in, 225	Tigers, human diseases from bites/scratches, 197
pork, 84	Tiger salamander virus, 64
Streptococcus suis in, 301	fauna affected, 315
vesicular exanthema in, 57	geographic area affected, 315
Swine fever	Tilapia
in biowarfare/bioterrorism, 251, 255, 257, 346	Cryptobia branchialis in, 71
fauna affected, 313	type E botulinum toxin in, 24
geographic area affected, 313	Tinea, see Ringworm
Swine vesicular disease, in biowarfare/bioterrorism,	Toads, see Amphibians
253, 255, 348	TOPOFF (mock plague outbreak), 236
Syngamus trachea, see Tracheal worms	Tortoises, 78
Syphilis, 105	Galapagos Island, 78
Syprillis, 105	shell necrosis in, 78
	translocations of, 150
	upper respiratory tract disease in, 78, 81, 150

Tourism, see Ecotourism; Travel	Trichinellosis, see Trichinosis
Toxicosis, in biowarfare/bioterrorism, 246	Trichinosis
Toxic tissue secretions, 6	in bears, 6
Toxins, 25, 48–49, 321	in biowarfare/bioterrorism, 352
biowarfare/bioterrorism agents, 352	from cougar jerky, 31, 91
disease emergence and, 48–49	foodborne, 84, 92, 215, 222
in game meat, 228	in game meat, 13, 90–91
Toxoplasmosis, 16	human disease, 25
companion animals as sources of, 95–96	in marine mammals, 56, 59
fauna affected, 320	routes for human exposure to, 15
foodborne, 85, 88, 92	Trichomoniasis
in game meat, 222	in birds, 175, 218, 220, 222
geographic area affected, 320	in pigeons, 76
human disease, 25	Trichomonosis, in biowarfare/bioterrorism, 351
in sea otters, 60–61	Trichophyton, see Ringworm
waterborne, 88	Trichothecenes, in biowarfare/bioterrorism, 352
Tracheal worms, in upland game birds, 218, 220, 222	Tristate Bird Rescue and Research Inc., 173
Transactions of the North American Wildlife and Natu-	Tropical Diseases, 277
ral Resources Conference, 281	Trypanosomosis, in biowarfare/bioterrorism, 351
Translocations of wildlife, 99, 105–106, 130, 139–148,	Tuberculosis, 5, 38, 301
156, 260	avian, <i>see</i> Avian tuberculosis
amphibians, 67	bovine, 6, 105, 149, 228
disease impacts associated with, 148, 150	in biowarfare/bioterrorism, 242, 349
health certification before release, 177	in bison, 151, 154–155, 225, 242
mammals, 146–148	in buffalo, 242
national wildlife health strategy, 178	in deer, 80, 83, 154–155, 172, 175, 224–225
percentages by wildlife type, 148	in elk, 172, 175, 225
quarantine period, 177	fauna affected, 318
in USA, Canada, New Zealand, and Australia, 148	geographic area affected, 318
wildlife as pets, 161–166	information sources, 284
by wildlife rehabilitators, 146	crossing species barriers, 101
Transmissible gastroenteritis, in biowarfare/bioterror-	fauna affected, 318
ism, 348	foodborne, 84
Transplant recipients, 96, 99	geographic area affected, 318
Transport vessels, 105	human disease, 25, 193
Travel, 7, 11, 13, 90, 99, 105–106	in lions, 80
exposure to zoonoses, 192-203	in marine mammals, 58
combating zoonotic diseases, 196	multidrug-resistant, 250, 350
direct pathways, 195, 199	in nonhuman primates, 83-84, 162-163
indirect pathways, 195–200	routes for human exposure to, 15
pre-travel counseling, 203	zoonoses-specific publications, 282
Traveler's Health: How to Stay Healthy Abroad, 202	Tufts Wildlife Clinic, 173
Travel Health Care (Web site), 202	Tularemia, 31, 83
Travel medicine	in beavers, 224–225
combating zoonoses, 196	in biological control of vertebrates, 261
information sources, 202–203	in biowarfare/bioterrorism, 237, 245, 256, 260, 350
Trematodiasis	companion animals as sources of, 94-96
fauna affected, 320	fauna affected, 318
in fish, 219	foodborne, 88–89
geographic area affected, 320	in game meat, 209, 222
in waterbirds, 75	geographic area affected, 104, 318
Treponemal infection	in ground squirrels, 260–261
fauna affected, 318	human disease from animal bites/scratches, 197
geographic area affected, 318	in muskrats, 31, 225

Tularemia—Continued	V
in postwar Bosnia, 106	Vancina OF
in prairie dogs, 166	Vaccine, 25
in rabbits, 13, 31, 150, 225	against biowarfare/bioterrorism agents, 243
routes for human exposure to, 15	Valley fever, see Coccidioidomycosis
Tumors, of finfish, 213, 216	Varicella-zoster virus, 168
Turtlegrass, 41	Variola major, see Smallpox
Turtles	Varroasis
commercial production of, 157	in biowarfare/bioterrorism, 352
fibropapilloma in, 51	fauna affected, 320
game ranching, 153	geographic area affected, 320
marine, 51	Vector-Borne and Zoonotic Diseases, 292
obstructive rhinitis in, 51	Vector-borne diseases, 105, 132
as pets, 12, 94–95, 157, 166–167	Vegetables, foodborne diseases, 88-89
pneumonia in, 51	Venezuelan equine encephalitis, in biowarfare/bioter-
red neck disease in, 104	rorism, 244, 247, 252, 256
salmonellosis in, 157, 198	Vertebrates, 104
thorny-headed worms in, 218	Vesicular exanthema, in swine, 57
turtle farming, 51, 104, 165	Vesicular stomatitis, in biowarfare/bioterrorism, 253,
turtle meat, 157	255, 257
ulcerative stomatitis-obstructive rhinitis-pneumonia	Veterinary Public Health Reports: Notes on the Role
complex in, 51, 322	of Wildlife in the Epidemiology of Zoonoses, 281
Typhoid fever, in biowarfare/bioterrorism, 234	vianole de brousse, 160–161
Typhus, in biowarfare/bioterrorism, 234, 247, 350	Vibrio, 53
	fauna affected, 318
U	fish-pathogenic, 51
Illegrative envessie in fiele 40	foodborne, 86, 88
Ulcerative mycosis, in fish, 48	geographic area affected, 318
Ulcerative stomatitis-obstructive rhinitis-pneumonia	human disease from animal bites/scratches, 197
complex, in turtles, 51, 322	in marine mammals, 56, 58–59
Upland game birds, 142	Vibrio alginolyticus, 51
captive propagation and release for hunting, 142,	Vibrio carcheriae, 43
145, 154	Vibrio cholerae, see Cholera
gizzard worms in, 218	Vibrio parahaemolyticus, 85
histomoniasis in, 218, 222	Vibrio vulnificus, 88
tracheal worms in, 218, 220, 222	Viral chorioretinitis
Upper respiratory tract disease	fauna affected, 316
fauna affected, 318	geographic area affected, 316
geographic area affected, 318	Viral diseases
in tortoises, 78, 81, 150	biowarfare/bioterrorism agents, 346-348
Urban decay, 99	companion animals as sources of, 93
Urbanization, 5, 7, 99, 102, 129	crossing species barriers, 100-101
Urban parks, 120	fauna affected, 313–316
Use of Lead Shot for Hunting Migratory Birds in the	foodborne, 84, 86
United States, 291	game meat and, 224–226
Using the Biological Literature: A Practical Guide, 288	human disease from animal bites/scratches, 197
Usutu virus	human disease from handling wildlife, 198
in birds, 77, 81	geographic area affected, 313-316
fauna affected, 316	pathogen characteristics, 16
geographic area affected, 316	sources of human disease, 25
Uvulifer ambioplitis, see Black spot/grub	Viral hemorrhagic septicemia
	fauna affected, 316
	in finfish, 70
	geographic area affected, 316

71 Water reclamation, 99 in salmonids, 47 Water treatment, 103, 105–106 Viral papillomatosis Weapons of mass destruction, 236–240 fauna affected, 316 Web of Science (database), 294 geographic area affected, 316 Western equine encephalitis "Virgin soil epidemics," 97 in biowarfare/bioterrorism, 247, 256, 348	}
Viral papillomatosis fauna affected, 316 geographic area affected, 316 "Virgin soil epidemics," 97 Weapons of mass destruction, 236–240 Web of Science (database), 294 Western equine encephalitis in biowarfare/bioterrorism, 247, 256, 348	}
fauna affected, 316 Web of Science (database), 294 geographic area affected, 316 Western equine encephalitis in biowarfare/bioterrorism, 247, 256, 348	}
geographic area affected, 316 Western equine encephalitis "Virgin soil epidemics," 97 in biowarfare/bioterrorism, 247, 256, 348	}
geographic area affected, 316 Western equine encephalitis "Virgin soil epidemics," 97 in biowarfare/bioterrorism, 247, 256, 348	3
"Virgin soil epidemics," 97 in biowarfare/bioterrorism, 247, 256, 348	3
Virulence, 25 fauna affected, 316	
Virus X: Tracking the New Killer Plagues: Out of the geographic area affected, 316	
Present and Into the Future, 285 West Nile virus, 6, 301	
Visceral gout, 217 in birds, 31, 75–76, 79	
Visceral larva migrans, companion animals as costs incurred by society from, 138	
sources of, 95–96 in crows, 34, 37, 76, 81	
Vultures in domestic animals, 79	
intoxication in, 76, 81 human disease, 25	
as scavengers, 139 in mammals, 75–76	
in migratory birds, 37	
W monitoring in birds, 30	
provention and eradication of 34.35	
Walluses, 51–30, see also Mallie Illallillais	
walrus meat, 59, 91 in raptors, 172 social and economic impact of, 34–35	
Wal. 33. 100	
Warble flies, in harvested wildlife, 216, 218 in ticks, 37	
Wastewater treatment, 105–106 wildlife rehabilitation and, 13, 35	
Waterbirds, 71–75 Wetlands, 102–103	
avian botulism in, 21–24, 27, 72–73, 75 Whale finger, 58	
avian cholera in, 73–74, 77 Whales, 51–56, <i>see also</i> Marine mammals	;
avian vacuolar myelinopathy in, 75, 78 whale meat, 59	
chlamydiosis in, 73 Whirling disease	
duck plague in, 71–72 fauna affected, 320	
Newcastle disease in, 71–73 geographic area affected, 320	
trematodes in, 75 In rainbow trout, 68–69, 105, 150	
Waterborne diseases, 87–88, 138 White-band disease, of coral, 41, 43	
in biowarfare/bioterrorism 247 White grub, in fish, 219	
cryptosporidiosis, 88 White plague, 44	
giardiasis, 88 White pox disease, of coral, 44	
toxoplasmosis, 88 White spot disease, in shrimp, 53	
Waterborne Zoonoses: Identification, Causes, and in biowarfare/bioterrorism, 348	
Control, 281 fauna affected, 316	
Waterfowl, 39, 102 geographic area affected, 316	
aspergillosis in, 103 White sturgeon herpesvirus	
avian cholera in, 242 fauna affected, 316	
Campylobacter reservoirs, 87 geographic area affected, 316	
captive propagation of 158 White sturgeon iridovirus	
waterfowl health regulation, 158 fauna affected, 316	
duck plague in 242 geographic area affected, 316	
feeding by humans 172 White sturgeon virus, 69	
game ranching, 153 Whooping cranes, translocations of, 141, 1	43
immunosuppressed, 103 Wild boar	
migration of, 102 boar meat, 91, 165	
ornithosis in, 198 hog cholera in, 80	
pesticide exposure, 103 thorny-headed worms in, 218	
sarcosporidiosis in, 218, 220–221 Wild dogs, 260	
thorny-headed worms in, 218 Wilderness Medical Society Web site, 202 Wilderness medicine, 203	

Wilderness travel, 195	Υ
Wildlife, see also Free-ranging wildlife	Variation and home and advantage 100
as vehicle for spread of infectious agents, 258	Yaws, in nonhuman primates, 163
as vehicles for transmission of disease, 245	Yellow-band disease, of coral, 43–44
zoonoses and, 30-38	Yellow-blotch disease, <i>see</i> Yellow-band disease
Wildlife and Ecology Worldwide (database), 291	Yellow Book (CDC), 202–203
The Wildlife Center of Virginia, 173	Yellow fever
Wildlife disease programs, 131–136, 262	in biowarfare/bioterrorism, 250, 348
disease diagnosis, 132, 134	travel-related, 13
disease prevention and control, 135	Yellow grub, in fish, 219
disease surveillance, 132, 135	Yellowhead disease, in biowarfare/bioterrorism, 348
early detection of disease, 132	Yellow perch, <i>Heterosporis</i> in, 68
fiscal resources, 133	Yersinia enterocolitica, 85
knowledge and networks, 134-135, 263-264	Yersinia pestis, see Plague
locations and sponsorship of, 136	Yersiniosis
newsletters and Web sites of, 263	companion animals as sources of, 94
timely response to outbreaks, 132–133	in deer, 154–155
Wildlife diseases	fauna affected, 318
emergence of, 30	foodborne, 85–86
emerging, 38–84	geographic area affected, 318
information sources, 283–290	Z
major events, 1980–2000, 137	-
national wildlife health strategy, 178–179	Zebras
Wildlife extension, 210	African horse sickness in, 150, 242
Wildlife feeding, 130–131, 172–177	translocations of, 150
Wildlife harvest, 13, 15	Zoanthid disease, 322
Wildlife management, 139–148	Zoo and Wild Animal Medicine, 291
Wildlife rehabilitation, 12–13, 130, 146, 166–172, 195	Zoological collections, 130
marine mammals, 58–59	Zoological Record (database), 291–292, 294
USA programs, 173	Zoonoses, 7, 142
West Nile fever and, 35	defined, 5
Wildlife Review, 291	disease emergence and, 30-31
Wildlife stewardship, 139	foodborne, 84
Wildlife Worldwide (database), 294	human activities and, 1, 12–13
Wildpro, 287, 291	information sources, 276–283
Wild turkeys	rapid reporting of outbreaks, 283
blackhead in, 220	marine mammals and, 57–59
captive propagation and release for hunting, 145	routes for human exposure to, 30-31
translocations of, 141	travel and, 192-203
Willowbrook Wildlife Center, 173	wildlife and, 30–38
Wisconsin Tech Search and Instant Library, 293	Zoonoses (book), 280–281
Withering syndrome, in abalone, 52, 322	Zoonoses and Communicable Diseases Common to
Wolves	Man and Animals, 280–281
heartworm in, 160	Zoonoses and the Origins of Ecology of Human Dis-
mange in, 220, 260	ease, 277
Woodcock iridovirus	Zoonoses: Biology, Clinical Practice, and Public
fauna affected, 316	Health Control, 280
geographic area affected, 316	The Zoonoses: Infections Transmitted from Animals to
Woodcock reovirus infection, 81	<i>Man</i> , 281
World Atlas of Epidemic Diseases, 277	Zoonoses: Infectious Diseases Transmissible from
WorldCat (database), 289	Animals to Humans, 280–281
World Health Organization, travel medicine information, 202	Zoonoses of Primates: The Epidemiology and Ecolog of Simian Diseases in Relation to Man, 280

Zoonoses Research, 292 Zooplankton, 40

Book production

Edited by Gail Moede Rogall

Designed by Marta Anderson, Elizabeth Ciganovich, and Phillip Redman

Special illustrations and cartoons by John M. Evans

Layout and illustrations by Marta Anderson, Frances Jeanne Bergmann, Elizabeth Ciganovich, John M. Evans, Erinn Dornaus, Paul Medenwaldt, Phillip Redman, Jennifer Rodriguez, and Rosemary Stenback.

Indexed by Barbara Littlewood

Cover photos

Front cover:

Cougar photo by Milton Friend

Fish release photo by the Wisconsin Department of Natural Resources

Gorilla and human photo by Teresa Wawrzynczyk, Twycross Zoo, United Kingdom

Sea turtle photo by Thierry Work

Shorebird photo by Milton Friend

Back cover:

Otter photo by Milton Friend

Bird photo by Milton Friend

Prairie dog photo by the U.S. Fish and Wildlife Service