

INDEX TO VOLUME 55

A

- Acanthis flammea*, 43-44
 hornemanni, 43
Accipiter cooperii, 90, 239, 271
 striatus, 269
 striatus suttoni, 90
Acrocephalus bistrigiceps, 42
Actitis macularia, 270
Aechmolphus mexicanus, 93
Aechmolphus, Crested, 93
Aechmophorus occidentalis, 44
Aëronauts saxatilis, 270
Aethia cristatella, 301
Agelaius phoeniceus, 156, 176, 271
 phoeniceus caurinus, 316
 phoeniceus grinnelli, 208
Agriornis montana, 20
Aimophila rufescens antonensis, 47
 rufescens mcleodii, 96-97
 rufescens pallida, 96-97
 rufescens subvespera, 96-97
 ruficauda, 209
 ruficauda acuminata, 96, 97
 ruficauda connectens, 209
 ruficauda ruficauda, 209
 ruficeps, 97, 156
 ruficeps fusca, 97
Aix sponsa, 35-37, 45
Akepa, 222
Akialoa, 222
Akiapolaau, 222
Alauda arvensis, 41
Alca torda, 130
 Alcorn, J. R., food of the common merganser in
 Churchill County, Nevada, 151
 Alvarez del Toro, Miguel, and Selander, Robert
 K., the breeding distribution of *Chordeiles*
 minor in Mexico, 160
Amakihi, Greater, 222
Amaurornis phoenicurus, 184
Amazilia beryllina devillei, 203
 beryllina viola, 91
 candida pacifica, 203
 rutila, 203
Amazona albifrons nana, 202
 ochrocephala, 202
Ammodramus savannarum pratensis, 209
Anas acuta, 33, 201
 acuta acuta, 275-276
 acuta tzitzihoa, 275-276
 clypeata, 33-37
 crecca, 201
 crecca crecca, 153, 300
 cyanoptera, 152-153
 discors, 152-153, 179, 201
 eatonii, 276
 platyrhynchos, 33-37, 113, 170, 300, 311
 strepera, 35-37
 Anderson, William, and Miller, A. W., hybridiza-
 tion of cinnamon and blue-winged teal in
 northeastern California, 152
 Ani, Groove-billed, 202, 205, 208, 209
 Anser, 100-101
 albifrons, 100
 albifrons frontalis, 100
 anser, 33, 100
 anser rubrirostris, 100
 fabalis, 100
Anrostomus vociferus arizonae, 281-286
 vociferus vociferus, 285
Aphelocoma coerulescens, 271
 ultramarina ultramarina, 93
Apus pacificus pacificus, 41
Aquila chrysaëtos, 91, 300
 Aracari, Collared, 204
Aratinga canicularis, 203, 204, 206, 208
 canicularis canicularis, 202
Archilochus alexandri, 45, 143, 271
 colubris, 143, 203
Ardea herodias, 112, 200, 218
Asio wilsonianus, 43
Aspatha gularis, 135
Asyndesmus lewis, 45
Attila spadiceus flammulatus, 92
 spadiceus pacificus, 92
Attila, Polymorphic, 92
 Auklet, Crested, 301
 Avocet, 279
 American, 45
Aythya affinis, 201
 americana, 34-37, 45, 179
 collaris, 45, 277-278
 fuligula, 33
 marila, 300
 valisineria, 178

B

- Baily, A. Lang, eastern race of yellow-bellied
 sapsucker in Colorado, 219
Balanosphyra formicivorus, 204, 270, 271
 Baldpate, 201, 277
 Baldwin, Paul H., and Richards, Lawrence P.,
 recent records of some Hawaiian honey-
 creepers, 221
Barbet, Blue-throated, 220
 Crimson-breasted, 220
 Great Himalayan, 220
 Toucan, 220
Basileuterus belli scitulus, 207
 delatirii delatirii, 207
 rufifrons dugesi, 95
Basileuterus, Bell, 207
 Delattre, 207
 Baumel, Julian J., individual variation in the
 white-necked raven, 26
 Becard, Black-capped, 204
 Rose-throated, 92

- Berger, Andrew J., protracted incubation behavior of a female American goldfinch, 151; three cases of twin embryos in passerine birds, 157
- Blackbird, Brewer, 88, 178, 219, 271
Red-wing, 156, 176, 208, 271, 316
Rusty, 46
- Blackford, John L., bird records from northwestern Montana, 277; breeding haunts of the Stephens whip-poor-will, 281
- Blake, Emmet Reid, birds of Mexico, a guide for field identification, a review by A. H. Miller, 280
- Bluebird, 143
Common, 206
Eastern, 94
Mexican, 271, 272
Mountain, 270
Western, 230, 247
- Bobolink, 216
- Bob-white, 91
- Bombycilla cedrorum, 46, 143, 206
- Booth, Ernest S., American golden-eye in Sonora, Mexico, 160
- Branta canadensis, 100-101, 112
canadensis interior, 27
canadensis leucopareia, 100, 301
- Brauner, Joseph, observations on the behavior of a captive poor-will, 68
- Briggs, Marjorie A., unrecorded specimens of *Neochloe brevipennis* taken in Oaxaca, 156
- Brodkorb, Pierce, a review of the Pliocene loons, 211
- Brotogetis jugularis jugularis, 202
- Bubo virginianus, 20, 91
- Bucephala clangula, 160
- Buckley, John L., and Cade, Tom J., a mass emigration of sharp-tailed grouse from the Tanana Valley, Alaska, in 1934; 313
- Bunting, Indigo, 207, 209
Lark, 209
Lazuli, 272
Meadow, 153
Painted, 209
Snow, 152, 301
Yellow-throated, 154
- Bush-tit, 93, 271
- Buteo brachyurus, 90
buteo burmanicus, 153
jamaicensis, 90, 161, 269, 271
lineatus elegans, 316
magnirostris direptor, 201
- Buteogallus anthracinus, 201
- Butorides virescens, 200, 239
- Buzzard, Japanese, 153
- Cade, Tom J., sub-nival feeding of the redpoll in interior Alaska: a possible adaptation to the northern winter, 43
- Cade, Tom J., and Buckley, John L., a mass emigration of sharp-tailed grouse from the Tanana Valley, Alaska, in 1934, 313
- Cairina moschata, 180
- Calamospiza melanocorys, 216
- Calcarius lapponicus, 300
lapponicus alascensis, 152, 216
- Calocitta formosa, 203, 205
formosa azurea, 205
formosa pompata, 205
- Calypte anna, 155, 271
- Campylorhynchus, 145
gularis, 94
rufinucha, 206
rufinucha castaneus, 206
rufinucha nigricaudatus, 206
zonatus, 134
- Camptostoma imberbe, 93
imberbe imberbe, 93
imberbe ridgwayi, 93
- Canvasback, 178
- Capella hardwickii, 40
- Caprimulgus europaeus, 69
vociferus oaxacae, 91
- Caracara cheriway, 201
- Caracara, 201
- Cardiff, Eugene, and Cardiff, Bruce, records of Coues flycatcher and chestnut-sided warbler in California, 217; additional records for the American redstart in the Imperial Valley of California, 279
- Cardinal, 220
- Carpodacus, 193, 265
cassini, 46, 265, 270
mexicanus, 75, 95, 154-155, 272
mexicanus centralis, 96
mexicanus coccineus, 96
mexicanus mexicanus, 96
purpureus, 265, 271
purpureus californicus, 156
- Casmerodius albus, 200
- Cassidix mexicanus mexicanus, 207
- Catbird, 99, 151
- Cathartes aura, 45, 90, 201, 218
- Catharus aurantirostris clarus, 94
- Catherpes mexicanus, 271
mexicanus mexicanus, 94
- Catoptrophorus semipalmatus, 45, 218
- Centurus aurifrons, 202, 203
aurifrons santacruz, 204
rubricapillus, 133
- Cepphus carbo, 41
columba, 301
- Certhia familiaris, 94, 270, 271
familiaris alticola, 94
familiaris guerrerensis, 94
- Ceryle alcyon alcyon, 203
torquata, 203
- Chamaea fasciata, 271
- Chamaethlypis poliocephala caninucha, 207

C

- Charadrius vociferus*, 201
Chenopsis atrata, 178
 Chickadee, Black-capped, 43
 Carolina, 151
 Hudsonian, 43
 Mountain, 270
 Chicken, White Leghorn, 287-298
Chloëphaga melanoptera, 20
Chloris sinica, 153
Chloroceryle americana, 203
 americana septentrionalis, 203
Chlorura chlorura, 270
 Chordeiles, 70
 minor, 91, 160-161, 269
 minor aserriensis, 160-161
 minor chapmani, 161
 minor henryi, 160-161
 minor hesperis, 161
 Cinclodes, 20
Cinclus mexicanus, 158
Ciridops anna, 222
Cissilopha melanocyanea melanocyanea, 205
Clangula hyemalis, 305-312
Coccyzus americanus americanus, 202
 Colaptes, 20
 auratus borealis, 316
 cafer, 239, 269, 270, 271
 cafer mexicanus, 91
Colinus virginianus, 91
Columba fasciata, 202, 270, 271
Columbigallina minuta, 21-25
 passerina, 21-25, 160, 218
 passerina pallescens, 202
 talpacoti, 21-25
 talpacoti rufipennis, 202
 talpacoti talpacoti, 21-25
Colymboides anglicus, 214
 minutus, 214
Colymbus dominicus, 143
 grisegena, 179
 grisegena holbölli, 220
Compsothlypis americana, 216
 Condor, California, 47, 150
Contopus cinereus brachytarsus, 205
 pertinax pallidiventris, 217
 pertinax pertinax, 93, 205
 richardsonii, 93, 270, 271
 Coot, 33
 American, 31, 102-103, 169-186, 201
 Black, 177, 178, 182, 183
 Hawaiian, 184
 Red-gartered, 183
 White-winged, 183
Coragyps atratus, 90, 97, 201, 218
 Cormorant, Brandt, 315
 Double-crested, 44, 111-112, 115, 315
 Olivaceous, 200
 Pelagic, 39, 40, 301, 302
 Temminck, 39, 40, 41
Corvus corax, 43, 93
 corone orientalis, 41
 cryptoleucus, 26-32
 levallantii japonensis, 41
 Cowbird, 95, 151, 156
 Bronzed, 218
 Brown-headed, 316, 318
 Red-eyed, 207
 Crane, Elwe, 184
 Creeper, 20
 Brown, 94, 270, 271
 Crossbill, Red, 96, 158-160, 193-197
 White-winged, 43
Crotophaga sulcirostris, 202
 Crow, Carrion, 41
 Jungle, 41
 Cuckoo, Lesson Ground, 202
 Squirrel, 91, 202
 Yellow-billed, 202
 Curlew, Long-billed, 218, 316
Cyanerpes cyaneus carneipes, 207
Cyanocephalus cyanocephalus, 46
Cyanopica cyanus koreensis, 153
Cyanocitta stelleri, 270, 271
 stelleri lazula, 206
 stelleri ridgwayi, 206
 stelleri suavis, 206
Cygnus olor, 178

D

- Davis, John, birds of the Tzitzio region, Mexico, 90; precocious sexual development in the juvenal English sparrow, 117
 Delacour, Jean, review of "The Dodo and Kindred Birds," by M. Hachisuka, 223
Dendrocopos albolaryvatus, 270
 arizonae, 91-92
 arizonae arizonae, 92
 arizonae fraterculus, 92
 kizuki acutirostris, 153
 nuttallii, 271
 pubescens, 270
 scalaris, 91
 scalaris azelus, 91
 scalaris centrophilus, 91
 stricklandi, 91-92
 stricklandi arizonae, 92
 stricklandi fraterculus, 92
 villosus, 133, 269, 270
Dendrocoryna autumnalis lucida, 201
 bicolor, 201
Dendroica aestiva, 271, 272
 auduboni, 270, 271, 272
 coronata, 156
 coronata coronata, 207
 graciae decora, 95
 graciae graciae, 95
 magnolia, 207
 nigrescens, 271, 272
 occidentalis, 270, 272
 palmarum, 162, 276
 pennsylvanica, 217
 petechia aestiva, 207

- striata, 278
 townsendi, 272
 virens virens, 207
 Dickcissel, 215
 Dickerman, Robert W., and Phillips, Allan R.,
 first United States record of *Myiarchus*
 nuttingi, 102
 Dilger, William C., duetting in the crimson-
 breasted barbet, 220
 Dipper, 158
Dolichonyx oryzivorus, 216
 Dove, Ground, 160, 202, 218
 Inca, 91, 160, 202
 Mourning, 202, 269, 271
 Ring, 3, 14-16
 Talpacoti, 202
 Talpacoti Ground, 21-25
 White-winged, 202, 218
 Dowitcher, 45
Drepanis pacifica, 222
Dryocopus lineatus similis, 204
 Duck, Black-bellied Tree, 201
 Eider, 33
 Fulvous Tree, 201
 Harlequin, 300
 Lesser Scaup, 201
 Muscovy, 180
 Oldsquaw, 305-312
 Redhead, 45
 Ring-necked, 45, 277-278
 Ruddy, 174, 179, 180, 201
 Tufted, 33, 36
 Wood, 35-37, 45
Dumetella carolinensis, 99, 151
- E
- Eagle, Bald, 158, 300, 301-302
 Golden, 91, 300
 Egret, Common, 200
 Snowy, 200, 218
Egretta thula, 218
 Eider, 302
 Common, 301
Elaenia viridicata, 93
 viridicata jaliscensis, 93
 viridicata placens, 93, 205
Elaenia, Greenish, 93, 205
Emberiza cioides, 153
 elegans elegans, 154
 Emerald, White-bellied, 203
Empidonax affinis, 93
 difficilis, 218, 271
 difficilis occidentalis, 93
 euleri, 218
 flaviventris, 205
 fulvifrons fuscipes, 205
 fulvifrons rubicundus, 93
 griseus, 270
 hammondii, 205
 minimus, 205, 218
 traillii, 218, 270
 wrightii, 270
Eremophila alpestris, 152
Erolia alpina, 305-312
 minutilla, 201
 ptilocnemis, 300
Eudocimus albus, 201
Eumomota superciliosa, 202
 superciliosa bipartita, 203
Euphagus carolinus, 46
 cynocephalus, 179, 271
Euphonia, Blue-hooded, 95
 Lesson, 208
Eupoda montana, 160
- F
- Falco columbarius*, 45
 peregrinus, 277
 sparverius, 20, 201, 269, 270
 subbuteo, 39, 40
 Falcon, Laughing, 91, 201
 Farner, Donald S., and Mewaldt, L. R., the com-
 position of a wintering population of
 white-crowned sparrows in southeastern
 Washington, 313
 Fennell, Chester M., notes on the birds of Daiko-
 kujima, Hokkaido, Japan, 38
 Finch, Cassin, 195, 270
 Gray-headed, 20
 Ground, 20
 House, 75, 86, 95, 154-155, 272, 318
 Purple, 156, 271
 Rosy, 301
 Fish, William R., a method for the objective study
 of bird song its application to the analysis
 of Bewick wren songs, 250
 Flat-bill, Sulphury, 205
 Flavin, John W., Jr., second record of the ver-
 million flycatcher in Colorado, 215
 Flicker, 20
 Red-shafted, 91, 239, 269, 270, 271
 Yellow-shafted, 316
Florida caerulea, 218
 caerulea caeruleascens, 200
 Flycatcher, Ash-throated, 101, 205, 271
 Beardless, 93
 Boat-billed, 204
 Brown-crested, 205, 274
 Buff-breasted, 93, 205
 Coues, 93, 205, 217
 Crested, 218, 219
 Dusky-capped, 205
 Gray, 270
 Gray-backed Tody, 205
 Gray Silky, 95
 Hammond, 205
 Kiskadee, 205
 Least, 205, 218
 Nutting, 101
 Olivaceous, 92
 Olive-sided, 217
 Scissor-tailed, 204

- Traill, 218, 270
 Tufted, 93
 Vermilion, 92, 215, 216
 Vermilion-crowned, 205
 Western, 93, 218, 271
 Wright, 270
 Yellow-bellied, 205
 Frigate Bird, 158
Fregata magnificens, 218
Fulica americana, 31, 33, 102-103, 169-186
 americana alai, 184
 americana americana, 201
 armillata, 183
 atra, 177, 178
 leucoptera, 183
 Fulmar, 302
Fulmarus glacialis, 302
- G**
- Gabrielson, Ira N., and Lincoln, Frederick C.,
 status of the lesser common loon, 314
 Gadwall, 35-37
Gallirallus troglodytes, 184
 Gannet, 177
Galbula melanogenia, 131
Gallicrex cinerea, 184
Gallinula chloropus, 183
Gallinule, Black, 183, 184
Gavia arctica, 212
 arctica pacifica, 213
 concinna, 211-214
 howardae, 212-214
 immer, 211, 212, 214, 314-315
 immer elasson, 314-315
 immer immer, 314-315
 pacifica, 211, 212, 214
 paleodytes, 211-214
 portisi, 211, 214
 pusilla, 214
 stellata, 211, 212, 214, 300
Geococcyx californianus, 215-216
 velox melanchima, 91
 Geositta, 20
Geothlypis trichas, 27
 trichas brachyactyla, 207
 Giles, Leroy W., and Marshall, David B., recent
 observations on birds of Anaho Island,
 Pyramid Lake, Nevada, 105
 Glover, Fred A., record of starling in Humboldt
 County, California, 219; summer food of
 the burrowing owl, 275
 Gnatcatcher, Blue-gray, 94, 206, 272
 White-lored, 206
 Godwit, Bar-tailed, 300
 Hudsonian, 318
 Golden-eye, American, 160
 Goldfinch, 157, 250
 American, 151, 238
 Arkansas, 96, 272
 Lawrence, 272
 Lesser, 205, 206, 209
 Goose, Bolivian, 20
 Canada, 27, 112
 Grey, 33
 Lesser Canada, 301
 Grackle, Great-tailed, 207
 Grassquit, Blue-black, 96, 209
 Grayson, Andrew Jackson, painting of collared
 micrastur, opposite 3
 Grebe, Antillean, 143
 Great Crested, 183
 Pied-billed, 170, 180
 Red-necked, 179, 220
 Western, 44
 Greenfinch, 153
 Grosbeak, Black-headed, 271, 272
 Blue, 208
 Evening, 46, 271
 Pine, 43, 195
 Rose-breasted, 208
 Ground-chat, 207
 Grouse, Sharp-tailed, 313
Guara alba, 218
 Guhl, A. M., and Ortman, L. L., visual patterns
 in the recognition of individuals among
 chickens, 287
 Guillemot, 130
 Sooty, 41
 Pigeon, 301
Guiraca caerulea, 208
 caerulea caerulea, 208
 caerulea eurhyncha, 208
 Gull, Black-tailed, 40, 153
 Bonaparte, 219
 California, 108, 113-115
 Franklin, 33, 219
 Glaucous-winged, 299, 300, 301, 302
 Heermann, 218
 Herring, 156
 Short-billed, 219
 Slaty-backed, 39, 40, 41
 Western, 316
 Gullion, Gordon W., observations on molting of
 the American coot, 102; additional bird
 records from southern Nevada, 160; terri-
 torial behavior of the American coot, 169
 Gullion, Gordon W., and Pulich, Warren M.,
 black-and-white warbler, dickcissel, and
 tree sparrow in Nevada, 215
 Gymnogyps, 31
- H**
- Hachisuka, Masauji, the dodo and kindred birds,
 a review by Jean Delacour, 223
Haematopus bachmani, 300, 302
Haliaeetus leucocephalus, 300
 Hand, R. L., bird notes from western Montana,
 44
 Harrison, Ed, and Roberts, Frances, long-eared
 owl at its nest, a photograph, 43
 Haverschmidt, Fr., notes on the life history of
 Columbigallina talpacoti in Surinam, 21

- Hawk, Cooper, 90, 239, 271
 Crab, 201
 Duck, 277
 Insect, 201
 Marsh, 156
 Pigeon, 45, 156
 Red-shouldered, 316
 Red-tailed, 90, 161, 269, 271
 Sharp-shinned, 90, 156, 269
 Short-tailed, 90
 Sparrow, 20, 201, 269, 270
 White, 201
- Heleodytes bicolor*, 220
- Hemignathus lucidus affinis*, 222
obscurus obscurus, 222
wilsoni, 222
- Henicorhina leucophrys*, 126
leucophrys capitalis, 206
leucosticta, 126
- Heron, Cabanis Tiger, 200
 Great Blue, 112, 115, 200, 218
 Green, 200, 239
 Little Blue, 200, 218
 Tricolored, 200
- Herpetotheres cachinans*, 91, 201
- Hesperiphona vespertina*, 271
- Heterocnus mexicanus mexicanus*, 200
- Heteroscelus incanus*, 300
- Himantopus mexicanus*, 202
- Hirundo rustica*, 140, 153
- Histrionicus histrionicus*, 300
- Hobby, 39, 40
- Hochman, Benjamin, and Johnston, Richard F.,
 erythrocyte permeability and bird relationships, 154
- Honeycreeper, Blue, 207
 Crested, 221-222
- Hummingbird, Allen, 155, 156
 Anna, 155, 271
 Berylline, 91, 203
 Black-chinned, 45, 143, 271
 Blue-throated, 17
 Calliope, 270
 Cinnamomeous, 203
 Dupont, 91
 Guimet, 131
 Ruby-throated, 143, 203
 Rufous, 155-156, 269
 White-eared, 91, 143
- Hyde, A. Sidney, unusual records from western
 Colorado, 216; perceptive powers of a
 duck hawk, 277
- Hydranassa tricolor*, 200
- Hydroprogne caspia*, 115
- Hylocharis leucotis*, 143
leucotis leucotis, 91
- Hylocichla fuscescens*, 99
guttata, 272
ustulata, 271, 272
ustulata swainsonii, 206
- Hylophilus decuratus decuratus*, 207
- Hylophilus*, Gray-headed, 207
- I
- Ibis, White, 201, 218
 Wood, 201
- Icterus cucullatus*, 272
galbula, 202, 208
gularis, 208
gularis gigas, 208
gularis gularis, 208
gularis tamaulipensis, 208
gularis troglodytes, 208
pustulatus, 208
pustulatus alticola, 208
pustulatus sclateri, 208
sclateri, 203
spurius, 208
wagleri wagleri, 95
- Idiotes, 207
- Iridoprocne albilinea albilinea*, 205
bicolor, 230
- J
- Jabiru mycteria*, 201
- Jabiru, 201
- Jacamar, Black-chinned, 131
- Jacana spinosa spinosa*, 201
- Jacana, 200, 201
- Jaeger, Parasitic, 299
- Jay, Canada, 43
 Hartlaub, 205
 Magpie, 205
 Mexican, 93
 Piñon, 46
 Scrub, 271
 Steller, 206, 270, 271
 White-tipped Brown, 137
- Jobin, Leo, a record of the Hudsonian godwit in
 the Cariboo district of British Columbia,
 318
- Johnson, Ned K., dipper eaten by brook trout,
 158
- Johnston, David W., wintering palm warbler at
 Berkeley, California, 276
- Johnston, Richard F., and Hochman, Benjamin,
 erythrocyte permeability and bird relationships, 154
- Jollie, M., plumages, molt, and racial status of
 red crossbills in northern Idaho, 193
- Junco hyemalis*, 187-192
hyemalis cismontanus, 316
hyemalis hyemalis, 316
oreganus, 270, 271, 272, 305
- Junco*, Oregon, 270, 271, 272, 305
 Slate-colored, 187-192, 316
- K
- Kessel, Brina, distribution and migration of the
 European starling in North America, 49
- Killdeer, 201

- Killpack, Merlin L., Lapland longspur and snow bunting recorded in Utah, 152
- Kimsey, J. Bruce, northward extension of the range of the California road-runner in California, 215
- Kingbird, Cassin, 92
 Eastern, 99
 Thick-billed, 92
 Tropical, 204, 219-220
 Western, 204
- Kingfisher, Belted, 203
 Green, 203
 Ringed, 203
- Kinglet, Golden-crowned, 154, 271
 Ruby-crowned, 46, 156, 270, 271, 272
- Kittiwake, 300
- Klais guimeti, 131
- Koa, Lesser, 222
 Greater, 222
 Parrot-billed, 222
- Koford, Carl B., a young California condor, a photograph, 150
- Kona, 222
- Krog, John, notes on the birds of Amchitka, Alaska, 299
- Kuroda, Nagamichi, a wild hybrid between *Branta* and *Anser* obtained in Japan, 100
- L**
- Lagopus mutus*, 299
- Lampornis clemenciae*, 17
- Lapwing, 183
- Lark, Horned, 152, 216
- Larus californicus*, 113-115
crassirostris, 40, 153
franklini, 33
glaucescens, 299, 302
heermanni, 218
occidentalis, 316
pipixcan, 219
schistasagus, 39, 41
- Legg, Ken, a palm warbler in autumn at Point Lobos Reserve, California, 162; third record of the tropical kingbird in California, 219
- Lepidocolaptes leucogaster leucogaster*, 92
souleyetii, 202
souleyetii compressus, 204
- Leptasthenura andicola*, 20
- Leucolepis phaeocephalus*, 220
- Leuconotopicus stricklandi*, 92
- Leucophyx thula*, 200
- Leucopternis albicollis*, 201
- Leucosticte tephrocotis*, 301
- Limnodromus scolopaceus*, 45
- Limosa haemastica*, 318
lapponica, 300
- Lincoln, Frederick C., and Gabrielson, Ira N., status of the lesser common loon, 314
- Lobipes lobatus*, 300
- Locustella fasciolata*, 42
- Longspur, Lapland, 152, 216, 300
- Loon, 302
 Common, 314-315
 Lesser Common, 314-315
 Red-throated, 300
- Lophortyx californica*, 271
- Loxia curvirostra*, 158-160, 193-197
curvirostra bendirei, 159, 160, 193-197
curvirostra benti, 158-159, 193, 196, 197
curvirostra grinnelli, 158-159
curvirostra minor, 194
curvirostra sitkensis, 159, 193-197
curvirostra stricklandi, 96
leucoptera, 43
- Loxops coccinea coccinea*, 222
coccinea ochracea, 222
sagittirostris, 222
- Lunda cirrhata*, 41, 301
- Luscinia calliope*, 42
akahige, 154
- Lybius vielloti*, 220
- M**
- Magpie, Blue, 153
- Mallard, 33-37, 113, 170, 176, 178-180, 300, 311
- Mamo, 222
- Man-o'-war bird, 218
- Mareca americana*, 201, 277
- Marshall, David B., and Giles, Leroy W., recent observations on birds of Anaho Island, Pyramid Lake, Nevada, 105
- Martin, Purple, 225-249
- Meadowlark, 250
- Megamaema asiatica*, 220
haemacephala, 220
virens, 220
- Megarynchus pitangua deserticola*, 205
pitangua mexicanus, 204
- Melanerpes formicivorus formicivorus*, 96
- Melanotis caerulescens effiticius*, 94
- Melospiza georgiana*, 46, 318
lincolni alticola, 209
melodia, 51, 63, 151, 154-155, 157, 270, 272
kieneri rubricatum, 96
- Merganser, American, 113
 Common, 151
- Mergus merganser*, 151
merganser americanus, 113
- Mewaldt, L. R., and Farner, Donald S., the composition of a wintering population of white-crowned sparrows in southeastern Washington, 313
- Michener, Josephine R., molt and variation in plumage pattern of mockingbirds at Pasadena, California, 75
- Micrastur semitorquatus*, 47
- Micrastur*, Collared, 47
- Miller, A. W., and Anderson, William, hybridization of cinnamon and blue-winged teal in northeastern California, 152

Miller, Alden H., more trouble for the California condor, 47; the incubation periods of the Hutton vireo, 221; a review of "Birds of Mexico," by E. R. Blake, 280

Mimus polyglottos, 75-89
polyglottos leucopterus, 316

Miner, 20

Mitrephanes phaeocercus, 93

Mniotilta varia, 151, 207, 215

Mockingbird, 75-89, 316
Blue, 94

Molothrus ater, 95, 151
ater obscurus, 95, 156, 316

Momotus mexicanus castaneiceps, 203
mexicanus mexicanus, 91, 97
momota, 202
momota lessonii, 204

Montgomery, Vester, the Leconte sparrow in New Mexico, 277

Moor-hen, 183

Morejohn, G. Victor, English sparrows nesting within nest of red-tailed hawk, 161

Morococcyx erythropygus erythropygus, 202

Morus bassanus, 177

Motacilla alba, 42

Motmot, Blue-crowned, 204
Blue-throated, 135
Russet-crowned, 91, 203
Turquoise-browed, 203

Murre, Common, 31

Murrelet, Ancient, 153

Musacchia, X. J., a study of the lipids in arctic migratory birds, 305

Muscivora forficata, 204

Muscisaxicola cinerea, 20
frontalis, 20
rufivertex, 20

Myadestes obscurus occidentalis, 94
townsendi, 270

Mycteria americana, 201

Myiarchus cinerascens, 101, 271
cinerascens cinerascens, 205
cinitus, 218, 274
nuttingi inquietus, 101
tuberculifer connectens, 205
tuberculifer querulus, 92
tyrannulus insularum, 274
tyrannulus magister, 274
tyrannulus nelsoni, 205, 274
tyrannulus tyrannulus, 274

Myioborus miniatus miniatus, 95, 97

Myiozetetes similis texensis, 205

N

Nelson, Urban C., northern record of nesting of red-necked grebe, 220

Neochloe brevipennis, 156-157
brevipennis brevipennis, 157
brevipennis browni, 157

Nice, Margaret Morse, some experiences in imprinting ducklings, 33; the earliest mention of territory, 316

Nighthawk, 91
Booming, 269

Nightingale-Thrush, Orange-billed, 94

Notharchus macrorhynchos hyperrhynchus, 204

Notornis hockstetteri, 184

Nucifraga columbiana, 270

Nukupuu, 222

Numerius americanus, 218, 316

Nutcracker, Clark, 270

Nuthatch, Pigmy, 270
Red-breasted, 270
White-breasted, 94, 270

Nyctidromus albicollis, 203

O

Oakeson, Barbara Blanchard, cyclic changes in liver and spleen weights in migratory white-crowned sparrows, 3

Oceanodroma leucorhoa leucorhoa, 38-39

Oporornis tolmiei, 207, 271

Oreoscoptes montanus, 156

Oreotrochilus estella, 17-20
leucopleurus, 19

Oriole, Baltimore, 208
Black-throated, 208
Hooded, 272
Orchard, 208
Scarlet-headed, 208
Wagler, 95

Ortman, L. L., and Guhl, A. M., visual patterns in the recognition of individuals among chickens, 287

Otus asio, 271
bakkamoena ussuriensis, 153

Ou, 222

Ovenbird, 130

Owl, Barn, 69
Burrowing, 275
Fern, 69
Great Horned, 91
Horned, 20
Long-eared, 43
Pigmy, 91
Screech, 271
Scops, 153
Spectacled, 203

Oxyura jamaicensis, 174, 201

Oyster-catcher, Black, 300, 302

P

Pachyramphus major australis, 204

Palila, 222

Palmer, Theodore S., a photograph of, 221-222

Palmeria dolei, 221-222

Parakeet, Orange-chinned, 202
Orange-fronted, 202

- Parkes, Kenneth C., the incubation patch in males of the suborder Tyranni, 218; evidence for the suppression of the American race of the pintail, 275
 Parrot, White-fronted, 202
 Yellow-headed, 202
 Partridge, 184
 Parus atricapillus, 43
 carolinensis, 151
 gambeli, 270
 hudsonicus, 43
 inornatus, 271
 major, 143
 varius varius, 153
 wollweberi wollweberi, 93
 Passer domesticus, 117-120, 161, 226
 Passerculus sandwichensis, 156, 209
 sawatchensis alaudinus, 156
 sawatchensis brooksi, 156
 Passerella iliaca, 26, 154-155, 272
 iliaca brevicauda, 316
 iliaca schistacea, 216
 Passerina amoena, 272
 ciris, 209
 cyanea, 209
 Passerherbulus caudacutus, 216, 277
 Pauraque, 203
 Pearse, Theed, Franklin gull on Pacific coast of British Columbia, 219
 Pearson, Oliver P., use of caves by hummingbirds and other species at high altitudes in Peru, 17
 Pedioecetes phasianellus, 313
 Pewee, Tropical, 205
 Western Wood, 93, 270, 271
 Pelecanus erythrorhynchos, 105-116
 occidentalis, 218
 Pelican, Brown, 218
 White, 105-116
 Perisoreus canadensis, 43
 Petrel, Leach, 38-39, 40, 42
 Petrochelidon, 20
 pyrrhonota, 93, 241, 271
 pyrrhonota melanogaster, 93
 Phainopepla nitens, 272
 Phalacrocorax auritus, 44, 111-112, 315
 capillatus, 39
 penicillatus, 315
 olivaceus mexicanus, 200
 pelagicus, 39, 40, 301, 302
 Phalaenoptilus nuttallii, 68-74, 237, 269, 274
 Phalarope, Northern, 300
 Red, 305-312
 Wilson, 158
 Phalaropus fulicarius, 305-312
 Pheucticus ludovicianus, 208
 melanocephalus, 271, 272
 Pheugopedius fasciato-ventris, 220
 Phillips, Allan R., and Dickerman, Robert W., first United States record of Myiarchus nuttingi, 102
 Phillips, Allan R., and Pulich, Warren M., a possible desert flight line of the American redstart, 99
 Philortyx fasciatus, 91
 Phoebe, Black, 176, 218
 Say, 316
 Phoenicurus auroreus auroreus, 154
 Phrygilus gayi, 20
 Piaya cayana mexicana, 91, 97
 cayana stirtoni, 202
 cayana thermophila, 202
 Piculus rubiginosus maximus, 204
 Picus arizonae, 92
 stricklandi, 92
 Pigeon, Band-tailed, 202, 270, 271
 Pinicola enucleator, 43
 Pintail, 33, 35, 201, 275-276
 Pipilo aberti, 96
 erythrophthalmus, 96, 270, 271, 272
 fuscus, 272
 fuscus fuscus, 96
 ocai, 96
 Pipromorpha oleaginea, 131
 Piranga flava hepatica, 95
 leucoptera leucoptera, 208
 ludoviciana, 202, 208, 270, 271, 272
 rubra rubra, 208
 Pitangus sulphuratus guatemalensis, 205
 Pitelka, Frank A., a review of "The Study of Instinct," by N. Tinbergen, 163; a review of "Between Pacific Tides," by E. F. Ricketts and J. Calvin, 164
 Platyparis aglaiae albiventris, 92
 Plectrophenax nivalis, 301
 nivalis nivalis, 152
 Plover, Black-bellied, 156
 Golden, 305-312
 Mountain, 160
 Pluvialis dominica, 305-312
 Pochard, Common, 183
 Podilymbus podiceps, 170
 Polioptila, 98
 albiloris albiloris, 206
 caerulea, 94, 206, 272
 caerulea deppei, 95
 Poor-will, 68-74, 237, 269, 274
 Porphyrio poliocephalus, 184
 Porzana bicolor, 184
 carolina, 184
 Ptilogonys cinereus cinereus, 95
 Progne subis, 225-249
 Psaltriparus minimus, 271
 minimus iulus, 93
 minimus melanotis, 93
 Pseudonestor xanthophrys, 221-222
 Psilorhinus mexicanus, 137
 Psittirostra bailleui, 221-222
 flaviceps, 222
 kona, 222
 palmeri, 222
 psittacea, 221-222

- Ptarmigan, Rock, 299
 Pteroglossus torquatus, 202
 torquatus torquatus, 204
 Puffbird, White-necked, 204
 Puffin, Tufted, 41, 301
 Pulich, Warren M., and Gullion, Gordon W.,
 black-and-white warbler, dickcissel, and
 tree sparrow in Nevada, 215
 Pulich, Warren M., and Phillips, Allan R., a pos-
 sible desert flight line of the American
 redstart, 99
 Pulsatrix perspicillata saturata, 203
 Pygochelidon cyanoleuca, 134
 Pyrocephalus rubinus, 215
 rubinus flammeus, 216
 rubinus mexicanus, 92
- Q**
- Quail, Barred, 91
 Bob-white, 192, 250
 California, 271
- R**
- Rail, Clapper, 184
 Gray-breasted, 184
 King, 184
 Rallus elegans, 184
 longirostris, 184
 striatus, 184
 Ramphocelus carbo, 22
 passerinii, 136
 Raven, 43, 93
 White-necked, 26-32
 Razorbill, 130
 Recurvirostra americana, 45, 158, 279
 Redhead, 34-37, 179
 Redpoll, Common, 43-44
 Hoary, 43
 Redstart, American, 99-100, 279
 Daurian, 154
 Painted, 95, 318
 Red-bellied, 95
 Reed-hen, Blue, 184
 Regulus calendula, 46, 270, 271, 272
 calendula cineraceus, 156
 regulus japonensis, 154
 satrapa, 271
 Rett, Egmont Z., additional notes on the birds
 of Santa Rosa Island, 156
 Richards, Lawrence P., and Baldwin, Paul H.,
 recent records of some Hawaiian honey-
 creepers, 221
 Richmond, Stanley M., the attraction of purple
 martins to an urban location in western
 Oregon, 225
 Richmondia cardinalis, 220
 Ricketts, Edward F., and Calvin, Jack, "Between
 Pacific Tides," a review by F. A. Pitelka,
 164
 Rissa tridactyla, 300
- Road-runner, California, 215
 Lesser, 91
 Roberts, Frances, and Harrison, Ed, long-eared
 owl at its nest, a photograph, 43
 Robin, 46, 94, 270, 271
 Gray, 206
 Japanese, 154
 White-throated, 94, 206
 Rubythroat, 42
- S**
- Salt, George William, an ecological analysis of
 three California avifaunas, 258
 Saltator atriceps, 208
 Saltator, Black-headed, 208
 Sanderling, 156
 Sandpiper, Least, 201
 Red-backed, 305-312
 Rock, 300
 Spotted, 156, 270
 Sapsucker, Yellow-bellied, 219
 Saxicola torquata stejnegeri, 153
 Sayornis nigricans, 176, 218
 saya saya, 316
 Scardafella inca, 91, 160, 202
 Scaup, Greater, 300
 Seedeater, Collared, 96
 Variable, 135
 Seiurus aurocapillus, 130
 motacilla, 207
 Selander, Robert K., notes on the red crossbills
 of the Uinta and Wasatch Mountains,
 Utah, 158
 Selander, Robert K., and Alvarez del Toro, Mi-
 guel, the breeding distribution of Chor-
 deiles minor in Mexico, 160
 Selasphorus rufus, 155-156, 269
 sasin, 155, 156
 Semnornis ramphastinus, 220
 Setophaga picta, 318
 picta picta, 95
 rutililla, 99-100, 279
 Shoveller, 33-37
 Sialia currucoides, 270
 mexicana, 230, 271, 272
 sialis, 143
 sialis fulva, 94
 sialis guatemalae, 206
 Sibley, Charles G., Forster terns breeding on San
 Francisco Bay, California, 278
 Sicalis, 20
 Siskin, Black-headed, 96
 Sitta canadensis, 270
 carolinensis, 94, 270
 carolinensis kinneari, 94
 carolinensis umbrosa, 94
 pygmaea, 270
 Skutch, Alexander F., life history of the southern
 house wren, 121
 Skylark, Japanese, 41
 Snipe, Latham, 40

- Solitaire, Brown-backed, 94
 Townsend, 270
 Somateria mollissima, 33, 301, 302
 Sora, 184
 Sparrow, Chipping, 97, 215, 270-272
 English, 117-120, 161, 226, 230, 231, 241, 248, 266
 Fox, 26, 154-155, 216, 272, 316
 Gambel, 3-16
 Golden-crowned, 272
 Grasshopper, 209
 Harris, 46, 216
 Leconte, 216, 277
 Lincoln, 209
 Marsh, 277
 Rufous-collared, 209
 Rufous-crowned, 97, 156
 Russet-tailed, 96, 209
 Rusty, 96-97
 Rusty-crowned, 96
 Sage, 277
 Savannah, 156, 209, 277
 Song, 51, 63, 122, 151, 154-155, 157, 270, 272
 Swamp, 46, 318
 Tree, 215, 216, 277
 Vesper, 122
 White-crowned, 3-16, 160, 270, 272, 277, 313-314
 White-throated, 46, 160, 187-192, 216, 305, 318
 Speotyto cunicularia, 275
 Spinetail, Streaked, 20
 Spinus lawrencei, 272
 notatus griseus, 96
 psaltria, 272
 psaltria colombianus, 209
 psaltria psaltria, 96
 tristis, 151, 157, 238
 Spiza americana, 215
 Spizella arborea ochracea, 215
 monticola ochracea, 216
 passerina, 270-272
 passerina mexicana, 97
 Sporophila aurita, 135
 torqueola torqueola, 96
 Starling, 183, 219
 European, 49-67
 Steganopus tricolor, 158
 Stellula calliope, 270
 Stercorarius parasiticus, 299
 Sterna forsteri, 278-279
 paradisaea, 300
 Stilt, Black-necked, 202
 Stonechat, Japanese, 153
 Straw, Richard M., additional notes on Korean birds, 153
 Sturnus vulgaris, 49-67, 219
 Sutton, George Miksch, the brown-crested flycatcher in the Florida keys, 274
 Swallow, Blue-and-White, 134
 Cliff, 20, 93, 241, 271
 European Barn, 140
 House, 153
 Mangrove, 205
 Tree, 230-233, 238, 247, 248
 Violet-green, 93, 218, 230, 231, 247, 270
 Swan, Black, 178, 179
 Mute, 178, 179
 Swift, Large White-rumped, 41
 White-throated, 270
 Synthliboramphus antiquus, 153
- T**
- Tachycineta thalassina, 93, 218, 230, 270
 Takahe, 184
 Talmadge, Robert R., rufous hummingbird nesting in California, 155; range extensions in northern California, 315
 Tanager, Blue, 135
 Golden-masked, 136
 Hepatic, 95
 Song, 136
 Summer, 208
 Western, 208, 270-272
 White-winged, 208
 Yellow-winged, 208
 Tanagra, 98
 affinis affinis, 208
 musica elegantissima, 95
 musica rileyi, 95
 nigro-cincta, 136
 Tangavius aeneus, 218
 aeneus aeneus, 207
 Tashian, Richard E., the birds of southeastern Guatemala, 198
 Tattler, Wandering, 300
 Teal, Blue-winged, 152-153, 179, 201
 Cinnamon, 152-153
 Eurasian, 153
 Green-winged, 201, 300
 Tern, Arctic, 300
 Caspian, 115
 Forster, 278-279
 Thatcher, Vernon E., the cowbird in western Oregon, 318
 Thornburg, Florence, another hibernating poorwill, 274
 Thornburgh, Margaret M., painted redstart near San Diego, California, 318
 Thrasher, Brown, 157, 216
 Sage, 156
 Thraupis abbas, 202, 208
 episcopus, 135
 Thrush, Hermit, 272
 Swainson, 206, 271, 272
 Thryomanes bewickii, 94, 123, 254-257, 272
 bewickii murinus, 94
 bewickii percus, 94
 Thryothorus felix felix, 94
 ludovicianus, 126
 modestus, 141
 nigricapillus, 126, 141

Tilmatura dupontii dupontii, 91
 Tinbergen, N., the study of instinct, a review by
 F. A. Pitelka, 163
 Tit, Great, 143
 Varied, 153
 Titmouse, Bridled, 93
 Plain, 271
 Tityra inquisitor, 131
 semifasciata griseiceps, 92
 semifasciata personata, 204
 Tityra, Inquisitive, 131
 Masked, 92, 204
 Todiostrom cinereum finitimum, 205
 Tolmomyias sulphurescens cinereiceps, 205
 Totanus flavipes, 300
 Towhee, Brown, 96, 272, 318
 Green-tailed, 270
 Spotted, 270-272
 Toxostoma redivivum, 272
 rufum, 157, 216
 Trachylaemus purpuratus, 220
 Tripsurus chrysauchen, 134
 Troglodytes, 126, 144-146
 aëdon, 121, 230, 145, 265, 271
 musculus, 121-149
 musculus clarus, 123
 rufociliatus, 126
 troglodytes, 126, 145
 Trogon collaris puella, 203
 elegans, 202, 205, 206
 elegans ambiguus, 91
 elegans elegans, 203
 violaceus braccatus, 203
 Trogon, Collared, 203
 Coppery-tailed, 91, 203
 Violaceous, 203
 Turdus assimilis, 94
 assimilis assimilis, 94
 assimilis renominatus, 94
 assimilis rubicundus, 206
 grayi, 202, 203, 206
 grayi grayi, 206
 grayi umbrinus, 206
 migratorius, 94, 270, 271
 migratorius permixtus, 94
 migratorius propinquus, 94
 rufopalliatus, 47
 Tyrannus crassirostris crassirostris, 92, 97
 melancholicus chloronatus, 204
 tyrannus, 99
 verticalis, 204
 vociferans, 92
 Tyrant, Black-fronted Ground, 20
 Cinereus Ground, 20
 Tyto alba, 69

U

Ula-ai-hawane, 222
 Upucerthia, 20
 Uria aalge, 31, 130

V

Vaurie, Charles, summer records and observations on the island of Tiburón, Sonora, Mexico, 217
 Veery, 99
 Vermivora celata, 270, 272
 peregrina, 207
 Vireo bellii, 272
 flavifrons, 206
 gilvus, 95, 270-272
 gilvus connectens, 95
 gilvus eleanorae, 95
 gilvus gilvus, 206
 gilvus swainsoni, 156
 huttoni, 221, 272
 olivaceus, 99
 solitarius, 270-272
 solitarius repetens, 95
 solitarius solitarius, 206
 Vireo, Bell, 221, 272
 Hutton, 221, 272
 Red-eyed, 99
 Solitary, 95, 206, 270-272
 Warbling, 95, 156, 205, 206, 270-272
 White-eyed, 221
 Yellow-throated, 206
 Volatinia jacarina, 96
 jacarina atronitens, 96
 jacarina diluta, 96
 jacarina splendens, 209
 Vulture, Black, 90, 201, 218
 Turkey, 45, 90, 201, 218

W

Wagtail, Pied, 42
 Warbler, Audubon, 270-272
 Black and White, 151, 205, 207, 215
 Black-poll, 278
 Black-throated Gray, 271, 272
 Black-throated Green, 207
 Chestnut-sided, 217
 Grace, 95
 Gray's Grasshopper, 42
 Hermit, 270, 272
 Kirtland, 250
 MacGillivray, 207
 Magnolia, 207
 Myrtle, 156, 207
 Orange-crowned, 270, 272, 279
 Palm, 162, 276
 Parula, 216
 Pileolated, 207, 270, 272, 279
 Rufous-capped, 95
 Tennessee, 205, 207
 Tolmie, 271
 Townsend, 272
 Von Schrenck Reed, 42
 Yellow, 207, 271, 272
 Water-Cock, 184
 Water-Hen, 184
 White-breasted, 184

- Water-thrush, Louisiana, 207
 Waxwing, Bohemian, 45, 46
 Cedar, 46, 143, 206
 Weka, 184
 Whip-poor-will, 91
 Stephens, 281-286
 Willet, 45, 218
 Williams, George G., Wilson phalaropes as com-
 mensals, 158
 Wilsonia pusilla, 270, 272
 pusilla pileolata, 207
 Wolfson, Albert, gonadal and fat response to a
 5:1 ratio of light to darkness in the white-
 throated sparrow, 187; correction of data
 reported on white-throated sparrows, 318
 Woodhen, Black, 184
 Woodhewer, Streaked-headed, 204
 White-striped, 92
 Woodpecker, Acorn, 91, 204, 270, 271
 Golden-fronted, 204, 205
 Golden-naped, 134
 Golden-olive, 204
 Hairy, 133, 269, 270
 Ladder-backed, 91
 Lewis, 45
 Lineated, 204
 Pygmy, 153
 Red-crowned, 133
 White-headed, 270
 Wren, Banded Cactus, 134, 137
 Bewick, 94, 123, 254-257, 272
 Black-billed, 220
 Canyon, 94, 271
 Carolina, 126, 130
 Chinchirigüi, 141
 European, 126, 144, 145
 Happy, 94
 Highland Wood, 126
 House, 121, 230, 248, 265, 271
 Lowland Wood, 126
 North American House, 126, 143, 144-147
 Musician, 220
 Riverside Bay, 126, 141
 Rufous-browed, 126
 Rufous-naped Cactus, 206, 208
 Spotted Cactus, 94
 Southern House, 121-149
 White-browed Wood, 206, 207
 Wren-tit, 271
- Y
- Yellow-legs, Lesser, 300
 Yellowthroat, Common, 207
- Z
- Zenaida asiatica, 202, 218
 Zenaidura macroura, 269, 271
 macroura carolinensis, 202
 Zonotrichia albicollis, 46, 160, 187-192, 216, 305
 capensis septentrionalis, 209
 coronata, 272
 leucophrys, 3-16, 26, 270, 272
 leucophrys gambelii, 3-16, 313, 314
 leucophrys nuttalli, 15
 leucophrys pugetensis, 3, 5
 querula, 46, 216