

Table of Contents

Section 1 General Field Procedures

Chapter 1	Recording and Submitting Specimen History Data	3
Chapter 2	Specimen Collection and Preservation	7
Chapter 3	Specimen Shipment	13
Chapter 4	Disease Control Operations	19
Chapter 5	Euthanasia	49
Chapter 6	Guidelines for Proper Care and Use of Wildlife in Field Research	53

Section 2 Bacterial Diseases

Chapter 7	Avian Cholera	75
Chapter 8	Avian Tuberculosis	93
Chapter 9	Salmonellosis	99
Chapter 10	Chlamydiosis	111
Chapter 11	Mycoplasmosis	115
Chapter 12	Miscellaneous Bacterial Diseases	121

Section 3 Fungal Diseases

Chapter 13	Aspergillosis	129
Chapter 14	Candidiasis	135
Chapter 15	Miscellaneous Fungal Diseases	137

Section 4 Viral Diseases

Chapter 16	Duck Plague	141
Chapter 17	Inclusion Body Disease of Cranes	153
Chapter 18	Miscellaneous Herpesviruses of Birds	157
Chapter 19	Avian Pox	163
Chapter 20	Eastern Equine Encephalomyelitis	171
Chapter 21	Newcastle Disease	175

Chapter 22 Avian Influenza	181
Chapter 23 Woodcock Reovirus	185

Section 5 Parasitic Diseases

Chapter 24 Hemosporidiosis	193
Chapter 25 Trichomoniasis	201
Chapter 26 Intestinal Coccidiosis	207
Chapter 27 Renal Coccidiosis	215
Chapter 28 Sarcocystis	219
Chapter 29 Eustrongylidosis	223
Chapter 30 Tracheal Worms	229
Chapter 31 Heartworm of Swans and Geese	233
Chapter 32 Gizzard Worms	235
Chapter 33 Acanthocephaliasis	241
Chapter 34 Nasal Leeches	245
Chapter 35 Miscellaneous Parasitic Diseases	249

Section 6 Biotoxins

Chapter 36 Algal Toxins	263
Chapter 37 Mycotoxins	267
Chapter 38 Avian Botulism	271

Section 7 Chemical Toxins

Chapter 39 Organophosphorus and Carbamate Pesticides	287
Chapter 40 Chlorinated Hydrocarbon Insecticides	295
Chapter 41 Polychlorinated Biphenyls	303
Chapter 42 Oil	309
Chapter 43 Lead	317
Chapter 44 Selenium	335

Chapter 45 Mercury	337
Chapter 46 Cyanide	341
Chapter 47 Salt	347
Chapter 48 Barbiturates	349
Chapter 49 Miscellaneous Chemical Toxins	351
Section 8 Miscellaneous Diseases	
Chapter 50 Electrocution	357
Chapter 51 Miscellaneous Diseases	361
Appendices	
A Sample specimen history form	369
B Sources of wildlife disease diagnostic assistance	370
C Sources of supplies used for collecting, preserving, and shipping specimens	373
D Normal brain cholinesterase values for different bird species	375
E Common and scientific names of birds in text	377
F Common and scientific names other than birds	383
G Chemical names	384
H Conversion table	387
Glossary of technical terms	389
Index	400