

CONTENTS

| | |
|---|----|
| Acknowledgements | 9 |
| Introduction | 10 |
| Environmental Education with Birds | 12 |
| Landscape | 15 |
| Subtropical | 17 |
| Woodland | 17 |
| Grass Thickets | 18 |
| Rocky Outcrop | 18 |
| Semi-arid | 19 |
| Aquatic | 19 |
| Stress Management | 20 |
| Physiology of Stress | 20 |
| Treatment | 21 |
| Types of Stress | 21 |
| Transportation | 21 |
| Capture | 22 |
| Temperature | 22 |
| Natural Elements | 23 |
| Noise | 23 |
| Aggression/Compatibility | 23 |
| Diet | 23 |
| Control of Vermin | 24 |
| Rats and Mice | 24 |
| Larger Mammalian Predators | 26 |
| Avian Predators | 26 |
| Invertebrate Pests | 27 |
| Propagation of Live Food | 28 |
| Mealworms | 28 |
| Crickets | 30 |
| Cockroaches | 31 |
| Fruit Flies | 32 |
| Waxmoths | 32 |
| Maggots | 98 |

| | |
|---|-----|
| Aviculture Management photo illustrations | 33 |
| Hand Rearing | 99 |
| Temperature and Humidity | 100 |
| Nest Lining | 100 |
| Weaning | 100 |
| Handrearing Tools | 101 |
| Bent Spoon | 101 |
| Syringes | 101 |
| Crop Needles | 102 |
| Forceps Tweezer | 102 |
| Imprinting | 102 |
| Sibling Compatibility | 102 |
| Compatible Species | 104 |
| Conversion Tables | 106 |
| SPECIES ACCOUNTS | 107 |
| 01 Struthioniformes | 107 |
| 01.01 Struthionidae: Ostriches | 107 |
| 01.02 Rheidae: Rheas | 110 |
| 01.03 Casuariidae: | 112 |
| 01.03ai Casuariini <i>Cassowaries</i> | 112 |
| 01.03aii Dromaiiini <i>Emus</i> | 116 |
| 01.04 Apterygidae: Kiwis | 118 |
| 02 Tinamiformes | 122 |
| 02.01 Tinamidae: Tinamous | 122 |
| 03 Craciformes | 125 |
| 03.01 Cracidae: Curassows, Guans & Chachalacas | 125 |
| 03.02 Megapodiidae: Megapodes | 132 |
| 04 Galliformes | 142 |
| 04.01 Phasianidae: Francolin, Pheasants, Grouse, Turkeys | 142 |
| 04.02 Numididae: Guineafowls | 180 |
| 04.03 Odontophoridae: Quail | 182 |
| 05 Anseriformes | 188 |
| 05.01 Anseranatidae: Magpie Geese | 189 |
| 05.02 Dendrocygnidae: Whistling Ducks | 190 |
| 05.03 Anatidae: | 191 |
| 05.03a Oxyurinae <i>Stiff-tailed Ducks</i> | 191 |
| 05.03b Cygninae <i>Swans</i> | 192 |
| 05.03c Anatinae <i>Geese Ducks</i> | 193 |
| 05.03 ci Anserini <i>Geese, Shelducks & Pygmy Geese</i> | 193 |
| 05.03 cii Anatini <i>Ducks, Pochards & Seaducks</i> | 197 |

| | |
|---|-----|
| 06 Turniciformes | 205 |
| 06.01 Turnicidae: Buttonquails | 205 |
| 07 Piciformes | 207 |
| 07.01 Picidae: Woodpeckers | 207 |
| 07.02 Lybiidae: African Barbets | 212 |
| 07.03 Ramphastidae: | 217 |
| 07.03a Capitoninae <i>New World Barbets</i> | 217 |
| 07.03b Ramphastinae <i>Toucans</i> | 218 |
| 08 Bucerotiformes | 226 |
| 08.01 Bucerotidae: Hornbills | 226 |
| 08.02 Bucorvidae: Ground Hornbills | 239 |
| 9 Upupiformes | 242 |
| 09.01 Upupidae: Hoopoes | 242 |
| 09.02 Phoeniculidae: Woodhoopoes | 244 |
| 10 Trogoniformes | 248 |
| 10.01 Trogonidae: Trogons | 248 |
| 11 Coraciiformes | 257 |
| 11.01 Coraciidae: Rollers | 257 |
| 11.02 Momotidae: Motmots | 260 |
| 11.03 Alcedinidae: Kingfishers | 262 |
| 11.04 Halcyonidae: Kingfishers | 262 |
| 11.05 Cerylidae: Kingfishers | 262 |
| 11.06 Meropidae: Bee-eaters | 271 |
| 12 Coliiformes | 276 |
| 12.01 Coliidae: Mousebirds | 276 |
| 13 Cuculiformes | 280 |
| 13.01 Cuculidae: Old World Cuckoos | 280 |
| 13.02 Centropodidae: Coucals | 281 |
| 13.03 Crotophagidae: New World Cuckoos | 284 |
| 14 Psittaciformes | 286 |
| 14.01 Psittacidae: Parrots | 286 |
| 15 Trochiliformes | 381 |
| 15.01 Trochilidae: Hummingbirds | 381 |
| 16 Musophagiformes | 387 |
| 16.01 Musophagidae: | 387 |
| 16.01a Musophaginae <i>True Turacos</i> | 387 |
| 16.01b Criniferinae <i>Go-Away Birds</i> | 394 |

| | |
|--|-----|
| 17 Strigiformes | 397 |
| 17.01 Tytonidae: Barn owls | 397 |
| 17.02 Aegothelidae: Owlet-Nightjars | 403 |
| 17.03 Podargidae: Frogmouths | 408 |
| 17.04 Caprimulgidae: Nightjars & Nighthawks | 411 |
| | |
| 18 Columbiformes | 417 |
| 18.01 Columbidae: Pigeons & Doves | 417 |
| | |
| 19 Gruiformes | 437 |
| 19.01 Otididae: Bustards | 437 |
| 19.02 Gruidae: Cranes | 461 |
| 19.03 Psophiidae: Trumpeters | 467 |
| 19.04 Cariamidae: Seriemas | 469 |
| 19.05 Rallidae: Gallinules, Rails & Crakes | 474 |
| | |
| 20 Ciconiiformes | 484 |
| 20.01 Pteroclididae: Sandgrouse | 484 |
| 20.02 Scolopacidae: Waders | 487 |
| 20.03 Jacanidae: Jacanas | 491 |
| 20.04 Burhinidae: Thick-Knees | 493 |
| 20.05 Charadriidae: | 495 |
| 20.05a Recurvirostridae <i>Stilts</i> | 495 |
| 20.05b Charadriinae <i>Plovers</i> | 499 |
| 20.06 Laridae: | 503 |
| 20.06a Larinae <i>Gulls</i> | 503 |
| 20.06b Alcinae <i>Alcids</i> | 510 |
| 20.07 Accipitridae: Eagles & Old World Vultures | 513 |
| 20.08 Falconidae: Falcons & Kestrels | 525 |
| 20.09 Ardeidae: Herons, Bitterns & Egrets | 536 |
| 20.10 Scopidae: Hammerkop | 541 |
| 20.11 Phoenicopteridae: Flamingoes | 542 |
| 20.12 Threskiornithidae: Ibis & Spoonbill | 555 |
| 20.13 Pelicanidae: | 562 |
| 20.13a Balaeniciptinae <i>Shoebill</i> | 562 |
| 20.13b Pelecaninae <i>Pelicans</i> | 562 |
| 20.14 Ciconiidae: | 568 |
| 20.14a Ciconiinae <i>Storks</i> | 568 |
| 20.15 Spheniscidae: Penguins | 577 |
| 20.16 Procellariidae: | 584 |
| 20.16a Procellariinae <i>Petrels</i> | 584 |

| | |
|---|-----|
| 21 Passeriformes | 589 |
| 21.01 Pittidae: Pittas | 590 |
| 21.02 Eurylaimidae: Broadbills | 594 |
| 21.03 Tyrannidae: | 600 |
| 21.03a Cotinginae <i>Cotingas</i> | 600 |
| 21.04 Ptilonorhynchidae: Catbirds & Bowerbirds | 612 |
| 21.05 Maluridae: Australian Wrens | 620 |
| 21.06 Meliphagidae: Honeyeaters | 624 |
| 21.07 Irenidae: Leafbirds | 632 |
| 21.08 Laniidae: True Shrikes | 634 |
| 21.09 Corvidae: | 640 |
| 21.09a Corvinae <i>Crows, Jays & Allies</i> | 640 |
| 21.09ai Corvini <i>Jays & Pies</i> | 640 |
| 21.09aaii Paradisaeini <i>Birds of Paradise</i> | 650 |
| 21.09aaiii Dicrurini <i>Drongos</i> | 660 |
| 21.10 Bombycillidae: | 661 |
| 21.10ai Bombycillini <i>Waxwings</i> | 661 |
| 21.11 Muscicapidae: | 665 |
| 21.11a Turdinae <i>True Thrushes</i> | 665 |
| 21.11b Muscicapinae | 677 |
| 21.11bi Muscicapini <i>Old World Flycatchers</i> | 677 |
| 21.11bii Saxicolini <i>Chats & Robin-chats</i> | 680 |
| 21.12 Sturnidae: | 691 |
| 21.12ai Sturnini <i>Starlings & Mynahs</i> | 691 |
| 21.13 Hirundinidae: Swallows | 704 |
| 21.14 Pycnonotidae: Bulbuls | 708 |
| 21.15 Zosteropidae: White-eyes | 713 |
| 21.16 Sylviidae: | 716 |
| 21.16a Garrulacinae <i>Laughingthrushes</i> | 716 |
| 21.16bi Timaliini <i>Babblers</i> | 718 |
| 21.17 Alaudidae: Sparrowlarks | 728 |
| 21.18 Nectariniidae: | 729 |
| 21.18ai Nectariniini <i>Sunbirds</i> | 729 |
| 21.19 Passeridae: | 734 |
| 21.19a Passerinae <i>Old World Sparrows</i> | 734 |
| 21.19b Motacillinae <i>Wagtails</i> | 739 |
| 21.19c Ploceinae <i>Weavers</i> | 740 |
| 21.19di Estrildini <i>Waxbills & Finches</i> | 752 |
| 21.19dii Viduini <i>Whydahs & Indigobirds</i> | 781 |
| 21.20 Fringillidae: | 785 |
| 21.20a Fringillinae | 785 |
| 21.20ai Carduelini <i>Canaries</i> | 785 |
| 21.20b Emberizinae | 790 |
| 21.20bi Emberizini <i>Buntings</i> | 790 |
| 21.20bii Parulini <i>Wood Warblers</i> | 795 |
| 21.20biii Thraupini <i>Tanagers</i> | 801 |
| 21.20biv Cardinalini <i>Cardinals</i> | 806 |
| 21.20v Icterini <i>Old & New World Orioles</i> | 811 |