

INDEX TO VOLUME 72, 1960

This index includes, in addition to names of genera, species, and authors, references to the following topics: anatomy, behavior, distribution, food habits, fossils, measurements, migration, molts and plumages, nesting, parasitism, physiology, populations, predation, taxonomy, voice, and weights. Also included are references of biological significance to mammals, reptiles, and amphibians.

- Acanthis flammea*, 115, 406
Accipiter bicolor, 187
 cooperii, 187
 gentilis, 164, 187
 striatus, 164
Acridotheres cristatellus, 196
Acrocephalus familiaris familiaris, 244
Actitis macularia, 190
Adamastor cinereus, 184
Aechmophorus occidentalis, 184, 394
Aëronautes saxatalis, 193
Aethia cristatella, 192
 pusilla, 192
Agelaius phoeniceus, 196, 198, 200, 402
Agriocharis ocellata, 189
Aix sponsa, 186, 238
Ajaia ajaja, 185
Alauda arvensis, 194
Albatross, Black-browed, 184
 Black-footed, 184
 Short-tailed, 184
 White-capped, 184
 Yellow-nosed, 184
Alca torda, 192, 407
Allin, A. E., review by, 206-207
Amazilia tzacatl, 194
Amphibians, 402
 Rana pipiens, 402
Amphispiza belli, 197
Anas, 152-153, 245
 acuta, 30, 139, 186
 carolinensis, 30, 186
 castanea, 149
 crecca, 139, 186
 cyanoptera, 246
 discors, 32, 186
 flavirostris, 139
 georgica, 139
 platyrhynchos, 30, 133, 186, 245, 247, 394
 p. laysanensis, 152, 244, 247
 p. wyvilliana, 152, 245
 rubripes, 133, 186
 smithi, 246
 strepera, 30, 139, 186
Anatomy, 60-104, 248-251
Anderson, Harry G., Food Habits of Migrating Ducks in Illinois, reviewed, 205-206
Anhinga, 185
Anhinga anhinga, 185
Ani, Groove-billed, 193
 Smooth-billed, 193
Anoüs stolidus, 192
Anser albifrons, 185
 a. domesticus, 186
 brachyrhynchus, 56
Anthus pratensis, 196
 spinoletta, 196
Antshrike, Barred, 194
Ant-Tanager, Red-crowned, 105-106
 Red-throated, 105
Antwren, Dot-winged, 106
Aphelocoma, 250
 coerulescens, 195, 250
Aptenodytes forsteri, 213
 patagonica, 213
Aquila chrysaëtos, 187
Ara chloroptera, 193
 macao, 193
 militaris, 193
Aracari, Collared, 194
Aramides cajanea, 189
Aramus guarana, 189
Archilochus colubris, 193, 200
Ardea cinerea, 185
 herodias, 198, 289
Arenaria interpres, 190
 melanocephala, 190
Asio flammeus, 193
 otus, 164, 193
Atlapetes, Chestnut-capped, 196
Atlapetes brunnei-nucha, 196
Auklet, Cassin's, 192
 Crested, 192
 Least, 192
 Rhinceros, 193
Aulacorhynchus prasinus, 194
Auriparus flaviceps, 195
Avocet, American, 191
Aythya affinis, 30, 186
 americana, 30, 186
 collaris, 30
 ferina, 186
 julgula, 186
 marila, 186
 valisineria, 30, 186
Baldpate, 404
Bartramia longicauda, 190
Beals, Edward, Forest bird communities in the Apostle Islands of Wisconsin, 156-181
Behavior, 8-9, 13-14, 105-107, 115-155, 198-201, 213-221, 232-247, 341-357, 393-401, 403-405, 407-409
Bellrose, Frank C., Lead Poisoning as a

- Mortality Factor in Waterfowl Populations, reviewed, 205
- Bellrose, Frank C. and James G. Sieh, Massed waterfowl flights in the Mississippi Flyway, 1956 and 1957, 29-59
- Bender, R. O., American Coot successfully escapes from a Bald Eagle, 404-405
- Berger, Andrew J., Some anatomical characters of the Cuculidae and the Musophagidae, 60-104
- Bigwood, Jean, see Bigwood, Kenneth and Bigwood, Kenneth and Jean Bigwood, A Treasury of New Zealand Bird Song, reviewed, 421-422
- Bittern, American, 185
Least, 185, 355
- Blackbird, 195
Redwinged, 196, 198, 200, 402
Yellow-headed, 196
- Bluebird, Eastern, 195
- Bobolink, 196, 266-267
- Bobwhite, 188, 201
- Bombycilla cedrorum*, 165, 196
garrula, 196
- Bonasa umbellus*, 188
- Booby, Blue-faced, 185
Blue-footed, 185
Brown, 185
Red-footed, 185
- Borgelt, Leo H., Common Crackles anting with mothballs, 408-409
- Borror, Donald J. and William W. H. Gunn, Songs of Warblers of Eastern North America, reviewed, 111-112
- Botaurus lentiginosus*, 185
- Brachyramphus marmoratum*, 192
- Brambling, 196
- Brant, 185
- Branta bernicla*, 185
canadensis, 38, 185, 288, 385
c. interior, 385
leucopsis, 185
- Breckenridge, W. J., review by, 297-298
- Bubo virginianus*, 193, 397
- Bucephala albeola*, 30, 186
islandica, 186
- Bucorvus*, 72
- Bufflehead, 30, 186, 394
- Bullfinch, 119, 124
- Bunting, Indigo, 165, 170, 280
Snow, 197
Varied, 196
- Burhinus bistriatus*, 191
- Bushitit, Common, 195
- Buteo*, 396
jamaicensis, 187, 200, 396
lagopus, 187
lineatus, 187, 201
platypterus, 187
swainsoni, 187
- Cacomantis*, 84, 94
- Cairina moschata*, 186
- Calcarius lapponicus*, 197
- Calidris canutus*, 191
- Callipepla squamata*, 188
- Calypte anna*, 193
costae, 193
- Campylorhynchus brunneicapillum*, 195
- Canachites canadensis*, 188
- Canary, 124
- Canvasback, 30, 38, 41-43, 186, 394
- Capella gallinago*, 190
- Caprimulgus vociferus*, 290
- Caracara, 187
Guadalupe, 187
- Caracara cheriway*, 187
lutosus, 187
- Cardinal, 196
- Carduelis carduelis*, 124, 197
- Carpococcyx*, 72-73, 75-78, 82, 84, 86, 90-92, 95, 98-100
radiceus, 60, 84-85
- Carpodacus mexicanus*, 196
purpureus, 165, 196
- Carter, Charles E., Ground nest of Florida Red-shouldered Hawk, 201-202
- Casmereodius albus*, 185
- Cassidix mexicanus*, 196
- Catbird, 195, 355
- Catharacta skua*, 191, 220
- Cathartes atratus*, 187
aura, 187, 395
- Catoptrophorus semipalmatus*, 190
- Centrocerus urophasianus*, 188
- Centropus*, 72-78, 83-84, 86, 90-92, 95, 98-100
ateralbus, 92
bengalensis, 60
sinensis, 84
superciliosus, 60, 92-93
- Centurus hypopoliis*, 194
- Cepphus columba*, 192
grylle, 192, 407
- Cerorhinca monocerata*, 193
- Certhia familiaris*, 164, 195
- Ceuthmochares*, 73-78, 84, 91, 95, 98-100
aereus, 60
- Chachalaca, 188
Black, 188
Dusky-headed, 188
- Chaetura pelagica*, 164, 193
rutila, 193
spinicauda, 193
vauxi, 193
- Chaffinch, 123-124, 129-130
- Chalcites basalis*, 60
- Charadrius hiaticula*, 190
semipalmatus, 190
vociferus, 190
- Chat, Yellow-breasted, 196
- Chen caerulescens*, 40
hyperborea, 38, 288
rossii, 288

- Chickadee, Black-capped, 164, 166, 170, 195, 406
 Carolina, 195
Chicken, Greater Prairie, 188
Chlidonias niger, 192
Chloris chloris, 124
Chondestes grammacus, 197
Chondestes irroratus, 187
Chordeiles minor, 193
Chrysococcyx, 72-73, 75-78, 80, 84, 90, 94, 96, 98-100
 basalis, 60
 caprius, 60, 71
 cupreus, 60, 71
 klaas, 60
Ciccaba virgata, 193
Cinclus mexicanus, 195
Circus cyaneus, 187, 401
Clamator, 73, 75-78, 80, 82, 84, 90, 94, 96, 98-100
 glandarius, 81
 jacobinus, 60, 82
 levallantii, 82
Clangula hyemalis, 186
Clement, Roland C., review by, 207
Coccothraustes coccothraustes, 119
Coccyzus, 73, 75-78, 82, 84, 94, 98-100, 272
 americanus, 60, 193
 erythrophthalmus, 60, 164, 193
Cochran, William W., see Graber, Richard R. and —
Colaptes auratus, 194, 270, 272, 406
Colinus nigrogularis, 188
 virginianus, 188, 201
Collins, Henry Hill, Jr., Complete Field Guide to American Wildlife, reviewed, 109-111 (subject of Letter to Editor, 294-296); Bent's Life Histories of North American Birds, reviewed, 293-294
Columba livia, 193
Columbigallina passerina, 193
Condor, 395
Contopus virens, 164, 194, 406
Conuropsis carolinensis, 274
Coot, American, 189, 396, 404-405
 European, 189
Cormorant, 394
 Brandt's, 185
 Double-crested, 185, 406
 Great, 185
 Olivaceous, 185
Corvus, 250-251
 brachyrhynchos, 164, 195, 248-251, 405, 407
 b. brachyrhynchos, 249
 b. paulus, 248
 caurinus, 248-249, 397
 corax, 164, 195, 248, 250, 407
 c. principalis, 248, 251
 c. sinuatus, 248, 251
 cornix, 195
 frugilegus, 195, 400
 ossifragus, 248, 250, 405
Corythaeola, 81
 cristata, 81
Corythaixoides concolor, 81
 personata, 81
Coturnicops noveboracensis, 189
Coua, 63, 67-68, 72-73, 75-79, 84, 86, 90-91, 95, 98-100
 caerulea, 60, 63-64, 66-68, 78-79, 84, 86
 coquereli, 78
 cristata, 60, 78-79
 cursor, 78-79
 gigas, 78-79
 reynaudii, 60, 78-79
 ruficeps, 60, 78-79, 84, 86-87, 90
 serriana, 60, 78-79
 verreauxi, 78
Cowbird, Brown-headed, 10, 14, 165, 173, 196
Cox, George W., A life history of the Mourning Warbler, 5-28
Crake, Corn, 189
 Mexican, 189
 Spotted, 189
Crane, 396
 Florida Sandhill, 361
 Greater Sandhill, 361
 Sandhill, 74, 189, 358-384
 Whooping, 74, 189
Crax rubra, 188
Creepers, Brown, 164, 172, 195
Crex crex, 189
Crinifer piscator, 81, 83
Crocethia alba, 191
Crossbill, Red, 123, 197
Crotophaga, 73-78, 82, 84, 86, 90-92, 95, 98-100
 ani, 84, 193
 sulcirostris, 60, 93, 193
Crow, Common, 158, 164, 170, 195, 248-252, 405, 407
 Fish, 248, 405
 Hooded, 195
 Northwestern, 397
Crypturellus boucardi, 183
 cinnamomeus, 183
 soui, 183
Cuckoo, Black-billed, 164, 170, 193
 Squirrel, 193
 Yellow-billed, 193
Cuculus, 60, 71-73, 75-78, 80, 83-84, 86, 90, 94, 96, 98-100
 canorus, 60, 71, 84
Curassow, 188
Curlew, Bristle-thighed, 190
 Eskimo, 190
 Eurasian, 190
 Long-billed, 190
Cuthbert, Nicholas L., review by, 207-208
Cyanocitta, 250-251
 cristata, 10, 164, 195, 400, 403, 409
 stelleri, 250, 400

- Cygnus olor*, 185
Cypseloides fumigatus, 193
niger, 193
Cyrtonyx montezumae, 188
Daption capensis, 184
Dasylophus superciliosus, 91
 Delacour, Jean, The Waterfowl of the World, reviewed, 411-413
Dendragapus obscurus, 188, 396
Dendrocopos nuttallii, 194
pubescens, 164, 194
villosus, 164, 194, 406
Dendrocygna arborea, 186
autumnalis, 186
bicolor, 186
viduata, 186
Dendroica auduboni, 407
caerulescens, 165
castanea, 258
coronata, 8
fusca, 8, 165
magnolia, 165, 258, 406
pennsylvanica, 8, 165
petechia, 196, 235
pinus, 165
virens, 8, 165
Dendrortyx leucophrys, 189
macroura, 189
 Dickcissel, 196, 270
 Dilger, William C., Agonistic and social behavior of captive redpolls, 115-132
Diomedea albatrus, 184
cauta, 184
chlororhynchus, 184
melanophris, 184
nigripes, 184
Diplopterus, 95
 Dipper, 195
 Distribution, 6-7, 105, 163-179, 226, 229-230, 274-289, 392-397, 399, 401-402, 404-407
Dolichonyx oryzivorus, 196, 266, 272
 Dotterel, 190
 Dove, Ground, 193
 Mourning, 193
 Rock, 193
 Dovekie, 192
 Dowitcher, Long-billed, 191
 Short-billed, 191
Dromococcyx, 61, 72-73, 75-78, 80, 90-91, 95-96, 98-100
pavoninus, 60
Dryocopus pileatus, 164, 194
 Duck, 394
 Black, 42-43, 133-155, 186, 404
 Black-bellied Tree, 186
 Fulvous Tree, 186
 Hawaiian, 245
 Muscovy, 186
 Ring-necked, 30, 34, 41-43
 Ruddy, 30, 42, 187
 Tufted, 186
 West Indian Tree, 186
 White-faced Whistling, 186
 Wood, 186, 238-243
Dumetella carolinensis, 195, 355
 Dunlin, 191
 Eagle, Bald, 164, 172, 187, 395, 404-405
 Golden, 187
 Gray Sea, 187
Ectopistes migratorius, 193, 274
 Edwards, Ernest P., review by, 419-420
 Egret, Common, 185
 Little, 185
Egretta garzetta, 185
 Eider, Common, 133, 186
 King, 186
Elanus leucurus, 187
Emberiza, 129
Empidonax atriceps, 194
difficilis, 194
flaviventris, 164
minimus, 164
traillii, 164
 Enderson, James Harris, A population study of the Sparrow Hawk in east-central Illinois, 222-231
Eremophila alpestris, 194
Ereunetes mauri, 191
pusillus, 191
Erolia alpina, 191
maritima, 191
melanotos, 191
minutilla, 191
Eudocimus albus, 185
ruber, 185
Eudromias morinellus, 190
Eudynamis, 74, 80, 84, 94, 98-100
Eudypetes crestatus, 214
Falco columbarius, 188
peregrinus, 187
rusticolus, 187
sparverius, 188, 222
tinnunculus, 188
 Falcon, Peregrine, 187
 Fieldfare, 195
 Finch, House, 196
 Purple, 165, 173, 196
 Flamingo, American, 185
 Flicker, Yellow-shafted, 164, 166, 169, 177, 194, 270, 406
 Flycatcher, Ash-throated, 194
 Costa Rican, 194
 Great Crested, 164, 170
 Least, 162, 164, 166, 172
 Traill's, 164, 170
 Vermilion, 194
 Western, 194
 Yellow-bellied, 164, 166, 170, 177
 Food habits, 9, 20-21, 78, 115-116, 126-127, 129, 200, 217-220, 247, 289, 402, 406
Forpus cyanopygius, 193
 Fossils, 394
Fratercula arctica, 193, 406
Fregata magnificens, 185
 Frigate-bird, Magnificent, 185

- Fringilla coelebs*, 123
 montifringilla, 196
Fulica americana, 189, 396, 404
 atra, 189
Fuller, Margaret F., Courting dance of the
 Whip-poor-will, 290-291
Fulmar, 184
Fulmarus glacialis, 184
Gabrielson, Ira N., Wildlife Conservation,
 reviewed, 207
Gadwall, 30-32, 38, 42-43, 139, 186
Gallinula chloropus, 189
Gallinule, Common, 189
 Purple, 189
Gallus domesticus, 189
Gannet, 185, 406-407
Gavia arctica, 184, 394
 immer, 184, 394
 stellata, 184, 394
Geococcyx, 73, 75-79, 84, 86, 90-91, 95, 98-
 100
 californianus, 60, 355
Geothlypis trichas, 8, 165, 200
Godwit, Bar-tailed, 191
 Black-tailed, 191
 Hudsonian, 191
 Marbled, 191
Golden, Jack S., see Graber, Richard R. and

- Goldeneye, Barrow's, 186
Goldfinch, American, 120, 197, 406
 European, 124, 197
Goodman, Jeanne Moore, *Aves incendiaria*,
 400-401
Goose, 39, 394
 Barnacle, 185
 Blue, 40-41
 Canada, 38, 40, 185, 288, 385-391
 Domestic, 186
 Pink-footed, 56
 Ross, 288-289
 Snow, 38, 40-41, 288
 White-fronted, 185
Goshawk, 164, 172, 187
Graber, Richard R. and William W. Coch-
 ran, Evaluation of an aural record of
 nocturnal migration, 253-273
Graber, Richard R. and Jack S. Golden,
 Hawks and Owls: Population Trends
 from Illinois Christmas Counts, reviewed,
 420-421
Grackle, Boat-tailed, 196
 Common, 107, 196, 408-409
Grebe, 394
 Eared, 184
 Horned, 184
 Pied-billed, 184
 Sun, 190
 Western, 184
Greenfinch, 124
Greenlet, Tawny-crowned, 105
Greider, Marie and Elizabeth Sidwell
 Wagner, Black Vulture extends breeding
 range northward, 291
Griscom, Ludlow, Birds of Martha's Vine-
 yard with an Annotated Check List, re-
 viewed, 204-205
Grosbeak, Evening, 196
 Pine, 196, 406
 Rose-breasted, 165, 172, 196
Grouse, 396
 Blue, 188, 396
 Ruffed, 188
 Sage, 188
 Sharp-tailed, 188
 Spruce, 188
Grus americana, 74, 189
 canadensis, 189, 358
 c. canadensis, 358, 363, 375, 396
 c. pratensis, 358, 362
 c. tabida, 74, 358, 363
Guan, Crested, 188
 Horned, 188
Guillemot, Black, 192, 407
 Pigeon, 192
Guira, 73-78, 82, 84, 86, 90-91, 95, 98-100
 guira, 60, 93
Gull, 39
 Black-headed, 192
 Bonaparte's, 192
 Glaucous, 191
 Glaucous-winged, 191
 Great Black-backed, 192, 407
 Heermann's, 192
 Herring, 192, 406
 Ivory, 192
 Laughing, 192
 Mew, 192
 Ring-billed, 192
 Ross', 192
 Sabine's, 192
Gunn, William W. H., see Borrer, Donald J.
 and _____
- Gymnogyps californianus*, 395
Gymnorhinus cyanocephala, 195
Gymnoschizorhis personata, 81
Gyr Falcon, 187
Habia gutturalis, 105
 rubica, 105
Haematopus ostralegus, 190
 *palliatu*s, 190
Hailman, Jack P., Encounters between Barn
 Swallows and a Mockingbird, 106-107;
 A field study of the Mockingbird's wing-
 flashing behavior and its association with
 foraging, 346-357; Anting of a captive
 Slate-colored Junco, 398-399
Haliaeetus albicilla, 187
 leucocephalus, 164, 187, 395, 405
Hamilton, William J. III and Merrill C.
 Hammond, Oriented overland spring mi-
 gration of pinioned Canada Geese, 385-
 391
Hammond, Merrill C., see Hamilton, Wil-
 liam J. III and _____
Harrison, Hal H., photograph by, facing 5

- Hartshorne, Charles, review by, 421-422
 Haugen, Arnold O., see Martin, Elwood M.
 and _____
 Hawfinch, 119, 124
 Hawk, 39
 Bicolored, 187
 Broad-winged, 187
 Cooper's, 187
 Marsh, 187, 401-402
 Pigeon, 188
 Red-shouldered, 187, 201-202
 Red-tailed, 187, 200
 Rough-legged, 187
 Sharp-shinned, 164, 172
 Small Forest, 187
 Sparrow, 188, 222-231
 Swainson's, 187
 White, 187
 Heard, William R., A record of swimming
 in Bobwhites, 201
 Heinroth, Katharina, see Heinroth, Oskar
 and _____
 Heinroth, Oskar and Katharina Heinroth,
 The Birds, reviewed, 204
Heliornis fulica, 190
Helmitheros vermivorus, 105
 Hen, 189
 Guinea, 189
Henicorhina leucosticta, 105
 Heron, 394
 Black-crowned Night, 185
 Gray, 185
 Great Blue, 198, 289
 Louisiana, 355
Hesperiphona vespertina, 196
Heteroscelus brevipes, 190
 incanum, 190
Himantopus mexicanus, 191
Himatione sanguinea freethi, 244
Hirundo rustica, 106, 195, 407
 Honeyeater, Laysan, 244
 Houghton Mifflin Company, A Field Guide
 to Bird Songs, reviewed, 207-208
 Houston, C. Stuart and Maurice G. Street,
 The Birds of the Saskatchewan River,
 Carlton to Cumberland, reviewed, 206-207
 Hummingbird, Anna's, 193
 Costa's, 193
 Lesser Broad-tailed, 194
 Rieffer's, 194
 Ruby-throated, 177, 193, 200
 Rufous, 194
 Hunter, D. K., see Selander, Robert K. and

Hydranassa tricolor, 355
Hydroprogne caspia, 192
Hylocichla, 267, 270
 fuscescens, 164, 195, 272, 406
 guttata, 164, 195, 258
 minima, 195, 258, 272
 mustelina, 117, 195
 ustulata, 164, 195, 258, 272
Hylophilus ochraceiceps, 105
 Ibis, Glossy, 185
 Scarlet, 185
 White, 185
 Wood, 185
Icteria virens, 196
Icterus galbula, 165, 200
 pustulatus, 196
 spurius, 398
 International Committee for Bird Preserva-
 tion, VII Bulletin, reviewed, 422
Iridoprocne bicolor, 194
Ixobrychus exilis, 185, 355
 Jacana, 190
Jacana spinosa, 190
 Jacksnipe, European, 190
 Jaeger, Long-tailed, 191
 Parasitic, 191
 Pomarine, 191
 Jay, Blue, 10, 158, 164, 172, 195, 400, 403,
 409
 Gray, 406
 Piñon, 195
 Scrub, 195
 Steller's, 400
 White-tipped Brown, 195
 Jehl, Joseph R., Jr., Bell's Vireo in New
 Jersey, 404
 Johnsgard, Paul A., A quantitative study of
 sexual behavior of Mallards and Black
 Ducks, 133-155
 Johnson, J. C., Jr., and Charles A. Long,
 Common Grackle heavily infested with
 Mallophaga, 107
 Johnston, David W. and Francis S. L. Wil-
 liamson, Heart weights of North Ameri-
 can crows and ravens, 248-252
 Junco, Oregon, 197
 Slate-colored, 197, 398-399, 406
 White-winged, 197
Junco aikeni, 197
 hyemalis, 197, 398, 406
 oreganus, 197
 Kestrel, 188
 Kieran, John, A Natural History of New
 York City, reviewed, 298
 Killdeer, 190
 Kingbird, Arkansas, 403
 Cassin's, 194
 Eastern, 194
 Western, 194
 Kingfisher, Belted, 194
 Kinglet, Golden-crowned, 165, 170, 196, 406
 Kite, Everglade, 187
 Hook-billed, 187
 White-tailed, 187
 Kittiwake, Black-legged, 192, 406-407
 Knot, 191
Lagopus lagopus, 188
 leucurus, 188
 mutus, 188
Lampromorpha caprius, 60, 71
 klaas, 60

- Lanius excubitor*, 196
 ludovicianus, 106
Lapwing, 190
Larimer, Edward J., Winter Foods of the
 Bobwhite in Southern Illinois, reviewed,
 420
Lark, Horned, 194
Larus argentatus, 192, 406
 atricilla, 192
 canus, 192
 delawarensis, 192
 glaucescens, 191
 heermanni, 192
 hyperboreus, 191
 marinus, 192, 407
 philadelphia, 192
 ridibundus, 192
Laterallus albigularis, 189
Leopold, A. Starker, Wildlife in Mexico.
 The Game Birds and Mammals, reviewed,
 413-415
Leucopternis albicollis, 187
Limnodromus griseus, 191
 scelopaceus, 191
Limosa fedoa, 191
 haemastica, 191
 lapponica, 191
 limosa, 191
Limpkin, 189
Lobipes lobatus, 191
Long, Charles A., see Johnson, J. C., Jr.,
 and _____
Longspur, Lapland, 197
Longley, Wm. H., Comment on the flight
 distance of the Great Blue Heron, 289
Loon, 394
 Arctic, 184
 Common, 184
 Red-throated, 184
Lophodytes cucullatus, 187
Lophortyx californicus, 188
 gambelii, 188
Loxia curvirostra, 123, 197
Lunda cirrhata, 193
Lymnocyptes minimus, 190
Macaw, Green, 193
 Red-and-Green, 193
 Scarlet, 193
Macdonald, J. D., Instructions to Young
 Ornithologists: Bird Biology, reviewed,
 298
McKinley, Daniel, The Carolina Parakeet
 in pioneer Missouri, 274-287
Magpie, Black-billed, 195
Malcomson, Richard O., Mallophaga from
 birds of North America, 182-197
Mallard, 30-34, 37-43, 133-155, 186, 245-
 247, 394, 404
 Hawaiian, 152
 Laysan, 152
Mammals
 Citellus franklini, 9
 C. tridecemlineatus, 9
 Eutamias minimus, 9
 Mus musculus, 222
 Odocoileus virginianus, 157
 Procyon lotor, 9
 Sciurus hudsonicus, 9
 Sylvilagus floridanus, 402
 Tamias striatus, 9
Manacus candei, 194
Manakin, White-collared, 194
Manville, Richard H., Birds breeding at Cap
 des Rosiers, Québec, 406-407
Mareca americana, 43, 186
 penelope, 186
Martin, Elwood M. and Arnold O. Haugen,
 Seasonal changes in Wood Duck roosting
 flight habits, 238-243
Martin, Gray-breasted, 195
 Purple, 195
Mayr, Ernst and James C. Greenway, Jr.
 (editors), Check-list of Birds of the
 World, reviewed, 415-419
Meadowlark, Eastern, 196
Measurements, 15-16, 245, 249-250, 289, 404
Megaceryle alcyon, 194
Megadyptes antipodes, 214
Melanerpes erythrocephalus, 409
 formicivorus, 194
Melanitta deglandi, 187
 fusca, 186
 perspicillata, 187
Melanotis hypoleucus, 355
Meleagris gallopavo, 189
Melospiza melodia, 165, 232
 m. samuelis, 236
Merganser, Common, 187
 Hooded, 187
 Red-breasted, 187
Mergus merganser, 187
 serrator, 187
Micrastur ruficollis, 187
Microrhopias quixensis, 105-106
Migration, 6-7, 29-59, 253-273, 358-391
Miller, Loye, Some Indian midden birds
 from the Puget Sound area, 392-397
Millerbird, Laysan, 244
Mimus gilvus, 341, 355
 polyglottos, 106, 341, 346, 355
 saturninus, 341, 355
Mniotilta varia, 8, 105, 165
Mockingbird, 106-107, 341-357
 Blue, 355
 Calandria, 341, 354
 Graceful, 355
Molothrus ater, 10, 165, 196
Molts and plumages, 24, 245-247
Momotus mexicanus, 194
 momota, 194
Morococcyx, 73, 75-79, 84, 86, 90-91, 95,
 98-100
 erythropygus, 60, 93
Morus bassanus, 185, 406
Motacilla alba, 196
 flava, 196

- Motmot, Blue-crowned, 194
 Rufous-crowned, 194
 Murre, Common, 192, 407
 Murrelet, Ancient, 192
 Marbled, 192
Musophaga, 78, 86
 paulina, 83
 violacea, 83
Mycteria americana, 185
Myiarchus cinerascens, 194
 crinitus, 164
Myiobius sulphureipygius, 105
 Myna, Crested, 196
Neomorphus, 95, 98-100
 Nesting, 5-10, 14-24, 200-202, 214-218, 229-230, 288, 401-402
 Nighthawk, Common, 193
Nothocercus bonapartei, 183
Nucifraga columbiana, 195
Numenius americanus, 190
 arquata, 190
 borealis, 190
 phaeopus, 190
 tahitiensis, 190
Numida meleagris, 189
 Nutcracker, Clark's, 195
 Nuthatch, Red-breasted, 164, 170
 White-breasted, 164, 166, 170, 406
Nyctea scandiaca, 193
Nycticorax nycticorax, 185
Oceanodroma furcata, 184
 leucorhoa, 184
 macroactyla, 184
Odontophorus erythrops, 189
 gujanensis, 189
 guttatus, 189
 leucolaemus, 189
Oidemia nigra, 187
 Oldsquaw, 186
Olor columbianus, 30, 185
 cygnus, 185
Oncostoma cinereigulare, 105
Oporornis, 253
 agilis, 165
 philadelphia, 5, 165
Oreophasis derbianus, 188
Oreortyx pictus, 188
 Oriole, Baltimore, 165, 173, 177, 200
 Orchard, 398
 Scarlet-headed, 196
 Oropendola, Wagler, 196
 Orr, Howard D. and Theodore W. Sudia,
 Flight distance in the Great Blue Heron,
 198-199
Ortalis garrula, 188
 vetula, 188
 Osprey, 187, 396
Otus asio, 193, 341
 Ovenbird, 8, 162, 165, 173-174, 234, 236,
 258, 289-290
 Owl, Barn, 193
 Burrowing, 193
 Great Gray, 193
 Great Horned, 193, 397
 Long-eared, 164, 172, 193
 Screech, 193, 341-342
 Short-eared, 193
 Snowy, 193
 Squamulated, 193
Oxyura jamaicensis, 30, 187
 Oystercatcher, American, 190
 European, 190
Pachyoccyx, 98, 100
Pagophila eburnea, 192
Pandion haliaetus, 187
Panyptila cayennensis, 288
 sancti-hieronymi, 288
 Parakeet, Carolina, 274-287
 Parasitism, 10, 14, 107, 182-197
 Parkes, Kenneth C., reviews by, 411-413,
 415-419
 Parrotlet, Mexican, 193
 Partridge, Gray, 188
 Highland, 189
 Long-tailed, 189
Parula americana, 8, 165
Parus atricapillus, 164, 195, 406
 carolinensis, 195
 inornatus, 236
Passer domesticus, 196, 403
 montanus, 196
Passerculus sandwichensis, 197
Passerella iliaca, 197
Passerina cyanea, 165, 280
 versicolor, 196
Pavo cristatus, 189
 Paynter, Raymond A., Jr., review by, 413-415
 Peacock, 189
Pedioecetes phasianellus, 188
Pelecanus, 394
 erythrorhynchos, 184
 occidentalis, 184
 Pelican, 394
 Brown, 184
 White, 184
Penelope purpurascens, 188
Penelopina nigra, 188
 Penguin, Adélie, 213, 219-220
 Emperor, 213
 Gentoo, 213
 King, 213
 Rockhopper, 213-221
 Yellow-eyed, 214, 219
Perdix perdix, 188
Perisoreus canadensis, 406
 Peters, James L., Check-list of Birds of the
 World, reviewed, 415-419
 Peterson, Russell Francis, Letter to Review
 Editor, 294-296
 Petrel, Cape, 184
 Fork-tailed, 184
 Guadalupe, 184
 Leach's, 184

- Pettingill, Olin Sewall, Jr., Crèche behavior and individual recognition in a colony of Rockhopper Penguins, 213-221; reviews by, 109-112, 204-205, 298
- Pewee, Eastern Wood, 164, 166, 172, 174, 194, 406
- Phaenicophaeus*, 73, 75-79, 84, 86, 91-92, 95, 98-100
pyrrhocephalus, 60, 91
superciliosus, 91
- Phaëthon aethereus*, 184
rubricauda, 184
- Phainopepla, 196
- Phainopepla nitens*, 196
- Phalacrocorax auritus*, 185, 406
carbo, 185
olivaceus, 185
penicillatus, 185
- Phalarope, Northern, 191
Red, 191
Wilson's, 191
- Phalaropus fulicarius*, 191
- Phasianus colchicus*, 188
- Pheasant, Ring-necked, 188
- Pheucticus ludovicianus*, 165, 196
- Philohela minor*, 190
- Philomachus pugnax*, 191
- Phoebe, Say's, 194
- Phoenicopterus ruber*, 185
- Physiology, 129
- Piaya*, 73, 75-78, 82, 84, 90, 94, 93-100
cayana, 60, 93, 193
- Pica pica*, 195
- Picoïdes arcticus*, 164, 194
tridactylus, 194
- Pigeon, Passenger, 193, 274
- Pinicola enucleator*, 196, 406
- Pintail, 30, 32, 37-38, 42-43, 139, 186, 404
- Pipilo erythrophthalmus*, 165, 197
fuscus, 197
- Pipit, Meadow, 196
Water, 196
- Piranga bidentata*, 196
olivacea, 165
- Platalea leucorodia*, 185
- Platycercus*, 72
- Plautus alle*, 192
- Plectrophenax nivalis*, 197
- Plegadis falcinellus*, 185
- Plover, American Golden, 190
Black-bellied, 190
Ringed, 190
Semipalmated, 190
Upland, 190
- Pluvialis dominica*, 190
- Pochard, Common, 186
- Podiceps auritus*, 184
caspicus, 184, 394
griseigena, 394
- Podilymbus podiceps*, 184
- Populations, 31-34, 37-43, 47, 156-181, 222-231
- Porphyryla martinica*, 189
- Porzana porzana*, 189
- Porzanula palmeri*, 244
- Predation, 9-10, 220, 402, 404-405
- Progne chalybea*, 195
subis, 195
- Protonotaria citrea*, 196
- Psaltriparus minimus*, 195
- Psilorhinus mexicanus*, 195
- Ptarmigan, Rock, 188
White-tailed, 188
Willow, 188
- Pteroglossus torquatus*, 194
- Ptychoramphus aleutica*, 192
- Puffin, Common, 193, 406
Tufted, 193
- Puffinus creatopus*, 184
diomedea, 184
gravis, 184
griseus, 184
herminieri, 184
pacificus, 184
puffinus, 184
- Pygoscelis adeliae*, 213
papua, 213
- Pyrocephalus rubinus*, 194
- Pyrrhocentor, 86
- Pyrrhula pyrrhula*, 119
- Quail, Black-throated, 188
California, 188
Gambel's, 188
Harlequin, 188
Mountain, 188
Scaled, 188
- Quay, T. L., reviews by, 205-206
- Quiscalus quiscula*, 107, 196, 408
- Rail, Clapper, 189
Laysan Island, 244
Virginia, 189
Water, 189
Wood, 189
Yellow, 189
- Rallus aquaticus*, 189
limicola, 189
longirostris, 189
- Ramphastos sulfuratus*, 194
- Ramphocaenus rufiventris*, 105
- Raven, Common, 158, 164, 172, 195, 248, 407
- Razorbill, 192, 407
- Recurvirostra americana*, 191
- Redhead, 30, 32, 38, 186
- Redpoll, Common, 115-132, 406
- Redstart, American, 8, 162, 165, 167, 170, 258, 406
- Red-wing, 195
- Regulus satrapa*, 165, 196, 406
- Reptiles, 402
Thamnophis radix, 402
- Rhamphococcyx*, 92
- Rhodostethia rosea*, 192
- Richmondia cardinalis*, 196
- Riparia riparia*, 195, 404

- Ripley, S. Dillon, Laysan Teal in captivity, 244-247
- Rissa tridactyla*, 192, 406
- Roadrunner, 355
- Robin, 164, 172, 195, 236, 348, 406, 409
Clay-colored, 195
- Robinson, Thane S., reviews by, 420-421
- Rook, 195, 400
- Root, Oscar M., review by, 298
- Rostrhamus sociabilis*, 187
- Ruff, 191
- Sanderling, 191
- Sandpiper, Least, 191
Pectoral, 191
Purple, 191
Semipalmated, 191
Solitary, 190
Spotted, 190
Western, 191
Wood, 190
- Sapsucker, Yellow-bellied, 164, 166, 170, 177, 194, 399
- Sarcophagus papa*, 187
- Saurothera*, 73, 75-78, 82, 84, 91, 94, 98-100
merlini, 60
- Sayornis saya*, 194
- Scaup, 394
Greater, 186
Lesser, 30, 32, 37-38, 41-43, 186
- Scolopax rusticola*, 190
- Scoter, 394
Common, 187
Surf, 187
Velvet, 186
White-winged, 187
- Scythrops*, 80, 84, 90, 94, 98-100
- Seiurus aurocapillus*, 8, 165, 235, 258, 289
- Selander, Robert K. and D. K. Hunter, On the functions of wing-flashing in Mockingbirds, 341-345
- Selasphorus flammula*, 194
rufus, 194
- Serinus canarius*, 124
- Setophaga ruticilla*, 8, 165, 258, 406
- Shearwater, Audubon's, 184
Black-tailed, 184
Cory's, 184
Greater, 184
Manx, 184
Pink-footed, 184
Sooty, 184
Wedge-tailed, 184
- Sheld-Duck, 186
- Shoveler, 30, 42-43, 186
Cape, 246
- Shrike, Loggerhead, 106
Northern, 196
- Sialia sialis*, 195
- Sieh, James G., see Bellrose, Frank C. and _____
- Siskin, Pine, 120, 406
- Sitta canadensis*, 164
carolinensis, 164, 406
- Sittasomus griseicapillus*, 105
- Skua, 191, 220-221
- Skutch, Alexander F., Life Histories of Central American Birds, reviewed, 419-420
- Skylark, 194
- Smart, Glen, Ross Goose taken at Horseshoe Lake, Illinois, 288-289
- Snipe, Common, 190
- Somateria mollissima*, 133, 186
spectabilis, 186
- Sparrow, Chipping, 165, 174
European Tree, 196
Field, 197
Fox, 197
Golden-crowned, 197
House, 196, 403
Lark, 197
Sage, 197
Savannah, 197
Song, 165, 167, 169, 197, 232-237
Tree, 129, 197
White-crowned, 197
White-throated, 162-163, 165, 167, 169, 251, 406
- Spatula clypeata*, 30, 186
- Speotyto cunicularia*, 193
- Sphyrapicus varius*, 164, 194, 399
- Spinus pinus*, 120, 406
tristis, 120, 197, 406
- Spiza americana*, 196, 270, 272
- Spizella arborea*, 129, 197
passerina, 165
pusilla, 197
- Spoonbill, Roseate, 185
White, 185
- Squatarola squatarola*, 190
- Starling, 196, 353, 355, 409
- Steganopus tricolor*, 191
- Stelgidopteryx ruficollis*, 195
- Stercorarius longicaudus*, 191
parasiticus, 191
pomarinus, 191
- Sterna anaethetus*, 192
dougallii, 192
forsteri, 192
fuscata, 192
hirundo, 192, 407
paradisaea, 192
- Stilt, Black-necked, 191
- Street, Maurice G., see Houston, C. Stuart and _____
- Street, Phillips B., review by, 293-294
- Strix nebulosa*, 193
- Strong, Reuben Myron, A Bibliography of Birds, reviewed, 112
- Strosnider, Ruth, Polygyny and other notes on the Redwinged Blackbird, 200
- Sturnus vulgaris*, 196, 353, 355, 409
- Sturnella magna*, 196
- Sudia, Theodore W., see Orr, Howard D. and _____

- Sula dactylatra*, 185
 leucogaster, 185
 nebouxii, 185
 sula, 185
Surniculus, 73, 75-78, 80, 84, 90, 94, 96, 98-100
 lugubris, 60, 90
Suthers, Roderick A., Measurement of some lake-shore territories of the Song Sparrow, 232-237
Swallow, Bank, 195, 404
 Barn, 106-107, 195, 407
 Tree, 194
 Rough-winged, 195
Swan, Mute, 185
 Whistling, 30, 185
 Whooper, 185
Sweny, Fredric, The Techniques of Drawing and Painting Wildlife, reviewed, 297-298
Swift, Black, 193
 Chestnut-collared, 193
 Chimney, 158, 164, 170, 174, 193
 Great Swallow-tailed, 288
 Lesser Swallow-tailed, 288
 Smoky, 193
 Spiny-tailed, 193
 Vaux's, 193
 White-throated, 193
Swinebrood, Jeff, Additional notes on the singing height of Ovenbirds, 289-290
Synthliboramphus antiquum, 192
Tadorna tadorna, 186
Tanager, Scarlet, 165, 170
 Swainson, 196
Tapera, 73, 75-78, 80, 84, 86, 90, 92, 95-96, 98-100
 naevia, 60, 88-89
Tattler, Polynesian, 190
 Wandering, 190
Tauraco, 72-73, 75-77, 83, 91, 100
 corythaix, 63, 71, 81
 c. persa, 81
 erythrolophus, 83
 leucotis, 63, 72-73, 101
 l. donaldsoni, 60-61, 65, 81, 83, 91
 macrorhynchus, 81
 persa buffoni, 81
Taxonomy, 60-106, 248-251
Teal, Blue-winged, 32, 186
 Cinnamon, 246
 Common, 186
 Green-winged, 30, 32, 42-43, 139, 186, 404
 Laysan, 244-247
Tern, Arctic, 192
 Black, 192
 Bridled, 192
 Caspian, 192
 Common, 192, 407
 Forster's, 192
 Noddy, 192
 Roseate, 192
 Royal, 192
 Sandwich, 192
 Sooty, 192
Thalasseus maximus, 192
 sandvicensis, 192
Thamnophilus doliiatus, 194
Thick-knee, Mexican, 191
Thrasher, Brown, 355, 403
Thrush, Gray-cheeked, 195, 258, 267
 Hermit, 164, 166, 173, 195, 258
 Swainson's, 164, 166, 173-174, 179, 195, 258, 267
 Wood, 117, 195
Thryomanes bewickii, 195
Thryothorus maculipectus, 105
Tinamou, Bonaparte's, 183
 Great, 183
 Little, 183
 Rufescent, 183
 Slaty-breasted, 183
Tinamus major, 183
Titmouse, Plain, 236
Tityra, Masked, 194
Tityra semifasciata, 194
Totanus flavipes, 191
 melanoleucus, 191
Toucan, Keel-billed, 194
Toucanet, Emerald, 194
Towhee, Brown, 197
 Rufous-sided, 165, 170, 197
Toxostoma rufum, 355, 403
Tringa glareola, 190
 solitaria, 190
Troglodytes aedon, 164
 trogodytes, 195
Trogon, Coppery-tailed, 194
 Large-tailed, 194
 Violaceous, 194
Trogon elegans, 194
 melanurus, 194
 violaceus, 194
Tropic-bird, Red-billed, 184
 Red-tailed, 184
Turacus donaldsoni, 60
Turdus grayi, 195
 merula, 195
 migratorius, 164, 195, 236, 348, 406, 409
 musicus, 195
 pilaris, 195
Turkey, 189
 Ocellated, 189
Turnstone, Black, 190
 Ruddy, 190
Tympanuchus cupido, 188
Tyrannus tyrannus, 194
 verticalis, 194, 403
 vociferans, 194
Tyto alba, 193
Uria aalge, 192, 407
Vanellus vanellus, 190
Veery, 164, 166, 169, 177, 195, 258, 406
Vermivora celata, 196
 chrysoptera, 8

- peregrina*, 165, 258
pinus, 196
ruficapilla, 8, 165
 Verdin, 195
 Vireo, Bell's, 404
 Red-eyed, 10, 162, 165-166, 173
 Solitary, 162, 165-166, 170, 174, 406
 Warbling, 165, 172
Vireo bellii, 404
 b. bellii, 404
 gilvus, 165
 olivaceus, 10, 165
 solitarius, 165, 406
 Voice, 9-14, 17-18, 24, 105, 120, 126, 245, 270, 290, 341
 Vulture, Black, 187, 291
 King, 187
 Turkey, 187, 395
 Wagner, Elizabeth Sidwell, see Greider, Marie and —
 Wagtail, White, 196
 Yellow, 196
 Walkinshaw, Lawrence H., Migration of the Sandhill Crane east of the Mississippi River, 358-384; review by, 422-424
 Warbler, Audubon's, 407
 Bay-breasted, 258
 Black-and-white, 8, 165, 167, 173
 Blackburnian, 8, 165, 167, 171
 Black-throated Blue, 165, 167, 171
 Black-throated Green, 8, 162-163, 165, 167, 170-172
 Blue-winged, 196
 Canada, 165, 167, 171
 Chestnut-sided, 8, 165, 171
 Connecticut, 165, 170
 Golden-winged, 8
 Magnolia, 165, 172, 174, 258, 406
 Mourning, 5-28, 165, 167, 169
 Myrtle, 8
 Nashville, 8, 165, 167, 173
 Orange-crowned, 196
 Parula, 8, 165, 167, 170
 Pine, 165, 173
 Prothonotary, 196
 Tennessee, 165, 172, 258
 Yellow, 196, 235
 Warner, Dwain W., review by, 204
 Waxwing, Bohemian, 196
 Cedar, 158, 165, 172, 196
 Weights, 16, 248-252
 Whimbrel, 190
 Whip-poor-will, 290-291
 Whitaker, Lovie M., Nests of Lesser Swallow-tailed Swift in Mexico, 288; Behavior of birds on warm surfaces, 403-404
 Wible, Mary, Notes on feeding and fecal-sac disposal of sapsuckers, 399; A fatal and near-fatal strangling accident of small birds, 407
 Widgeon, American, 42-43, 186
 European, 186
 Wilhelm, Eugene J., Jr., Marsh Hawk breeding in northwestern Arkansas, 401-402; The Fish Crow in easternmost Oklahoma, 405
 Willet, 190
 Williams, Gordon R., Thirty New Zealand Birds, reviewed, 421-422
 Williamson, Francis S. L., see Johnston, David W. and —
 Willis, Edwin, Red-crowned Ant-Tanagers, Tawny-crowned Greenlets, and forest flocks, 105-106
Wilsonia canadensis, 165
 Wilson Ornithological Society, 308
 Josselyn Van Tyne Memorial Library, 108, 292
 Membership, 28, 104, 132, 231, (list) 309-338, 345, 409
 Ornithological News, 108, 203, 292, 410
 Proceedings of the Annual Meeting, 299-307
 Woodcock, American, 190
 European, 190
 Woodpecker, Acorn, 194
 Black-backed Three-toed, 164, 172, 194
 Downy, 164, 170, 194
 Gray-breasted, 194
 Hairy, 162, 164, 172, 194, 406
 Northern Three-toed, 194
 Nuttall's, 194
 Pileated, 164, 170, 194
 Red-headed, 409
 Wood-quail, Black-eared, 189
 Marbled, 189
 Spotted, 189
 White-throated, 189
 Wren, Bewick's, 195
 Cactus, 195
 House, 164, 169
 Winter, 195
Xanthocephalus xanthocephalus, 196
Xema sabini, 192
Xenops minutus, 105
Xiphorhynchus flavigaster, 105
 Yellowlegs, Greater, 191
 Lesser, 191
 Yellowthroat, 8-9, 165, 169, 200
Zarhynchus wagleri, 196
Zenaidura macroura, 193
Zonotrichia albicollis, 165, 251, 406
 atricapilla, 197
 leucophrys, 197