

INDEX TO VOLUME 89, 1977

BY BONNIE J. TURNER AND WENDY J. WEBER

- Accipiter cooperii*, 63, 360-369, 593
fasciatus vigilax, 619
gentilis, 360-369
nisus, 361, 599, 620
striatus, 63, 362, 620
- Aceros leucocephalus*, 8
- Acrocephalus schoenobaenus*, 462
scirpaceus, 462
- Actitis macularia*, 167-171, 543-561
- Adkisson, Curtis S., Morphological variation in North American Pine Grosbeaks, 380-395; see Conner, Richard N. and ———
- Aethia cristatella*, 618
pusilla, 618
- age determination
Agelaius phoeniceus, 73
Chlorostilbon canivetii, 160
Ortalis vetula, 48-51
Xanthocephalus xanthocephalus, 73
- age determination of embryos
Larus delawarensis, 250
- Agelaius phoeniceus*, 28, 43-44, 73-80, 221, 231, 253-265, 396-403, 486, 543-561, 583-592
- Aix sponsa*, 231
- Ajaia ajaja*, 97, 157-158, 344
- Alden, Stephen, see Silliman, James G., Scott Mills, and ———
- Alexornis*, 357
- Amadon, D., Further comments on sexual dimorphism in birds, 619-621
- Amakihi, see *Loxops virens*
- Amazilia saucerrottei*, 161
tzacatl, 162
yucatanensis, 345
- Amazona leucocephala bahamensis*, 637
- Ammodramus henslowii*, 222, 231, 432
savannarum, 222, 231, 427, 486
- Ammospermophilus harrisi*, 470
- Ammospiza caudacuta*, 427, 432
- Anas acuta*, 154-157, 332
platyrhynchos, 231, 332, 540, 631
rubripes, 540
strepera, 331
- Ani, Smooth-billed, see *Crotophaga ani*
- annual meeting, Proceedings of 58th, 506-519
- Aphelocoma coerulescens*, 172
ultramarina, 172, 303
- Ara* spp., 632
- Aramus guarauna*, 343
- Archaeopteryx*, 356, 488-492
- Archilochus colubris*, 163
- Ardea herodias*, 266
- Ardeola ibis*, see *Bubulcus ibis*
- Arenaria interpres*, 167-171, 470
- Arnold, Keith A. and Leon J. Folse, Jr., Movements of the Great-tailed Grackle in Texas, 602-608
- Asio flammeus*, 487
- Asyndesmus lewis*, 622
- Auklet, Crested, see *Aethia cristatella*
 Least, see *Aethia pusilla*
- Auriparus flaviceps*, 572-582
- Austin, George T., Production and survival of the Verdin, 572-582
- Avery, Michael, Paul F. Springer, and J. Frank Cassel, Weather influences on nocturnal bird mortality at a North Dakota tower, 291-299
- awards and grants
 Aaron M. Bagg Student Membership Award, 503-504
 Alexander Wilson Prize, 514
 Eastern Bird-Banding Association, 504
 Edwards Prize, 514
 Frank M. Chapman Memorial Fund, 655
 Hawk Mountain Research, 370
 Louis Agassiz Fuertes Award, 514
 Margaret Morse Nice Award, 514
- Balph, Martha Hatch, Sex differences in alarm responses of wintering Evening Grosbeaks, 325-327
- Bananaquit, see *Coereba flaveola*
- banding
Agelaius phoeniceus, 73-80
Canachites canadensis, 67
Carpodacus cassinii, 57-66
Chasiempis sandwichensis, 193-210

- Falco sparverius*, 618-619
Lagopus leucurus, 107-115
Parabuteo unicinctus, 469-470
Passer domesticus, 300-309
Quiscalus mexicanus, 602-608
 warblers, migrant, 456-465
Xanthocephalus xanthocephalus, 73-80
 Baptista, Luis F., Song Dialects and Demes in Sedentary Populations of the White-crowned Sparrow, reviewed, 651-652; review by, 650-651
 Baptonis, 356
 Barlow, J. C., see James, R. D., P. L. McLaren, and ———
 Bart, Johnathan, Winter distribution of Red-tailed Hawks in central New York State, 624-625
Bartramia longicauda, 543-561
 Bateman, Hugh A., see Flickinger, Edward L., David S. Lobbries, and ———
 behavior
 agonistic
 Calidris alba, 434-438
 C. pusilla, 336-338
 Hydranassa tricolor, 266-270
 Nycticorax nycticorax, 351
 Passer domesticus, 477
 Pluvialis squatarola, 471
 Podiceps grisegena, 44
 brooding
 Bonasa umbellus, 449-450
 Caprimulgus vociferus, 476-477
 Chasiempis sandwichensis, 204-206
 Falco sparverius, 618-619
 Hydranassa tricolor, 282-283
 Passer domesticus, 303-305
 Podiceps grisegena, 41-42
 Sphyrapicus varius, 313-315
 courtship
 Chasiempis sandwichensis, 199
 Podiceps grisegena, 33-35
 Streptopelia risoria, 593-601
 defense
 Otus choliba, 609-612
 display
 Carpodacus cassinii, 61-63
 Chasiempis sandwichensis, 199-201
 Hydranassa tricolor, 266-285
 distress
 Caprimulgus vociferus, 476-477
 Hesperiphona vespertina, 325-327
 Nycticorax nycticorax, 351
 Vireo bellii, 349
 dominance
 Carpodacus cassinii, 57-66
 egg rejection
 Icterus galbula, 24-27
 flocking
 Calidris alba, 434-438
 Lagopus leucurus, 110-112
 Pluvialis squatarola, 470-472
 Psilorhinus morio, 171-173
 Ramphocelus passerinii, 151-153
 foraging
 Amazilia yucatanensis, 345
 Buteo jamaicensis, 624-625
 Calidris alba, 434-438
 C. pusilla, 336-338
 Chasiempis sandwichensis, 194
 Coragyps atratus, 328-329
 Cyanocompsa parrellina, 345
 Dendroica coronata, 346, 485
 D. discolor, 158-159
 Euducimus albus, 342-345
 Hummingbirds, Costa Rican, 159-164
 Lampornis calolaema, 613-616
 Larus argentatus, 338, 415-421
 Loxigilla noctis, 339
 Melanitta deglandi, 331
 Pandion haliaetus, 149-150
 Phaethornis guy, 613-616
 Picoides arizonae, 485
 P. scalaris, 485
 Podiceps grisegena, 42-43
 Psilorhinus morio, 171-173
 Rallus longirostris yumanensis, 332-336
 Ramphocelus passerinii, 151-153
 Regulus calendula, 485
 Sialia sialis, 404-414
 Sphyrapicus varius, 315-316
 Spizella pusilla, 625-627
 Uropisila leucogastra, 345
 Vireo flavoviridis, 345
 foraging, ground
 Caprimulgus carolinensis, 165-166
 hunting
 Pithechophaga jefferyi, 2-7

- inter-brood movements
Canachites canadensis, 67-72
- nesting
Agelaius phoeniceus, 73-75
Anas acuta, 154-157
Bonasa umbellus, 439-455
Capella gallinago, 118
Caprimulgus vociferus, 476-477
Cathartes aura, 328-329
Chasiempis sandwichensis, 199-206
Coragyps atratus, 328-329
Larus argentatus, 472-473
Loxigilla noctis, 339-340
Podiceps grisegena, 35-41
Sphyrapicus varius, 310-324
Xanthocephalus xanthocephalus, 73-75
- nestling
Otus choliba, 609-612
- pairing
Agelaius phoeniceus, 583-592
Eudocimus albus, 97
- social
Carpodacus cassinii, 57-66
- Berger, A. J., see Whittow, G. C. and ———
- Best, Louis B., Patterns of feeding Field Sparrow young, 625-627
- Bison, see *Bison bison antiquus*
- Bison bison antiquus*, 622
- Bittern, American, see *Botaurus lentiginosus*
 Least, see *Ixobrychus exilis*
- Blackbird, Yellow-headed, see *Xanthocephalus xanthocephalus*
 Red-winged, see *Agelaius phoeniceus*
- Blankenship, David R., see King, Kirke A., ———, Richard T. Paul and Robin C. A. Rice
- Bluebird, Eastern, see *Sialia sialis*
 Mountain, see *Sialia currucoides*
- Bobolink, see *Dolichonyx oryzivorus*
- Bobwhite, see *Colinus virginianus*
- Bock, Carl E., review by, 652-654
- Bohlen, H. David, see Seets, James W. and ———
- Bolen, Eric G., see McCamant, Richard E. and ———
- Bombycilla cedrorum*, 28, 102, 158, 345, 543-561
- Bonasa umbellus*, 439-455
- Borecky, Stephen R., review by, 354-355
- Borrer, Donald J., Rufous-sided Towhees mimicking Carolina Wren and Field Sparrow, 477-480
- Botaurus lentiginosus*, 231
- Brachyramphus brevirostris*, 467-469
marmoratus, 467
- Brant, see *Branta bernicla*
- Branta bernicla*, 528
canadensis, 469, 523-531
- Braun, Clait E., James H. Enderson, Charles J. Henny, Heinz Meng, and Alva G. Nye, Jr. Conservation Committee Report, 360-369; ———, Keith W. Harmon, Jerome A. Jackson, and Carroll D. Littlefield. Report of the Conservation Committee, 511; see Hoffman, Richard W. and ———
- breeding biology
Agelaius phoeniceus, 73-80
Auriparus flaviceps, 572-582
Bonasa umbellus, 439-455
Capella gallinago, 116-119
Chasiempis sandwichensis, 193-210
Dolichonyx oryzivorus, 78
Hydranassa tricolor, 266-285
Passer domesticus, 300-309
Petrochelidon pyrrhonota, 286-290
Xanthocephalus xanthocephalus, 73-78
- breeding bird survey, 543-561
- Brewer, Richard and Lynda Swander, Life history factors affecting the intrinsic rate of natural increase of birds of the deciduous forest biome, 211-232
- Brilliant, Green-crowned, see *Heliodoxa jacula*
- Brolga, see *Grus rubicundus*
- Brudenell-Bruce, P. G. C., The Birds of the Bahamas (reviewed), 636-637
- Bubo virginianus*, 231, 422
- Bubulcus ibis*, 158, 266, 350
- Buceros hydrocorax*, 7
- Bullfinch, see *Pyrrhula pyrrhula*
 Greater Antillean, see *Loxigilla violacea*
 Lesser Antillean, see *Loxigilla noctis*
- Bunting, Blue, see *Passerina parellina*
 Indigo, see *Passerina cyanea*

- Lazuli, see *Passerina amoena*
 Orange-breasted, see *Passerina leclancherii*
 Painted, see *Passerina ciris*
 Rose-bellied, see *Passerina rositae*
 Varied, see *Passerina versicolor*
 Burger, Joanna, review by, 645-646; ———
 and D. Caldwell Hahn, Crow predation on Black-crowned Night Heron eggs, 350-351
 Burns, Robert D., new life member, 561
 Burton, Jean, see McNeil, Raymond and ———
Buteo jamaicensis, 237, 361, 619, 624-625, 629
 lagopus, 629
 swainsoni, 623
Butorides striatus, 231, 266
 virescens, see *Butorides striatus*
 Caccamise, Donald F., Breeding success and nest site characteristics of the Red-winged Blackbird, 396-403; ——— and Wesley W. Weathers, Winter nest microclimate of Monk Parakeets, 346-349
 Calaby, J. H., see Frith, H. J. and ———
Calidris alba, 167-171, 434-438, 470
 alpina, 167-171, 613
 a. pacifica, 613
 bairdii, 612
 canutus, 167-171, 470
 fuscicollis, 167-171
 melanotos, 167-171
 minutilla, 167-171, 178
 pusillus, 167-171, 178, 336, 437, 469
Calyptorhynchus baudini, 495
 Camelops, 622
Campylopterus hemileucurus, 160-165
Campylorhynchus brunneicapillus, 576
Canachites canadensis, 67-72, 452
 c. franklinii, 452
Canis latrans, 470, 622
Capella gallinago, 116-121, 169
 Capen, David E., Eggshell thickness variability in the White-faced Ibis, 99-106
 Capercaillie, see *Tetrao urogallus*
Caprimulgus carolinensis, 165-166, 231
 vociferus, 231, 476
Caracara cheriway, 618
 Cardinal, see *Cardinalis cardinalis*
 Vermilion, see *Cardinalis phoeniceus*
 Cardinalinae, 130-148
Cardinalis cardinalis, 130-148, 232, 543-561
 phoeniceus, 130-148
 sinuatus, see *Pyrrhuloxia sinuatus*
Carduelis tristis, 232, 543-561
 Carpenter, F. Lynn, Ecology and evolution of an Andean hummingbird (*Oreotrochilus estella*), reviewed, 352-354
Carpodacus cassinii, 57-66
 mexicanus, 57, 253-265, 480
 purpureus purpureus, 57
 Carter, Brenda, see Manning, T. H. and ———
Caryocraustes canadensis, 130-148
 humeralis, 130-148
 Cassel, J. Frank, see Avery, Michael, Paul F. Springer, and ———
Casmerodius albus, 350
 Catbird, Gray, see *Dumetella carolinensis*
Cathartes aura, 328-329
 burrovianus, 329
Catharus fuscescens, 231, 425, 543-561
 guttatus, 425
 minimus, 425
 mustelina, see *Hylocichla mustelina*
 ustulatus, 425
Catoptrophorus semipalmatus, 167-171
 census
 Capella gallinago, 116-121
 Dendrocygna bicolor, 329-331
Centrocercus urophasianus, 523
Certhia familiaris, 424
 Chachalaca, Plain, see *Ortalis vetula*
Chaetura pelagica, 543-561
 Chamberlin, Michael L., Observations on the Red-necked Grebe nesting in Michigan, 33-46
Charadrius semipalmatus, 167-171, 470
 vociferus, 167-171, 543-561
Chasiempis sandwichensis, 193-209; colorplate facing 193
 s. gayi, 193-209; colorplate facing 193
 s. sandwichensis, 193
 s. sclateri, 193, 202
 Chat, Yellow-breasted, see *Icteria virens*
 chemical residues
 Lophodytes cucullatus, 532-542

- Mergus merganser*, 532-542
M. serrator, 532-542
Streptopelia risoria, 593-601
Chen hyperborea, 501-502
 rossii, 501-502, 528
Chendytes lawi, 358
Chickadee, Black-capped, see *Parus atricapillus*
chicken, domestic, see *Gallus gallus*
Chlidonias niger, 231
Chlorestes notatus, 615
Chlorophanes spiza, 152
Chlorostilbon canivetii, 160
Chondestes grammacus, 222
Chuck-Will's-Widow, see *Caprimulgus carolinensis*
Cinclorhamphus cruralis, 619-620
Cink, Calvin L., Snake predation on Bell's *Vireo* nestlings, 349-350
Cistothorus platensis, 222, 231, 424
Clangula hyemalis, 81-91
Clench, Mary H., review by, 495-496, 636-638
clutch size
 Agelaius phoeniceus, 74-77
 Auriparus flaviceps, 572-574
 Chasiempis sandwichensis, 202
 deciduous forest biome birds, 212-215
 Dendroica petechia, 153
 Empidonax minimus, 153
 Falco sparverius, 618
 Icterus galbula, 23
 Larus delawarensis, 246
 Petrochelidon pyrrhonota, 286-290
 Plegadis chihi, 104
 Podiceps grisegena, 37
 Xanthocephalus xanthocephalus, 74-77
Coccyzus americanus, 231
 erythrophthalmus, 232
Cockatoo, White-tailed Black, see *Calyptorhynchus baudini*
Coereba flaveola, 637
Colaptes auratus, 122-129, 165, 232, 312, 424, 543-561
Cole, William W., Jr., new life member, 232
Colibri delphinae, 160
 thalassinus, 160
Colinus virginianus, 231
color-marking
 Progne subis, 177
 Calidris pusillus, 178
 C. minutilla, 178
color measurement
 Cardinalinae, 130-148
 Pinicola enucleator, 387-388
Coluber constrictor, 349
Columba livia, 543-561
 nigrirostris, 152
 palumbus, 64, 434
Conant, Sheila, The breeding biology of the Oahu 'Elepaio, 193-210
Connecticut Warbler, see *Oporornis agilis*
Conner, Richard N. and Curtis S. Adkisson, Principal component analysis of woodpecker nesting habitat, 122-129
Conservation Committee Report, Falconry: Effects of Raptor populations and management in North America, 360-369
Contopus sordidulus, 253-265
 virens, 212, 226, 231, 543-561
copulation
 Chasiempis sandwichensis, 199
 Hydranassa tricolor, 280
 Podiceps grisegena, 37
Coragyps atratus, 328-329
Corvus brachyrhynchos, 350, 543-561
 corax, 233-242
 corone, 239
 coronoides, 495
 cryptoleucus, 239
 frugilegus, 239
 macrorhynchos, 8
 ossifragus, 350
Cosgrove, Ed, see *Cosgrove*, Irene and _____
Cosgrove, Irene and Ed *Cosgrove*, My recipes are for the Birds, reviewed, 359
Costa Rica, 151-153, 159-164, 613-616
cottontail, desert, see *Sylvilagus auduboni*
Coturnicops noveboracensis, 424
Coturnix japonica, 102
Coughley, Graeme, Analysis of Vertebrate Populations, reviewed, 359
Cowbird, Brown-headed, see *Molothrus ater*
Cowgill, Ursula M., review by, 501-502
coyote, see *Canis latrans*

- Cracraft, Joel, Special Review—John Ostrom's Studies on Archaeopteryx, The Origin of Birds, and the Evolution of Avian Flight, 488-492
- Cram, Roger F., Bird Flight Photography, reviewed, 359
- Crawford, Richard D., Breeding biology of year-old and older female Red-winged and Yellow-headed Blackbirds, 73-80
- Creeper, Brown, see *Certhia familiaris*
- Crocethia alba, see *Calidris alba*
- Cromartie, Eugene, see White, Donald H. and ———
- Crotophaga ani, 303
- Crow, Common, see *Corvus brachyrhynchos*
Fish, see *Corvus ossifragus*
Large-billed, see *Corvus macrorhynchos*
- Cuckoo, Black-billed, see *Coccyzus erythrophthalmus*
Yellow-billed, see *Coccyzus americanus*
- Cyanocitta cristata, 171, 231, 351, 543-561
stelleri, 171
- Cyanocompsa cyanea, 130-148
parellina, 130-148, 345
- Cyanoloxia glaucoacaerulea, 130-148
- Dacelo gigas, 495
- Dawson, William R., review by, 496-497
- Dendragapus obscurus, 108
- Dendrocygna autumnalis, 621-622
bicolor, 329, 621
- Dendroica caerulescens, 167, 426, 458, 466
castanea, 166-167, 426
cerulea, 231
coronata, 167, 346, 426, 485
c. auduboni, 253-265
discolor, 158, 458, 466
dominica, 466, 637
fusca, 426, 466
magnolia, 166-167, 425, 466
palmarum, 426, 466
pensylvanica, 166-167, 232, 426
petechia, 153-154, 231, 253-265, 425, 543-561
pinus, 426, 466
striata, 166-167, 426, 466
tigrina, 425, 466
virens, 426, 466
- density, breeding
Capella gallinago, 116-119
- Diamond, A. W., P. Lack, and R. W. Smith, Weights and fat condition of some migrant warblers in Jamaica, 456-466
- Dichromanassa rufescens, 158, 266
- Dickcissel, see *Spiza americana*
- Dickerman, Robert W., Three more new specimen records for Guatemala, 612-613
- Diglossa plumbea, 615
- dimorphism, sexual
Eudocimus albus, 92-98
- display
Hydranassa tricolor, 270-285
- distribution
Buteo jamaicensis, 624-625
Chasiempis sandwichensis, 194-195
Pithechophaga jefferyi, 11-17
- Dixon, Keith L., review by, 642-644
- Dolichonyx oryzivorus, 78, 212, 224, 231, 426, 487, 543-561
- Doryfera ludovicae, 160
- Douglass, John F., Prairie Warbler feeds from spider web, 158-159
- Dove, Ringed Turtle, see *Streptopelia risoria*
Rock, see *Columba livia*
White-bellied, see *Leptotila jamaicensis*
- Dowitcher, Short-billed, see *Limnodromus griseus*
- Dryocopus pileatus, 122-129
- DuBois, Alexander Dawes with Charlotte A. DuBois, Birds and Their Ways, reviewed, 502
- Duck, Black, see *Anas rubripes*
Wood, see *Aix sponsa*
- Dumetella carolinensis, 231, 424, 543-561
- Dunlin, see *Calidris alpina*
- Dyer, Eric L., Rapid chick separation in Whip-poor-wills, 476-477
- Eagle, Bald, see *Haliaeetus leucocephalus*
Monkey-eating, see *Pithechophaga jefferyi*
- Ectopistes migratorius, 219
- Editor's Report, 509-510
- egg size
Agelaius phoeniceus, 74-75
Branta canadensis, 469

- Calidris pusilla*, 469
Chasiempis sandwichensis, 202
Icterus galbula, 31
Lanius ludovicianus, 31
Larus delawarensis, 473-475
Xanthocephalus xanthocephalus, 74-75
eggs, recognition
 Icterus galbula, 30-31
 runt
 Branta canadensis, 469
 Calidris pusilla, 469
 Larus spp., 469
 Sturnus vulgaris, 469
eggshell thickness
 Lophodytes cucullatus, 532-542
 Mergus merganser, 532-542
 M. serrator, 532-542
 Plegadis chihi, 99-106
Egret, Cattle, see *Bubulcus ibis*
 Common, see *Casmerodius albus*
 Reddish, see *Dichromanassa rufescens*
 Snowy, see *Egretta thula*
Egretta thula, 266, 350
Elaenia, Caribbean, see *Elaenia martinica*
Elaenia martinica, 341
'Elepaio, see *Chasiempis sandwichensis*
Elaphe obsoleta, 349
elephant seals, see *Mirounga*
Ellarson, Robert S., see Peterson, Steven R.
 and ———
Elvira cupreiceps, 162
embryo development
 Larus delawarensis, 243-252
Emerald, Coppery-headed, see *Elvira cupreiceps*
Empidonax alnorum, 424, 543-561
 difficilis, 253-265
 flaviventris, 424
 minimus, 153-154, 166-167, 424
 traillii, 231, 253-265, 543-561
 virescens, 212, 226, 231
endangered species and populations
 Dendrocygna bicolor, 329-331
 Picoides borealis, 164-165
 Pitheophaga jefferyi, 1-20
 Rallus longirostris yumanensis, 332-336
Enderson, James H., see Braun, Clait E.,
 ———, Charles J. Henny, Heinz
 Meng, and Alva G. Nye, Jr.
Eremophila alpestris, 231, 543-561, 618
Erythroriorchis radiatus, 620
Eudocimus albus, 92, 342
 ruber, 97, 343
Eulampis, 342
Euplectes progne delamerei, 620
Eupherusa examia, 162, 615
Falco mexicanus, 360-369, 598
 peregrinus, 239, 598
 p. anatum, 360-369
 severus, 8
 sparverius, 360-369, 486, 593, 618, 623-624
Falcon, Prairie, see *Falco mexicanus*
falconry, see conservation committee report,
 360-369
Farner, Donald S. and James R. King, eds.,
 Avian Biology, Vol. 5, reviewed, 181-183
fat, 456-465
Feinsinger, Peter, Notes on the humming-
 birds of Monteverde, Cordillera de
 Tilaran, Costa Rica, 159-164
Ficedula hypoleuca, 233, 323
Finch, Blue, see *Passerina caerulea* and
 Porphyrospiza caerulea
 Black Rosy, see *Leucosticte atrata*
 Cassin's, see *Carpodacus cassinii*
 Gray-crowned Rosy, see *Leucosticte tephrocotis*
 House, see *Carpodacus mexicanus*
 Purple, see *Carpodacus purpureus*
fishing behavior, see behavior, foraging
Flack, J. A. Douglas, *Bird Populations of*
 Aspen Forests in Western North
 America, reviewed, 642-644
Flamingo, American, see *Phoenicopterus*
 ruber
fledging success
 Agelaius phoeniceus, 74-76
 Parabuteo unicinctus, 469-470
 Xanthocephalus xanthocephalus, 74-76
Flicker, Common, see *Coleptes auratus*
Flickinger, Edward L., David S. Lobbriess
 and Hugh A. Bateman, *Fulvous*
 Whistling-duck populations in Texas
 and Louisiana, 329-331
flock size
 Calidris alba, 434-438

- Dendrocygna bicolor*, 329-331
Lagopus leucurus, 110-112
Psilorhinus morio, 171
Ramphocelus passerinii, 151-153
 flocks, mixed species, 152, 470-472
 Flower-piercer, Slaty, see *Diglossa plumbea*
 Flycatcher, Acadian, see *Empidonax virescens*
 Alder, see *Empidonax alnorum*
 Ash-throated, see *Myiarchus cinerascens*
 Great Crested, see *Myiarchus crinitus*
 Least, see *Empidonax minimus*
 Pied, see *Ficedula hypoleuca*
 Western, see *Empidonax difficilis*
 Willow, see *Empidonax traillii*
 Yellow-bellied, see *Empidonax flaviventris*
 Folsie, Leon, J. Jr., see Arnold, Keith A. and ———
- food habits
 Caprimulgus carolinensis, 166
 Clangula hyemalis, 81-91
 Dendroica coronata, 485
 Eudocimus albus, 94-97
 Falco sparverius, 623-624
 Larus argentatus, 338, 415-421
 Melanerpes formicivorus, 150-151
 Pandion haliaetus, 625
 Picoides arizonae, 485
 P. scalaris, 485
 Rallus longirostris yumanensis, 332-336
 Regulus calendula, 485
 Sialia sialis, 407
 food, seasonal change
 Clangula hyemalis, 81-91
 food storage
 Falco sparverius, 623-624
 Melanerpes formicivorus, 150-151
 foraging, see behavior, foraging
 Fowl, Mallee, see *Leipoa ocellata*
 fox, red, see *Vulpes vulpes*
 Frith, H. J. and J. H. Calaby (eds.), Proceedings of the 16th International Ornithological Congress, reviewed, 493-494
 frog, squirrel tree, see *Hyla squirella*
 Gadwall, see *Anas strepera*
 Callus gallus, 99, 243, 452
 Gaunt, Abbot S., Membership Committee Report, 510
 Gauthreaux, Sidney A. Jr., review by, 181-183; painting by, frontispiece facing 373
 Genoways, Hugh H., see McCaugh, M. Houston and ———
Geothlypis rostrata, 637
 trichas, 214, 231, 253-265, 349, 426, 461, 466
 Giezentanner, Keith, photograph by, frontispiece facing 521
Glaucomyz volans, 165
 Gnatcatcher, Blue-gray, see *Poliophtila caerulea*
 Goldentail, Blue-throated, see *Hylocharis eliciae*
 Goldfinch, American, see *Carduelis tristis*
 Goodwin, Derek, Crows of the World, reviewed, 354-355
 Goose, Blue, see *Chen hyperborea*
 Canada, see *Branta canadensis*
 Ross', see *Chen rossii*
 Snow, see *Chen hyperborea*
 Goossen, J. Paul, Yellow Warbler nest used by a Least Flycatcher, 153-154
 Goshawk, see *Accipiter gentilis*
 Grackle, Boat-tailed, see *Quiscalus major*
 Common, see *Quiscalus quiscula*
 Great-tailed, see *Quiscalus mexicanus*
 Grant, Gilbert, S. and Thomas L. Quay, Breeding biology of Cliff Swallows in Virginia, 286-290
 Grebe, Eared, see *Podiceps nigricollis*
 Horned, see *Podiceps auritus*
 Pied-billed, see *Podilymbus podiceps*
 Red-necked, see *Podiceps grisegena*
 Green, Richard F., Do more birds produce fewer young? A comment on Mayfield's measure of nest success, 173-175
 Griesse, Herman J., see Stahlecker, Dale W. and ———
 grit, 82
 Grosbeak, Black-backed, see *Pheucticus aureoventris*
 Black-headed, see *Pheucticus melanocephalus*

- Blue, see *Guiraca caerulea*
 Blue-black, see *Passerina cyanoides* and
Cyanocompsa cyanea
 Crimson-collared, see *Rhodothraupis*
celaeno
 Evening, see *Hesperiphona vespertina*
 Indigo, see *Passerina glaucocaeerulea* and
Cyanoloxia glaucocaeerulea
 Pine, see *Pinicola enucleator*
 Red-and-black, see *Periporphyrus eryth-*
romelas
 Rose-breasted, see *Pheucticus ludovici-*
anus
 Slate-colored, see *Pitylus grossus*
 Ultramarine, see *Passerina brissonii* and
Cyanocompsa cyanea
 Yellow, see *Pheucticus chrysopheplus*
 Yellow-green, see *Caryothraustes cana-*
densis
 Yellow-shouldered, see *Caryothraustes*
humeralis
 ground squirrel, Harris' antelope, see *Am-*
mospermophilus harrissii harrissii
 Grouse, Black, see *Lyrurus tetrrix*
 Blue, see *Dendragapus obscurus*
 Red, see *Lagopus l. scoticus*
 Ruffed, see *Bonasa umbellus*
 Sage, see *Centrocercus urophasianus*
 Sharp-tailed, see *Pedioecetes phasianellus*
 Spruce, see *Canachites canadensis*
 Groves, Sarah, see Harrington, Brian A.
 and ———
 growth, nestling
Agelaius phoeniceus, 75
Otus choliba, 609-612
Xanthocephalus xanthocephalus, 75
 Grubb, Thomas C., Jr., Why Ospreys hover,
 149-150
 Grubbs, Vera Lee, An intraspecific mortal
 attack, 477
Grus canadensis, 635
rubicundus, 495
 Guatemala, 612-613
 Guillory, Harland, D., see Pratt, H. Doug-
 las, Brent Ortego, and ———
Guiraca caerulea, 130-148, 253-265
 Gull, Black-headed, see *Larus ridibundus*
 California, see *Larus californicus*
 Great Black-backed, see *Larus marinus*
 Herring, see *Larus argentatus*
 Laughing, see *Larus atricilla*
 Lesser Black-backed, see *Larus fuscus*
 request for assistance, 421
 Ring-billed, see *Larus delawarensis*
 Western, see *Larus occidentalis*
Gymnorhina spp., 495
Gymnorhinus cyanocephalus, 171
 habitat choice
Pithecophaga jefferyi, 8-9
 habitat destruction
Anus acuta, 154-157
 habitat partitioning
Branta canadensis, 523-531
Chasiempis sandwichensis, 219-226
Eudocimus albus, 94
 grassland birds, 486-487
Lagopus leucurus, 109-110
Lampornis calolaema, 614-616
 passerine birds, 253-265
Phaethornis guy, 614-616
Sialia sialis, 410
 habitat, nesting
Colaptes auratus, 122-129
Dryocopus pileatus, 122-129
Melanerpes erythrocephalus, 122-129
Picoides pubescens, 122-129
P. villosus, 122-129
 habitat resource use, 253-265
 Haegele, M. A. and Rick H. Hudson, Re-
 duction of courtship behavior in-
 duced by DDE in male Ringed
 Turtle Doves, 593-601
 Hahn, D. Caldwell, see Burger, Joanna and
 ———
 Hailman, Jack P., see Waide, Robert B.
 and ———
Haliaeetus leucocephalus, 178
 Hall, George A., Proceedings of the Fifty-
 eighth Annual Meeting, 506-519
 Hamel, Paul B., see Hooper, Robert G.
 and ———
 Hanson, Harold C. and Robert L. Jones,
 The biogeochemistry of Blue, Snow
 and Ross' geese, reviewed, 501-502
 Harmon, Keith W., see Braun, Clait E. et
 al., Conservation Committee Report,
 1976
 Harrington, Brian A. and Sarah Groves,

- Aggression in foraging migrant Semipalmated Sandpipers, 336-338
- Harrison, Keith G., Perch height selection of grassland birds, 486-487
- hatching
- Podiceps grisegena, 41
- Hawk, Cooper's, see *Accipiter cooperii*
- Harris', see *Parabuteo unicinctus*
- Red-tailed, see *Buteo jamaicensis*
- Rough-legged, see *Buteo lagopus*
- Sharp-shinned, see *Accipiter striatus*
- Swainson's see *Buteo swainsoni*
- Heintzelman, Donald S., A Guide to Eastern Hawk Watching, reviewed, 358
- Heliodoxa jacula*, 162
- Heliomaster constantii*, 162
- Hellack, Jenna J. and Gary D. Schnell, Phenetic analysis of the subfamily Cardinalinae using external and skeletal characters, 130-148
- Helminthophis*, 610
- Helmitheros vermivora*, 466
- Henny, Charles J., see Braun, Clait E., James H. Enderson, ———, Heinz Meng, and Alva G. Nye, Jr.
- Hermit, Guy's, see *Phaethornis guy*
- Green, see *Phaethornis guy*
- Little, see *Phaethornis longuemareus*
- Heron, Black-crowned Night, see *Nycticorax nycticorax*
- Great Blue, see *Ardea herodias*
- Green, see *Butorides striatus*
- Louisiana, see *Hydranassa tricolor*
- Hesperiphona vespertina*, 325-327
- Hesperornis*, 356
- Hieraaetus kienerii*, 620
- Hirundo rustica*, 176, 487, 543-561, 562-571, 632-635
- Hobby, Oriental, see *Falco severus*
- Hoff, James G., Slipper shells, a major food item for White-winged Scoters, 331
- Hoffman, Richard W. and Clait E. Braun, Characteristics of a wintering population of White-tailed Ptarmigan in Colorado, 107-115
- home range
- Pithechophaga jefferyi*, 9-11
- Quiscalus mexicanus*, 483-485
- Honeycreeper, Green, see *Chlorophanes spiza*
- Hooper, Robert G., Nesting habitat of Common Ravens in Virginia, 233-242; ——— and Paul B. Hamel, Nesting habitat of Bachman's Warbler—a Review, 373-379
- Hornbill, Rufous, see *Bucercs hydrocorax*
- Wretched-billed, see *Aceros leucocephalus*
- Hudson, Rick H., see Haegele, M. A. and ———
- Hummingbird, Blue-vented, see *Amazilia saucerrottei*
- Fiery-throated, see *Panterpe insignis*
- Fawn-breasted, see *Amazilia yucatanensis*
- Rufous-tailed, see *Amazilia tzacatl*
- Ruby-throated, see *Archilochus colubris*
- Scintillant, see *Selasphorus scintilla*
- Stripe-tailed, see *Eupherusa eximia*
- Hunt, George L., and Max C. Thompson, Black-legged Kittiwakes nesting on snowbank, 616-618
- Hydranassa tricolor*, 266-285
- Hyla squirella*, 166
- Hylocharis eliciae*, 161
- Hylocichla mustelina*, 231, 425
- Ibis, Australian White, see *Threskiornis molucca*
- Glossy, see *Plegadis falcinellus*
- Sacred, see *Threskiornis aethiopiae*
- Scarlet, see *Eudocimus ruber*
- White, see *Eudocimus albus*
- White-faced, see *Plegadis chihi*
- Icteria virens*, 253-265
- Icterus cucullatus*, 253-265
- dominicensis northropi, 637
- galbula, 21-32, 212, 232, 426, 543-561, 637
- g. bullocki, 253-265
- Ictinia mississippiensis*, 176
- incubation
- Bonasa umbellus, 443-449
- Chasiempis sandwichensis, 203-204
- Dendrocygna autumnalis, 621-622
- Passer domesticus, 303-304
- Petrochelidon pyrrhonota, 237
- Podiceps grisegena, 37-41
- Sphyrapicus varius*, 312-313

- Iridoprocne bicolor*, 289
Ixobrychus exilis, 231
 Jackson, Jerome A., Editor's Report, 509-510; see Braun, Clait E. et al., Conservation Committee Report
 Jamaica, 456-465
 James, Douglas, The President's page, 505; student membership committee, 511
 James, R. D., P. L. McLaren and J. C. Barlow. Annotated Checklist of the Birds of Ontario, reviewed, 359
 Jansma, Roxana, see Stacey, Peter B. and ———
 Jay, Blue, see *Cyanocitta cristata*
 Brown, see *Psilorhinus morio*
 Florida Scrub, see *Aphelocoma c. coerulescens*
 Mexican, see *Aphelocoma ultramarina*
 Piñon, see *Gymnorhinus cyanocephalus*
 Steller's, see *Cyanocitta stelleri*
 Jehl, Joseph R. Jr., *Pluvianellus socialis*: Biology, Ecology and Relationships of an enigmatic Patagonian shorebird, reviewed, 645-646
 Johnson, Bruce R. and Ronald A. Ryder, Breeding densities and migration periods of Common Snipe in Colorado, 116-121
 Johnson, Robert F., Jr. and Leo M. Kirsch, Egg movement by a female Gadwall between nest bowls, 331-332
 Jones, Robert L., see Hanson, Harold C. and ———
 Junco hyemalis, 427
 Kaminski, Richard M. and Harold H. Prince, Nesting habitat of Canada Geese in southeastern Michigan, 523-531
 Kaufman, John and Heinz Meng, Falcons Return, reviewed, 498-499
 Kear, Janet, review by, 179-180
 Kennedy, Robert S., Notes on the biology and population status of the Monkey-eating Eagle of the Philippines, 1-20; new life member, 20
 Keppie, Daniel M., Inter-brood movements of juvenile Spruce Grouse, 67-72
 Kestrel, American, see *Falco sparverius*
 Kilgore, Delbert L., Jr. and Kathy L. Knudson, Analysis of materials in Cliff and Barn swallow nests: relationship between mud selection and nest architecture, 562-571
 Kilham, Lawrence, Nest-site differences between Red-headed and Red-bellied woodpeckers in South Carolina, 164-165; Nesting behavior of Yellow-bellied Sapsuckers, 310-324
 Killdeer, see *Charadrius vociferus*
 King, James R., see Farner, Donald S. and ———
 King, Kirke A., David R. Blankenship, Richard T. Paul, and Robin C. A. Rice, Ticks as a factor in the 1975 nesting failure of Texas Brown Pelicans, 157-158
 Kingbird, Eastern, see *Tyrannus tyrannus*
 Western, see *Tyrannus verticalis*
 Kinglet, Golden-crowned, see *Regulus satrapa*
 Ruby-crowned, see *Regulus calendula*
 Kirsch, Leo M., see Johnson, Robert F., Jr. and ———
 Kite, Mississippi, see *Ictinia mississippiensis*
 Kittiwake, Black-legged, see *Rissa tridactyla*
 Klimosewski, John, see Radke, Eleanor L. and ———
 Knot, see *Calidris canutus*
 Knudson, Kathy L., see Kilgore, Delbert L., Jr. and ———
 Kookaburra, see *Dacelo gigas*
 Krapu, Gary L., Pintail reproduction hampered by snowfall and agriculture, 154-157
 Kushlan, James A., Sexual dimorphism in the White Ibis, 92-98; Foraging behavior of the White Ibis, 342-345
 Lack, P., see Diamond, A. W., ———, and R. W. Smith
 Lagopus lagopus, 109, 451
 l. scoticus, 451
 leucurus, 107-115
 mutus, 109
 Lampornis calolaema, 162, 613
 hemileucus, 162

- Lanius excubitor*, 63
ludovicianus, 30
 Lark, Horned, see *Eremophila alpestris*
Larus argentatus, 243, 338, 415-421, 472, 618
atricilla, 158, 474
californicus, 243
delawarensis, 243-252, 473
fuscus, 415
glaucescens, 419, 472
marinus, 338, 618
occidentalis, 243
ridibundus, 472-473
 Leberman, Robert C., *The Birds of the Ligonier Valley*, reviewed, 358-359
Leiothrix lutea, 208
Leipoa ocellata, 495
 Lek
Phaethornis guy, 160
Leptotila jamaicensis, 637
Leptoptilos crumeniferus, 97
Leucosticte atrata, 64
tephrocotis, 64
 Library Committee Report—1976, 511-512
Limnodromus griseus, 167-171
Limnolyphus swainsonii, 374, 466
 Limpkin, see *Aramus guarauna*
 Littlefield, Carroll D., see Braun, Clait E. et al., *Conservation Committee Report*
 Lloyd-Evans, Trevor L., review by, 191-192
 Lobpries, David S., see Flickinger, Edward L., ———, and Hugh A. Bateman
Lophodytes cucullatus, 532-542
Lophortyx gambelii, 470
Loxigilla noctis, 338-342
n. coryii, 340
n. ridgwayi, 340
portoricensis, 342
violacea, 637
Loxops virens virens, 480
 Lunk, William A., *Library Committee Report*, 511-512
 Lyon, David L., review by, 352-354
Lyrurus tetrax, 112
 Lysaght, A. M., *The Book of Birds: Five Centuries of Bird Illustration*, reviewed, 189-191
 McCamant, Richard E. and Eric G. Bolen, *Response of incubating Black-bellied Whistling-ducks to loss of mates*, 621-622
 McClure, H. Elliott, review by, 497-498
 McElroy, Thomas P., Jr., *The Habitat Guide to Birding*, reviewed, 654
 McCaugh, M. Houston and Hugh H. Genoways, *State Laws as they pertain to Scientific Collecting Permits*, reviewed, 192
 McHargue, Laurie A., *Nesting of Turkey and Black vultures in Panama*, 328-329
 McLaren, P. L., see James, R. D., ———, and J. C. Barlow
 McNeil, Raymond and Jean Burton, *South-bound migration of shorebirds from the Gulf of St. Lawrence*, 167-171
 MacFarlane, Anne E., *Roof-nesting by Common Terns*, 475-476
 MacRoberts, Barbara R., see MacRoberts, Michael H. and ———
 MacRoberts, Michael H. and Barbara R. MacRoberts, *Social Organization and Behavior of the Acorn Woodpecker in Central Coastal California*, reviewed, 652-654
 Macaw, see *Ara* spp.
 Magpies, Australian, see *Gymnorhina* spp.
 Maher, William J., review by, 641-642
Malaclemys terrapin, 350
 Mallard, see *Anas platyrhynchos*
Malurus cyaneus, 495
 management recommendations
Pithecophaga jefferyi, 18
 Manakin, Red-capped, see *Pipra mentalis*
 Manning, T. H. and Brenda Carter, *Incidence of runt eggs in the Canada Goose and Semipalmated Sandpiper*, 469
 Manorina spp., 495
 Marabou, see *Leptoptilos crumeniferus*
 Mares, Michael A., reviews by, 359, 499-501, 644
 Margarops, 341
 Marion, Wayne R., *Growth and development of the Plain Chachalaca in south Texas*, 47-56

- Martin, Purple, see *Progne subis*
- Maurer, David R., reviews by, 498-499, 502
- Maxson, Stephen J., Activity patterns of female Ruffed Grouse during the breeding season, 439-455
- Mayr, Ernst, Evolution and the Diversity of Life: Selected Essays, reviewed, 352
- Meadowlark, Eastern, see *Sturnella magna*
- Medway, Lord and David R. Wells, The Birds of the Malay Peninsula, reviewed, 497-498
- Melanerpes, 622
 - aurifrons, 322
 - carolinus, 122-129, 164, 231, 424, 432
 - chrysauchen, 318, 322
 - erythrocephalus, 122-129, 164, 424
 - formicivorus, 150-151, 322, 652-654
 - rubricapillus, 322
 - superciliaris, 637
- Melanitta deglandi, 331
- Melospiza georgiana, 231, 427
 - lincolnii, 427
 - melodia, 173, 231, 253-265, 427, 543-561
- Membership Committee Report, 510
- Meng, Heinz, see Braun, Clait E., James H. Enderson, Charles J. Henny, ———, and Alva G. Nye, Jr.; Kaufmann, John and ———
- Merganser, Common, see *Mergus merganser*
- Hooded, see *Lophodytes cucullatus*
- Red-breasted, see *Mergus serrator*
- Mergus merganser*, 532-542
 - serrator, 532-542
- Mexico, 171-173, 571
- Micropalama himantopus, 167-171
- Microtus pennsylvanicus, 624-625
- migration, 166-167
 - Capella gallinago, 119-120
 - shorebirds, 167-171
 - tower kills, 291-299
 - warblers, 456-465
- Mills, G. Scott, American Kestrel rejects captured spadefoot toad, 623-624; see Silliman, James, ———, and Stephen Alden
- Mimus polyglottos, 480, 637
- Miners, see *Manorina* spp.
- Mirounga, 621
- Mniotilta varia, 231, 425, 457-458, 466
- Mock, Douglas W., review by, 639-641
- Mockingbird, see *Mimus polyglottos*
- Molothrus ater, 21-32, 253-265, 487, 543-561, 584
- molt
 - Brachyramphus brevirostris, 467-469
 - Caprimulgus carolinensis, 165-166
 - Ortalis vetula, 54-55
- Monarcha spp., 193
- Moriarty, David J., Flocking and foraging in the Scarlet-rumped Tanager, 151-153
- morphological variation, see *Pinicola enucleator*, 380-395
- Morrison, Michael L. and R. Douglas Slack, Flocking and foraging behavior of Brown Jays in northeastern Mexico, 171-173
- mortality, tower kills, 291-299, 422-433
- Mountain-gem, Purple-throated, see *Lampornis calolaema*
- White-bellied, see *Lampornis hemileucus*
- Murrelet, Kittlitz's, see *Brachyramphus brevirostris*
- Marbled, see *Brachyramphus marmoratus*
- Muscicapa hypoleuca, see *Ficedula hypoleuca*
- muskrat, see *Ondatra zibethica*
- Mutton-birds, Tasmanian, see *Puffinus tenuirostris*
- Mycteria americana, 97, 343
- Myiarchus cinerascens, 253-265
 - crinitus, 226, 231, 424, 543-561
- Myiopsitta monachus, 346-349
- Myres, M. Timothy, see Sadler, Thomas S. and ———
- Neanis, 357
- nest, abandonment
 - Dendrocygna autumnalis, 621-622
- building
 - Chasiempis sandwichensis, 199-202
 - Hirundo rustica, 562-571
 - Loxops virens, 480-483
 - Passer domesticus, 302-303
 - Petrochelidon pyrrhonota, 562-571
 - Podiceps grisegena, 35-37
 - Sphyrapicus varius, 310-312
- sanitation
 - Chasiempis sandwichensis, 204-206
 - Sphyrapicus varius, 318

- sites
- Agelaius phoeniceus, 396-403
 - Branta canadensis, 525-530
 - Capella gallinago, 118
 - Chasiempis sandwichensis, 199-202
 - Colaptes auratus, 122-129
 - Corvus corax, 233-242
 - Dendroica petechia, 153-154
 - Dryocopus pileatus, 122-129
 - Empidonax minimus, 153-154
 - Hirundo rustica, 632-635
 - Ictinia mississippiensis, 176
 - Larus delawarensis, 473-475
 - Melanerpes carolinus, 122-129, 164-165
 - M. erythrocephalus, 122-129, 164-165
 - Myiopsitta monachus, 346-349
 - Parabuteo unicinctus, 469-470
 - Petrochelidon pyrrhonota, 286
 - Picoides pubescens, 122-129
 - P. villosus, 122-129
 - Podiceps grisegena, 35-37
 - Rissa tridactyla, 616-618
 - Sayornis phoebe, 632-635
 - Sterna hirundo, 475-476
- nesting
- failure
 - Anas acuta, 154-157
 - Corvus corax, 235
 - Pelecanus occidentalis, 157-158
 - Sterna fuscata, 157-158
 - S. hirundo, 157-158
 - habitat
 - Agelaius phoeniceus, 397
 - Branta canadensis, 523-531
 - breeding bird surveys, and, 543-561
 - Cathartes aura, 328-329
 - Chasiempis sandwichensis, 197-199
 - Coragyps atratus, 328-329
 - Corvus corax, 233-242
 - Hirundo rustica, 562-571, 632-635
 - Parabuteo unicinctus, 469-470
 - Petrochelidon pyrrhonota, 562-571
 - Sayornis phoebe, 632-635
 - Vermivora bachmanii, 373-379
- materials
- Hirundo rustica, 562-571
 - Petrochelidon pyrrhonota, 562-571
- phenology
- Agelaius phoeniceus, 74
 - Xanthocephalus xanthocephalus, 74
 - success, 173-175
 - Agelaius phoeniceus, 397-398
 - Auriparus flaviceps, 576-580
 - Chasiempis sandwichensis, 206-207
 - Corvus corax, 234-235
 - Larus delawarensis, 473-475
 - Nycticorax nycticorax, 351
 - Passer domesticus, 307
 - Petrochelidon pyrrhonota, 287-289
- nestling mortality
- Agelaius phoeniceus, 399-400
 - Auriparus flaviceps, 579-580
 - Ictinia mississippiensis, 176
 - Petrochelidon pyrrhonota, 288-289
- Numenius phaeopus, 167-171
- Nuthatch, Red-breasted, see *Sitta canadensis*
- White-breasted, see *Sitta carolinensis*
- Nycticorax nycticorax, 104, 158, 350-351, 538
- Nye, Alva G. Jr., see Braun, Clait E., James H. Enderson, Charles J. Henny, Heinz Meng, and ———
- officers, new, 512
- Ohmart, R. D. and R. E. Tomlinson, Foods of western Clapper Rails, 332-336
- Oldsquaw, see *Clangula hyemalis*
- Olson, Storrs L., ed., Collected Papers in Avian Paleontology Honoring the 90th Birthday of Alexander Wetmore, reviewed, 355-358
- Ondatra zibethica, 45, 524
- O'Neill, John P., painting by, frontispiece facing 1
- Oporornis agilis, 426
- philadelphia, 426
 - tolmiei, 253-265
- Oretrochilus estella, 352
- Oriole, Black-cowled, see *Icterus dominicensis northropi*
- Hooded, see *I. cucullatus*
 - Northern, see *I. galbula*
- Orr, Donald E., see Ryder, John P., ———, and Ghomi H. Saedi
- Ortalis vetula, 47-56
- Ortego, Brent, see Pratt, J. Douglas, ———, and Harland D. Guillory

- Orthorhynchus, 341
 Oryzomys, 610
 Osprey, see *Pandion haliaetus*
 Ostrom, John, *John Ostrom's Studies on Archaeopteryx, The Origin of Birds, and the Evolution of Avian Flight*, reviewed, 488-492
 Otus asio, 609
 choliba, 609-612
 flammeolus, 609
 trichopsis, 609
 Ovenbird, see *Seiurus aurocapillus*
 Owl, Barn, see *Tyto alba*
 Barred, see *Strix varia*
 Great Horned, see *Bubo virginianus*
 Short-eared, see *Asio flammeus*
 Tropical Screech, see *Otus choliba*
 Palmer, Ralph S., ed., *Handbook of North American Birds*, vols. 2 & 3 (*Waterfowl*), reviewed, 179-180
 Panama, 328-329
Pandion haliaetus, 149-150, 364, 625
Panterpe insignis, 161, 615
Parabuteo unicinctus, 469, 618-619
 Parakeet, Monk, see *Myiopsitta monachus*
 parasitism, brood, 21-32
 Parker, James W., *Mortality of nestling Mississippi Kites by ants*, 176
 Parkes, Kenneth C., reviews by, 189-191, 638-639
 Parmalee, W., *Avian bone pathologies from Arikara sites in South Dakota*, 628-632
 Parmelee, David F., review by, 646-648
 Parrot, Cuban, see *Amazona leucocephala bahamensis*
Parula americana, 231, 425, 466
Parula, Northern, see *Parula americana*
Parus atricapillus, 231, 543-561
 bicolor, 231
 caeruleus, 412, 580
 major, 173, 223, 315
 Pasquier, Roger F., *Herring Gull eating bayberry*, 338; *Watching Birds*, reviewed, 644
Passer domesticus, 22, 286-290, 300-309, 340, 477, 543-561
Passerculus sandwichensis, 231, 427, 486, 543-561
Passerherbulus henslowii, see *Ammodramus henslowii*
Passerina amoena, 130-148, 253-265
 brissonii, 130-148
 caerulescens, 130-148
 ciris, 130-148
 cyanea, 130-148, 232, 253-265, 427, 543-561
 cyanoides, 130-148
 glaucoacaerulea, 130-148
 leclancherii, 130-148
 parellina, 130-148, 345
 rositae, 130-148
 versicolor, 130-148
 Paul, Richard T., see King, Kirke A., David R. Blankenship, ———, and Robin C. A. Rice
 Pavo, 621
 Paynter, Raymond A., Jr. and Melvin A. Traylor, Jr., *Ornithological Gazeteer of Ecuador*, reviewed, 638-639
 Peaker, Malcolm, ed., *Avian Physiology: Symposia of the Zoological Society of London*, No. 35, reviewed, 183-189
Pediocetes phasianellus, 336, 522
Pelecanus occidentalis, 157-158, 416, 474, 593, 639-641
 Pelican, Brown, see *Pelecanus occidentalis*
 Penguin, Adelle, see *Pygoscelis adeliae*
 Peregrine, see *Falco peregrinus*
Periporphyrus erythromelas, 130-148
 Peterson, Steven R. and Robert S. Ellarson, *Food habits of Oldsquaws wintering on Lake Michigan*, 81-91
Petrochelidon pyrrhonota, 286-290, 543-561, 562-571
 Pewee, Eastern Wood, see *Contopus virens*
 Western Wood, see *Contopus sordidulus*
 Pettingill, Olin Sewall, Jr., *A Guide to Bird Finding East of the Mississippi*, 2nd ed., reviewed, 644-645
Phaethornis guy, 160, 613
 longuemareus, 160
Phainopepla, see *Phainopepla nitens*
Phainopepla nitens, 253-265
Phalacrocorax aristotelis, 473
Pharomachrus mocinno, 621
Phasianus colchicus, 55, 452

- Pheasant, Ring-necked, see *Phasianus colchicus*
- phenetic analysis
Cardinalinae, 130-148
- phenograms
Cardinalinae, 130-148
- Phaeucticus aureoventris*, 130-148
 chrysopeplus, 130-148
 ludovicianus, 130-148, 214, 231, 426, 543-561
 melanocephalus, 130-148, 253-265
- Philippines, 1-20
- Philodice bryantae*, 162
- Philohela minor*, 543-561
- Phoebe*, Black, see *Sayornis nigricans*
 Eastern, see *Sayornis phoebe*
- Phoenicopterus ruber*, 637
- Picoides arizonae*, 485
 borealis, 164
 major, 322
 pubescens, 122-129, 231, 311
 scalaris, 485
 tridactylus, 321
 villosus, 122-129, 231, 322, 622
- Pigeon, Passenger, see *Ectopistes migratorius*
 Short-billed, see *Columba nigrirostris*
 Wood, see *Columba palumbus*
- Pinicola enucleator*, 380-395
 e. alascensis, 393
 e. californica, 392
 e. carlottae, 392
 e. eschatosus, 388
 e. flammula, 392
 e. leucura, 388, 392
 e. montana, 392
- Pinkowski, Benedict C., Foraging behavior of the Eastern Bluebird, 404-414
- Pintail, see *Anas acuta*
- Pipilo aberti*, 253-265
 erythrophthalmus, 232, 253-265
- Pipra mentalis*, 152
- Piranga olivacea*, 231, 426
 rubra, 253-263
- Pithecophaga jefferyi*, 1-20, colorplate facing 1
- Pitylus grossus*, 130-148
- Platalea, 343
- Plegadis chihi*, 97, 99-106
 falcinellus, 97, 343
- Plover, American Golden, see *Pluvialis dominica*
 Black-bellied, see *Pluvialis squatarola*
 Semipalmated, see *Charadrius semipalmatus*
- Plumage, 620-621
 Ortalis vetula, 54-55
 Tympanuchus pallidicinctus, 521-522
- Pluvialis dominica*, 167-171
 squatarola, 167-171, 470-472
- Pluvianellus socialis*, 645-646
- Podiceps auritus*, 34
 grisegena, 33-46
 nigricollis, 34
- Podilymbus podiceps*, 231, 424
- Polioptila caerulea*, 231, 253-265
- Ponshair, James E., Auditor's Report, 512
- Poocetes gramineus*, 231, 486, 543-561
- population
 age composition, 215-216
 Carpodacus cassinii, 58-59
 Lagopus leucurus, 108-109
- estimates
 breeding bird survey, 549-561
 Capella gallinago, 116-121
 Carpodacus cassinii, 58-59
 Dendrocygna bicolor, 329-331
 Pithecophaga jefferyi, 12-17
- Porphyrospiza caerulescens*, 130-148
- Porzana carolina*, 424
- Prairie Chicken, Greater, see *Tympanuchus cupido*
 Lesser, see *Tympanuchus pallidicinctus*
- Pratt, H. Douglas, Brent Ortego, and Harland D. Guillory, Spread of the Great-tailed Grackle in southwestern Louisiana, 483-485; painting by, frontispiece facing 193
- predation on
 Larus argentatus, 472-473
 Nycticorax nycticorax, 350-351
 Vireo bellii, 349-350
- President's Page, 505
- Prince, Harold H., see Kaminski, Richard M. and ———
- Proctor, Noble S., Osprey catches vole, 625
- Progne subis*, 177, 543-561

- Protonotaria citrea*, 231, 425
Protornis, 357
Psilorhinus morio, 171-173
 Ptarmigan, Rock, see *Lagopus mutus*
 White-tailed, see *Lagopus leucurus*
 Willow, see *Lagopus lagopus*
Puffinus tenuirostris, 495
Pygoscelis adeliae, 473
Pyrrhula pyrrhula, 57
Pyrrhuloxia, see *Pyrrhuloxia sinuatus*
Pyrrhuloxia sinuatus, 130-148
 Quail, Coturnix, see *Coturnix japonica*
 Gambel's, see *Lophortyx gambelii*
 Quay, Thomas L., see Grant, Gilbert S. and
 —————
 Quetzal, see *Pharomachrus mocinuo*
Quiscalus major, 483
 mexicanus, 483, 602-608
 quiscula, 28, 543-561
 racer, black, see *Coluber constrictor*
 Radke, Eleanor L., and John Klimosewski,
 Late fledging date for Harris' Hawk,
 469-470
 radiotelemetry
 Bonasa umbellus, 439-455
 Raffaele, Herbert A. and Daniel Roby, The
 Lesser Antillean Bullfinch in the
 Virgin Islands, 338-342
 Raikow, Robert J., reviews by, 192, 352,
 355-358, 359, 493-494, 644-645
 Rail, California Clapper, see *Rallus longi-*
 rostris obsoletus
 Clapper, see *Rallus longirostris*
 Georgia Clapper, see *Rallus longirostris*
 crepitans, R. l. *waynei*
 Virginia, see *Rallus limicola*
 Yellow, see *Coturnicops noveboracensis*
Rallus limicola, 231, 424
 longirostris, 332-336, 350
 l. *crepitans*, 335
 l. *nayaritensis*, 332-336
 l. *obsoletus*, 335
 l. *rhizophorae*, 332-336
 l. *waynei*, 335
 l. *yumanensis*, 332-336
Ramphocelus passerinii, 151-153
 range expansion of
 Quiscalus mexicanus, 483-485, 602-608
 rat, rice, see *Oryzomys*
 Raven, Australian, see *Corvus coronoides*
 Common, see *Corvus corax*
 White-necked, see *Corvus cryptoleucus*
 Rea, Amadeo M., see Wilson, Michael and
 —————
 Redshank, see *Tringa totanus*
 Redstart, American, see *Setophaga ruticilla*
Regulus calendula, 166-167, 425, 485
 satrapa, 223, 425
Rheinardia, 621
Rhodothraupis celaeno, 130-148
Rhynchops niger, 158
 Rice, Robin C. A., see King, Kirke A.,
 David R. Blankenship, Richard T.
 Paul, and ———
 Ridgely, Robert S., A Guide to the Birds
 of Panama, reviewed, 192
Riparia riparia, 543-561
Rissa tridactyla, 243, 473, 616-618
 Robertson, Raleigh J., see Weatherhead,
 Patrick J. and ———
 Robin, American, see *Turdus migratorius*
 Roby, Daniel, see Raffaele, Herbert A. and
 —————
 Rodgers, James A., Jr., Breeding displays
 of the Louisiana Heron, 266-285
 Rohwer, Sievert, Ground foraging and rapid
 molt in the Chuck-will's-widow, 165-
 166
 Rothstein, Stephen I., Cowbird parasitism
 and egg recognition of the Northern
 Oriole, 21-32
 Rowley, Ian, Bird Life, reviewed, 495-496
 Ryder, John P. Donald E. Orr, and Ghomi
 H. Saedi, Egg quality in relation to
 nest location in Ring-billed Gulls,
 473-475; ——— and Lynn Somppi,
 Growth and development of known-
 age Ring-billed Gull embryos, 243-
 252; see Johnson, Bruce R. and
 —————
 Sabrewing, Violet, see *Campylopterus hemi-*
 leucurus
 Sadler, Thomas S. and M. Timothy Myres,
 Alberta Birds, 1961-1970, with Partic-
 ular Reference to Migration, re-
 viewed, 641-642

- Saedi, Ghomi H., see Ryder, John T., Donald E. Orr, and ———
- Salpinctes obsoletus, 253-265
- Saltator spp. (albicollis, atriceps, atricollis, atripennis, aurantirostris, cinctus, coerulescens, maximus, maxillosus, orenocensis, rufiventris, similis), 130-148
- Samson, Fred B., Social dominance in winter flocks of Cassin's Finch, 57-66
- Sanderling, see *Calidris alba*
- Sandpiper, Baird's, see *Calidris bairdii*
Least, see *Calidris minutilla*
Pectoral, see *Calidris melanotos*
Semipalmated, see *Calidris pusillus*
Solitary, see *Tringa solitaria*
Spotted, see *Actitis macularia*
Stilt, see *Micropalama himantopus*
Upland, see *Bartramia longicauda*
White-rumped, see *Calidris fuscicollis*
- Sapphire, Blue-chinned, see *Chlorestes notatus*
- Sappington, James N., Breeding biology of House Sparrows in north Mississippi, 300-309
- Sapsucker, Yellow-bellied, see *Sphyrapicus varius*
Williamson's, see *Sphyrapicus thyroideus*
- Sayornis nigricans, 253-265
phoebe, 226, 632-635
- Scaphiopus hammondi, 623-624
- Scharf, William C., see Shugart, Gary W. and ———
- Schmitt, Carl Gregory, Summer Birds of the San Juan Valley, New Mexico, reviewed, 645
- Schnell, Gary D., see Hellack, Jenna J. and ———
- Schreiber, Ralph W., Maintenance Behavior and Communication in the Brown Pelican, reviewed, 639-641
- Scoter, White-winged, see *Melanitta deglandi*
- Sealy, Spencer G., Wing molt of the Kittlitz's Murrelet, 467-469
- Seedeater, Variable, see *Sporophila aurita*
- Seets, James W. and H. David Bohlen, Comparative mortality of birds at television towers in central Illinois, 422-433
- segregation, sexual
Lagopus lagopus, 109
L. leucurus, 108-110
L. mutus, 109
- Seiurus aurocapillus, 166, 231, 426, 458, 466
noveboracensis, 426, 466
- Selasphorus scintilla, 163
- Sericotes, 341
- Setophaga ruticilla, 166-167, 231, 426, 461, 466
- sex determination
Eudocimus albus, 92-98
Ortalis vetula, 48-51
- sex ratio
Carpodacus cassinii, 58-59
Lagopus leucurus, 108-109
Passer domesticus, 302
- sexual dimorphism, 619-621
Chlorostilbon canivettii, 160
Eudocimus albus, 92-98
Pipilo maculosa, 385-387
- Shag, see *Phalacrocorax aristotelis*
- Shrike, Loggerhead, see *Lanius ludovicianus*
Northern, see *Lanius excubitor*
- Shugart, Gary W. and William C. Scharf, Predation and dispersion of Herring Gull nests, 472-473
- Sialia currucoides, 407
sialis, 232, 404-414
- Silliman, James, G. Scott Mills, and Stephen Alden, Effect of flock size on foraging activity in wintering Sanderlings, 434-438
- Simpson, George Gaylord, Penguins, Past and Present, Here and There, reviewed, 648
- Sitta canadensis, 424
carolinensis, 231
- Skimmer, Black, see *Rhynchops niger*
- Skutch, Alexander F., Parent Birds and Their Young, reviewed, 649
- Slack, R. Douglas, see Morrison, Michael L. and ———
- Sloan, Norman F., new life member, 210
- Slud, Paul, review by, 183-189; Geographic

- and Climatic Relationships of Avifaunas with Special Reference to Comparative Distribution in the Neotropics, reviewed, 499-501
- Smith, R. W., see Diamond, A. W., P. Lack, and ———
- snake
 black rat, see *Elaphe obsoleta*
 red-sided garter, see *Thamnophis sirtalis parietalis*
- Snipe, Common, see *Capella gallinago*
- Snow, Barbara K., Feeding behavior of two hummingbirds in a Costa Rican montane forest, 613-616
- social dominance
Carpodacus cassinii, 59-60
- Somppi, Lynn, see Ryder, John P. and ———
- song patterns
Chasiempis sandwichensis, 195-197
Pipilo erythrophthalmus, 477-480
- Songlark, Australian Brown, see *Cincloramphus cruralis*, 619-620
- Sora, see *Porzana carolina*
- Sparrow, Chipping, see *Spizella passerina*
 Field, see *Spizella pusilla*
 Grasshopper, see *Ammodramus savannarum*
 Henslow's, see *Ammodramus henslowii*
 House, see *Passer domesticus*
 Lark, see *Chondestes grammacus*
 Lincoln's, see *Melospiza lincolni*
 Savannah, see *Passerculus sandwichensis*
 Sharp-tailed, see *Ammospiza caudacuta*
 Song, see *Melospiza melodia*
 Swamp, see *Melospiza georgiana*
 Vesper, see *Poocetes gramineus*
 White-crowned, see *Zonotrichia leucophrys*
 White-throated, see *Zonotrichia albicollis*
- Sparrowhawk, see *Accipiter nisus*
- Sphyrapicus thyoideus, 622-623
 varius, 310-324, 424, 622
 v. nuchalis, 622
 v. varius, 622
- Spinus psaltria*, see *Carduelis psaltria*
- Spiza americana*, 130-148, 222, 224, 231, 349, 427
- Spizella passerina*, 232, 427, 543-561
pusilla, 173, 231, 297, 427, 432, 479, 543-561, 625-627
- Spofford, Sally Hoyt, Poplar leaf-stem gall insects as food for warblers and woodpeckers, 485; review by, 654
- Spoonbill, Roseate, see *Ajaia ajaja*
- Sporophila aurita*, 152
- Springer, Paul F., see Avery, Michael, ———, and J. Frank Cassel
- squirrel, flying, see *Glaucomys volans*
- Stacy, Peter B. and Roxana Jansma, Storage of piñon nuts by the Acorn Woodpecker in New Mexico, 150-151
- Stahlecker, Dale W. and Herman J. Griese, Evidence of double brooding by American Kestrels in the Colorado high plains, 618-619
- Starling, see *Sturnus vulgaris*
- Starthroat, Plain-capped, see *Helicmaster constantii*
- Stelgidopteryx ruficollis*, 410, 580
- Sterna albifrons*, 475, 613
 a. antillarum, 613
 a. browni, 613
 fuscata, 157
 hirundo, 157-158, 475, 599
 maxima, 416
 sandvicensis, 416
- Stinson, Christopher H., The spatial distribution of wintering Black-bellied Plovers, 470-472
- Stork, American Wood, see *Mycteria americana*
- Streptopelia risoria*, 593-601
- Strix varia*, 231
- Sturkie, Paul B., ed., *Avian Physiology*, 3rd ed., reviewed, 496-497
- Sturnella magna*, 212, 231, 486, 543-561
- Sturnus vulgaris*, 165, 469, 487, 543-561
- Sutton, George Miksch, The Lesser Prairie Chicken's inflatable neck sacs, 521-522
- Svensson, Lars, Identification Guide to European Passerines, 2nd (revised) ed., reviewed, 191-192
- Swallow, Bank, see *Riparia riparia*
 Barn, see *Hirundo rustica*
 Cliff, see *Petrochelidon pyrrhonota*

- Rough-winged, see *Stelgidopteryx ruficollis*
 Tree, see *Iridoprocne bicolor*
 Swander, Lynda, see Brewer, Richard and ———
 Swierczewski, Edward V., review by, 502-503
 Swift, Chimney, see *Chaetura pelagica*
Sylvilagus auduboni, 470
Syntarus, 489
Tachyphonus luctosus, 152
 Tanager, Masked, see *Tangara larvata*
 Scarlet, see *Piranga olivacea*
 Scarlet-rumped, see *Ramphocelus passerinii*
 Summer, see *Piranga rubra*
 White-shouldered, see *Tachyphonus luctosus*
Tangara larvata, 152
 nigroviridis consobrina, 639
 taxonomy, numerical
 Cardinalinae, 130-148
Telmatodytes palustris, 231, 424
 Tern, Black, see *Chilidonias niger*
 Common, see *Sterna hirundo*
 Least, see *Sterna albifrons*
 Royal, see *Sterna maxima*
 Sandwich, see *Sterna sandvicensis*
 Sooty, see *Sterna fuscata*
 territoriality
 Agelaius phoeniceus, 585-589
 Chasiempis sandwichensis, 194-195
 Corvus corax, 236-237
 Philodice bryantae, 159-160
 Pluvialis squatarola, 470-472
 Podiceps grisegena, 44-45
 Tetrao urogallus, 112, 452, 620
 Thamnophis sirtalis parietalis, 349
 Theberge, John B., see Weber, Wayne C. and ———
 Thielcke, Gerhard A., Bird Sounds, reviewed, 650-651
 Thomas, Betsy Trent, Tropical Screech Owl nest defense behavior and nestling growth rate, 609-612
 Thompson, Max C., see Hunt, George L. and ———
 Thompson, William L., review by, 651-652
 Thrasher, Brown, see *Toxostoma rufum*
Threskiornis aethiopica, 97
 molucca, 342-345
 Thrush, Gray-cheeked, see *Catharus minimus*
 Hermit, see *C. guttatus*
 Swainson's see *C. ustulatus*
 Wood, see *Hylocichla mustelina*
Thryomanes bewickii, 253-265
Thryothorus ludovicianus, 231, 477
 Tit, Blue, see *Parus caeruleus*
 Great, see *P. major*
 Titmouse, Tufted, see *Parus bicolor*
 Tityra, Black-crowned, see *Tityra inquisitor*
 Masked, see *T. semifasciata*
Tityra inquisitor, 152
 semifasciata, 152
 toad, western spadefoot, see *Scaphiopus hammondi*
 Tomlinson, R. E., see Ohmart, R. D. and ———
 Towhee, Albert's, see *Pipilo aberti*
 Rufous-sided, see *P. erythrophthalmus*
Toxostoma rufum, 231, 424, 543-561
 trachea
 Ortalis vetula, 48-51
 Tramer, Elliot J. and Flora E. Tramer, Feeding responses of fall migrants to prolonged inclement weather, 166-167
 Tramer, Flora E., see Tramer, Elliot J. and ———
 Traylor, Melvin A. Jr., see Paynter, Raymond A. Jr. and ———
 Treasurer's Report, 507-509
Tringa flavipes, 167-171
 melanoleuca, 167-171
 solitaria, 167-171
 totanus, 437
Troglodytes aedon, 232, 253-265, 424, 543-561
 troglodytes, 424
Turdus migratorius, 232, 487, 543-561
 Turnstone, Ruddy, see *Arenaria interpres*
 turtle, diamondback, see *Malaclemys terrapin*
Tympanuchus cupido, 522
 pallidicinctus, 521-522, colorplate facing 521
Tyrannus spp., 407

- tyrannus, 231, 487, 543-561
 verticalis, 29, 253-265
 Tyto alba, 303
 Uintornis, 357
 Uropsila leucogastra, 345
 Veery, see *Catharus fuscescens*
 Verbeek, Nicolaas A. M., Comparative feeding behavior of immature and adult Herring Gulls, 415-421
 Verdin, see *Auriparus flaviceps*
 Vermivora bachmanii, 373-379, colorplate facing 373
 celata, 253-265, 425
 chrysoptera, 425
 luciae, 253-265
 peregrina, 166, 425, 466
 pinus, 231
 ruficapilla, 425
 Violet-ear, Green, see *Colibri thalassinus*
 Brown, see *Colibri delphinae*
 Vireo, Bell's, see *Vireo bellii*
 Philadelphia, see *V. philadelphicus*
 Red-eyed, see *V. olivaceus*
 Solitary, see *V. solitarius*
 Warbling, see *V. gilvus*
 White-eyed, see *V. griseus*
 Yellow-green, see *V. flavoviridis*
 Yellow-throated, see *V. flavifrons*
 Vireo bellii, 349
 flavifrons, 425
 flavoviridis, 345
 gilvus, 232, 253-265, 543-561
 griseus, 231
 olivaceus, 212, 231, 425, 543-561
 philadelphicus, 425
 solitarius, 425
 Virgin Islands, 338-342
 vocalization
 Chasiempis sandwichensis, 195-197
 Pipilo erythrophthalmus, 477-480
 Sphyrapicus varius, 316-318
 vole, meadow, see *Microtus pennsylvanicus*
 Vulpes vulpes, 472
 Vulture, Black, see *Coragyps atratus*
 Yellow-headed, see *Cathartes burrovianus*
 Waide, Robert B. and Jack P. Hailman, Birds of five families feeding from spider webs, 345-346
 Warbler, Bachman's, see *Vermivora bachmanii*
 Bay-breasted, see *Dendroica castanea*
 Black and White, see *Mniotilta varia*
 Blackburnian, see *Dendroica fusca*
 Blackpoll, see *Dendroica striata*
 Black-throated Blue, see *Dendroica caerulescens*
 Black-throated Green, see *Dendroica virens*
 Blue-winged, see *Vermivora pinus*
 Canada, see *Wilsonia canadensis*
 Cape May, see *Dendroica tigrina*
 Cerulean, see *Dendroica cerulea*
 Chestnut-sided, see *Dendroica pensylvanica*
 Connecticut, see *Oporornis agilis*
 Golden-sided, see *Vermivora chrysoptera*
 Hooded, see *Wilsonia citrina*
 Lucy's, see *Vermivora luciae*
 MacGillivray's, *Oporornis tolmiei*
 Magnolia, see *Dendroica magnolia*
 Mourning, see *Oporornis philadelphia*
 Nashville, see *Vermivora ruficapilla*
 Orange-crowned, see *Vermivora celata*
 Palm, see *Dendroica palmarum*
 Pine, see *Dendroica pinus*
 Prairie, see *Dendroica discolor*
 Prothonotary, see *Protonotaria citrea*
 Reed, see *Acrocephalus scirpaceus*
 Sedge, see *Acrocephalus schoenobaenus*
 Swainson's, see *Limnithlypis swainsonii*
 Tennessee, see *Vermivora peregrina*
 Worm-eating, see *Helminthos vermivora*
 Yellow, see *Dendroica petechia*
 Yellow-rumped, see *Dendroica coronata*
 Yellow-throated, see *Dendroica dominica*
 Waxwing, Cedar, see *Bombycilla cedrorum*
 weather, effects on
 breeding bird surveys, 555-558
 foraging, 166-167
 Sialia sialis, 408-409
 mortality, 291-299, 422-433
 nesting
 Anas acuta, 154-157
 Bonasa umbellus, 449
 Iridoprocne bicolor, 289

- Petrochelidon pyrrhonota, 289
 Sterna hirundo, 475
 Weatherhead, Patrick J. and Raleigh J. Robertson, Male behavior and female recruitment in the Red-winged Blackbird, 583-592
 Weathers, Wesley W., see Caccamise, Donald F. and ———
 Weber, Wayne C. and John B. Theberge, Breeding bird survey counts as related to habitat and date, 543-561
 Weeks, Harmon P., Nest reciprocity in Eastern Phoebes and Barn Swallows, 632-635
 weight
 Eudocimus albus, 92-94
 migrant warblers, 456-465
 Ortalis vetula, 51-54
 Wells, David R., see Medway, Lord and ———
 Whimbrel, see Numenius phaeopus
 Whip-poor-will, see Caprimulgus vociferus
 Whistling-duck, Black-bellied, see Dendrocygna autumnalis
 Fulvous, see D. bicolor
 White, Donald H. and Eugene Cromartie, Residues of environmental pollutants and shell thinning in Merganser eggs, 532-542
 White-Schuler, Susan C., review by, 649
 Whitmore, Robert C., Habitat partitioning in a community of passerine birds, 253-265
 Whittow, G. C. and A. J. Berger, Heat loss from the nest of the Hawaiian Honeycreeper, "Amakihi," 480-483
 Whydah, African Long-tailed, see Euplectes progne delamerei
 Wickstrom, George M., Auditor's Report, 512
 Willet, see Catoptrophorus semipalmatus
 Wilson, Michael and Amadeo M. Rea, Late Pleistocene Williamson's Sapsucker from Wyoming, 622-623
 Wilsonia canadensis, 426
 citrina, 212, 231
 pusilla, 253-265, 426
 Woodcock, American, see Philohela minor
 Woodpecker, Acorn, see Melanerpes formicivorus
 Arizona, see Picoides arizonae
 Downy, see Picoides pubescens
 Golden-fronted, see Melanerpes aurifrons
 Golden-naped, see Melanerpes chrysau-
 chen
 Great Spotted, see Picoides major
 Ladder-backed, see Picoides scalaris
 Pileated, see Dryocopus pileatus
 Red-bellied, see Melanerpes carolinus
 Red-cockaded, see Picoides borealis
 Red-crowned, see Melanerpes rubricapil-
 lus
 Red-headed, see Melanerpes erythroce-
 phalus
 Three-toed, see Picoides tridactylus
 West Indian Red-bellied, see Melanerpes
 superciliaris
 Wood-star, Magenta-throated, see Philodice
 bryantae
 Wren, Bewick's, see Thryomanes bewickii
 Cactus, see Campylorhynchus brunneica-
 pillus
 Carolina, see Thryothorus ludovicianus
 House, see Troglodytes aedon
 Long-billed Marsh, see Telmatodytes pa-
 lustris
 Rock, see Salpinctes obsoletus
 Short-billed Marsh, see Cistothorus pla-
 tensis
 Superb Blue, see Malurus cyaneus
 White-bellied, see Uropisila leucogastra
 Winter, see Troglodytes troglodytes
 Xanthocephalus xanthocephalus, 73-80,
 253-265
 Yellowlegs, Greater, see Tringa melano-
 leucas
 Lesser, see Tringa flavipes
 Yellowthroat, Bahama, see Geothlypis ro-
 strata
 Common, see Geothlypis trichas
 Zeleny, Lawrence, The Bluebird: How You
 Can Help Its Fight for Survival, re-
 viewed, 502-503
 Zenaida macroura, 231, 487, 543-561
 Zernickow, Hubert P., new life member, 46
 Zonotrichia albicollis, 427
 leucophrys, 88, 173, 427
 l. nuttalli, 651-652
 Zosterops japonica, 208
 Zusi, Richard L., review by, 648