

INDEX TO VOLUME IV.

- A**CANTHIS cabaret, 30, 31, 34, 144.
canescens, 32.
exilipes, 30, 32, 33, 34, 62, 63.
holbællii, 33, 34, 35, 62, 63.
hornemannii, 30, 63.
hornemannii exilipes, 163,
164.
linaria, 30, 32, 33, 34, 62, 63,
163, 164.
linaria holbællii, 12, 33, 163,
164.
linaria pallescens, 33.
linaria rostrata, 163, 164.
pallescens, 32, 33.
rostrata, 30, 63, 164.
rufescens, 31, 63, 144, 145.
sibirica, 33.
Accentor modularis, 268.
Acipiter atricapillus striatulus,
183, 188.
cooperi, 40, 103, 188.
fringilloides, 41.
fuscus, 41, 42.
gundlachi, 40.
mexicanus, 40.
pileatus, 40.
velox, 42, 103, 188, 264.
Actitis macularia, 12, 14, 16, 103,
129, 180, 181, 186, 303, 318, 319,
340.
Actiturus bartramius, 319.
longicaudatus, 319.
longicaudus, 319.
Actodromas bonapartii, 315.
maculata, 314.
minutilla, 314.
wilsonii, 314.
Ægialeus melodus, 320.
semipalmatus, 229.
tenuirostris, 230.
Ægialitis meloda, 230.
melodus, 230.

- Ammodramus caudacutus subvirgatus, 233, 235, 236, 237, 238.
henslowi, 350.
sandwichensis alaudinus, 122, 199, 291.
sandwichensis savanna, 16, 237, 259, 302.
savannarum passerinus, 248, 304.
savannarum perpallidus, 87, 199, 291.
- Ampelis cedarorum, 16, 105, 128, 131, 244, 259, 294, 302.
- Amphispiza belli, 93.
belli nevadensis, 203.
bilineata, 22, 202, 292.
- Anas americana, 184.
boschas, 93, 94, 184.
carolinensis, 12, 184.
cyanoptera, 184.
discors, 184.
fulvigula, 274.
obscura, 184.
penelope, 339.
strepera, 184.
- Ancylorhynchus subarquatus, 315.
- Anhinga, 184.
Anhinga anhinga, 188.
- Ani, Groove-billed, 190.
- Anser albifrons gambeli, 12, 185.
hutchinsi, 69.
- Anthony, A. W., winter plumage of *Leucosticte australis*, 257.
- Anthus pensylvanicus 13, 297.
spraguei, 65, 265, 297.
- Antrostomus carolinensis, 303.
vociferus, 191.
- Aphelocoma californica hypoleucus, 335.
insularis, 329.
sieberii arizonæ, 20.
woodhousei, 20, 290.
- Aquila chrysaëtos, 75, 91, 341.
- Archibuteo ferrugineus, 91, 189.
lagopus, 12.
- Ardea abba, 324.
alba, 324.
brunnescens, 327.
(Butorides) virescens, 327.
cærulea, 136, 138, 142, 180, 185, 214, 220, 281, 325.
candidissima, 136, 138, 142, 143, 185, 214, 215, 217, 220, 222, 247, 280, 281, 282, 324.
cubensis, 325.
cyanirostris, 328.
egretta, 78, 136, 138, 142, 143, 159, 214, 215, 217, 247, 324, 339.
- Ardea herodias, 16, 136, 185, 214, 215, 219, 220, 281, 283, 323, 329.
leuce, 324.
leucogastra, 327.
leucogastra var. *leucoprymnna*, 327.
ludoviciana, 327.
occidentalis, 159, 324.
pealei, 138, 144, 214, 215, 218.
rufa, 137, 138, 139, 143, 144, 214, 215, 216, 217, 218, 221, 280, 281, 325, 335.
rufescens, 325, 335.
ruficollis tricolor, 138, 142, 143, 215, 220.
tricolor, 327, 328.
tricolor ruficollis, 136, 139, 180, 181, 214, 216, 280, 281, 282, 327, 328.
virescens, 96, 129, 136, 180, 181, 215, 280, 303, 326.
wardi, 143, 272.
wurdemanni, 324.
wuerdemanni, 159, 272.
- Arenaria calidris, 315.
interpres, 16, 87, 219, 231.
melanocephala, 12, 329.
- Arremon nigrirostris, 150.
- Asio accipitrinus, 12, 189, 264.
wilsonianus, 189.
- Audubonia occidentalis, 324.
- Auk, Razor-billed, 158.
- Avocet, 185.
- Aythya affinis, 184.
americana, 94, 184.
collaris, 24, 185.
marila nearctica, 141.
vallisneria, 184.
- BAGG, E., see Ralph, W. L.
- Bailey, H. B., the Brown Thrush laying in the nest of the Wood Thrush, 78.
- Baird, S. F., occurrence of Cory's Shearwater (*Puffinus borealis*) and several species of Jaegers in large numbers in the vicinity of Gay Head, Mass., during the autumn of 1886, 71.
- Baldpate, 184.
- Barrows, W. B., the sense of smell in *Cathartes aura*, 172; a protest, 357.
- Bartramia longicauda, 12, 186, 319.
- Beckham, C. W., scarcity of adult birds in autumn, 79; additional notes on the birds of Pueblo County, Colorado, 120; additions

- to the avi-fauna of Bayou Sara, La., 299.
Bellona cristata, 96.
Bird, Cardinal, 338.
 Frigate, 136.
 Man-o'-War, 139, 141, 214, 216, 219, 221, 222, 279, 281.
 Rice, 59, 341.
 Whale, 1.
Bittern, 185.
 Least, 185, 338.
Blacicus flavigularis, 251.
 martinicensis, 96.
Blackbird, Bicolored, 22.
 Boat-tailed, 277.
 Brewer's, 23, 76, 291.
 Red-winged, 241, 290, 302.
 Rusty, 15.
 Yellow-headed, 22, 256, 266, 290.
Blake, E. W., Jr., summer birds of Santa Cruz Island, California, 328.
Blakiston, J. W., notice of his 'Water-Birds of Japan,' 250.
Bluebird, 133, 299, 301.
 Eastern, 211.
 Mountain, 299.
 Western, 299.
Bobolink, 15, 59, 139, 331, 333, 339, 340.
Bob-white, 9, 129, 246.
 Masked, 159.
 Texan, 9, 24, 186.
Bonasa umbellus, 103, 129, 246, 338, 342.
 umbellus togata, 15, 16.
Botaurus exilis, 87, 185, 338.
 lentiginosus, 185.
Brachyrhampus brevirostris, 65.
 hypoleucus, 87, 93.
 marmoratus, 65, 87.
 perdis, 65.
Brambling, 163.
Brant, Black, 185.
Branta bernicla, 264.
 canadensis, 185.
 canadensis minima, 12.
 nigricans, 87, 185.
Brewster, W., the Golden Eagle in eastern Massachusetts, 75; the Black Gyrfalcon (*Falco rusticolus obsoletus*) in eastern Maine, 75; three new forms of North American birds, 145; the Common Murre (*Uria troille*) and the Razor-billed Auk (*Alca torda*) on the New England coast, 158; further notes on the Masked Bob-white (*Colinus ridgwayi*), 159; capture of a third specimen of the Short-tailed Hawk (*Buteo brachyurus*) in Florida, 160; a third New England specimen of Swainson's Hawk (*Buteo swainsoni*), 160; capture of a Fish Crow (*Corvus ossifragus*) at Wareham, Massachusetts, 162; the Redpolls of Massachusetts, 163; an overlooked specimen of Bachman's Warbler, 165; discovery of the nest and eggs of the Western Warbler (*Dendroica occidentalis*), 166; Hummingbirds feeding their young on insects, 255; 'scarcity of adult birds in autumn,' 268.
Brooks, W. E., notice of his papers on the genus *Acanthis*, 63.
Browne, F. C., the New England Glossy Ibis of 1850, 97; the Clapper Rail again in Massachusetts, 344.
Bryant, W. E., *Piranga rubriceps* and *Tringa fuscicollis* in California, 78; notice of his 'Additions to the Ornithology of Guadeloupe Island,' 154.
Bubo virginianus, 67, 128, 129, 247.
 virginianus subarcticus, 190.
Buffle-head, 185.
Bunting, Black-throated, 294.
 Indigo, 131, 293, 302.
 Lark, 205, 294.
 Lazuli, 205.
 Painted, 293.
 Snow, 67.
Buteo abbreviatus, 188.
 albicaudatus, 26, 188.
 borealis, 39, 241, 247.
 borealis calurus, 188.
 brachyurus, 160.
 harlani, 304.
 latissimus, 40, 66, 96, 332.
 lineatus, 188, 241.
 pennsylvanicus, 40.
 swainsoni, 91, 160, 189.
Butorides brunnescens, 327.
 virescens, 326.
Buzzard, Mexican, 222.
 Turkey, 51, 92, 173, 209, 210, 340.
CALAMOSPIZA melanocorys, 205, 294.
Calcarius lapponicus, 12, 347.
 ornatus, 77, 199.

- Campephilus imperialis, 161.
 principalis, 68, 338.
- Campylorhynchus bruneicapillus, 297.
- Calidris arenaria, 219, 276, 278, 279, 315, 350.
- Callipepla elegans bensoni, 156.
 squamata, 186, 187.
 squamata castanogastris, 25.
- Canvas-back, 184.
- Caprimulgus europaeus, 81.
- Caracara, Audubon's, 27, 189.
- Cardinal, 131, 244, 293.
 Arizona, 204.
 Texan, 204, 293.
- Cardinalis cardinalis, 131, 244, 293, 302, 338.
 cardinalis superbus, 204.
- Carduelis elegans, 339.
- Carpodacus cassini, 88, 197.
 frontalis, 124, 197, 335.
 frontalis rhodoculus, 330, 336.
 mexicanus frontalis, 335.
 mexicanus ruberrimus, 336.
 purpureus, 15, 16, 103, 105, 212, 291.
 purpureus californicus, 196, 199.
- Catbird, 132, 244, 297, 300.
- Cathartes atrata, 25, 51, 188, 214, 303.
- Cathartes atratus, 51, 52.
 aura, 50, 51, 129, 172, 188, 209, 210, 214, 303, 340.
- Catoptrorphorus speculiferus, 316.
- Catoptrorphorus semipalmatus, 316.
- Cedarbird, 302.
- Ceophila pileatus, 68, 104, 128, 130, 248.
- Cephus columba, 86, 93, 328.
- Cephus perdix, 65.
- Certhneis carriboearum, 46.
 isabellina, 44.
 leucophrys, 45.
 sparveria, 44.
 sparverioides, 45.
 sparverius, 44.
- Cerorhinca monocerata, 93.
- Certhia familiaris americana, 88, 106, 123, 244, 298.
- Certhiola martinica, 95.
 tricolor, 180, 181.
- Ceryle alcyon, 12, 14, 16, 130, 138, 181, 190, 275, 302, 329.
 cabanisi, 190.
 stictipennis, 96.
- Chadbourne, A. P., a list of the summer birds of the Presidential Range of the White Mountains, N. H., 100.
- Chæmepelia passerina, 116.
- Chætura, 80, 171.
 pelagica, 15, 16, 130, 303.
 pelasgica, 104.
 vauxii, 92.
- Chamaëtis fasciata, 268.
- Chamæpelia bahamensis, 116, 155.
 passerina, 116.
 purpurea, 155.
 trochila, 116.
- Chamberlain, M., the Florida Galinule in Nova Scotia, 253; the Baltimore Oriole (*Icterus galbula*), in Nova Scotia 256; the Song Sparrow in New Brunswick in winter, 260; the Sharp-tailed Sparrow (*Ammodramus caudatus*) in a fresh-water marsh, 261; nesting of the Hudsonian Chickadee (*Parus hudsonicus*), 261; new species of winter birds in New Brunswick, 264.
- Chapman, F. M., additional captures of *Helminthophila leucocephala*, 348.
- Charadrius (*Egialitis*) vociferus, 228.
 dominicinus, 78, 186, 227.
 fulvus var. *virginiacus*, 227.
 helveticus, 228.
 marmoratus, 227.
 melodus, 230.
 mexicanus, 231.
 pluvialis, 227.
 pluvialis americanus, 227.
 semipalmatus, 229.
 squamatorola, 219, 227, 274, 279.
 virginiacus, 227.
 virginianus, 227.
 vociferus, 228.
 wilsonius, 228.
- Charitonetta albeola, 185.
- Chat, Long-tailed, 296.
 Yellow-breasted, 132, 206, 302.
- Chelidon erythrogaster, 13, 15, 16, 294, 309, 330.
 erythrogastera, 304.
 namiyei, 250.
- Chen hyperborea, 185, 264.
- Chewink, 302.
- Chickadee, 107, 298.
- Chickadee, Black-capped, 15, 102.
 Carolina, 133, 245, 298, 301.

- Chickadee Hudsonian, 15, 107, 261.
 Hudson's Bay, 102.
- Chicken, Mother Carey's, 5.
 Prairie, 67.
- Chloroëna inornata, 110.
- Chondestes grammacus, 133, 241,
 251.
 grammacus strigatus, 199,
 251, 291.
- Chordeiles acutipennis texensis, 81.
 texensis, 27, 92, 191.
 virginianus, 15, 16, 68, 130,
 303.
 virginianus henryi, 86, 299.
- Chuck-will's-widow, 303.
- Cinclocerthia gutturalis, 95.
- Cinclus mexicanus, 86.
- Circus cyaneus, 38.
 cyaneus var. hudsonius, 38.
 hudsonicus, 38.
 hudsonius, 12, 16, 38, 121,
 188, 246.
- Cistothorus palustris, 93, 298.
- Clarke, H. L., the Canada Jay in
 southern Vermont in summer,
 256.
- Clarke, W. E., occurrence of *Age-*
laius phœniceus (L.) on the west
 coast of England, 162.
- Clivicola riparia, 15, 16, 294.
- Coale, H. K., description of a new
 subspecies of Junco from New
 Mexico, 330; ornithological curi-
 osities,—a Hawk with nine toes,
 and a Bobolink with spurs on its
 wings, 331.
- Coccothraustes vespertina, 196, 256,
 257.
- Coccycus americanus, 190, 263, 264,
 303.
 americanus occidentalis, 335.
 erythrophthalmus, 190, 263.
 maynardi, 335.
 minor, 96, 180, 221.
 sp. ?, 16.
- Colaptes auratus, 16, 66, 68, 91, 191,
 242, 264, 303, 346, 355.
 cafer, 124, 191, 329.
- Colinus cubanensis, 223, 224, 225.
 graysoni, 74, 160.
 ridgwayi, 69, 74, 159.
 virginianus, 9, 129, 224, 246.
 virginianus cubanensis, 336.
 virginianus floridanus, 225,
 283.
 virginianus texanus, 9, 24,
 186.
- Columba caniceps*, 118.
- Columba caribbæa*, 110.
 carolinensis, 112.
 (Chamæpelia) passerina, 116.
 corensis, 96, 109.
 cristata, 117.
 cyanocephala, 120.
 frontalis, 111.
 (Geotrygon) martinica, 119.
 (Geotrygon) montana, 119.
 (Goura) passerina, 116.
 imbricata, 109.
 inornata, 110.
 jamaicensis, 111.
 leucocephala, 108, 180.
 leucoptera, 115.
 macroura, 112.
 martinica, 119.
 migratoria, 113.
 montana, 118, 119.
 monticolor, 109.
 mystacea, 117.
 passerina, 116, 155.
 portoricensis, 109.
 rufina, 110.
 (Zenadura) carolinensis, 113.
 zenaida, 113.
 (Zenaida) martinicana, 114.
- Columbigallina passerina*, 96, 116,
 183.
 passerina pallescens, 336.
- Colymbus auritus*, 247.
- Compsophylpis americana*, 180, 301.
- Contopus borealis*, 18, 88, 192, 335.
 pertinax, 19, 264.
 richardsoni, 19, 193.
 virens, 130, 192.
- Conurus carolinensis*, 68, 303.
- Cooper, J. G., additions to the birds
 of Ventura County, Cal., 85.
- Cooperastur gundlachi*, 40.
- Coot, 185, 303.
- Cormorant, 280, 282.
 Baird's, 329.
 Brandt's, 329.
 Double-crested, 184, 253.
 Florida, 136, 141, 215, 219,
 274, 281.
- Corvus americanus*, 15, 16, 21, 86,
 92, 104, 130, 290.
 americanus hesperus, 335.
 carnivorus, 335.
 caurinus, 86, 92.
 corax carnivorus, 335.
 corax principalis, 335.
 corax sinuatus, 12, 15, 16, 21,
 92, 290, 329.
 cryptoleucus, 21, 290.
 ossifragus, 138, 162, 214.

- Cory, C. B., a new Vireo from Grand Cayman, West Indies, 6; the birds of the West Indies, including the Bahama Islands, the Greater and the Lesser Antilles, excepting the Islands of Tobago and Trinidad, 37, 108, 223, 311; notice of his paper on birds from several little-known islands of the West Indies, 66; description of a new species of *Rhamphocinclus* from St. Lucia, West Indies, 94; a list of the birds collected by Mr. W. B. Richardson, in the Island of Martinique, West Indies, 95; more news of *Ardea wuerdemani*, 159; descriptions of six supposed new species of birds from the Islands of Old Providence and St. Andrews, Caribbean Sea, 177; a list of the birds taken by Mr. Robert Henderson, in the Islands of Old Providence and St. Andrews, Caribbean Sea, during the winter of 1886-87, 180; description of a new *Euetheia* from Old Providence Island, 245.
- Coturnix dactylisonans, 67.
- Cowbird, 241, 248, 264, 290.
Dwarf, 22, 290.
- Cox, P., Jr., rare birds of northeastern New Brunswick, 205.
- Crane, Sandhill, 141, 185.
Whooping, 185.
- Creake, 73.
- Creeper, Black-and-white, 244, 353.
Brown, 106, 244, 298.
- Crossbill, 13.
American, 105, 287.
American Red, 242.
Mexican, 197.
Red, 287.
- Crotophaga ani, 96.
sulcirostris, 190.
- Crow, 15.
American, 21, 104, 130, 290.
Carriion, 188, 303.
Clark's, 341.
Fish, 138, 162, 214.
- Cuckoo, Black-billed, 190.
Mangrove, 221.
Yellow-billed, 190, 303.
- Cupidonia cupido, 67.
- Curlew, 247.
Long-billed, 186.
Pink, 222.
White, 140.
- Cyanocephalus cyanocephalus, 21.
- Cyanocitta cristata, 16, 103, 104, 128, 130, 213, 289, 303.
stelleri, 20.
stelleri annectens, 336.
stelleri frontalis, 86.
stelleri macrolopha, 124.
- Cyclorhis flaviventris yucatanensis, 156.
- Cymindis boliviensis, 48.
cuculoides, 48.
pucherani, 48.
uncinatus, 47, 48.
vitticaudus, 48.
wilsonii, 47.
- Cypseli, 80.
- Cypselus apus, 171.
- Crytonyx montezumæ, 186.
- DAFILA acuta, 12, 184.
- Daption capense, 4, 5, 6.
- Davison, J. L., *Ardea egretta* in Niagara County, N. Y., 159; birds laying their eggs in the nests of other birds, 263.
- Demiegretta ludoviciana, 327.
pealii, 325.
rufa, 325.
ruficollis, 327.
- Dendragapus canadensis, 12, 15, 16, 103.
obscurus, 88.
- Dendrochelidon mystacea, 171.
- Dendrocygna autumnalis, 185.
fulva, 88, 185.
- Dendroica aestiva, 13, 16, 94, 264, 296, 297, 301.
aestiva morcomi, 251.
auduboni, 125, 296.
blackburniae, 103, 106, 128, 132, 183, 269, 301.
cærulea, 128, 132, 296, 306.
cærulescens, 102, 106, 128, 132, 251.
castanea, 103, 106, 269.
chrysoparia, 296.
coronata, 13, 15, 16, 103, 106, 180, 269, 296, 306.
discolor, 134, 135, 221.
dominica, 7, 165.
dominica albilora, 166, 301.
dugesii, 251.
flavida, 179, 181.
graciae, 86.
maculosa, 15, 16, 269.
nigrescens, 86.
occidentalis, 86, 166.
palmarum, 180.
palmarum hypochrysea, 241.

- Dendroica pensylvanica, 128, 132, 306.
rufifigula, 95.
striata, 13, 102, 103, 106, 248.
tigrina, 221.
townsendi, 183, 296, 297.
vigorsii, 128, 132, 301.
virens, 15, 16, 102, 106, 128, 132, 165, 296.
Dickcissel, 205, 304.
Dimigretta rufa, 325.
Diomedea culminata, 3.
exulans, 1, 2, 3, 5, 6.
melanophrys, 3.
Dolichonyx oryzivorus, 15, 16, 59, 139, 331, 333, 339, 340, 341, 360.
Dove, Carolina, 303.
Ground, 183.
Mourning, 129, 187, 264, 329.
Dowitcher, 185.
Dryobates arizonæ, 335.
nuttallii, 156, 251.
pubescens, 16, 104, 130, 190, 242, 303.
pubescens gairdneri, 124, 156.
scalaris, 190, 335.
scalaris bairdi, 335.
stricklandi, 335.
villosus, 16, 104, 121, 128, 130, 304.
villosus auduboni, 242. ~~SEE~~
villosus harrisi, 121.
Duck, Black, 184.
Eider, 69, 341.
Florida, 274.
Little Scaup, 184.
Ring-necked, 24, 185.
Ruddy, 184.
Wood, 184.
Dunlin, 186.
Dutcher, W., *Megalestris skua*, 158.
Dwight, J., Jr., summer birds of the
Bras d'Or region of Cape Breton
Island, Nova Scotia, 13; a new
race of the Sharp-tailed Sparrow
(Ammodramus caudacutus), 232.
EAGLE, Bald, 15, 189, 329, 339, 340,
341.
Golden, 75, 341.
Ectopistes migratorius, 113, 187,
339.
Egret, American, 78, 217, 247, 280,
281.
Great White, 214, 339.
Little White, 142, 143.
Muffled-jawed, 218.
Peale's, 214, 215.
Egret, Reddish, 137, 139, 143, 214,
215, 216, 217, 218, 221, 280,
281.
White, 67, 142.
Egretta cærulea, 326.
candidissima, 325.
luce, 324.
nivea, 326.
ruficollis, 327.
Elainea cinerescens, 180.
martinica, 7, 96, 181.
Elanoides forficatus, 46, 304.
Elanus leucurus, 188.
Empidonochanes furcatus, 66.
Empidonax acadicus, 303.
brunneus, 66.
difficilis, 19, 92, 329.
flaviventris, 16, 103, 104, 269,
304.
hammondi, 19, 86, 193.
minimus, 193.
obscurus, 19, 85, 92, 183, 193.
pusillus, 19, 92, 193.
pusillus traillii, 9, 16, 193.
salvini, 66.
Engyptila collaris, 112.
jamaicensis, 111, 179.
neoxena, 179, 181.
wellsi, 111, 251.
Ereunetes himantopus, 312.
occidentalis, 186, 313.
petrificatus, 313.
pusillus, 12, 16, 313.
Erismatura rubida, 185.
Erithacus rubecula, 163.
Eudocimus albus, 321.
ruber, 321.
Euetheia bicolor, 96, 180, 181, 245.
grandior, 245.
olivacea, 7.
Eulampis holosericeus, 96.
jugularis, 96.
Euligia bartramia, 319.
Euphonia flavifrons, 95.
Eupsychortyx sonnini, 225.
FALCINELLUS erythrorhynchus, 322.
ordii, 322.
Falco æsalon, 345.
anatum, 43.
anthracinus, 42.
borealis, 39.
candicans, 63.
caribbæarum, 96.
carolinensis, 38.
cayennensis, 38.
cheriway, 50.
columbarius, 12, 43, 91, 96,
103, 189, 241.

- Falco communis, 43.
 communis, var. anatum, 43.
 dominicensis, 44.
 forficatus, 46.
 furcatus, 46.
 hudsonius, 38.
 isabellinus, 44.
 latissimus, 40.
 leucophrys, 45.
 mexicanus, 91, 183.
 noveboracensis, 44.
 peregrinus, 43.
 peregrinus anatum, 43, 91,
 340.
 richardsonii, 341.
 rusticulus obsoletus, 75.
 sparverioides, 45.
 sparverius, 16, 43, 44, 103,
 124, 128, 129, 189, 241, 338,
 339.
 sparverius dominicensis, 45.
 sparverius isabellinus, 44, 45.
 sparverius sparverioides, 45.
 sparverius, var. dominicensis, 45.
 (*Tinnunculus*) sparverioides, 45.
 (*Tinnunculus*) sparverius, 44.
 uncinatus, 48.
 velox, 42.
 vitticaudus, 48.
- Falcon, Lanier, 341.
 Peregrine, 340.
 Prairie, 183.
- Ferrari-Perez, F., notice of his catalogue of Mexican birds, 65.
- Finch, Bachman's, 302.
 California Purple, 196.
 Cassin's Purple, 197.
 Crimson House, 330.
 Grass, 241, 259.
 House, 197.
 Lark, 133.
 Pine, 199, 284.
 Purple, 15, 103, 105, 212, 291.
 Western Lark, 291.
- Fishhawk, 275.
- Flamingo, 72, 185.
- Flicker, 191, 242, 264, 303, 329.
 Red-shafted, 191.
- Flint, W., the metric system, 357.
- Florida cærulea, 326.
- Flycatcher, Acadian, 303.
 Arizona Crested, 17.
 Ash-throated, 18, 192.
 Baird's, 19, 329.
 Coues's, 19.
- Flycatcher, Great-crested, 192, 303.
 Hammond's, 19, 193.
 Least, 193.
 Little, 19, 193.
 Olivaceous, 18.
 Olive-sided, 18, 192.
 Scissor-tailed, 192.
 Traill's, 9, 193.
 Vermilion, 19.
 Wright's, 19, 183, 193.
 Yellow-bellied, 103, 104, 304.
- Fox, W. H., *Vireo solitarius altilcola*
 in Tennessee, 164.
- Fregata aquila, 137, 139, 141, 180,
 181, 214, 216, 219, 221, 222,
 279, 281.
- Fringilla montifringilla, 163.
 oregonia, 330.
- Fulica americana, 185, 303.
- Fulmar, Giant, 3.
 Southern, 4.
- Fulmarus glacialis glupischa, 87.
 glacialisoides, 4, 87.
- GADWALL, 184.
- Galeoscoptes carolinensis, 132, 181,
 244, 297, 300.
- Gallinago caelestis, 163.
 delicata, 16, 96, 121, 185, 303,
 337.
 media wilsoni, 311.
 wilsoni, 311.
- Gallinula galeata, 72, 253.
 Gallinule, Florida, 72, 253.
- Gambetta flavipes, 317.
 melanoleuca, 317.
- Garzetta candidissima, 325.
- Gavia alba, 339.
- Gelochelidon nilotica, 133.
- Geococcyx californianus, 190, 254.
- Geothlypis agilis, 106.
 formosa, 302.
 macgillivrayi, 86, 296.
 philadelphia, 106, 296.
 restricta, 155.
 trichas, 16, 132, 302.
 trichas occidentalis, 296.
- Geotrygon caniceps, 118.
 cristata, 117.
 martinica, 119.
 montana, 96, 118.
 mystacea, 96, 117.
 sylvatica, 117.
- Glottis melanoleuca, 317.
- Gnatcatcher, Blue-gray, 133, 298,
 301.
- Godwit, Hudsonian, 341.
- Goldfinch, 15, 264.
 American, 105, 131, 197, 291.

- Goldfinch, Arizona, 198.
 Arkansas, 198, 291.
 European, 339.
 Lawrence's, 199.
- Goney, 3.
- Goodale, J. L., occurrence of *Calocairius ornatus* in Maine, 77; additional occurrences of the Connecticut Warbler in Maine, 77.
- Goose, American White-fronted, 185.
 Canada, 185.
 Lesser Snow, 185.
- Goshawk, Western, 183, 188.
- Goss, N. S., additions to the catalogue of the birds of Kansas, 7; what constitutes a full set of eggs?, 167; *Merganser americanus* breeding in New Mexico, 344; *Ictinia mississippiensis* and *Aegialitis niveosa* nesting in southern central Kansas, 344.
- Goura jamaicensis, 111.
- Grackle, Boat-tailed, 346.
 Bronzed, 131, 291, 302.
 Purple, 69, 302.
- Grebe, Carolina, 247.
 Crested, 68.
 Horned, 247.
 Pied-billed, 8, 184.
- Green, M. M., occurrence of *Phalaropus lobatus* at Syracuse, N. Y., 73; central New York notes, 350.
- Grosbeak, Black-headed, 205, 293.
 Blue, 205, 293, 296.
 Cardinal, 302.
 Evening, 196, 256, 257.
 Pine, 13, 104, 212.
 Rose-breasted, 15.
- Grouse, Canada, 15, 103.
 Pinnated, 340.
 Ruffed, 15, 103, 129, 246, 338, 342.
- Grus americanus, 185.
 canadensis, 12, 264.
 mexicana, 86, 141, 185.
- Guara alba, 137, 138, 139, 141, 214, 279, 281, 283, 321.
 rubra, 321.
- Guillemot, Pigeon, 328.
- Guiraca cærulea, 205, 293, 296.
 cærulea eurhyncha, 336.
- Gull, American Herring, 274.
 Heermann's, 329.
 Herring, 14.
 Ivory, 339.
 Laughing, 137, 139, 273, 274.
 Ring-billed, 274.
 Western, 329.
- Gyrfalcon, 13, 341.
 Black, 75.
- HABIA ludoviciana, 15, 16.
 melanocephala, 205, 293.
- Haematoptus bachmani, 329.
 palliatus, 230, 273.
- Haliaëetus leucocephalus, 15, 16, 159, 189, 329, 339, 340, 341.
- Harporrynchus bendirei, 68.
 curvirostris palmeri, 68.
 rufus, 78, 263, 300.
- Harrier, Marsh, 188.
- Hawk, American Sparrow, 129, 188.
 Broad-winged, 66, 332.
 Cooper's, 103, 188.
 Harlan's, 304.
 Harris's, 26.
 Marsh, 246.
 Pigeon, 103, 188, 241.
 Red-shouldered, 188, 241.
 Red-tailed, 241, 247.
 Sharp-shinned, 103, 188, 264.
 Short-tailed, 160.
 Sparrow, 103, 338, 339.
 Swainson's, 160, 189.
 White-tailed, 26, 188.
 Zone-tailed, 188.
- Hay, O. P., the Red-headed Wood-pecker a hoarder, 193.
- Helinaea swainsoni, 37, 68, 263, 300, 305, 347.
- Helminthophila, 307.
- Helminthophila bachmani, 35, 165, 262, 308, 310, 348.
 carbonata, 310.
 celata, 37, 123, 296, 307, 309, 350.
 celata lutescens, 93, 296, 307, 330.
 chrysoptera, 308, 309, 310, 349.
 lawrencei, 308, 310.
 leucobronchialis, 308, 310, 348, 349.
 luciae, 307.
 peregrina, 106, 296, 306, 307, 309, 352, 353.
 pinus, 308, 309, 310, 348.
 ruficapilla, 105, 307, 309.
 ruficapilla gutturalis, 88, 295, 297.
 virginiae, 307.
- Helmitherus vermicivorus, 37, 128, 132, 305.
- Hemipalama minor, 313.
 semipalmata, 313.
- Hen, Cape, 3.
 Lesser Prairie, 187.
 Prairie, 67.

- Henshaw, H. W., the Lapland
Longspur about Washington, D.
C., 347.
- Herodias cærulea*, 326.
candidissima, 325.
egretta, 324.
luce, 324.
ludoviciana, 327.
occidentalis, 324.
pealii, 325.
rufescens, 325.
ruficollis, 327.
virescens, 326.
- Heron**, Great Blue, 185, 214, 219,
220, 281, 283, 329.
Green, 129, 280.
Little, 185.
Little Blue, 214, 281.
Little Green, 303.
Louisiana, 139, 214, 216, 280,
281, 282.
Night, 264, 281.
Snowy, 185, 214, 217, 222, 247,
281, 282.
- Herpetotherus sociabilis**, 47.
- Hesperocichla nævia**, 13, 86.
- Heteractitis incanatus**, 87, 329.
- Himantopus mexicanus**, 87, 231.
nigricollis, 231.
- Hirundo pacifica**, 80.
riparia, 80.
rustica, 80.
urbica, 80.
- Hummingbird**, Black-chinned, 192.
Ruby-throated, 130, 191, 242,
303.
Rufous, 329.
- Hummer**, Black-chinned, 183.
- Hydrochelidon nigra surinamensis**,
184, 273, 282.
- Hypromorphus gundlachi**, 42.
- Hypromorphus gundlachi**, 42.
- Hypotriorchis columbarius**, 43.
- Hypsipetes pryeri**, 250.
- Ibis**, Black Egyptian, 253.
Glossy, 97, 253.
White, 137, 138, 139, 141, 214,
279, 281, 283.
- Ibis alba**, 321.
falcinella, 97, 99, 100, 253, 321.
guarauna, 98, 100.
ordii, 98.
rubra, 321.
thalassina, 100.
- Ictoturus namiyei**, 250.
- Icteria virens**, 132, 296, 302.
virens longicauda, 296.
- Icterus bonana**, 96.
- Icterus bullocki**, 23, 124, 290.
cucullatus nelsoni, 22, 23.
galbula, 246, 248, 256, 302.
lawrencei, 178, 181.
parisorum, 22.
spurius, 290, 302.
- Ictinia mississippiensis**, 188, 344.
- JAY**, 213.
- Jay**, Arizona, 20.
Blue, 103, 104, 128, 130, 289,
303.
Canada, 103, 104, 256.
Island, 329.
Long-crested, 20.
Piñon, 21.
Woodhouse's, 20, 183, 290.
- Jones, H. E.**, et al., notice of their
'Illustrations of the nests and eggs
of birds of Ohio', 150.
- Junco aikenii**, 122, 123.
annectens, 122, 123, 200, 201.
caniceps 201, 202.
cinereus, 201.
cinereus dorsalis, 201, 202.
cinereus palliatus, 201, 202.
hyemalis, 13, 15, 16, 102, 103,
105, 122, 200, 201, 243, 244,
292, 331.
hyemalis carolinensis, 242,
243.
hyemalis connectens, 122.
hyemalis oregonus, 123, 125,
200, 201, 202, 330, 331.
hyemalis shufeldti, 330, 331.
oregonus, 122.
- Junco**, 102, 103.
Carolina, 242.
Oregon, 292.
Slate-colored, 15, 105, 292.
- KESTREL**, American, 341.
- Killdeer**, 129, 186.
- Kingbird**, 15, 69, 130, 192, 303.
Akansas, 16, 192.
Cassin's, 17.
Gray, 141, 277.
- Kingfisher**, 14, 138, 275, 302.
Belted, 130, 190, 329.
Texan, 190.
- Kinglet**, Golden-crested, 245.
Golden-crowned, 15, 103, 107,
298, 350.
Ruby-crowned, 241, 298, 306.
- Kite**, Mississippi, 188, 344.
Swallow-tailed, 304.
White-tailed, 188.
- Knot**, 276, 278, 279.
- Kumlien**, L., the Merlin (*Falco*
æsalon) in Greenland, 345.

- LAGOPUS lagopus**, 12.
Lampornis hendersoni, 177, 180.
Langdon, F. W., August birds of the Chilhowee Mountains, Tennessee, 125.
Lanius borealis, 13.
ludovicianus excubitorides, 77, 123, 294, 330.
ludovicianus gambeli, 336.
Lark, Desert Horned, 193.
 Horned, 329, 347.
 Meadow, 242, 290, 302, 342.
 Mexican Horned, 20.
 Prairie Horned, 255.
 Sprague's, 65.
 Western Meadow, 22, 290.
Lark-Sparrow, 241.
Larus argentatus smithsonianus, 14, 274.
atricilla, 137, 139, 222, 273, 274.
cachinnans, 86.
delawarensis, 274.
glaucus, 12.
neermanni, 329.
leucopterus, 12.
occidentalis, 329.
philadelphia, 12, 16.
Lawrence, G. N., the rediscovery of Bachman's Warbler, *Helminthophila bachmanni* (Aud.), in the United States, 35; additional specimens of Bachman's and Swainson's Warblers obtained by Mr. Chas. S. Galbraith in the spring of 1887, 262. See also Wells, J. G.
Lawrence, R. B., the Canadian Warbler breeding in Pike County, Pa., 349.
Leptodon uncinatus, 48.
Leptodon wilsoni, 47.
Leptoptila jamaicensis, 111.
Leucosticte australis, 257.
tephrocotis, 258.
Limnodramus griseus, 312.
Limosa fedoa, 316.
haemastica, 316, 341.
hudsonica, 316.
scolopacea, 312.
Lloyd, W., birds of Tom Green and Concho Counties, Texas, 181, 289.
Longspur, Chestnut-collared, 199.
 Lapland, 347.
 McCown's, 291.
Loomis, L. M., on an addition to the ornithology of South Carolina, 76; remarks on four examples of the Yellow-throated Warbler from Chester County, S. C., 165; *Otocoris alpestris praticola* in Chester County, South Carolina, 255; another addition to the avifauna of South Carolina, 261; *Helinaea swainsonii* near Chester C. H., S. C., 347.
Loon, 184, 247.
Lophodytes cucullatus, 184.
Loxia curvirostra minor, 105, 242, 287.
curvirostra stricklandi, 197.
Loxigilla noctis, 95.
Lucas, F. A., notes of a bird catcher, 1; classification of the Macrochires, 170.
MACROCHIRES, 80, 170.
Macrorhamphus griseus, 185, 219, 279, 312.
scolopaceus, 312.
Macrotarsus nigricollis, 231.
Majaqueus æquinoctialis, 3.
Mallard, 184.
Margarops albiventris, 251.
densirostris, 95.
montanus, 95.
Marsh-tit, British, 64.
Martin, Purple, 131, 294, 302.
Maynard, C. J., notice of his descriptions of new birds from the Bahamas, 155.
McArthur, A., a bird scare, 351.
McIlwraith, T., notices of his 'Birds of Ontario', 255, 246.
Meadowlark, 70.
Megalestris skua, 158.
Megascops asio, 67, 128, 129.
asio maccallii, 190.
elegans, 250.
japonicus, 250.
Melanerpes aurifrons, 191.
carolinus, 191, 303.
erythrocephalus, 121, 130, 191, 193, 242, 303.
formicivorus, 194.
formicivorus bairdi, 345.
torquatus, 183, 191.
Meleagris gallopavo, 129, 340.
gallopavo mexicana, 186.
Melopelia leucoptera, 115, 116, 180.
Melospiza fasciata, 16, 105, 259, 260, 261, 293.
fasciata fallax, 203.
fasciata montana, 125, 204.
fasciata samuelis, 93.
georgiana, 16, 264, 293, 302.

- Melospiza lincolni, 93, 125, 204, 293.
 Merganser americanus, 184, 247, 344.
 serrator, 12, 264.
 Merganser, American, 184, 247, 344.
 Hooded, 184.
 Merlin, 335.
 American, 341.
 Merriam, C. H., another specimen
 of Bachman's Warbler (*Helmin-*
 thophila bachmani), 262.
 Merula migratoria, 13, 15, 16, 67,
 108, 133, 213, 245, 264, 298.
 migratoria propinqua, 125, 298.
 Micropalama himantopus, 186, 264,
 312.
 Micropus melanoleucus, 170.
 Milvulus forficatus, 192.
 Mimus gilvus, 95.
 magnirostris, 178, 181.
 polyglottus, 297, 300.
 Minor Ornithological Publications,
 66, 337.
 Mniotilla varia, 15, 16, 128, 132,
 181, 244, 295, 301, 353.
 Mockingbird, 297, 300.
 Molly-Hawk, 3.
 Molly-Mawk, 3.
 Molothrus aeneus, 335.
 ater, 241, 248, 264, 290.
 ater obscurus, 22, 290.
 Morphnus urubitinga, 42.
 Morris, R. O., occurrence of the
 Florida Gallinule at Springfield,
 Mass., 72; the Double-crested
 Cormorant near Springfield,
 Mass., 253.
 Murre, Brünnich's, 158.
 Common, 158.
 Myadestes townsendi, 86, 125, 169.
 Myiadestes genibarbis, 95.
 Myiarchus cinerascens, 18, 192.
 coalei, 156.
 crinitus, 192, 303.
 lawrencei olivaceus, 18.
 mexicanus magister, 17.
 NAUCLERUS furcatus, 46.
 Nisus cooperi var. gundlachi, 40.
 fringilloides, 41.
 fuscus, 41.
 fuscus var. fringilloides, 41.
 gundlachi, 40.
 pileatus, 40.
 Nighthawk, 15, 68, 130, 303.
 Texan, 27, 191.
 Western, 299.
 Nonpareil, 290, 302.
 Numenius borealis, 320.
 hudsonicus, 264, 320.
 Numenius longirostris, 186, 320.
 tahitiensis, 12.
 Numida meleagris, 223.
 Nutcracker, Clarke's, 255, 256.
 Nuthatch, Red-breasted, 107.
 White-breasted, 133, 298.
 Nyctala acadica, 67, 88, 161, 341.
 Nyctea nyctea, 13, 341.
 Nyctiardea violacea, 96.
 Nycticorax nycticorax nævius, 136,
 264, 281.
 violaceus, 136, 281.
 OCEANITES oceanicus, 68, 87, 341.
 Oceanodroma leucorhoa, 68.
 melania, 87.
 Ochthodromus wilsonius, 229.
 Ocniscus brunnescens, 327.
 virescens, 327.
 CEdicnemus dominicensis, 226.
 Oidemia americana, 87.
 perspicillata, 87.
 Olor buccinator, 185.
 columbianus, 12.
 Olpe-Galliard, L., notice of his
 'Contributions à la faune ornitho-
 logique de l'Europe Occidentale,'
 336.
 Oporornis agilis, 78.
 Oreopeleia martinica, 119.
 martinicana, 119.
 Oriole, Arizona Hooded, 23.
 Baltimore, 246, 248, 256, 302.
 Bullock's, 23, 290.
 Orchard, 290, 302.
 Scott's, 22.
 Oroscoptes montanus, 86, 297.
 Ortalida ruficauda, 223.
 Ortyx cubanensis, 224.
 cubensis, 224.
 sonnini, 225.
 virginianus, 223, 224.
 virginianus var. cubanensis,
 224.
 Osprey, 299.
 American, 104, 189.
 Ossifraga gigantea, 3.
 Otocoris alpestris, 255, 347.
 alpestris arenicola, 124, 193.
 alpestris chrysolema, 20, 124.
 alpestris praticola, 255.
 alpestris subsp. ?, 329.
 Oven-bird, 132, 248, 296.
 Owl, Acadian, 67.
 American Barn, 189.
 American Long-eared, 189.
 Barn, 339.
 Barred, 189, 277.
 Burrowing, 189.

- Owl, Great Horned, 67, 127, 129, 247.
 Hawk, 13.
 Saw-whet, 161.
 Screech, 67, 129.
 Short-eared, 189.
 Snowy, 13, 341.
 Texan Screech, 190.
 Western Horned, 190.
- Oxyechus vociferus*, 228.
- Oyster-catcher, American, 273.
 Black, 329.
- PANDION carolinensis*, 38.
haliaetus, 38.
haliaetus carolinensis, 12, 38,
 91, 104, 189, 275, 299.
ridgwayi, 155.
- Parabuteo unicinctus harrisi, 26.
- Parakeet, Carolina, 68, 303.
- Pardalotus affinis, 249.
 assimilis, 249.
 ornatus, 249.
- Paroquet, 257.
- Partridge, Massena, 187.
 Scaled, 187.
- Parus atricapillus*, 15, 16, 102, 107,
 133, 298.
atricapillus occidentalis, 86.
atricapillus septentrionalis,
 123.
atricristatus, 28, 298.
atricristatus castaneifrons, 28.
bicolor, 29, 30, 133, 245, 301.
bicolor texensis, 29.
britannicus, 65.
carolinensis, 133, 245, 298,
 301.
gambeli, 88, 123, 125.
hudsonicus, 13, 15, 16, 102,
 107, 261.
palustris dresseri, 64.
stoneyi, 336.
- Passer domesticus*, 60, 68, 131, 304,
 338, 360.
- Passerella iliaca*, 13, 67.
iliaca unalaschkensis, 93.
- Passerina amoena*, 205.
ciris, 290, 293, 302.
cyanea, 131, 293, 302.
versicolor pulchra, 336.
- Patagioenas caribaea*, 110.
corensis, 109.
leucocephala, 109.
- Pelecanus californicus*, 87, 329.
erythrorynchus, 67, 184, 273,
 274.
fuscus, 136, 137, 138, 139, 141,
 215, 216, 218, 219, 222, 273,
 279, 280, 281.
- Pelican, Brown, 136, 137, 138, 139,
 141, 215, 216, 218, 219, 222,
 273, 279, 280, 281.
 California Brown, 329.
 White, 67, 184, 273, 274.
- Pelidna pectoralis*, 314.
pusilla, 313, 314.
schinzi, 314.
- Perdix sonoriensis*, 225.
- Pericrocotus tegimæ*, 250.
- Perisoreus canadensis*, 103, 104, 256.
 canadensis fumifrons, 12.
- Perissura carolinensis*, 112.
- Peristera jamaicensis*, 111.
 montana, 118.
- Petrel, Leach's, 68.
 Stormy, 5, 6.
 Wilson's, 68.
- Petrochelidon lunifrons*, 15, 16, 123,
 294, 304, 309.
- Peucaea astivialis bachmanii*, 292,
 302.
arizonæ, 336.
carpalis, 203.
cassini, 292.
mexicanus, 336.
ruficeps, 93.
ruficeps boucardi, 203.
- Pewee, 247.
 Western Wood, 19, 193.
 Wood, 130, 192.
- Phæbetria fuliginosa*, 3.
- Phainopepla nitens*, 86.
- Phalacrocorax dilophus*, 253.
dilophus floridanus, 136, 141,
 184, 215, 219, 274, 280, 281,
 282.
pelagicus albociliatus, 93.
pelagicus resplendens, 329.
penicillatus, 329.
- Phalaenoptilus nuttalli*, 86, 147, 148,
 191.
nuttalli californicus, 336.
nuttalli nitidus, 147, 148.
- Phalarope, Northern, 73, 78.
 Wilson's, 8, 73, 185.
- Phalaropus lobatus*, 73, 78, 90.
tricolor, 8, 185.
- Phillips, C. L., egg-laying extraordinary in *Colaptes auratus*, 346.
- Philohela minor*, 67, 73, 185, 241,
 311.
- Phœbe, 192.
 Black, 18, 102, 329.
 Say's, 18, 192.
- Phœnicopterus ruber*, 72, 185, 323.
- Phycophilus solitarius*, 318.

- Phyllopestes borealis*, 13.
Pica pica hudsonica, 124.
rustica, 62.
Picicorvus columbianus, 88, 255, 256, 341.
Picoides americanus, 104.
Picolaptes rikeri, 156.
Picus minor 62.
villusus, 303.
Pigeon, Cape, 4, 5, 6.
Passenger, 187.
Pindar, L. O., occurrence of the Evening Grosbeak in Fulton County, Kentucky, 257.
Pinicola enucleator, 14, 104, 212, 335.
enucleator canadensis, 335.
enucleator kadiaka, 336.
Pintail, 184.
Pipilo aberti, 204.
chlorurus, 204, 293.
erythrophthalmus, 131, 248, 293, 302.
fuscus mesoleucus, 123, 204, 293.
maculatus arcticus, 125, 264, 293.
maculatus megalonyx, 204, 264, 330.
Pipit, American, 297.
Sprague's, 297.
Piranga erythromelas, 131, 294, 304.
ludoviciana, 294.
rubra, 131, 294, 302.
rubra cooperi, 88.
rubiceps, 78.
Platalea ajaja, 322.
ajuga, 322.
Platt, F., notice of his 'List of the Birds of Meriden, Conn.', 154.
Plectrophenax nivalis, 67.
nivalis townsendi, 336.
Plegadis autumnalis, 97, 253, 321.
falcinellus, 322.
guarauna, 100, 322.
Pleske, T., notice of his 'Uebersicht der Säugethiere und Vögel der Kola-Halbinsel,' 61.
Plover, American Golden, 78.
Black-bellied, 186, 218, 279.
Golden, 186.
Mountain, 186.
Snowy, 8, 60, 344.
Wilson's, 137, 274, 276.
Podiceps cristatus, 68.
Podilymbus podiceps, 8, 184.
Pœcilornis sparverioides, 45.
Pœcilornis sparverius, 44.
Polioptila cærulea, 7, 131, 295, 298, 301.
plumbea, 88.
Polyborus auduboni, 50.
brasiliensis, 50.
cheriway, 27, 50, 189, 222.
tharus, 50.
vulgaris, 50.
Poocætes gramineus, 241, 242, 247, 248, 259, 260, 291.
gramineus confinis, 86, 199, 259, 260, 291.
gramineus var. confinis, 260.
Poor-will, 191.
Frosted, 147.
Porzana carolina, 90, 185, 339.
noveboracensis, 247, 339.
Prion turtur, 1.
Progne cryptoleuca, 336.
subis, 131, 294, 302.
Protonotaria citrea, 37, 164, 304.
Ptycorhamphus aleuticus, 86, 93.
Publications received, 69, 156, 251, 342.
Puffinus auduboni, 181.
borealis, 71.
creatopus, 87.
major, 71.
stricklandi, 71, 87.
Pyrocephalus rubineus mexicanus, 19, 92.
Pyrrhuloxia sinuata, 204, 293, 347.
sinuata beckhami, 347.
sinuata peninsulae, 347.
Pyrrhuloxia, Arizona, 347.
St. Lucas, 347.
QUAIL, Blue, 186, 187.
Florida, 283.
Migratory, 67.
Quiscalus infelixirostris, 96.
major, 277, 346.
purpureus, 69, 302.
quiscula, 131.
quiscula æneus, 201, 302, 303.
RAGSDALE, G. H., change of winter habitat in the Grass Finch, 259.
Rail, Clapper, 344.
King, 299.
Sora, 185.
Virginia, 67.
Yellow, 247.
Rallus coryi, 155.
elegans, 299.
longirostris crepitans, 344.
obsoletus, 90.
virginianus, 16, 67, 90, 124.

- Ralph, W. L., and Bagg, E., notice of their 'Annotated List of the Birds of Oneida County, N. Y.', 154.
 Raven, 15, 92, 188.
 American, 21, 290, 329.
 White-necked, 21, 290.
 Recurvirostra americana, 185, 232.
 Red-head, 184.
 Redpoll, Southern, 32.
 Redstart, 247, 297, 301, 353.
 American, 132.
 Black, 163.
 Red-tail, Western, 188.
 Redwing, 163.
 Regerhinus uncinatus, 47, 48.
 wilsoni, 47.
 Regulus calendula, 123, 241, 298, 306.
 satrapa, 15, 16, 103, 107, 245, 298, 306, 350.
 satrapa olivaceus, 86.
 Rhamphocinclus sanctæ-luciae, 94.
 Rhyacophilus solitarius, 318.
 Rhynchosphanes mccownii, 291.
 Ricebird, 340, 360.
 Ridgway, R., notice of his 'Description of a melanistic specimen of *Buteo latissimus* (Wils.)', 66; notice of his papers on the species of the genus *Empidonax*, 66; a singularly marked specimen of *Sphyrapicus thyroideus*, 75; notice of his 'Nomenclature of Colors for Naturalists, and Compendium of useful knowledge for Ornithologists,' 152; notice of his descriptions of new species of American birds, etc., 156; the Imperial Woodpecker (*Campetherus imperialis*) in Northern Sonora, 161; the Coppery-tailed Tropic (*Trogon ambiguus*) breeding in southern Arizona, 161; Clarke's Nutcracker (*Picicorvus columbianus*) in the Bristol Bay region, Alaska, 255; Clarke's Nutcracker from the Kowak River, Alaska, 256; Yellow-headed Blackbird (*Xanthocephalus xanthocephalus*) in Maine, 256; note on *Spizella monticola ochracea*, Brewst., 258; notice of his 'Manual of North American Birds,' 333; description of two new races of *Pyrrhuloxia sinuata* Bonap., 347; on the correct subspecific title of Baird's Wren (No. 719 b, A. O. U. Check List), 349.
 Ridgway Ornithological Club, notice of 'Bulletin' of, 251.
 Ring Ouzel, Alpine, 249.
 Northern, 249.
 Rives, W. C., Jr., Wilson's Phalarope in Rhode Island, 73.
 Road-runner, 190.
 Robin, 15, 67, 133, 163, 213, 245, 264, 298.
 Western, 298.
 Rosthramus sociabilis, 47.
 Rostrhamus hamatus, 47.
 sociabilis, 47.
 uncinatus, 48.
 Rough-leg, Ferruginous, 189.
 Rupornis magnirostris, 39.
 ridgwayi, 38.
 Rusticola minor, 311.
 Ruticilla titys, 163.
 Rynchops nigra, 137, 274.
 SAGE, J. H., another specimen of the Prothonotary Warbler in Massachusetts, 164; the Middletown, Conn., Glossy Ibis of 1850, 253.
 Salpinctes obsoletus, 123, 297.
 Saltator guadeloupensis, 95.
 Sanderling, 276, 279, 350.
 Sandpiper, Baird's, 186.
 Bartramian, 186.
 Black-bellied, 276.
 Buff-breasted, 186.
 Least, 186.
 Pectoral, 186.
 Red-backed, 276, 279.
 Solitary, 129, 186, 241, 303.
 Spotted, 14, 129, 186, 303, 340.
 Stilt, 186.
 Western, 186.
 Sapsucker, Williamson's, 191.
 Saunders, W. E., McIlwraith's 'Birds of Ontario,' 246.
 Sayles, I., the sense of smell in *Cathartes aura*, 51.
 Sayornis nigricans, 18, 192, 329.
 phœbe, 192, 247, 264.
 saya, 18, 192.
 Slater, P. L., notice of his catalogue of the Coerebidae, Tanagridæ and Icteridae, 149.
 Scolecophagus carolinus, 12, 15, 16, 264.
 cianocephalus, 23, 76, 124, 264, 291.

- Scolopax alba, 321.
 borealis, 320.
 delicata, 311.
 feda, 316.
 flavipes, 317.
 gallinago, 311.
 grisea, 312.
 haemastica, 316.
 melanoleucus, 317.
 minor, 311.
 semipalmata, 146, 316.
 wilsoni, 311.
- Scott, W. E. D., on the avi-fauna of Pinal County, with remarks on some birds of Pima and Gila Counties, Arizona, with annotations by J. A. Allen, 16, 196; some rare Florida birds, 133; the present condition of some of the bird rookeries of the Gulf coast of Florida, 135, 213, 273; another Bachman's Warbler in Florida, 348.
- Seiurus aurocapillus, 132, 180, 248, 296, 301, 352, 253.
 motacilla, 180, 248.
 noveboracensis, 7, 13, 95, 180, 181, 248, 269, 306.
 noveboracensis notabilis, 180.
- Selasphorus floressii, 339.
- Sennett, G. B., some undescribed plumages of North American birds, 24; descriptions of two new subspecies of Titmice from Texas, 28; observations in Western North Carolina mountains in 1886, 240.
- Setophaga ruticilla, 16, 95, 132, 247, 297, 301, 353.
- Shearwater, Cory's, 71.
- Shoveller, 184.
- Shrike, 77.
 White-rumped, 294, 330.
- Shufeldt, R. W., classification of the Macrochires, 80; notice of his list of his scientific writings, 155; the camera and field ornithology, 168; *Geococcyx californianus* — a correction, 254; individual variation in the skeletons of birds, and other matters, 265; notes on *Melanerpes formicivorus bairdi* in New Mexico, 345; the dermo-tensor patagii muscle, 353.
- Sialia arctica, 125, 299.
 mexicana, 125, 299.
 sialis, 133, 211, 299, 301.
- Siskin, Pine, 105.
 Sitta amurensis clara, 249.
 canadensis, 107, 269.
 carolinensis, 133, 298.
 pygmaea, 88.
- Skimmer, Black, 137, 274.
- Skuia, Giant, 1.
- Smith, H. M., the range of *Quiscalus major*, 346.
- Snipe, 163.
 Wilson's, 185, 303, 337.
- Somateria dresseri, 341.
 mollissima, 335.
 mollissima borealis, 335.
- Sparrow, Acadian Sharp-tailed, 233.
 Bachman's, 292.
 Baird's, 291.
 Belding's Marsh, 251.
 Bell's, 203.
 Black-chinned, 200.
 Black-throated, 202, 292.
 Brewer's, 292.
 Cassin's, 292.
 Chipping, 15, 131, 292, 304.
 Chippy, 247, 248.
 Clay-colored, 200, 292.
 Desert Song, 203.
 English, 60, 68, 338, 360.
 European House, 131, 304.
 Field, 131, 248, 292, 304.
 Fox, 67.
 Grasshopper, 248, 304.
 Harris's, 122, 291.
 Henslow's, 350.
 House, 360.
 Intermediate, 200, 292.
 Lincoln's, 204, 293.
 Mountain Song, 204.
 Rufous-winged, 203.
 Savannah, 237, 259, 302.
 Sharp-tailed, 232, 260.
 Song, 105, 259, 260, 293.
 Swamp, 239, 293, 302.
 Texas Field, 292.
 Tree, 122.
 Vesper, 242, 247, 248, 291.
 Western Chipping, 200, 292, 330.
 Western Grasshopper, 199, 291.
 Western Lark, 199.
 Western Savanna, 199, 291.
 Western Tree, 10, 299.
 Western Vesper, 199, 291.
 White-crowned, 200, 241, 292.
 White-throated, 15, 67, 102, 103, 105, 122, 302.

- Spatula clypeata**, 184.
Speotyto cunicularia hypogaea, 190.
Sphyrapicus ruber, 91.
 thyroideus, 75, 191.
 varius, 16, 181, 242.
Spinus lawrencei, 199.
 pinus, 88, 105, 124, 199, 284.
 psaltria, 124, 198, 291.
 psaltria arizonæ, 198.
 psaltria mexicanus, 198.
 tristis, 15, 16, 105, 124, 131,
 197, 264, 291.
Spiza americana, 180, 205, 251, 294,
 304.
Spizella atrigularis, 200.
 breweri, 93, 292.
 monticola, 11, 122, 258, 259.
 monticola ochracea, 10, 12,
 122, 258, 299.
 pallida, 93, 200, 292.
 pusilla, 131, 248, 259, 292,
 304.
 pusilla arenacea, 292.
 socialis, 15, 16, 131, 247, 248,
 264, 292, 304.
 socialis arizonæ, 124, 200,
 292, 295, 330.
Spoonbill, Roseate, 137, 138, 215,
 274, 280, 281, 304.
Squatarola helvetica, 186, 228.
Starnænas cyanocephala, 120.
Steganopus tricolor, 73.
Stejneger, L., further notes on the
 genus *Acanthis*, 30; notice of his
 paper on the Japanese Woodpeckers, 63; notice of his paper on the
 British Marsh-Tit, 64; notice of his paper, 'On *Brachyramphus*
perdix and its nearest Allies' 65; supplementary notes on the genus
Acanthis, 144; notice of his paper
 'On the status of *Synthliboramphus wumizusume* as a North
 American bird,' 155; classification
 of the Macrochires, 170; notice of
 his paper on the species of *Pardalotus*, 249; notice of his paper on
Turdus alpestris and *T. torquatus*, 249; notice of his review of
 Japanese birds, 249; the 'Proceedings'
 of the U. S. National
 Museum, 270.
Stelgidopteryx serripennis, 248, 302,
 304.
Stercorarius parasiticus, 71.
 pomarinus, 71.
Sterna anosthæta, 96.
 antillarum, 138, 274, 276, 277
Sterna forsteri, 139, 274, 278, 279.
 fuliginosa, 24.
 havelli, 278.
 hirundo, 274, 278, 350.
 maxima, 137, 138, 139, 274,
 278, 329.
 paradisea, 12, 14, 16.
 sandvicensis acuflavida, 274,
 276, 278, 279, 282.
Stone, W., a migration of Hawks
 at Germantown, Pa., 161.
Strepsilas interpres, 231, 276.
Strix pratincola, 189, 339.
Sturnella magna, 76, 242, 290, 302,
 342.
 magna neglecta, 22, 290.
 neglecta, 124.
Sula piscator, 181.
Surnia ulula, 13.
Swallow, Bank, 15, 294.
 Barn, 15, 294, 304, 309, 330.
 Cliff, 15, 294, 304, 309.
 Rough-winged, 248, 302.
 Tree, 304.
 Violet-green, 294.
 White-bellied, 15.
Swan, Trumpeter, 185.
Swift, Chimney, 15, 104, 130, 303.
Sylvania canadensis, 102, 106, 128,
 132, 269, 297, 349.
 mitrata, 128, 132, 300, 305.
 pusilla, 13, 16, 269, 297.
 pusilla pileolata, 123.
Sympemia atlantica, 147.
 semipalmata, 91, 137, 138,
 145, 146, 147, 276, 316.
 semipalmata inornata, 145,
 146.
Synthliboramphus antiquus, 155.
 wumizusume, 155.
Syrnium nebulosum, 189, 277.
 nebulosum allenii, 190,
 occidentale, 88.
TACHYCHINETA bicolor, 13, 15, 16,
 171, 304.
 thalassina, 170, 171, 265, 294.
Tanager, Louisiana, 294.
 Scarlet, 131, 294, 304.
 Summer, 131, 294, 302.
Tantalus falcinellus, 321.
 loculator, 90, 320.
 mexicanus, 99, 253.
 ruber, 321.
Tattler, Wandering, 329.
Teal, Blue-winged, 184.
 Cinnamon, 184.
 Green-winged, 184.
Tern, Arctic, 14.

- Tern, Black, 184.
 Cabot's, 274, 276, 278, 279.
 Common, 350.
 Forster's, 139, 278, 279.
 Gull-billed, 133.
 Least, 138, 276, 277.
 Royal, 137, 138, 139, 329.
 Sooty, 24.
- Tetrao virginianus, 224.
 Thalassoica antarctica, 4.
 Thalurania bicolor, 96.
 Thompson, E. E., occurrence of the Evening Grosbeak (*Coccothraustes vespertina*) at Toronto, Canada, 256.
- Thorne, P. M., additions to Mr. Drew's list of the birds of Colorado, 264.
- Thrasher, Bendire's, 68.
 Brown, 300.
 Palmer's, 68.
 Sage, 297.
- Thrush, Audubon's Hermit, 298.
 Bicknell's, 102, 103, 107.
 Brown, 78, 263.
 Dwarf Hermit, 298.
 Golden-crowned, 301, 352, 353.
 Gray-cheeked, 248, 306.
 Hermit, 15, 102, 107, 108, 298, 306, 352, 353.
 Missel, 163.
 Olive-backed, 11, 102, 107, 248, 298.
 Swainson's, 107.
 Water, 306.
 Wood, 78, 133, 263, 300.
- Thryothorus albinucha, 350.
 bairdi, 350.
 bewicki, 265, 350.
 bewicki bairdi, 297, 350.
 bewickii leucogaster, 349.
 bewickii murinus, 350.
 bewickii spirurus, 330, 350.
 bewickii var. leucogaster 349, 350.
 ludovicianus, 133, 265, 297, 301.
 martinicensis, 95.
 murinus, 350.
- Thurber, E. C., *Helminthophila leucobranchialis* in New Jersey, 349.
- Tinnunculus antillarum, 46.
 carriboearum, 46.
 dominicensis, 44.
 isabellinus, 44.
 leucophrus, 45.
- Tinnunculus phalæna, 44.
 sparverioides, 45.
 sparverius, 44, 45.
 sparverius var. antillarum, 46.
 sparverius var. dominicensis, 45.
 sparverius var. isabellinus, 44.
- Titmouse, Black-crested, 28, 298.
 Chestnut-fronted, 28.
 Texan Tufted, 29.
 Tufted, 133, 245, 301.
- Todd, L. M., a Song Sparrow wintering in eastern Maine, 260; on the westerly trend of certain fall migrants in eastern Maine, 351.
- Totanus chloropygius, 318.
 crassirostris, 146, 147.
 flavipes, 12, 16.
 himantopus, 312.
 longicauda, 319.
 macularius, 318.
 melanoleucus, 186, 317.
 semipalmatus, 316.
 solitarius, 91, 128, 129, 186, 241, 303, 318.
 speculiferus, 147.
 vociferus, 317.
- Towhee, 131, 248, 293.
 Arctic, 293.
 Cañon, 293.
 Green-tailed, 293.
 Spurred, 330.
- Townsend, C. H., list of the mid-summer birds of the Kowak River, Northern Alaska, 11.
- Treat, W. E., capture of three rare birds near Hartford, Conn., 78; *Xanthocephalus xanthocephalus* in Connecticut, 256; *Spizella pusilla* wintering near Hartford, Conn., 259.
- Tree-duck, Black-bellied, 185.
 Fulvous, 185.
- Treron permagna, 250.
- Tringa alpina, 186, 219.
 alpina pacifica, 276, 279.
 arenaria, 315.
 autumnalis, 321.
 bairdii, 186.
 bonapartei, 315.
 canutus, 88, 219, 276, 279, 315.
 ferruginea, 315.
 fuscicollis, 78, 314.
 helvetica, 227.
 himantopus, 312.

- Tringa interpres*, 231.
longicauda, 319.
macularia, 318.
maculata, 73, 96, 186, 314.
maculosa, 314.
maritima, 341.
minutilla, 12, 16, 186, 219,
 313.
pectoralis, 314.
pusilla, 313, 314.
rufescens, 319.
schinzii, 314.
semipalmata, 313.
solitaria, 318.
squatarola, 227.
subruficollis, 319.
temminckii, 314.
wilsoni, 314.
Tringites rufescens, 319.
Tringoides bartramius, 319.
macularius, 318.
Trochilus alexandri, 86, 183, 192.
calliope, 88.
colubris, 130, 191, 242, 303.
costae, 86.
rufus, 329.
Troglodytes aëdon, 353.
aëdon parkmanii, 298.
hemalis, 103, 106, 244.
hemalis pacificus, 93.
leucogastra, 349.
parvulus, 163.
Trotter, S., the significance of cer-
 tain phases in the genus *Hel-*
minthophila, 307.
Tryngites subruficollis, 186, 319.
Turdus aliciae, 13, 248, 261, 306.
aliciae bicknelli, 102, 103, 107,
 108, 261.
alpestris, 60, 249.
anomalaschkæ, 298.
anomalaschkæ auduboni, 124,
 298.
anomalaschkæ pallasi, 15, 16,
 102, 107, 108, 265, 298, 306,
 352, 353.
fuscescens, 107, 265.
iliacus, 163.
mustelinus, 67, 78, 133, 263,
 300.
swainsoni, 269.
torquatus, 60, 249.
ustulatus, 94.
ustulatus swainsonii, 11, 88,
 102, 107, 108, 125, 248, 298.
viscivorus, 163.
Turkey, Mexican, 187.
Wild, 129, 340.
Turnstone, 276.
Black, 329.
Turtur leucoptera, 115.
risoria, 120.
Tympanuchus americanus, 340.
pallidicinctus, 187.
Tyrannus dominicensis, 7, 141, 277.
tyrannus, 15, 16, 69, 130, 180,
 192, 303, 354, 356.
verticalis, 16, 122, 192.
vociferans, 17, 122.
URI *lomvia*, 158.
troile californica, 86.
troille, 158.
Urinator adamsii, 12.
imber, 184, 247.
lumme, 12, 87.
Uropsila leucogastra, 350.
Urubitinga anthracina, 42.
VANELLUS squatarolus, 227.
Vireo *altiloquus barbatulus*, 133,
 216, 219.
approximans, 180.
atricapillus, 295.
belli, 93, 264, 295, 296.
calidris, 95.
calidris barbatulus, 7.
caymanensis, 7.
flavifrons, 131, 304.
flavifrons alticola, 128.
gilvus, 295, 302.
gilvus swainsoni, 336.
huttoni, 93.
noveboracensis, 132, 149, 181,
 295, 302.
noveboracensis maynardi,
 148.
olivaceus, 16, 102, 105, 131,
 247, 264, 295, 302.
philadelphicus, 105.
solitarius, 164, 251.
solitarius alticola, 131, 164.
solitarius cassini, 88.
solitarius plumbeus, 88.
Vireo, Bell's, 295, 296.
Black-capped, 295.
Black-whiskered, 133, 216,
 219.
Key West, 148.
Mountain Solitary, 131.
Red-eyed, 102, 105, 131, 247,
 295, 302.
Warbling, 295, 302.
White-eyed, 132, 295, 302.
Yellow-throated, 131, 304.
Vireosylvia *canescens*, 178 181.
grandior, 180.
Vultur *atratus*, 51.

- Vultur aura, 50.
 Vulture, 303.
 Black, 25, 188.
 Turkey, 129, 188.
- WARBLER, Audubon's, 296.
 Bachman's, 35, 36, 165, 262, 263, 348.
 Bay-breasted, 103, 106.
 Black-and-white, 15, 128, 132, 295, 301.
 Blackburnian, 103, 106, 128, 132, 183, 301.
 Black-poll, 102, 103, 106, 248.
 Black-throated Blue, 102, 106, 128, 132.
 Black-throated Green, 15, 102, 106, 128, 132, 296.
 Blue Golden-winged, 308.
 Blue-winged Yellow, 308.
 Blue Yellow-backed, 301.
 Calaveras, 295.
 Canadian, 102, 106, 128, 132, 297, 349.
 Cape May, 221.
 Cerulean, 128, 132, 296, 306.
 Chestnut-sided, 128, 132, 306, 353.
 Connecticut, 77, 106.
 Golden, 297.
 Golden-cheeked, 296.
 Hooded, 128, 132, 300, 304.
 Kentucky, 302.
 Lutescent, 330.
 Macgillivray's, 296.
 Magnolia, 15.
 Mourning, 106, 296.
 Myrtle, 15, 296, 306.
 Nashville, 105, 297.
 Orange-crowned, 37, 296, 297, 350.
 Pine, 132, 301.
 Prairie, 133.
 Prothonotary, 37, 164, 304.
 Summer, 264.
 Swainson's, 37, 68, 262, 263, 300, 305, 347.
 Sycamore, 301.
 Tennessee, 106, 263, 296, 306, 352, 353.
 Townsend's, 183, 296, 297.
 Western, 166.
 Wilson's, 297.
 Worm-eating, 37, 128, 132, 305.
 Yellow, 296, 301.
 Yellow Palm, 241.
 Yellow-rumped, 103, 106.
 Yellow-throated, 165.
- Water-thrush, 248.
 Louisiana, 248.
- Waxwing, 259.
 Cedar, 105, 131, 244, 294.
- Wayne, A. T., *Phoenicopterus ruber* as a South Carolina bird, 72; the American Crossbill (*Loxia curvirostra minor*) in large numbers near Charleston, S.C., 287.
- Webster, F. S., a fern-eating Woodcock, 73; capture of the Razor-billed Auk at Norfolk, Virginia, 158; the Saw-whet Owl in the District of Columbia, 161.
- Wells, J. G., notice of his catalogue of the birds of Grenada, West Indies, 250.
- Whip-poor-will, 191.
- Whyte, J., object of the Shrike in impaling its prey, 77.
- Willet, 137, 138, 145, 276.
 Western, 145.
- Woodcock, American, 67, 73, 185.
- Woodpecker, American Three-toed, 104.
 Downy, 104, 130, 190, 242, 303.
 Gairdner's, 156.
 Golden-winged, 66, 68.
 Hairy, 104, 130, 242, 304.
 Imperial, 161.
 Ivory-billed, 68, 338.
 Lewis's, 183, 191.
 Nuttall's, 156, 251.
 Pileated, 68, 104, 128, 130, 248.
 Red-bellied, 191, 303.
 Red-headed, 130, 191, 193, 242, 303.
 Texan, 190.
 Yellow-bellied, 242.
 Yellow-naped, 191.
- Wren, 163.
 Baird's, 297, 349.
 Bewick's, 349.
 Cactus, 297.
 Carolina, 133, 297, 301.
 House, 306, 353.
 Long-billed Marsh, 298.
 Parkman's, 298.
 Rock, 297.
 Winter, 103, 106, 244.
- XANTHOcephalus xanthocephalus, 22, 256, 266, 267, 290, 356.
- Xenopus albolarvatus, 88.
- YELLOW-LEGS, Greater, 186.
- Yellow-throat, Maryland, 132, 239, 302.

Yellow-throat, Western, 296.
ZENAIDA amabilis, 113.
 leucoptera, 116.
 martinicana, 114.
 montana, 119.
 richardsoni, 7, 114.
 rubripes, 115.
 spadicea, 7, 114.

Zenaidura carolinensis, 112.
 macroura, 112, 121, 129, 187,
 264, 303, 329.
Zonotrichia albicollis, 15, 16, 67,
 102, 103, 105, 122, 302.
 intermedia, 12, 124, 200, 292.
 leucophrys, 200, 241, 292.
 querula, 122, 291.

ERRATA.

- Page 57, last line, for "Professor Baird" read Mr. Ridgway.
 " 128, last line, for "*Vireo flavifrons alticola*" read *Vireo solitarius alticola*.
 " 138, line 13; page 142, line 8; page 143, line 5; page 215, line 14;
 and page 220, line 36, for "*A. ruficollis tricolor*" read *A. tricolor ruficollis*.
 " 183, line 16 from bottom, for "about 240" read 253.
 " 245, lines 13 and 16, for "*Euetheia*" read *Euetheia*.
 " 271, line 4 from bottom, for "Mrs. Robert E. Stuart" read Mrs.
 Robert L. Stuart.
 " 276, footnote, for "page 22" read page 222.
 " 318, line 10, for "*Phyacophilus*" read *Rhyacophilus*.
 For other *Errata* see p. 284.