

INDEX TO VOLUME XXIX

A

- Abbott, Clinton G., Sabine gull off San Diego County, 73; American dipper established as a breeding species in San Diego county, 117; notes on the nesting of the band-tailed pigeon, 121; black-and-white warbler again in San Diego county, 128; mid-winter nesting in southern California, 160; western bluebird nesting in the city of San Diego, 165; elegant terns at San Diego, 171; another man-o'-war-bird wanders into California waters, 272
- Acanthis linaria linaria*, 114
- Accipiter*, 207
 cooperi, 198
 velox, 59
- Actitis macularia*, 66
- Æchmorhynchus parvirostris*, 226
- Agelaius phoeniceus*, 198
 phoeniceus nevadensis, 198
 phoeniceus sonoriensis, 157, 198
- Ajaia ajaja*, 253
- Alexander, Annie, M., a further chronicle of the passenger pigeon and of methods employed in hunting it, 273
- Ammodramus halophilus*, 243
- Amphispiza bilineata deserticola*, 70
- Anas platyrhynchos*, 197
- Anhinga anhinga*, 26
- Ani, Black*, 228
- Anthus rubescens*, 243
- Antrostomus carolinensis*, 26
 vociferus, 26, 27
- Aphelocoma californica*, 234
 woodhousei, 198
- Aphriza virgata*, 3
- Aquila*, 150
 chrysaetos, 59
- Archilochus alexandri*, 198
- Ardea herodias*, 243
 herodias hyperonca, 40, 69
 herodias sanctilucae, 40, 156
 herodias treganzai, 40, 197
- Arenaria interpres*, 70
 interpres morinella, 240
 melanocephala, 70
- Asio*, 150
 flammeus, 156, 200
- Astragalinus psaltria hesperophilus*, 160, 199
- Astur*, 170
 atricapillus atricapillus, 113
- Asyndesmus lewisi*, 124, 165, 198
- Atthis heloisa heloisa*, 119
 heloisa morcomi, 118
 morcomi, 118

Auklet, Cassin, 68, 188, 206*Crested*, 232

- Averill, C. K.*, emargination of the long primaries in relation to power of flight and migration, 17
- Avocet*, 197, 253

B

- Balanophyra formicivora bairdi*, 233
- Bancroft, Griffing*, breeding birds of Scammons Lagoon, Lower California, 29; notes on the breeding coastal and insular birds of central Lower California, 188
- Bangs, Outram*, *Atthis heloisa morcomi Ridgway* not a valid subspecies, 118
- Bickford, E. L.*, western robin nesting at Napa, 163
- Bishop, Louis B.*, the meeting place of the California and white-rumped shrikes, 78; the plumage of certain gulls, 201; the status of the Point Barrow gull, 204
- Bittern*, 147
 American, 242
 Least, 156
- Blackbird*, 74
 Brewer, 65, 140, 199
 Red-winged, 18, 65, 142, 147, 198
 Rusty, 227
 Sonoran Red-winged, 157
- Bluebird*, 147, 236
 Chestnut-backed, 200
 Mountain, 64, 65, 66, 108, 154, 200
 Western, 165
- Bob-white*, 147
- Bombycilla cedrorum*, 59
 garrula pallidiceps, 59
- Booby*, 192, 232
 Blue-footed, 155, 193
 Brewster, 155, 193
- Botaurus lentiginosus*, 242
- Brachyramphus hypoleucus*, 68
- Brant, Black*, 58, 170, 243
 Black Sea, 69, 242
- Branta canadensis hutchinsi*, 170
 nigricans, 58, 69, 170, 242
- Brooks, Allan*, notes on Swarth's report on a collection of birds and mammals from the Atlin region, 112; breeding of immature hawks, 245; can hawks prevent mouse plagues, 249
- Bubo*, 159, 170
 virginianus, 26, 114, 169
 virginianus pacificus, 26, 65
 virginianus pallescens, 26, 198
 virginianus subarcticus, 114

- Bufflehead, 240
 Bunting, Indigo, 147, 159
 Lark, 203
 Painted, 147
 Bush-tit, 74
 Buteo, 170, 245, 249
 abbreviatus, 156
 borealis alasensis, 114
 borealis calurus, 70, 114, 198
 borealis harlani, 114
 borealis krideri, 114
 Butorides virescens, 26
 virescens frazari, 194, 241
- C
- Calamospiza melanocorys, 203
 Calcarius ornatus, 159
 Calidris alba, 58, 69, 156, 242
 Calypte anna, 160, 171
 Canvas-back, 197
 Caprimulgus, 27
 Cardinal, 101, 146, 245
 Cardinalis cardinalis, 245
 cardinalis cardinalis, 101
 cardinalis superbus, 245
 Carpodacus cassini, 65, 158
 mexicanus frontalis, 199
 Casmerodius albus egretta, 26
 egretta, 194, 241
 Catbird, 101, 147, 227
 Cathartista, 150
 Cathartes aura septentrionalis, 153, 243
 Cathartornis, 150
 Catherpes mexicanus conspersus, 157, 199
 Catoptrophorus semipalmatus inornatus, 69, 240
 Celeus castaneus, 166
 Centrocerus urophasianus, 198
 Centurus blakei, 227
 uropygialis, 162
 uropygialis brewsteri, 168
 uropygialis cardonensis, 168
 uropygialis uropygialis, 168
 Certhia familiaris occidentalis, 60
 familiaris zelotes, 65
 Ceryle alcyon, 198
 alcyon caurina, 70
 Charadrius nivosus, 49, 69, 194
 nivosus nivosus, 242
 semipalmatus, 69
 Charitonetta albeola, 240
 Chat, Long-tailed, 199
 Chickadee, Mountain, 63, 108
 Plumbeous, 102, 146
 Short-tailed Mountain, 65
 Chlidonias nigra surinamensis, 140, 155
 Chordeiles acutipennis, 28
 acutipennis texensis, 26
 virginianus hesperis, 64, 65, 66
 Chuck-will's-widow, 27
 Ciccaba virgata virgata, 26
- Cinclus mexicanus unicolor, 66, 117, 199
 Circus hudsonius, 70
 Clabaugh, Ernest D., curious perching behavior of English sparrow, 81
 Clangula hyemalis, 112
 Coccyzus, 18
 americanus occidentalis, 157
 ferrugineus, 230
 Cochlearius, 27
 zeledoni, 26
 Colaptes auratus, 121
 auratus borealis, 59
 cafer, 59, 121
 cafer collaris, 65, 158, 198, 200
 Columba fasciata fasciata, 121, 124, 153
 Colymbus dominicus brachypterus, 155
 nigricollis californicus, 68, 243
 Condor, California, 129
 Conopoderas percernis, 228
 rava, 226
 Cooper Ornithological Club, annual meeting, 53, 128; governors' meeting, 212; minutes of monthly meetings, 85, 130, 174, 209, 250, 277
 Coot, 197, 253
 American, 156
 Cormorant, 273
 Baird, 193
 Brandt, 69, 163, 193
 Farallon, 40, 46, 69, 163, 193
 Farallon Double-crested, 206, 243
 Florida, 273
 Pelagic, 59
 Short-winged, 229
 Corvus brachyrhynchos hesperis, 198
 corax, 54
 corax clarionensis, 70
 corax sinuatus, 195, 206, 243
 Cowbird, 147
 Dwarf, 198, 271
 Crane, Sandhill, 118
 Creagrus furcatus, 231
 Creeper, Sierra, 65
 Crossbill, 112
 Bendire Red, 124
 Mexican, 153
 Mexican Red, 125
 Sierra, 82
 Crotophaga ani, 228
 Crow, Western, 198
 Cryptoglaux acadica acadica, 161
 Cuckoo, California, 157
 Yellow-billed, 147
 Curlew, Hudsonian, 69, 242
 Long-billed, 69, 242
 Cyanocephalus cyanocephalus, 198
 Cyanocitta cristata bromia, 80
 cristata cristata, 80
 stelleri diademata, 80
 stelleri frontalis, 65
 Cypseloides niger borealis, 89

D

- Dafila acuta tzitzihoa*, 115, 243
De Groot, Dudley Sargent, the California clapper rail: its nesting habits, enemies and habitat, 259
Dendragapus obscurus, 197
 obscurus flemingi, 113, 169
 obscurus richardsoni, 113
 obscurus sierrae, 65
Dendroica, 241
 aestiva sonorana, 199
 auduboni, 19, 64, 115
 auduboni auduboni, 65, 70, 199
 bryanti castaneiceps, 195, 241
 cerulea, 126
 occidentalis, 64, 65
Dichromana rufescens dickeyi, 42, 241
Dickcissel, 147, 157
Dipper, 19
 American, 66, 117
Dixon, Joseph, the surf-bird's secret, 3; contribution to the life-history of the Alaska willow ptarmigan, 213; black bear tries to gnaw into a woodpecker's nest, 271
Dove, 231
 Mourning, 123, 147
 Western Mourning, 198
 White-winged, 153
Dowitcher, Long-billed, 242
Dryobates scalaris cactophilus, 198
 villosus orius, 65
Duck, American Golden-eye, 112
 American Pintail, 243
 Bufflehead, 240
 Canvas-back, 197, 243
 Fulvous Tree-, 253
 Greater Scaup, 112
 Green-winged Teal, 197
 Lesser Scaup, 112, 243
 Mallard, 253
 Old-squaw, 112
 Pintail, 115, 253
 Redhead, 197, 253
 Ruddy, 253
 Shoveller, 253
 Steamer, 228

E

- Eagle*, 17
 Golden, 172, 198, 263, 269
 Southern Bald, 153
Ectopistes migratorius, 273
Egret, American, 194, 241
 Brewster, 44, 46
 Brewster Snowy, 40, 42, 46
 Lower California Reddish, 42, 43, 57, 241
 Snowy, 29
Egretta thula brewsteri, 42, 241
 thula thula, 42

Elanus, 150

- Empidonax*, 66
 difficilis, 20
 difficilis difficilis, 153
 trailli, 198
 wrighti, 198

- Endomychura craveri*, 188
 hypoleuca, 188

- Ereunetes mauri*, 69, 242
 pusillus, 58

- Euphagus carolinus*, 59
 cyancephalus, 199

- Eupoda montana*, 69

- Euthlypis lachrymosa tephra*, 126

F

- Falco*, 150

- Falco fulvigularis*, 150, 151
 fusco-caeruleus, 151
 islandus, 152
 mexicanus, 82, 118, 150, 151, 152, 194
 peregrinus, 150, 151, 152
 peregrinus anatum, 70, 82, 194, 206, 242
 rusticolus, 158
 sparverius, 70, 150
 sparverius phalaena, 198
 sparverius sparverius, 59
 swarthi, 151, 152

- Falcon*, 17, 245

- Aplomado*, 150
Peregrine, 246
Prairie, 10, 82, 118, 150, 194, 263, 268
Swarth, 152

- Finch, Cassin Purple*, 65, 153
Geospiza, 229
House, 74, 199, 237, 238
Purple, 74

- Flicker, Red-shafted*, 65, 147, 158, 198, 200
Yellow-shafted, 59

- Flycatcher*, 66, 236

- Acadian*, 147
Arizona Sulphur-bellied, 126
Ash-throated, 159
Colombian Royal, 126
Crested, 147
Derby, 73
Olive-sided, 65, 120, 121, 198
Scissor-tailed, 147

- Trail*, 198
Vermilion, 77, 196, 198
Western, 20, 153
Wright, 198

- Foster, G. L.*, a note on the dietary habits of the barn owl, 246

- Fregata aquila*, 272

- minor palmerstoni*, 193, 242

- Fringillidae*, 229

- Fulica americana*, 59, 156, 197

- Fulmar*, 200

- Fulmarus glacialis*, 206

G

- Gallinago delicata, 79, 163, 197
 Gallinula chloropus cachinnans, 156
 Gallinule, Florida, 156
 Gander, Frank F., the fly-catching habits of the Anna hummingbird, 171; the cardinal in San Diego, 245; western wood pewees and dwarf cowbirds nesting in San Diego, 271
 Gannet, 232
 Gavia, 68
 pacifica, 155, 207
 Gelochelidon nilotica aranea, 253
 Geococcyx californianus, 196, 198, 273
 Geothlypis trichas occidentalis, 199
 Geranoëtus, 150
 Gignoux, Claude, shrike attacking snake, 75; western mockingbird in Contra Costa county, 81; Audubon warbler eating grapes, 115
 Glaucidium brasiliandum ridgwayi, 26
 Glaucionetta clangula americana, 112
 Gnatcatcher, Blue-gray, 147
 Goatsucker, Giant, 25, 27
 Godwit, Marbled, 69, 242
 Golden-eye, American, 112
 Goldfinch, 239
 Green-backed, 160, 199
 Goose, Barred Magellan, 229
 Hutchins, 170
 Goshawk, 169, 245
 Eastern, 113
 Grackle, 140
 Bronzed, 147
 Grebe, American Eared, 68, 243
 Eared, 253
 Mexican, 155
 Pied-billed, 155
 Grinnell, J., a proposed summation of Lower California ornithology, 76; designation of a Pacific coast subspecies of chipping sparrow, 81; notice of Hopkinson's records of birds bred in captivity, 85; notice of Thomson's problems of bird-migration, 85; notice of Walters' wild birds in city parks, 85; a new race of crissal thrasher from northwestern Lower California, 127; the rock wren of San Nicolas Island not a recognizable subspecies, 165; a new race of Gila woodpecker from Lower California, 168; review of Hoffmann's birds of the Pacific states, 208; review of Henderson's practical value of birds, 276
 Grinnell, J., and Lamb, C. C., new bird records from Lower California, 124
 Grinnell, J., and Shaw, Tsen-Hwang, review of Kuroda's birds of Fujiyama, 173

- Grosbeak, Blue, 147
 California Evening, 65
 California Pine, 65
 Pine, 63, 112, 207

- Grouse, Dusky, 197
 Fleming, 113, 169
 Ruffed, 245
 Sierra, 65
 Grus mexicana, 118
 Guara alba, 156, 194, 242
 Gull, 232

- Bonaparte, 242
 California, 163, 240
 Fork-tailed, 231
 Franklin, 140
 Glaucous-winged, 68, 240
 Heermann, 68, 163, 180, 205
 Point Barrow, 204
 Ring-billed, 68
 Sabine, 73
 Short-billed, 214, 216, 219, 221
 Silver, 183
 Southern Western, 189, 206, 243
 Western, 30, 31, 67, 68, 163, 206
 Yellow-legged, 189

- Gymnogyps, 150
 Gyrfalcon, 223
 Gray, 158
 White, 150

H

- Haematopus bachmani, 51, 52, 70, 80, 194
 frazari, 52
 palliatus frazari, 70, 194, 206, 243
 Haliaëtus leucocephalus leucocephalus, 153
 Halocyptena microsoma, 72, 190
 Hall, E. Raymond, a commensal relation of the California quail with the California ground squirrel, 271; the barn owl in its relation to the rodent population at Berkeley, California, 274
 Hanna, Wilson C., most southerly breeding record of Wilson snipe in California, 163
 Hang-nest, 228
 Harris, Harry, John Ridgway's drawings for the Bendire plates, 177
 Hawk versus mouse, 172, 249, 250
 Hawk, 207
 American Duck, 242
 American Rough-leg, 114
 Black Pigeon, 72
 Broad-winged, 48
 California Squirrel, 249
 Cooper, 198, 245, 246, 263, 269
 Desert Sparrow, 198
 Duck, 70, 82, 150, 194, 206, 216, 263, 268, 269
 Ferruginous Rough-leg, 249, 268
 Fish, 17

Hawk [continued]

Harlan, 114, 170
 Marsh, 70, 249, 265
 Pigeon, 246
 Red-bellied, 249
 Red-shouldered, 147
 Red-tailed, 65, 147, 234, 263, 265, 269
 Sharp-shinned, 245, 246
 Sparrow, 10, 65, 70, 147, 151, 249, 265
 Swainson, 114
 Western Red-tailed, 70, 114, 198
 Zone-tailed, 156

Hen, Sage, 198

Henderson, Junius, the blue jay at Boulder, Colorado, 80

Herodiones, 193

Heron, Bancroft Yellow-crowned Night, 167, 241

Black-crowned Night, 45, 46, 197, 241, 265

Brewster Snowy, 241

California Blue, 44, 69

Espirito Santo, 40

Frazar Green, 194, 241, 243

Great Blue, 40, 193, 194, 243, 265

Louisiana, 42, 44, 46, 47, 241, 242

Night, 26, 42

Pallid Great Blue, 197

San Lucas Blue, 156

Yellow-crowned Night, 44, 46, 47, 167

Herpetotheres, 150

Hesperiphona vespertina californica, 65

Heterocnus cabanisi, 26
Heteroscelus incanus, 69, 156
Himantopus mexicanus, 82
Hirundo, 104

erythrogaster, 199

Hoffmann, Ralph, nesting of the sandhill crane in Modoc county, 118; pectoral sandpiper in Washington in spring, 128; the Gila woodpecker at Holtville, Imperial county, California, 162; the Lewis woodpecker apparently nesting in Gustine, Merced county, California, 165; Cassiar junco wintering in southern Santa Barbara county, California, 171.

Howell, A. Brazier, poor-wills attracted by arc light, 76

Huey, Laurence M., additional bird records from Lower California, 153; a Pacific coast race of the yellow-crowned night heron, 167; northward migration of Pacific loons, 202; northernmost breeding station of the Heermann gull on the Pacific Ocean, and other notes from San Roque Island, Lower California, 205; the bird life of San Ignacio and Pond lagoons on the western coast of Lower California, 239

Hummingbird, Allen, 203

Anna, 65, 160, 171
 Black-shinned, 198
 Calliope, 19, 63, 66, 124
 Rufous, 71, 72, 276

Hydranassa, 44, 45, 47

tricolor ruficollis, 46, 241

Hydroprogne caspia imperator, 155, 240

Hylocichla fuscescens salicicola, 20

guttata auduboni, 20

guttata sequoiensis, 64, 65

ustulata, 66

ustulata ustulata, 154

I

Ibis, White, 156, 194, 242

White-faced Glossy, 253

Ibycter, 150

Icteria virens longicauda, 199

Icterus, 18

bullocki, 199

sclateri, 75

sclateri alticola, 75

sclateri pustuloides, 76

sclateri sclateri, 76

Iridoprocne bicolor, 63, 66

Ixobrychus exilis hesperis, 156

Ixoreus naevius, 60, 204

naevius meruloides, 19, 154

J

Jacksnipe, 79

Jaeger, Parasitic, 243

Jay, Blue, 80, 103, 147

Blue-fronted, 65

California, 234, 235

Long-crested, 80

Pinyon, 159, 198

Woodhouse, 198

Junco, 138, 146, 237

Cassiar, 171

Pink-sided, 199

Shufeldt, 199, 272

Sierra, 64, 65, 66, 116, 162, 171

Junco hyemalis connectens, 171, 199

hyemalis mearnsi, 199

oreganus thurberi, 64, 65, 66, 116, 171

Junco-Zonotrichia, 226

K

Killdeer, 69, 197, 203, 242, 253

Kingbird, 147

Arkansas, 198, 203

Eastern, 77

Western, 82

Kingfisher, Belted, 73, 198

Texas, 80

Western Belted, 70, 243

Kinglet, Golden-crowned, 19, 147

Ruby-crowned, 20, 64, 147, 200

Western Golden-crowned, 82

Western Ruby-crowned, 65

- Kite, White-tailed, 265
 Kittiwake, Pacific, 73
- L
- Lagopus, 170
dixoni, 113
lagopus alascensis, 213
leucurus, 204
leucurus altipetens, 204
rupestris, 113
- Lamb, Chester C., the birds of Natividad Island, Lower California, 67; notes on some birds of the southern extremity of Lower California, 155
- Lamb, C. C., and Grinnell, J., new bird records from Lower California, 124
- Lanius borealis, 60, 205
ludovicianus excubitorides, 75, 78, 199
ludovicianus gambeli, 78
ludovicianus nelsoni, 240
mollis, 205
- Lark, Desert Horned, 124, 198
 Horned, 206, 240
 Island Horned, 70
 Lower California Horned, 70
- Larus argentatus, 202
barrovianus, 204
californicus, 202, 240
delawarensis, 68
glaucescens, 68, 201, 240
heermanni, 34, 68, 163, 189, 205
hutchinsi, 201
hyperboreus, 201, 204
novae-hollandiae, 183
occidentalis, 58, 68
occidentalis livens, 30, 189
occidentalis wymani, 30, 189, 206, 243
philadelphicus, 242
- Leach, Frank A., feed-table observations from Diablo, 74; strange features in bird habits, 233
- Leopold, Aldo, the whistling note of the Wilson snipe, 79
- Leucosticte tephrocotis littoralis, 59
- Leucosticte, Gray-crowned, 275
- Limnodromus griseus scolopaceus, 242
- Limosa fedoa, 69, 242
- Lincoln, Frederick C., a note on the longevity of the pintail, 115; status of the yellow-legs in Arizona, 164
- Longspur, Chestnut-collared, 159
- Loon, 68
 Pacific, 155, 202
- Lophodytes cucullatus, 59
- Lophortyx californica, 164
californica californica, 271
gambeli, 196, 197
- Loxia curvirostra bendirei, 82, 124
curvirostra stricklandi, 125, 153
- M
- Macaw, Scarlet, 228
- Magpie, 198, 249
 American, 244
 Yellow-billed, 11
- Mailliard, Joseph, banding of Gambel sparrows in the fall of 1926, 98; additional breeding records of the spotted and saw-whet owls in California, 160
- Mallard, 197, 253
 Man-o'-war-bird, 272
 Pacific, 193, 242
- Marila affinis, 112
americana, 197
marila, 112
valisinaria, 197
- Martin, Western, 157, 163
- Mattingley, Arthur H. E., cormorants in relation to fisheries, 182
- McCabe, T. T., bird-banding near Barkerville, British Columbia, 206
- McCabe, Thomas T., and McCabe, Elinor Bolles, analysis of sexes in a junco migration, 272
- Meadowlark, Western, 147, 157, 160, 199
- Megaceryle aleyon caurina, 243
- Melanitta perspicillata, 243
- Melopelia asiatica trudeaui, 153
- Melospiza lincolni, 157
lincolni lincolni, 66
melodia fallax, 199
melodia santaecrucis, 272
- Merganser, Red-breasted, 69, 240, 243
- Mergus serrator, 69, 240
- Michael, Charles W., black swifts nesting in Yosemite national park, 89; pygmy owl: the little demon, 161
- Michener, Harold, traps for banders, 116; notes from the three Barkerville banding stations, 275
- Microcarbo melanoleucus, 182
- Micromonacha lanceolata austinsmithi, 73
- Micropallas whitneyi sanfordi, 157
- Miller, Loye, the painted redstart as a California bird, 77; the falcons of the McKittrick Pleistocene, 150
- Mills, Dr. H. W., notice of death of, 208
- Mimocichla rubripes, 228
- Mimus orpheus, 227
polyglottos leucopterus, 81, 82, 196, 199, 240
- Mniotilla varia, 128, 157
- Mockingbird, 227, 273
 Western, 81, 82, 103, 147, 196, 199, 240
- Molothrus ater obscurus, 198, 271
- Mouse versus hawk, 172, 249, 250
- Murre, 232
- Murrelet, Ancient, 163
Craveri, 158
Xantus, 67, 68, 188
- Muscivora, 18
- Myadestes townsendi, 65

- Myiarchus, 18
 Myiarchus cinerascens, 159
 Myiochanes richardsoni, 64, 271
 richardsoni richardsoni, 65
 Myiodynastes luteiventris luteiventris, 126
 luteiventris swarthi, 126
- N
- Nannus hiemalis pacificus, 20
 Neogyps, 150
 Neophrontops, 150
 Nesotriccus ridgwayi, 230
 Nettion carolinense, 197
 Nice, Margaret Morse, experiences with cardinals at a feeding station in Oklahoma, 101; seasonal fluctuations in bird life in central Oklahoma, 144
 Nighthawk, 17
 Pacific, 64, 65, 66
 Texas, 28
 Numenius americanus, 69, 242
 hudsonicus, 69
 Nutcracker, Clark, 108
 Nuthatch, Red-breasted, 65
 Slender-billed, 65
 Nuttallornis borealis, 65, 120, 198
 Nyctanassa, 47
 violacea, 26
 violacea bancrofti, 167, 241
 violacea violacea, 167
 Nyctebius, 27
 griseus, 25
 Nycticorax nycticorax naevius, 26, 197, 241
 Nyctidromus albicollis, 26, 27
 Nyroca affinis, 243
 valisineria, 243
- O
- Oceanodroma melania, 190
 socorroensis, 191
 Oedicnemus, 27
 bistriatus, 25
 Oil, menace to water birds, 128
 Old-squaw, 112
 Onychorhynchus mexicanus fraterculus, 126
 Oporornis tolmiei, 199
 Oreortyx picta plumifera, 64, 65
 Oreospiza chlorura, 64, 65, 66, 199
 Oriole, Baltimore, 147
 Bullock, 199
 Orchard, 147
 Oroscoptes montanus, 199
 Ortega, James L., a hybrid flicker, 121
 Osprey, 53, 194
 American, 70, 206, 242
 Ostinops montezumae, 228
 Otocoris alpestris enertera, 70, 206, 240
 alpestris insularis, 70
 alpestris leucolaema, 124, 198
- Otus asio gilmani, 26
 asio querquinus, 77
 cooperi, 26
 Ouzel, Water, 199
 Owl, 207
 Acadian, 17
 American Barn, 70
 American Hawk, 167
 Barn, 17, 198, 246, 274
 Barred, 17
 Burrowing, 17, 70, 156, 198, 231
 Elf, 17
 Great Grey, 17
 Great Horned, 17, 245
 Hawk, 17
 Horned, 114, 169, 269
 Long-eared, 17
 Northern Spotted, 150
 Pacific Horned, 65
 Pigmy, 17, 161, 162
 Sanford Elf, 157
 Saw-whet, 161
 Screech, 17, 65, 77, 78
 Short-eared, 17, 156, 200
 Snowy, 17
 Spotted, 123, 159, 160
 Western Horned, 198
 Oxyechus vociferus, 69, 197
 vociferus vociferus, 25
 Oyster-catcher, 51
 Black, 51, 52, 70, 80, 194, 248
 Frazar, 70, 194, 206, 243
- P
- Pagolla wilsonia beldingi, 49, 194, 242
 Pandion haliaeetus carolinensis, 53, 70, 194, 206, 242
 Parapavo, 150
 Parauque, 80
 Partridge, European, 167
 Passer domesticus, 81, 82, 199
 Passerculus beldingi, 56, 57
 beldingi halophilus, 57, 195
 halophilus, 56, 57
 rostratus, 195
 rostratus guttatus, 70, 157
 rostratus halophilus, 157, 241
 rostratus rostratus, 56, 157
 Passerella iliaca altivagans, 125, 154
 iliaca canescens, 128, 154
 iliaca fuliginosa, 114
 iliaca fulva, 154
 iliaca mariposae, 65, 125
 iliaca megarhynchus, 125, 154
 iliaca monoensis, 125, 154
 iliaca schistacea, 19, 125, 154
 iliaca sinuosa, 125, 154
 iliaca stephensi, 154
 iliaca townsendi, 114
 iliaca unalaschcensis, 125, 154
 Passerina cyanea, 159

- Pelecanus californicus, 69, 163, 247
erythrorhynchos, 253
occidentalis californicus, 193, 240
- Pelican, 65, 232
California Brown, 67, 69, 163, 193,
 240, 243, 246
White, 253
- Pelidna alpina sakhalina, 156, 240
- Pemberton, J. R., the American gull-billed tern breeding in California, 253
- Penguin, 228
Galapagos, 229, 232
- Penthestes gambeli abbreviatus, 63, 65
- Petrel, 200, 231
Black, 190
Diving, 229
Hornby, 230
Least, 72, 190, 230
Socorro, 191
- Petrochelidon albifrons albifrons, 104
lunifrons, 199
- Pewee, Western Wood, 64, 65, 90, 271
Wood, 147
- Phaeopus hudsonicus, 242
- Phaethon, 192
aethereus, 191
- Phainopepla, 196, 199
- Phainopepla nitens, 196, 199
- Phalacrocorax ater, 182, 274
auritus albociliatus, 40, 69, 193, 206,
 243
auritus cincinatus, 59
auritus floridanus, 273
carbo, 182
fuscescens, 182, 274
pelagicus resplendens, 193
pelagicus robustus, 59
penicillatus, 69, 193
varius, 182
vigua, 26
- Phalaenoptilus nuttalli, 198
nuttalli californicus, 26
nuttalli nitidus, 76
nuttalli nuttalli, 26
- Phalarope, Wilson, 82
- Pheasant, Ring-neck, 118
- Phoebe, 147
Say, 70, 159, 198
- Pica pica hudsonia, 198, 244, 249
- Picoides arcticus, 271
- Pierce, Wright M., nesting of a pair of red-shafted flickers, 158
- Pierce, Wright M., and Sumner, E. L., Jr., new records from Big Bear Lake, San Bernardino mountains, California, 82; some results of removing banded birds to a distance, 115
- Pigeon, Band-tailed, 121
Northern Band-tailed, 124, 153.
- Passenger, 224, 273
- Pinaroloxias inornata, 230
- Pinicola enucleator californica, 63, 65
- Pintail, 115, 253
- Pipilo aberti, 199
maculatus montanus, 199
- Pipit, American, 243
- Piranga, 18
hepatica oreophasma, 154
ludoviciana, 65, 154, 157, 199
- Pisobia bairdi, 58, 156, 202
maculata, 128
minutilla, 69, 197, 206, 242
ruficollis, 200, 274
- Pitangus sulphuratus derbianus, 73
- Pittman, H. H., the black terns of Saskatchewan, 140
- Planesticus, 18
migratorius caurinus, 60
migratorius propinquus, 64, 65, 66, 200
- Plover, American Black-bellied, 69, 240
American Golden, 203
Black-bellied, 203
Belding, 49, 194, 242
Belding Wilson, 49
Mountain, 69, 70
Semipalmated, 14, 69
Snowy, 49, 69, 194
Thick-kneed, 25, 26
Western Snowy, 242
Wilson, 49
- Pluvialis dominica dominica, 203
- Podilymbus podiceps, 155
- Pooecetes gramineus confinis, 199
- Poor-will, 76, 198
California, 28
Nuttall, 28
- Porzana carolina, 194
- Potter, Laurence B., correct portraiture of some birds, 200; freak nesting site of a magpie, 249
- Progne subis hesperia, 157
- Ptarmigan, Alaska Willow, 213
Rock, 12, 113
White-tailed, 204, 226
Willow, 113
- Ptychoramphus aleuticus, 68, 188, 206
- Puff-bird, 73
- Puffinus griseus, 119
opisthomelas, 68, 119, 190, 240
- Pyrocephalus rubinus mexicanus, 196, 198
- Q**
- Quail, 74, 237
California, 271
California Valley, 164
Gambel, 196, 197
Mountain, 64, 65, 108
Valley, 235
- Querquedula cyanoptera, 197
- R**
- Rail, 47
Belding, 241, 243
California Clapper, 259

- Rail [continued]
 Carolina, 142
 Clapper, 194
 Light-footed, 194
 Sora, 194
 Virginia, 156, 243
Rallus beldingi, 47, 48, 241
 levipes, 47, 194
 obsoletus, 259
 virginianus, 156, 243
 Ransom, Webster H., rare hybrid goose taken in Washington state, 170
 Raven, 54
 Clarion Island, 70
 Western, 195, 206, 243
Recurvirostra americana, 197
 Redhead, 197, 253
 Redpoll, 114
 Redstart, 147
 American, 77, 157
 Painted, 77
 Redtail, 249
Regulus calendula, 20, 200
 calendula cineraceus, 64, 65
 satrapa olivaceus, 19, 82
 Ridgway memorial, 83, 172
Rissa tridactyla pollicaris, 58
 Road-runner, 75, 196, 198, 273
 Robertson, John McB., some incidents in the life of a screech owl, 77; lark bunting in Orange county, California, 203
 Robin, 147, 162, 227
 Western, 64, 65, 66, 163, 200
 Rough-leg, Ferruginous, 249, 263, 268
 Rowan, William, an Alberta aviary, 133
- S
- Salpinctes obsoletus, 195, 199
 obsoletus obsoletus, 157
 obsoletus pulverius, 165
 Saltator, 80
 grandis, 80
 Sanderling, 69, 156, 242
 Sandpiper, Baird, 156, 202
 Least, 69, 197, 200, 206, 242
 Pectoral, 128
 Red-backed, 156, 240, 242
 Rufous-necked, 200, 274
 Solitary, 80, 112, 118
 Spotted, 66
 Western, 69, 242
 Western Solitary, 156
 Sapsucker, Pacific Williamson, 124
 Sierra Red-breasted, 65, 153
 Williamson, 65, 153
 Yellow-bellied, 147
Sayornis saya, 159, 198
Sayornis saya say, 70
 Scap, Greater, 112
 Lesser, 112
- Schneider, Frances B., invasion of the southern California coast by elegant terns, 71
 Scoter, Surf, 243
 Sefton, J. W., Jr., least petrel added to the California list, 72; the ancient murrelet at San Diego, with a note on the behavior of brown pelicans, 163
Seiurus noveboracensis, 118
Selasphorus allenii, 203
 rufus, 71
Setopagis parvulus, 26
Setophaga picta, 77
 ruticilla, 157
 Shaw, Tsen-Hwang, and J. Grinnell, review of Kuroda's birds of Fujiyama, 173
 Shearwater, Black-vented, 67, 68, 70, 119, 163, 190, 240
 Sooty, 119, 232
 Sherwood, Wm. E., an English sparrow deceived, 163; feeding habits of Lewis woodpecker, 171
 Shoveller, 253
 Shrike, 75, 227, 240
 California, 78, 79
 Eversmann, 205
 White-rumped, 78, 79, 199
Sialia currucoides, 64, 65, 66, 154, 200
 mexicana bairdi, 200
 mexicana occidentalis, 165
 Siskin, 207
 Pine, 65
Sitta canadensis, 65
 carolinensis aculeata, 65
 Skinner, M. P., new additions to the Yellowstone Park list of birds, 203
 Skua, 183
 Sloanaker, J. L., additional records of the gray gyrfalcon in Washington, 158
 Smith, Austin, account of the discovery of a rare bird in Costa Rica, 73; rapid decomposition in some species of the genus Saltator, 80; the water-thrush (*Seiurus noveboracensis*), the initial species in the autumnal migration through Costa Rica, 118; the Colombian royal flycatcher (*Onychorhynchus mexicanus fraterculus*) in the Caribbean watershed in Costa Rica, 126; a wood-pecker destructive to cacao fruit, 166
 Smith, Charles Piper, the olive-sided flycatcher and coniferous trees, 120
 Snipe, Wilson, 79, 80, 163, 197
 Snowflake, 16
 Solitaire, Townsend, 65
 Sparrow, Abreojos Large-billed Marsh, 241
 Alberta Fox, 125, 154

- Sparrow [continued]
 Belding, 57
 Belding Marsh, 56
 Bell, 121
 Black-chinned, 157
 Chipping, 81
 Desert Black-throated, 70
 Desert Song, 199
 English, 81, 82, 102, 162, 199
 Field, 146
 Gambel, 98, 199, 275
 Golden-crowned, 75, 154, 237
 Harris, 102, 145, 146, 147
 Intermediate, 12
 Lagoon, 56, 57
 Laguna Marsh, 55, 157
 Large-billed, 55, 56, 195
 Leconte, 145
 Lincoln, 66, 145, 157
 Mariposa Fox, 108
 Marsh, 56, 195, 242
 Mono Fox, 125, 154
 Pacific Chipping, 81
 San Lucas Marsh, 70
 Santa Cruz Song, 274, 275
 Savannah, 146
 Shumagin Fox, 154
 Slate-colored Fox, 19, 125, 154
 Song, 146, 275
 Sooty Fox, 114
 Thick-billed Fox, 125, 154
 Tree, 138, 146
 Valdez Fox, 125, 154
 Vesper, 147
 Warner Mountains Fox, 154
 Western Chipping, 64, 65, 66, 157, 199
 Western Lark, 147
 Western Vesper, 199
 White-crowned, 63, 66, 99, 145, 153
 White Mountains Fox, 125, 154
 White-throated, 159
 Yosemite Fox, 65, 125
Speotyto cunicularia hypugaea, 70, 156, 198
Sphyrapicus thyroideus, 153
 thyroideus thyroideus, 65, 124
 varius daggetti, 65, 158
Spinus pinus pinus, 65
Spiza americana, 157
Spizella atrogularis, 157
 passerina arizonae, 64, 65, 66, 81, 157, 199
 passerina passerina, 81
 passerina stridula, 81
 Spoonbill, Roseate, 253
 Sprot, G. D., notes on the courtship of the rufous hummingbird, 71; an American hawk owl record for Vancouver Island, 167
Squatarola squatarola, 203
squatarola cynosurae, 69, 240
 Steele, Ed. S., food of the spotted owl, 123
Steganopodes, 142
Steganopus tricolor, 82
Stellula calliope, 19, 63, 66, 124
Stercorarius parasiticus, 58, 243
 pomarinus, 58
Sterna antillarum antillarum, 39
 antillarum browni, 39, 155, 190, 243
 caspia, 32
 caspia imperator, 190, 254
 elegans, 36, 71, 171
 forsteri, 155
 hirundo, 155
 maxima, 32, 68
 Stilt, Black-necked, 82, 253
 Stint, Asiatic, 227
 Storer, Tracy I., three notable nesting colonies of the cliff swallow in California, 104
Strix, 27
 occidentalis, 123, 159
 occidentalis caurina, 160
 occidentalis occidentalis, 26
 varia allenii, 25, 26
Struthio, 27
 camelus, 26
Sturnella neglecta, 157, 160, 199
Sula brewsteri, 155, 192
 nebouxii, 155, 193
 Sumner, E. L., Jr., and Wright M. Pierce, new records from Big Bear Lake, San Bernardino mountains, California, 82; some results of removing banded birds to a distance, 115
 Surf-bird, frontispiece, 3
Surnia ulula caparoch, 167
 Swallow, 227
 Barn, 105, 199
 Cliff, 104, 199
 Tree, 63, 66
 Violet-green, 90
 Swarth, H. S., review of Birds of western Canada by P. A. Taverner, 82; review of check-list of the birds of Australia, 129; valley quail imported from Chile, 164; birds of the Atlin region, British Columbia: a reply to criticism, 169; the rufous-necked sandpiper on St. Paul, Pribilof Islands, 200; Eversmann shrike not a North American bird, 205; the rufous-necked sandpiper in Alaska, 274
 Swift, Black, 89
 White-throated, 93
Synthliboramphus antiquus, 163

T

- Tanager, 228
 Arizona Hepatic, 154
 Western, 65, 154, 157, 199

UNIV OF IDAHO
MOSCOW

289

Nov., 1927

INDEX TO VOLUME XXIX

- Tanner, Vasco M., notes on birds collected in the Virgin river valley of Utah, 196
- Tate, Ralph C., the American magpie in the Oklahoma panhandle, 244
- Tattler, Wandering, 6, 14, 16, 69, 156
- Taylor, Mrs. H. J., the Allen hummingbirds in Golden Gate Park, 203
- Teal, Cinnamon, 197
Green-winged, 197
- Telmatodytes palustris plesius, 199
- Teratornis, 150
- Tern, American Gull-billed, 253
Black, 140, 155, 253
Brown Least, 38, 49, 155, 190
California Least, 243
Caspian, 32, 33, 155, 190, 254
Cassin, 228
Common, 155, 171
Coues Caspian, 240, 243
- Tern, Elegant, 36, 68, 71, 171, 189
Forster, 71, 155, 253, 254
Least, 39
Royal, 32, 34, 35, 36, 37, 68, 171, 189, 240, 243
- Thalasseus elegans, 189
maximus, 189, 240
- Thrasher, Brown, 147
Sage, 199
Trinidad Crissal, 127
- Thrush, Audubon Hermit, 19
Babbling, 228
Northern Varied, 19, 154
Olive-backed, 147
Red-legged, 228
Russet-backed, 66, 154
Sierra Hermit, 64, 65
Varied, 204
Willow, 20
- Thryomanes bewickii leucophrys, 160
- Titmouse, 237
- Totanus flavipes, 164
melanoleucus, 242
- Toucan, 228
- Towhee, Abert, 199
Arctic, 146, 147
California, 236, 237
California Brown, 74
Green-tailed, 64, 65, 66, 199
San Francisco, 237
Spurred, 199
- Townsend, Charles Haskins, old times with the birds: autobiographical, 224; portraits of, 227, 231
- Toxostoma crissale crissale, 127
crissale trinitatis, 127
- Tree-duck, Fulvous, 253
- Tringa damacensis, 227
solitaria, 112
solitaria cinnamomea, 112, 156
virgata, 3
- Troglodytes aedon parkmani, 199
- Trogon, 228
- Tropic Bird, 191
Red-billed, 191
- Turnstone, Black, 70, 206
Common, 70
Ruddy, 240
- Tyrannus crassirostris, 18
cubensis, 18
dominicensis, 18
melancholicus, 18
tyrannus, 18
verticalis, 18, 82, 198, 203
vociferans, 18
- Tyto alba pratincola, 70, 198, 246, 274
- V
- Van Rossem, A. J., eye-shine in birds with notes on the feeding habits of some goatsuckers, 25; a new race of Slater oriole, 75; the Arizona race of the sulphur-bellied flycatcher, 126
- Vermivora celata celata, 157
celata lutescens, 64
ruficapilla gutturalis, 65
- Vireo, 18
Bell, 147
Cassin, 64, 65
Western Warbling, 64, 66, 199
- Vireo solitarius cassini, 64, 65
gilvus swainsoni, 64, 66, 199
- Von Bloeker, Jack C., a strange meeting with a flicker, 200
- Vulture, Northern Turkey, 243
Turkey, 153
- W
- Wales, Joseph H., fearlessness of shearwaters, 119
- Walker, Alex., additional records of the prairie falcon in the Willamette valley, Oregon, 118
- Warbler, 207
Audubon, 19, 64, 65, 70, 108, 115, 199
Black-and-white, 128, 157
Calaveras, 65
Cerulean, 126
Golden Pileolated, 64, 66
Hermit, 64, 65
Kirtland, 227
Lutescent, 64
Macgillivray, 199
Mangrove, 195, 241, 243
Orange-crowned, 140, 157, 241
Pileolated, 19
Sonora Yellow, 199
Tolmie, 161, 162
Western Fan-tailed, 126
Yellow, 147, 162, 241
- Water-fowl, monthly census of, 250
- Water-thrush, 118, 227

ON THE WING

WOODCOCK

290

THE CONDOR

Vol. XXIX

- Wetmore, Alexander, a method for keeping notes and files dealing with ornithology, 109; the amount of food consumed by cormorants, 273
- Weydemeyer, Winton, notes on the location and construction of the nest of the Calliope hummingbird, 19; some new birds from western Montana, 159
- Whip-poor-will, 17, 18, 25, 27
- Willett, G., notes on the occurrence and distribution of some southeastern Alaskan birds, 58
- Willet, Western, 69, 240, 242
- Williams, Laidlaw, notes on the black oystercatcher, 80; California brown pelicans nesting at Point Lobos, Monterey county, California, 246
- Wilsonia pusilla chryseola, 64, 66
 pusilla pileolata, 19
- Wood-hewer, 229
- Woodpecker, 112, 236
 Arctic Three-toed, 271
 Arizona Gila, 169
 Cactus, 198
 California, 233
 Downy, 147
 Gila, 162, 168
 Hairy, 162
 Lewis, 124, 165, 171, 198
 Modoc, 65
 Northern White-headed, 65
 Red-headed, 147
 San Fernando Gila, 168, 169
 San Lucas Gila, 169
 Southern Downy, 147
 Willow, 161, 162
- Woods, Robert S., road-runner versus mockingbird, 273
- Wren, 231
 Canyon, 94, 157, 199
 Cape Horn, 229
 Carolina, 147
 Marsh, 229
 Rock, 144, 157, 165, 195, 199
 San Clemente, 160
 Texas, 147
 Western House, 147, 199
 Western Marsh, 199
 Western Winter, 20
- Wren-tit, 121
- Wright, William S., a protective container for school specimens, 72
- Wyman, L. E., the Derby flycatcher near Los Angeles, 73
- Wythe, Margaret W., some birds of the Gold lake district of the Sierra Nevada, California, 61
- X
- Xanthocephalus xanthocephalus, 198
- Xema sabini, 59, 73
- Xenopus albolarvatus albolarvatus, 65
- Y
- Yellow-legs, 164, 165
 Greater, 242
- Yellow-throat, Maryland, 147
 Western, 199
- Z
- Zenaidura macroura marginella, 198
- Zonotrichia albicollis, 159
 coronata, 154
- leucophrys gambelii, 98, 199
- leucophrys leucophrys, 63, 66, 99, 153
- querula, 102