

INDEX TO VOLUME XXI.

[New generic, specific and subspecific names are printed in heavy-faced type.]

- A**CANTHIS *linaria*, 95, 392, 250.
 flammea, 95.
Acanthopneuste, 419.
 borealis, 390, 419.
Accipiter cooperi, 241, 353, 454,
 476.
 velox, 34, 239, 446, 454, 476.
 velox rufilatus, 68.
Actitis macularia, 34, 68, 241, 351,
 462, 476, 485.
Actodromas acuminata, 290.
 bairdii, 445.
 fuscomaculata, 475.
 maculata, 475.
 minutilla, 33, 445, 475.
Adams, Chas. C., notice of his
 ‘The Migration Route of Kirt-
 land’s Warbler,’ 506.
Ægialitis semipalmata, 34, 476.
 vocifera, 392.
Ægithalos, 423.
Aëronautæ melanoleucus, 69, 220,
 354, 421.
 saxatilis, 421.
Æstrelata hasitata, 383.
 hypoleuca, 8.
Agelæinæ, 421.
Agelaius phœniceus, 38, 242, 400,
 457, 479.
 phœniceus floridanus, 479.
 phœniceus neutralis, 229.
 phœniceus richmondi, 414.
Aimophila ruficeps scottii, 447.
Aix sponsa, 33, 240, 451.
Ajaia ajaja, 22–25.
Albatross, Black-footed, 9, 14, 17.
 Laysan, 8–20.
Alcedo todus, 486.
Alectrurus, 316.
Allen, Francis H., a Sanderling
 with hind toes, 79; the Great
 Gray Owl near Boston, 278.
Allen, Glover Morrill, notice of his
 ‘The Birds of New Hampshire,’
 503.
Allen, J. A., the case of *Megales-*
 tris vs. *Catharacta*, 345–348;
 Black-capped Petrel in New
 Hampshire, 383.
Allison, Andrew, the birds of West
 Baton Rouge Parish, Louisiana,
 472–484.
Alopochelidon, 93.
American Museum of Natural His-
 tory, ornithological accessions,
 408.
American Ornithologists’ Union,
 Twenty-first Congress, Secre-
 tary’s Report, 74–78; Report of
 Committee on the Protection of
 North American Birds, 97–208;
 Thirteenth Supplement to Check-
 List of North American Birds,
 411–424.
Ammodramus, 422.
 caudatus subvirgatus, 61.
 henslowii, 386.
 nelsoni, 386.
 savanna alaudinus, 72.
Ampelis cedrorum, 41, 232, 244, 459,
 481.
Amphispiza belli, 221.
 belli nevadensis, 231.
 bilineata deserticola, 427.
Anæretes, 314.
Anas boschas, 33, 247, 451.
 obscura, 247.
 obscura rubripes, 288.
 penelope, 288.
 stelleri, 412.
Anderson, Malcolm P., and Joseph
 Grinnell, notice of their Birds
 of Siskiyou Mountains, Califor-
 nia, 91.
Anhinga, 128, 451, 474.
Anhinga anhinga, 451, 474.
Ani, 79.
Anorthura, 92, 423.
Anser albifrons gambeli, 474.
Anthus pensylvanicus, 361, 461, 483.
 spraguei, 291, 483.
Antrostomus carolinensis, 455, 478.
 vociferus, 36, 84, 241, 278,
 455.

- Aphelocoma californica*, 73.
woodhousei, 355.
- Aquila chrysaëtos*, 353.
- Archibuteo lagopus sancti-johannis*, 477.
- Ardea herodias*, 33, 223, 240, 445, 452, 474.
herodias wardi, 263.
occidentalis, 260–262.
- Ardetta exilis*, 85, 240, 260, 452.
- Arenaria melanopephala*, 218.
morinella, 34.
- Arnold, Edward, another nest of Kirtland's Warbler, 487.
- Arnow, Isaac F., Holbeck's Grebe and the White Pelican at St. Mary's, Georgia, 277; capture of Krider's Hawk at St. Mary's Georgia, 277.
- Arrigona degli Oddi, E., notice of his 'Manuale d'Ornitologia Italiana,' 396.
- Arundinicola*, 315, 316.
- Asio accipitrinus*, 477.
magellanicus, 304.
magellanicus algistus, 305.
magellanicus elachistus, 304.
magellanicus heterocnemis, 304.
magellanicus icelus, 304.
magellanicus lagophonus, 304.
magellanicus occidentalis, 305.
magellanicus pacificus, 304.
magellanicus pallescens, 304.
magellanicus saturatus, 304.
magellanicus virginianus, 305.
magellanicus wapacuthu, 305.
- Association of Wild Animal Photographers proposed, 410.
- Astragalinus lawrencei*, 73.
psaltria, 69, 72, 357, 415.
psaltria hesperophilus, 414.
psaltria mexicanus, 415.
tristis, 38, 230, 238, 458.
tristis salicamans, 69.
- Asyndesmus torquatus*, 228, 446.
- Attwater, H. P., notice of his 'Boll Weevils and Birds,' 308.
- Audubon, John James, unpublished letters of, 257–259; extracts from unpublished journal of, 334–338.
- Audubon Societies, report on work of, 97–208; map of States hav-
- ing, 99; in relation to the farmer, 309.
- Auklet, Cassin's, 222, 429.
- Auriparus, 423.
- Avicultural Magazine, Vol. I, N. S., notice of, 95.
- Aythia, 420.
affinis, 247, 287, 451.
collaris, 451, 474.
marila, 247, 391, 451.
vallisneria, 288.
- Bæolophus bicolor*, 239, 461, 484.
inornatus griseus, 362, 448.
inornatus murinus, 93.
inornatus restrictus, 93, 418.
- Bailey, Florence Merriam, notice of her 'Handbook of Birds of the Western United States,' second edition, 299; additional notes on the birds of the Upper Pecos, 349–363; Scott Oriole, Gray Vireo, and Phoebe in northeastern New Mexico, 392; additions to Mitchell's list of 'The Summer Birds of San Miguel, New Mexico,' 443–449.
- Baily, William L., Henslow's Sparrow in Munroe County, Pa., 486.
- Baird, Spencer F., unpublished letter of, 256.
- Baldpate, 247, 291, 451.
- Baldwin, Roger N., a Chewink in winter at Ashland, Mass., 282.
- Bangs, Outram, notice of his paper on birds from Honduras, 404.
- Bartramia longicauda, 34, 84, 240, 453, 477, 493.
- Bartsch, Paul, notice of his 'Notes on the Herons of the District of Columbia,' 402.
- Basileuterus culicivorus*, 417.
culicivorus brasheri, 417.
- Bécassine sakhaline, 51.
- Beebe, C. William, breeding of Lawrence Warbler in New York City, 387.
- Bellona, 485.
- Bent, A. C., nesting habits of the Florida Herodiones, 20–29, 259–270.
- Bent, A. C., and H. K. Job, report on bird protection in Monroe Co., Fla., 128–130.
- Bergtold, W. H., White-winged Scoter in Colorado, 78.

- Biological Survey, ornithological work of, in 1903, 407.
- Bird, Egg, 127.
- Indigo, 340, 343.
 - Man-o'-War, 126, 129.
 - Yellow-billed Tropic, 391.
- Bird protection in North America, report on, for 1903, 97-208.
- Bittern, American, 33, 240, 259, 451, 493.
- Least, 85, 240, 260, 452.
- Blacicus cinereus, 320.
- Blackbird, Brewer's, 69, 230.
- Red-winged, 38, 242, 457, 479.
 - Rusty, 48, 247, 457, 478.
 - San Diego Red-winged, 229.
 - Yellow-headed, 37, 447.
- Blain, Alexander W., Jr., Holboell's Grebe at Niagara Falls, 276.
- Blake, Francis G., and Maurice C., a winter record for the Hermit Thrush (*Hylocichla guttata pallassi*) in Eastern Massachusetts, 283; unusual records near Boston, Mass., 391.
- Bluebird, 44, 145, 239, 285, 287, 343, 390, 484.
- Chestnut-backed, 363, 444.
 - Mountain, 71, 363, 444.
- Boardman, George A., memoir of, noticed, 397.
- Boardman, Samuel Lane, notice of his 'The Naturalist of the St. Croix,' a memoir of George A. Boardman, 397.
- Bobolink, 37, 59, 242, 457, 479, 486, 502.
- Bob-white, 237, 453, 476, 509.
- Masked, 209-213.
- Bonasa umbellus, 237.
- umbellus togata, 34.
- Botaurus lentiginosus, 33, 259, 451.
- Botha, 80.
- difficilis, 80.
- Bothus, 80.
- Bowdish, B. S., an abnormal bill of *Melanerpes portoricensis*, 53-55; mortality among young birds, due to excessive rains, 284.
- Bownan, Charles W., Nelson's Sharp-tailed Sparrow in North Dakota, 385.
- Braislins, William C., notes on certain birds of Long Island, N. Y., 287-289.
- Brant, 289.
- Branta bernicla, 289.
- canadensis, 33, 247, 451.
- Brenninger, George F., San Clemente Island and its birds, 218-223.
- Brooks, Allan, British Columbia notes, 289-291.
- Brown, C. Emerson, the Evening Grosbeak at Beverly, Mass., 385.
- Brown, Herbert, Masked Bob-white (*Colinus ridgwayi*), 209-213.
- Brownson, W. H., Myrtle Warblers wintering in Maine, 388-390.
- Bryant, Owen, peculiar nesting-site of the Bluebird in the Bermudas, 390; dates of nesting of Bermuda birds, 391.
- Bubo virginianus, 237, 455.
- virginianus lagophonus, 228.
 - virginianus pallidescens, 353.
- Budytes flavus alascanus, 93, 417.
- flavus leucocephalus, 417.
- Bufflehead, 247.
- Bunting, Indigo, 40, 46, 243, 340, 458, 481.
- Lazuli, 231.
 - Painted, 458, 481.
 - Snow, 286, 493.
- Buphagus, 347.
- Burnett, L. E., Whip-poor-will (*Antrostomus vociferus*), a new bird for Colorado, 278.
- Burton, W. R., report by, on bird protection in Florida, 125.
- Bush-Tit, Lead-colored, 362, 444, 449.
- Buteo borealis, 34, 239, 454, 476.
- borealis calurus, 73, 220, 228, 353.
 - borealis harlani, 477.
 - borealis krideri, 277.
 - lineatus, 34, 239, 477.
 - lineatus allenii, 454.
 - platypterus, 237, 454.
- Butorides virescens, 240, 269, 452, 475.
- Butterfield, W. Ruskin, the Spotted Sandpiper in Kent, England, 485.
- Buturlin, S. A., the correct name of the Pacific Dunlin, 50-53; a preoccupied generic name, 80.
- Buzzard, Turkey, 241.
- CAILLE, Black, 144.
- Speckled, 144.
- Calamospiza melanocorys, 448.
- Calidris arenaria, 34, 79, 222.
- Callipepla squamata, 446.
- Campephilus principalis, 455.
- Campylorhynchus couesi, 417.
- Canachites canadensis canace, 34.

- Canvas-back, 288.
Capsiempis, 318.
 Cardinal, 84, 145, 238, 391, 458.
 Louisiana, 480.
Cardinalis cardinalis, 84, 238, 391,
 458.
 cardinalis magnirostris, 480.
Carduelis carduelis, 391.
Carpodacus cassini, 69, 357, 447.
 frontalis clementae, 221.
 mexicanus frontalis, 69, 357,
 440.
 purpureus, 38, 240.
 purpureus californicus, 69.
Cassinia, for 1903, noticed, 396.
Cataracta, 346, 347.
Cataractes, 346, 347.
Cataractes, 346, 347.
Catarracta, 345, 346, 347.
Catarrachtes, 346.
Catarractes, 346.
 chrysocome, 346.
 demursus, 346.
Catbird, 43, 144, 232, 246, 286, 340,
 391, 461, 483.
Catharacta, 345, 347.
 cepphus, 347.
 skua, 347.
Cathartista urubu, 454, 470, 476.
Catharractes, 346.
Cathartes aura, 34, 228, 241, 352,
 453, 471, 476.
Catherpes mexicanus polioptilus,
 423.
 mexicanus punctulatus, 71,
 232.
Cedarbird, 244.
Centrocercus urophasianus, 227.
Centronyx, 422.
Centurus carolinus, 250, 455, 466,
 478.
Ceophlœus pileatus, 238, 278, 455,
 463, 478.
 pileatus abieticulus, 35, 68,
 72, 79.
Cephus columba, 430.
Certhia familiaris americanus, 44,
 240, 461.
 familiaris montana, 361.
 familiaris zelotes, 71, 72.
Ceryle alcyon, 35, 72, 228, 241, 306,
 353, 455, 477.
Chætura pelagica, 36, 241, 456,
 478.
Chamæa fasciata rufula, 93.
Chamæidæ, 419.
Chamæinæ, 419.
Chapman, Frank M., notice of his
- 'Color Key to North American Birds,' 296; notice of his ornithological expedition to Florida and the Bahamas, 408.
Charadrius dominicus fulvus, 290.
 squatarola, 79, 85.
Charitonetta albeola, 247, 392.
Chat, Yellow-breasted, 3, 45, 245,
 340, 461, 483.
 Long tailed, 232, 444, 448.
Chen hyperborea nivalis, 288.
Chewink, 243, 282, 338.
Chickadee, Black-capped, 44, 62,
 239, 493.
 Carolina, 239, 461, 484.
 Chestnut-backed, 364-382.
 Chestnut-sided, 365.
 Hudsonian, 57, 62, 493.
 Long-tailed, 362, 449.
 Marin, 365.
 Mountain, 71, 362, 444.
 Oregon, 233.
 Santa Cruz, 365, 374.
 Turner's 418.
Chicken, Prairie, 136.
Childs, John Lewis, Curlew Sandpiper in New Jersey, 485.
Chlorura, 422.
Chlorurus, 422.
Chondestes grammacus, 243, 281.
 grammacus strigatus, 230.
Chordeiles virginianus, 36, 241,
 456, 478.
 virginianus chapmani, 478.
 virginianus henryi, 228, 354.
Chrotophaga ani, 79.
Chrysocantor, 422.
Chrysolampis, 485. •
Chuck-will's-widow, 338, 455, 478.
Cinclus mexicanus, 71, 361.
Circus hudsonius, 34, 454, 476.
Cistothorus palustris dissaeptus,
 423.
 stellaris, 43, 461, 484.
Clangula clangula americana, 247.
Clark, Josiah, H., Curve-billed and Palmer's Thrashers, 214-217.
Cnipelegus, 318.
Coccycus americanus, 241, 455,
 477.
 erythrophthalmus, 35, 241,
 455.
Cock, Chaparral, 86.
Code of Botanical Nomenclature,
 notice of, 404.
Colaptes auratus, 241, 384, 455,
 467, 478.
 auratus luteus, 36.

- Colaptes cafer collaris, 69, 72, 228, 354.
Colinus ridgwayi, 209-213.
 virginianus, 237, 453, 476, 509.
 virginianus floridanus, 453.
Collyrio excubitoroides, 5.
Columba fasciata, 68, 352, 446.
Columbigallina passerina terrestris, 453.
Colymbus auritus, 85.
 holbœllii, 31, 276, 277, 383.
Compsothlypis americana, 244, 460.
 americana ramalinae, 482.
 americana usneæ, 41.
 nigrilora, 416.
 pitayuma nigrilora, 416.
Conopias, 320, 321.
Contopus, 348.
 Contopus, 348.
 borealis, 72.
 richardsoni, 69, 72, 355, 447.
 virens, 37, 242, 457, 478.
Cooke, Wells W., the effect of altitude on bird migration, 338-341; notice of his 'Some New Facts about the Migration of Birds,' 501.
Coot, American, 250, 452.
Copurus, 315, 316.
Cormorant, Baird's, 219, 438.
 Brandt's, 219, 437.
 Double-crested, 151, 295.
Farallon, 436.
Florida, 128.
Mexican, 295.
Corvus americanus, 37, 229, 238, 279, 356, 413.
 brachyrhynchos, 413, 447, 457, 478.
 brachyrhynchos pascuus, 414.
 corax principalis, 238, 491.
 corax sinuatus, 219, 220, 356, 439.
 ossifragus, 242, 478.
Coturniculus, 422.
 bairdii, 358, 387, 447.
 henslowii, 487.
 lecontei, 480.
 savannarum passerinus, 243, 399, 458, 480.
Coues, Elliott, review of his 'Key to North American Birds,' fifth edition, 292-296.
Cowbird, 37, 88, 229, 242, 457, 479.
Creeler, Brown, 44, 67, 240, 461.
 Rocky Mountain, 361.
 Sierra, 71.
Crossbill, American, 38, 61, 250, 493, 504.
 Bendire's, 357, 447.
 White-winged, 61, 281, 284, 493, 504.
Crow, American, 37, 57, 229, 238, 279, 356, 447, 457, 478.
 Clark's, 290, 356, 444.
 Fish, 242, 478.
Crymophilus fulicarius, 289.
Cryptoglaux, 412.
 acadica, 413.
 acadica scotæa, 413.
 tengmalmi richardsoni, 413.
Cuckoo, Black-billed, 35, 241, 455.
 Yellow-billed, 241, 340, 455, 477.
Cummings, Emma G., see Richards, Harriet E.
Curlew, Eskimo, 289.
 Hudsonian, 222.
 Long-billed, 445.
Currier, Edmonde S., summer birds of the Leech Lake region, Minnesota, 29-44.
Cyanocephalus cyanocephalus, 356.
Cyanocitta cristata, 37, 238, 478.
 cristata florincola, 457.
 stelleri diademata, 355.
 stelleri frontalis, 69, 72.
Cyanospiza amœna, 70, 231.
 ciris, 458, 481.
 cyanea, 40, 243, 458, 481.
Cyrtonyx montezumæ, 40.

DAFILA acuta, 247, 451.
Dawson, William Leon, notice of his 'The Birds of Ohio,' 297-299.
Deane, Ruthven, unpublished letters of John James Audubon and Spencer F. Baird, 255-259; extracts from an unpublished journal of John James Audubon, 334-338.
Delaware Valley Ornithological Club, Proceedings of, noticed, 396.
Dendragapus obscurus, 351.
 obscurus sierræ, 412.
Dendroica æstiva, 41, 232, 244, 460, 483.
 æstiva brewsteri, 423.
 æstiva morcomi, 70, 72.
 auduboni, 70, 72, 360.
 blackburniæ, 245.
 cærulea, 416.
 cærulescens, 41, 244.
 castanea, 248.

- Dendroica cerulea, 416.
 coronata, 248, 388, 460, 483.
 discolor, 245, 461, 483.
 dominica, 460.
 dominica albilora, 42.
 kirtlandi, 83, 291, 487, 506.
 maculosa, 41, 235, 245.
 nigrescens, 70, 448.
 occidentalis, 71, 72.
 palmarum, 248, 460.
 palmarum hypochrysea, 461.
 pennsylvanica, 42, 236, 245.
 rara, 245, 416.
 striata, 248.
 tigrina, 41, 248, 489.
 vigorsi, 41, 245, 460.
 virens, 86, 245, 483.
- Dewetia**, 80.
- Dickcissel, 401, 481, 487.
- Dilopholiceus, 295.
- Diomedea demersa, 346.
 immutabilis, 8-20.
 nigripes, 9, 14, 19.
- Dionne, C. E., the Evening Grosbeak near Quebec, Canada, 280.
- Diplochelidon, 93.
- Dolichonyx oryzivorus, 37, 242, 399,
 400, 457, 479, 486.
- Dove, Ground, 453.
 Mourning, 68, 171, 227, 239,
 352, 453, 476.
- Dowitcher, Long-billed, 33.
- Dryobates pubescens, 455, 468, 477.
 pubescens gairdneri, 228.
 pubescens medianus, 35,
 238.
 pubescens turati, 68.
 villosus, 237.
 villosus auduboni, 455, 477.
 villosus hyloscopus, 68.
 villosus leucomelas, 35.
 villosus monticola, 353.
- Duck, American Scaup, 247, 451.
 Black, 58, 149, 156, 247, 288,
 493.
 Buffelhead, 247, 392.
 Canvas-back, 288.
 Eider, 149, 150, 151, 152, 162.
 Goldeneye, 247.
 Lesser Scaup, 247, 287, 451.
 Old-squaw, 247.
 Pintail, 247.
 Red-legged Black, 288.
 Ring-necked, 451, 474.
 Wood, 33, 240, 451, 493.
- Dunlin, 290.
- Dutcher, William, report of the
- A. O. U. Committee on the Protection of North American Birds for the year 1903, 97-208; the Pine Grosbeak on Long Island, N. Y., 281.
- Dwight, Jonathan, Jr., the exaltation of the subspecies, 64-66; occurrence of the Knot (*Tringa canutus*) at San Diego, California, 78; the rapidity of the wing-beats of birds, 286; a method of obtaining temporary stability in names, 406.
- EAGLE**, Bald, 219, 250, 446, 454.
 Golden, 353.
- Eaton, Elon Howard, spring bird migrations of 1903, 341-345.
- Ectopistes migratorius, 250.
- Egret, American, 128, 129, 264, 402,
 452.
- Egretta candidissima, 261, 452.
- Eider, American, 147.
- Eifrig, G., birds of Alleghany and Garrett Counties, western Maryland, 234-250.
- Elainea, 314, 315.
- Elaineinæ, 318, 321.
- Elanus glaucus, 420.
 leucurus, 68, 420.
- Elanoides forficatus, 454.
- Elrod, Morton J., notice of his 'The Relation of Birds to Agriculture,' 509.
- Empidias, 421.
 phœbe, 421.
- Empidonax acadicus, 247.
 alnorum, 242.
 canescens, 80, 413.
 difficilis, 69, 229, 355.
 flaviventris, 457.
 griseus, 80, 413.
 hammondi, 72.
 minimus, 37, 242.
 traillii, 37, 302.
 traillii alnorum, 59, 457.
 virescens, 478.
 wrighti, 69.
- Empidonotus, 315, 317.
- Eniconta, 412.
- Ereunetes pusillus, 33, 476.
- Erolia ferruginea, 485.
- Eulampus, 485, 486.
- Euphagus, 414.
 carolinus, 414, 457, 479.
 cyanocephalus, 414.
- Euscarthmínæ, 316, 318, 321.

- Euscarthmus, 314.
 Euspiza americana, 401.
 Evans, A. H., notice of his 'Turner on Birds,' 306.
FALCO columbarius, 34, 454, 477.
 glaucus, 420.
 islandus, 290.
 mexicanus, 220, 290.
 sparverius, 35, 239, 454, 477.
 sparverius deserticulus, 68.
 sparverius phalœna, 228, 353.
Falcon, Prairie, 228, 353.
Fannin, John, obituary of, 510.
Finch, Acadian Sharp-tailed, 61.
 California Purple, 69.
 Cassin's Purple, 69, 240, 357,
 447.
 House, 69, 357, 440.
 Lazuli, 70.
 Pine, 357, 392, 447.
 Purple, 38, 61, 343.
 San Clemente House, 221.
 Sharp-tailed,
Fisher, A. K., In Memoriam, Thomas McIlwraith, 1-7.
Fisher, Walter K., on the habits of the Laysan Albatross, 8-20; notice of his Birds of Laysan and the Leeward Islands, 90.
Fisher, William H., the Pileated Woodpecker in Anne Arundel County, Md., 278.
Flicker, 171, 241, 384, 455, 467, 478.
 Northern, 36, 57.
 Red-shafted, 69, 228, 354.
Florida cærulea, 268, 452, 475.
Flycatcher, Acadian, 247.
 Alder, 59, 242, 457.
 Arkansas, 73.
 Ash-throated, 73, 229, 355, 447.
 Crested, 36, 456, 478.
 Great Crested, 242, 340, 343.
 Green-crested, 478.
 Least, 37, 242.
 Olive-sided, 36, 49, 338, 355,
 447.
 Traill's, 37.
 Vermilion, 457.
 Western, 69, 229, 355.
 Wright's, 69.
 Yellow-bellied, 457, 492.
Forbush, Edward Howe, notice of his 'Two Years with the Birds on a Farm,' 308; notice of his 'The Destruction of Birds by the Elements in 1903-04,' 507.
Foster, Lyman S., obituary of, 312.
Fringilla flammea, 95.
 linaria, 95.
Fuertes, Louis Agassiz, the Evening Grosbeak in Central New York in April, 385.
Fulica americana, 250, 452.
Fute, English, 289.
GALEOSCOPTES carolinensis, 43, 232, 246, 391, 461, 483.
Gallinago delicata, 239, 391, 453,
 475.
Gallinula galeata, 452.
Gallinule, Florida, 452.
 Purple, 452.
Game laws, summary of, for 1903,
 309.
Gannet, 391.
Gano, Laura, the Bachman Sparrow (*Peucaea aestivalis bachmanii*) in the vicinity of Cincinnati, Ohio, 82.
Gavia arctica, 419.
 imber, 32, 249.
 lumme, 249.
Geococcyx californianus, 86.
Geothlypis formosa, 248, 483.
 philadelphica, 42.
 tolmiei, 71, 232, 360, 448.
 trichas, 245, 287, 461.
 trichas ignota, 483.
 trichas occidentalis, 43, 232.
Gnat-catcher, Blue-gray, 246, 340,
 462, 484.
Godwit, Hudsonian, 79, 85.
Goldeneye, 247.
Goldfinch, American, 38, 230, 238,
 458.
 Arkansas, 69, 357, 444.
 European, 391.
 Green-backed, 414.
 Willow, 69.
Goose, American White-fronted,
 474.
 Canada, 33, 451.
 Greater Snow, 288.
Gorfou, 346.
Grackle, Bronzed, 38, 480.
 Florida, 457.
 Purple, 242, 479.
 Rusty, 58, 457, 479.
Grasset, Black, 144.
 Green, 144.
Grebe, Holboell's, 31, 276, 277, 383,
 493.
 Horned, 85, 493.

- Grebe, Pied-billed, 246, 451.
 Grinnell, Joseph, the status of *Melospiza lincolni striata* Brewster, 274-276; the origin and distribution of the Chestnut-backed Chickadee, 364-382; European Widgeon in Southern California, 383. See also Anderson, Malcolm P.
- Grosbeak, Black-headed, 70, 231, 359, 444.
 Blue, 338, 458, 481.
 Evening, 81, 82, 280, 385.
 Pine, 60, 280, 281, 287, 493.
 Rocky Mountain Pine, 357.
 Rose-breasted, 40, 48, 243, 341, 458, 481.
 Western Blue, 359, 448.
 Western Evening, 69, 357, 447.
- Grouse, Canadian Ruffed, 34.
 Canadian Spruce, 34.
 Columbian Sharp-tailed, 227.
 Dusky, 351, 444.
 Ruffed, 136, 237.
 Sierra, 408, 412.
- Guara alba, 25-27.
 Guillemot, Pigeon, 430.
 Guiraca cærulea, 458, 481.
 cærulea lazula, 359, 448.
- Gull, Black-backed, 58.
 Bonaparte's, 84, 137, 249, 391.
 California, 219.
 Franklin's, 32.
 Glaucous-winged, 219.
 Heermann's 219.
 Herring, 32, 57, 149, 151, 153, 163, 249, 286, 493.
 Ice, 58.
 Laughing, 85, 129, 149, 154, 179, 474.
 Mackerel, 58.
 Point Barrow, 289.
 Ring-billed, 474.
 Skua, 347.
 Western, 219, 434-436.
- Gygis alba, 109.
 Gyrfalcon, White, 290.
- HÆMATOPUS bachmani, 222.
 Haliæetus leucocephalus, 219, 250, 353, 446, 454.
 Hapalocercus, 314.
 Harelda hyemalis, 247, 451.
 Harporhynchus curvirostris, 214-217.
 curvirostris palmeri, 214-217.
- Hartert, Ernst, notice of his 'Die Vögel der palaearktischen Fauna,' Heft I, 94; *ibid.*, Heft II, 505.
- Hawk, American Rough-legged, 477.
 American Sparrow, 35, 454, 477.
 Broad-winged, 237, 342, 343, 454.
 Cooper's, 241, 342, 353, 454, 476.
 Desert Sparrow, 68, 228, 353.
 Duck, 220, 290.
 Fish, 152, 219, 250.
 Florida Red-shouldered, 454.
 Harlan's, 477.
 Kriider's, 277.
 Marsh, 34, 342, 454, 476.
 Pigeon, 34, 342, 454, 477.
 Red-shouldered, 34, 239, 342, 477.
 Red-tailed, 34, 239, 342, 454, 476.
 Sharp-shinned, 34, 239, 342, 343, 446, 454, 476.
 Sparrow, 239.
 Western Red-tailed, 220, 228, 353.
 Western Sharp-shinned, 68.
- Heleodetes brunneicapillus, 417.
 brunneicapillus anthonyi, 423.
 brunneicapillus couesi, 417.
- Heller, Edmund, see Snodgrass, Robert E.
- Helme, A. H., the Western Meadowlark (*Sturnella magna neglecta*) in southern Georgia, 280; the Pine Grosbeak on Long Island, N. Y., 280; the Ipswich Sparrow, Kirtland's Warbler, and Sprague's Pipit in Georgia, 291.
- Helminthophila bachmani, 460, 482.
 celata, 360, 448, 482.
 celata lutescens, 360, 448.
 chrysoptera, 236, 244, 399.
 lawrencei, 387.
 peregrina, 248, 489.
 pinus, 388.
 rubricapilla, 248.
 rubricapilla gutturalis, 70, 72.
 virginiae, 360.
- Helmitheros vermivorus, 244, 482.
 Helodromas solitarius, 247, 453.
 solitarius cinnamomeus, 445.

- Hemitriccus diops, 314.
 Henderson, Junius, the Bobolink in Colorado, 486.
 Henninger, W. F., another Ohio record for the Knot (*Tringa canutus*), 277.
 Hen, Sage, 227.
 Henshaw, Henry W., report on bird protection in Hawaii, 134.
 Herodias egretta, 264, 452.
 Heron, Black-crowned Night, 249, 269, 402, 452.
 Great Blue, 33, 156, 223, 240, 343, 445, 452, 474.
 Great White, 129, 260-262.
 Green, 46, 240, 269, 402, 452, 474.
 Little Blue, 128, 129, 268, 402, 452, 475.
 Louisiana, 128, 129, 130, 266-268, 452.
 Night, 46, 148, 170.
 Snowy, 129, 265, 402, 452.
 Ward's, 129, 263.
 Yellow-crowned Night, 269, 475.
 Hesperiphona vespertina, 82, 280, 385.
 vespertina montana, 357, 447.
 Heteractitis brevipes, 52.
 Hirundo erythrogaster, 231, 243, 360, 448, 481.
 euchrysea, 93.
 fucata, 93.
 viridis, 337.
 Hoffmann, Ralph, notice of his 'Guide to the Birds of New England and Eastern New York,' 393.
 Hollister, N., see Kumlien, L.
 Homer, Fred. A., report on the Terns of Penikese Island, 169.
 Hoopes, Josiah, obituary of, 311.
 Hornaday, W. T., notice of his 'The American Natural History,' 394.
 Howe, Reginald Heber, Jr., the Ani in Florida, 79; the Red-backed Sandpiper in Massachusetts in December, 277; a correction, 286; Audubon's 'Ornithological Biography,' 286; what has happened to the Martins? 387; Killdeers at Allen's Harbor, R. I., 485.
 Hummingbird, Black-chinned, 228.
 Broad-tailed, 354.
 Hummingbird, Caliope, 69, 355, 446.
 Ruby-throated, 36, 340, 342, 456, 478.
 Rufous, 354, 446.
 Hunt, Chreswell J., how an abnormal growth of bill was caused, 384; Henslow's Sparrow in Chester County, Pa., 386.
 Hydranassa tricolor ruficollis, 266-268, 452.
 Hydrochelidon nigra surinamensis, 32, 85, 249, 445.
 Hylocichla aliciae, 44, 248, 483.
 aonalaschkæ sequoiensis, 71, 72.
 fuscescens, 44, 246, 483.
 guttata auduboni, 303.
 guttata pallasi, 44, 235, 246, 283, 287, 392, 462, 484.
 mustelina, 246, 462, 483.
 sequoiensis, 72.
 ustulata, 233.
 ustulata swainsonii, 248.
 ustulata almae, 302.
 IBIS, Glossy, 21, 29.
 White, 25-27, 128, 130.
 Wood, 27-29, 128, 451.
 Icteria virens, 245, 461, 483.
 virens longicauda, 232, 448.
 Icterinæ, 421.
 Icterus auduboni, 414.
 bullocki, 73, 230.
 galbula, 38, 242, 457, 479.
 melanocephalus, 414.
 melanocephalus audubonii, 414.
 spurius, 457, 479.
 spurius affinis, 422.
 Ictinia mississippiensis, 454, 476.
 Ihering, H. von, the biology of the Tyrannidae with respect to their systematic arrangement, 313-322.
 International Catalogue of Scientific Literature, review of zoological volume for 1901, 494-501.
 Ionornis martinica, 452.
 Iridoprocne bicolor, 459, 481.
 Ixoreus, 424.
 JACK, Whiskey, 57.
 Jacobs, J. Warren, notice of his 'The Haunts of the Golden-winged Warbler,' 399.
 Jaeger, Parasitic, 284.
 Jay, Arizona, 295.
 Blue, 37, 238, 478.

- Jay, Blue-fronted, 69.
 California, 73.
 Florida Blue, 457.
 Long-crested, 355, 444.
 Piñon, 356, 444.
 Rocky Mountain, 356.
 Steller's, 295.
 Woodhouse's 355, 444.
- Job, H. K., report on protection of birds at Dry Tortugas, 126. See also Bent, A. C.
- Johnson, W. S., the Lark Sparrow in Oneida County, N. Y., 281.
- Jones, Lynds, notice of his 'Birds of Ohio,' 90.
- Judd, Sylvester D., notice of his 'Birds of a Maryland Farm,' 307; notice of his 'The Economic Value of the Bobwhite,' 509.
- Junco caniceps, 358.
 dorsalis, 358.
 hyemalis, 249.
 hyemalis carolinensis, 235, 238.
 hyemalis thurberi, 70, 72.
 montanus, 302.
- Junco, 57, 249, 343.
 Carolina, 238.
 Gray-headed, 358, 444.
 Red-backed, 358.
 Sierra, 70.
- KIENERIA, 422.
- Killdeer, 34, 241, 392, 453, 476, 485.
- King, Le Roy, occurrence of the Ruff (*Pavoncella pugnax*) and other birds in Rhode Island, 85.
- Kingbird, 36, 59, 144, 228, 242, 285, 340, 446, 456, 478.
 Arkansas, 228.
 Cassin's, 355, 446.
- Kingfisher, Belted, 35, 228, 241, 353, 455, 477.
- Kinglet, Golden-crowned, 62, 240, 362, 461.
 Ruby-crowned, 67, 71, 248, 338, 343, 362, 444, 461, 484.
 Western Golden-crowned, 71, 484.
- Kite, Everglade, 129.
 Mississippi, 454, 476.
 Swallow-tailed, 454.
 White-tailed, 68.
- Knot, 78, 277.
- Kobbé, T. W., Black-bellied Plover and Hudsonian Godwit on Long Island, N. Y., 79.
- Kopman, Henry H., bird migration phenomena in the extreme Lower Mississippi Valley, 45-50.
- Kumlien, L., and N. Hollister, notice of their 'The Birds of Wisconsin,' 301.
- LAGOPUS leucurus altipetens, 351.
- Lamprochelidon, 93.
- Lanius ludovicianus, 5, 250, 460, 482.
 ludovicianus excubitorides, 232, 448.
 ludovicianus mearnsi, 93, 416.
 ludovicianus migrans, 416.
- Lark, Dusky Horned, 229, 355.
 Island Horned, 222.
 Montezuma Horned, 447.
 Prairie Horned, 37, 81, 238.
- Larus argentatus, 32, 249, 286.
 atricilla, 85, 474.
 barrovianus, 289.
 californicus, 219.
 franklini, 32.
 glaucescens, 219.
 heermanni, 219.
 occidentalis, 219, 434-436.
 philadelphicus, 84, 249, 391.
- Legatus, 320, 321.
- Leptotila brachyptera, 420.
 fulviventris brachyptera, 420.
- Lestris, 347.
- Lichenops, 318.
- Limosa haemastica, 79, 85.
- Linnet, Redpoll, 493.
- Long, William J., review of his article 'Animal Surgery,' 88; notice of criticisms of his books in 'Science,' 409.
- Loon, 32, 249.
 Red-throated, 249, 493.
- Lophodytes cucullatus, 247, 451.
- Lophortyx californicus, 439.
 californicus vallicolus, 73.
- Loxia curvirostra americana, 506.
 curvirostra bendirei, 357, 447.
 curvirostra minor, 38, 250, 506.
 leucoptera, 281, 284.
- Lunda cirrhata, 428.
- MACHETORNIS, 315, 318.
 rixosus, 317.
- Macrorhamphus scolopaceus, 33.
- Magpie, American, 229.
 Black-billed, 355.

- Magpie, Yellow-billed, 408.
 Mallard, 33, 247, 451.
 Mareca americana, 247, 391, 451.
 penelope, 384.
 Martin, Purple, 40, 243, 360, 387,
 459, 481, 508.
 McAtee, W. F., an interesting variation in *Seiurus*, 488; Warblers and grapes, 489.
 McGregor, Richard C., notice of his paper on Philippine birds, 404.
 McIlwraith, Thomas, memorial address on, 1-7.
 Meadowlark, 242, 457.
 Southern, 479.
 Western, 222, 229, 280, 356, 448.
 Meerleche, Braune Weispunctierte, 52.
 Megalestris, 345-347.
 Megarhynchus, 315.
 Megascops asio, 237.
 asio bendirei, 73.
 asio floridanus, 455, 477.
 asio macfarlanei, 228.
 Melanerpes angustifrons, 420.
 erythrocephalus, 36, 241, 303, 455, 468, 478.
 erythrophthalmus, 303.
 formicivorus, 354.
 formicivorus aculeatus, 402.
 formicivorus angustifrons, 420.
 formicivorus bairdi, 68, 73.
 portoricensis, 53.
 Meleagris gallopavo merriami, 352, 420.
 gallopavo silvestris, 237, 453.
 Melospiza cinerea melodia, 238, 458.
 cinerea montana, 231.
 georgiana, 243, 458, 480.
 lincolni, 248, 274-276, 359.
 lincolni striata, 274-276.
 melodia, 399.
 Merganser americanus, 249.
 serrator, 246.
 Merganser, American, 249.
 Hooded, 247, 451.
 Red-breasted, 246.
 Mergus serrator, 399.
 Merula migratoria, 44, 240, 462, 484.
 migratoria propinquua, 71, 72, 222, 233, 363.
 Michigan Ornithological Club, officers of, 410.
Microlyssa, 485.
Micropalama himantopus, 85.
 Microptera, 420.
Micropterus, 420.
 Miller, Olive Thorne, notice of her 'With the Birds in Maine,' 301.
 Miller, W. D. W., report on bird protection in New Jersey, 179; breeding of the Dickcissel in New Jersey, 487.
 Millinery Merchants Protective Association, agreement with between New York Audubon Society and American Ornithologists' Union, 101-103.
 Milvulus, 316.
Mimidæ, 417.
Miminæ, 417.
Mimus polyglottos, 392, 461, 483.
 polyglottos leucoptera, 223, 448.
Mionectes rufiventris, 314.
Mitrephanes, 421.
Mniotilla varia, 244, 460.
 Mockingbird, 145, 392, 461, 483.
 Western, 223.
 Molothrus ater, 37, 229, 242, 399, 457, 479.
 Motacilla carulea, 416.
 Murre, California, 431-434.
 Muscicapa brasierii, 417.
 Muscivora, 316.
 tyrannus, 321.
 Myadestes townsendii, 362.
 Myiarchus, 316.
 cinerascens, 73, 229, 355, 413, 446.
 cinerascens nuttingi, 413.
 cooperi, 403, 456.
 crinitus, 36, 242, 478.
 crinitus residuus, 403, 421.
 mexicanus, 403.
 nuttingi, 403.
 Myiobius barbatus, 315.
 nævius, 315.
 Myiodynastes, 315, 321.
 solitarius, 321.
 Myiozetetes, 315, 316, 320, 321.
 similis, 320.
 NELSON, E. W., *Empidonax griseus*
 Brewster = *E. canescens* Salv. & Godm., 80; notice of his papers on new species of Mexican birds, 93; notice of his 'Revision of the North American Mainland Species of *Myiarchus*', 403; notice of his 'Descriptions of New Birds from Southern Mexico,' 403.
 Nettion carolinense, 249, 451.

[Auk
Oct.]

- Nichols, John Treadwell, Black-backed Three-toed Woodpecker and Evening Grosbeak at Wellfleet, Mass., 81.
- Nighthawk, 36, 145, 241, 456, 478.
Western, 228, 354.
- Norton, A. H., report on bird protection in Maine, 147-164; notes on the protected birds on the Maine coast with relation to certain economic questions, 164-167.
- Nucifraga columbiana, 290, 356, 421.
- Numenius borealis, 289.
hudsonicus, 222.
longirostris, 445.
- Nutcracker, Clark's, 356.
- Nuthatch, Brown-headed, 286, 461.
Canada, 57.
Pigmy, 362, 444.
Red-breasted, 238, 286.
Rocky Mountain, 361, 444.
White-breasted, 44, 238.
- Nuttallornis borealis, 36, 355, 447.
- Nyctala, 412.
acadica, 84, 240.
- Nyctanassa violacea, 269, 475.
- Nyctea nyctea, 250, 392.
- Nycticorax nycticorax nævius, 249, 269, 452.
- Nyroca, 420.
- OBERHOLSER, Harry C., notice of his description of a new *Telmatornis* from Texas, 94; notice of his 'Review of the Wrens of the genus *Troglodytes*', 303; notice of his 'A Revision of the American Great Horned Owls,' 304; *Phyllopeuste* vs. *Phylloscopus*, 390.
- Oceanodroma homochroa, 436.
leucorhoa, 436.
- Oddi, see Arrigoni degli Oddi, E.
- Oidemia deglandi, 78.
- Olbiorchilus, 423.
hiemalis, 461, 484.
- Old-squaw, 247, 451.
- Oldys, Henry, the rhythmical song of the Wood Pewee, 270-274; notice of his 'Audubon Societies in their Relation to the Farmer,' 309. See also Palmer, T. S.
- Olor columbianus, 84, 249.
- Orchilus auricularis, 314.
- Oreochelidon, 93.
- Oreortyx pictus plumiferus, 68.
- Oreospiza, 422.
chlorura, 70, 359.
- Oriole, Baltimore, 38, 341, 338, 457, 479.
Bullock's 73, 230.
Orchard, 242, 457, 479.
Scott's 392.
- Ornithion cinerascens, 314.
imberbe, 314.
obsoletum, 314.
- Oroscoptes montanus, 232, 448.
- Orthorhynchus, 485.
- Osprey, 250, 454, 477.
- Otocoris alpestris, 398.
alpestris insularis, 222.
alpestris leucolæma, 355.
alpestris merrilli, 229.
alpestris occidentalis, 447.
alpestris praticola, 37, 81, 238.
- Ouzel, Water, 361.
- Oven-bird, 42, 245, 340, 461, 483.
- Owl, American Barn, 455.
Barred, 35, 237, 477.
Burrowing, 222, 228.
Florida Barred, 455.
Florida Screech, 455.
Great Gray, 278.
Great Horned, 237, 455.
MacFarlane's Screech, 228, 477.
Saw-whet, 84, 240.
Screech, 237.
Short-eared, 477.
Snowy, 392.
Western Horned, 228, 353, 446.
- Oyster-catcher, Black, 222.
- Oxyechus vociferus, 34, 241, 453, 476, 485.
- PALMER, T. S., and Henry Oldys and R. W. Williams, Jr., notice of their Summary of 'Game Laws for 1903,' 309.
- Pandion haliaetus carolinensis, 219, 250, 454, 477.
- Partridge, California, 408, 439.
Mountain, 68.
Scaled, 446.
Valley, 73.
- Parus atricapillus, 44, 239.
atricapillus occidentalis, 233.
atricapillus septentrionalis, 362, 448.
atricapillus turneri, 418.
carolinensis, 239, 461, 484.

- Parus gambeli*, 71, 72, 93, 362, 373.
hudsonicus, 365, 371, 376.
pre-hudsonicus, 368-371.
pre-hudsonicus rufescens,
 369, 374, 376.
rufescens, 304-382.
rufescens barlowi, 365, 367,
 375, 378-382.
rufescens neglectus, 365, 367,
 376, 378-381.
rufescens rufescens, 365, 376,
 377-380.
Passerulus princeps, 291.
rostratus, 223.
rostratus guttatus, 415.
rostratus halophilus, 415.
sandwichensis savanna, 458,
 480.
Passer domesticus, 391, 447.
Passerella iliaca, 248.
iliaca megarhyncha, 70.
Passerina nivalis, 250.
Paulomaugus, 423.
Pavoncella pugnax, 85.
 Pearson, Henry J., notice of his
 'Three Summers among the
 Birds of Russian Lapland,' 398.
Pediocetes phasianellus columbi-
anus, 227.
Pelecanus californicus, 219.
erythrorhynchos, 33, 277.
Pelican, American White, 33.
 Brown, 123.
 California, 219.
Pelidna alpina, 290.
alpina pacifica, 277, 290, 412.
alpina sakhalina, 412.
 Pennock, C. J., Delaware bird
 notes, 286.
Pericrocotus novus, 404.
Perisoreus canadensis capitalis, 356.
Petrel, Ashy, 436.
 Black-capped, 383.
 Bonin, 8.
 Leach's, 149, 153, 436.
Petrochelidon lunifrons, 73, 231,
 243, 360.
lunifrons melanogastra, 415.
lunifrons tachina, 415.
melanogastra, 415.
murina, 93.
Peucaea aestivalis bachmanii, 82,
 458.
cassini, 447.
Pewee, Wood, 37, 242, 270-274, 340,
 457, 478.
 Western Wood, 69, 355, 444,
 447.
Phaëthon dermersus, 346.
flavirostris, 391.
Phalacrocorax dilophus albocilia-
tus, 436.
pelagicus resplendens, 219,
 438.
penicillatus, 219, 437.
Phalaenophila nuttalli, 354.
nuttalli nitidus, 401.
Phalarope, Northern, 250, 445, 493.
 Red, 289.
 Wilson's, 33, 445.
Phalaropus lobatus, 250, 445.
Philohela, 420.
minor, 240, 384, 452, 475.
Phœbe, 36, 242, 343, 392, 456, 478.
 Black, 69, 223.
 Say's, 229, 355.
Phyllobasileus, 424.
Phyllomyias, 314.
Phyllopestes, 390, 419.
borealis, 390, 419.
Phylloscartes, 315.
ventralis, 314.
Phylloscopus, 390.
Pica pica hudsonica, 229, 355.
Picicorvus columbianus, 421.
Picoides arcticus, 35, 81.
arcticus dorsalis, 353.
Pigeon, Band-tailed, 68, 352, 444,
 446.
 Passenger, 250.
 Sea, 149, 152, 155, 161.
Pinicola eneucleator, 287.
eneucleator canadensis, 280,
 281.
eneucleator montana, 357.
Pintail, 247, 451.
Pipilo crissalis, 73.
erythrophthalmus, 243, 282,
 458, 480.
erythrophthalmus allenii,
 458.
fuscus carolæ, 415.
fuscus crissalis, 415.
fuscus mesoleucus, 359.
maculatus atratus, 422.
maculatus megalonyx, 70,
 231, 359, 448.
Pipit, American, 47, 277, 361, 461,
 483.
 Sprague's 291, 483.
Piprinæ, 318.
Piranga erythromelas, 243, 459, 481.
hepatica, 448.
ludoviciana, 70, 231, 359, 448.
rubra, 243, 459, 481.
Pitanginæ, 318.

- Pitangus, 315, 316, 318.
 sulphuratus, 320.
- Platyrhynchinae, 318, 321.
- Platyrhynchos mystaceus, 313.
- Plegadis autumnalis, 29.
- Plover, Black-bellied, 79, 85, 218, 476.
 Golden, 502.
 Killdeer, 34.
 Mountain, 222.
 Pacific Golden, 290.
 Semipalmated, 34, 476.
 Upland, 493.
 Wilson's, 129.
- Podasocys montanus, 222.
- Podilymbus podiceps, 246, 451.
- Pœciloïdes, 93.
- Polioptila cærulea, 246, 462, 480.
- Polysticta, 412.
 stelleri, 412.
- Poæcetes gramineus, 39, 243, 458,
 480.
 gramineus confinis, 230, 358.
- Poor-will, 354.
- Porzana carolina, 33, 247, 452.
- Procelsterna saxatilis, 90.
- Progne subis, 73, 243, 360, 387, 459,
 481.
- Protonotaria citrea, 460, 482.
- Psaltriparus, 423.
 lloydii, 419.
 melanotis lloydii, 419.
 minimus saturatus, 93.
 plumbeus, 362, 448.
 santariteus, 419.
- Psarocolius cyanocephalus, 414.
- Ptarmigan, Southern White-tailed,
 351.
- Ptiliogonatidae, 415.
- Ptiliogonatinæ, 415.
- Ptychoramphus aleuticus, 222, 429.
- Puffin, 160.
 Tufted, 428.
- Puffinus borealis, 287.
- Pyrocephalus rubineus, 321.
 rubineus mexicanus, 457.
- QUERQUEDULA discors, 33, 247, 445,
 451, 474.
- Quiscalinæ, 421.
- Quiscalus quiscula, 242, 457, 479.
 quiscula æneus, 38, 480.
- RAIL, Clapper 179.
 King, 452, 475.
 Sora, 33, 247, 452.
 Virginian, 452.
- Rallus elegans, 452, 475.
- Rallus, virginianus, 452.
- Raven, 59, 219, 220, 238, 356, 439,
 491.
- Ray, Milton S., a fortnight on the
 Farallones, 425-442.
- Redpoll, 250, 392, 493.
- Redstart, American, 43, 47, 49, 62,
 246, 343, 461, 483.
- Redtail, Western, 73, 228.
- Red-wing, San Diego, 229, 444.
 Vera Cruz, 414.
- Regulus calendula, 71, 72, 248, 362,
 461, 484.
 calendula obscurus, 419.
 obscurus, 419.
 satrapa, 240, 362, 461, 484.
 satrapa olivaceus, 71.
- Rhoads, Samuel N., notice of his
 'Exit the Dickcissel,' etc., 401.
- Rhynchoscyclus, 315.
- Richards, Harriet E., and Emma G. G.
 Cummings, notice of their 'Baby
 Pathfinder to the Birds,' 395.
- Ridgway, R., notice of papers by, on
 new genera and species of Ameri-
 can birds, 93.
- Riley, J. H., on the evanescent
 ground-tint of Woodcock's eggs,
 384; note on the generic names
Bellona, *Orthorhynchus*, *Chrysolampis*, and *Eulampis*, 485; the
 proper name of the Tody of Ja-
 maica, 486.
- Riparia riparia, 244, 459.
- Road-runner, 85.
- Robin, American, 44, 57, 62, 240,
 462, 484, 491, 503.
 Western, 71, 222, 233, 363.
- Ruff, 85.
- SAGE, John H., Twenty-first Con-
 gress of the American Ornithol-
 ogists' Union, 74-78.
- Salpinctes obsoletus, 223, 232, 361,
 440-442.
- Sanderling, 34, 48, 79, 170, 222.
- Sandpiper, Baird's, 445.
 Bartramian, 34, 48, 84, 146,
 240, 453, 476, 493.
 Bonaparte's 170.
 Curlew, 485.
 Least, 33, 170, 445, 475.
 Pectoral, 475.
 Red-backed, 277.
 Semipalmated, 33, 170, 476.
 Sharp-tailed, 290.
 Solitary, 48, 170, 247, 453.

- Sandpiper, Spotted, 33, 68, 149, 170, 240, 351, 462, 476, 485.
Stilt, 85.
Western Solitary, 445.
White-rumped, 475.
- Sapsucker, Red-naped, 354.
Williamson's, 354.
Yellow-bellied, 241, 343, 455, 478.
- Sayornis, 320, 321.
nigricans, 223, 413.
nigricans semiatra, 69, 72, 413.
phœbe, 36, 223, 242, 392, 456, 478.
saya, 223, 229, 355.
- Scolecophagus carolinus, 247.
cyanocephalus, 69, 72, 230.
- Scolopax gallinago raddei, 50.
sakhalina, 50, 51, 53, 412.
- Scoter, Black, 493.
Surf, 494.
White-winged, 78, 493.
- Scotiaxptex nebulosa, 278.
- Scott, W. E. D., notice of his 'Account of rearing Wild Finches by Foster-parent Birds,' 399; notice of his paper on 'The Inheritance of Song in Passerine Birds,' 400.
- Seiurus aurocapillus, 42, 245, 461, 483.
motacilla, 236, 245, 462.
noveboracensis, 48, 236, 245, 287.
noveboracensis notabilis, 488.
- Selasphorus platycercus, 354.
rufus, 354, 446.
- Serpophaga, 314.
Serpophaginæ, 316, 348, 321.
- Seth-Smith, David, notice of his 'Parrakeats,' 96.
- Setopaga ruticilla, 43, 246, 461, 483.
- Sharpe, R. Bowdler, notice of his 'Hand-List of the Genera and Species of Birds,' Volume IV, 92.
- Shearwater, Black-vented, 219.
Cory's, 287.
- Sheppard, Edwin, obituary of, 407.
- Shoveller, 451.
- Shrike, Loggerhead, 250, 460, 482.
migrant, 416.
San Clemente, 466.
White-rumped, 232, 448.
- Shufeldt, R. W., notice of papers by, on the osteology of the Halcyones and Limicolæ, 306.
- Sialia arctica, 71, 362.
mexicana bairdi, 363.
sialis, 44, 239, 390, 462, 484.
- Sieberocitta, 295.
- Silloway, P. M., notice of his 'The Birds of Fergus County, Montana,' 302; notice of his 'Additional Notes on the Birds of Flathead Lake,' 401.
- Sirystes, 320, 321.
- Siskin, Pine, 39, 61, 69, 357, 493.
- Sisopygis, 318, 321.
- Sitta canadensis, 235, 238.
carolinensis, 44, 238.
carolinensis nelsoni, 362.
pusilla, 461.
pygmæa, 362.
- Sittidae, 418.
- Sittinæ, 418.
- Skimmer, Black, 129, 180.
- Snipe, Wilson's 239, 392, 453, 475.
- Snodgrass, Robert E., a list of land birds from central and southeastern Washington, 223-233.
- Snodgrass, Robert E., and Edmund Heller, notice of their 'Birds of the Galapagos Archipelago,' 305.
- Snow, F. H., the Black-bellied Plover, Road-runner, and Black-throated Green Warbler in Kansas, 85; two additions to the bird fauna of Kansas, 284.
- Snowbird, 249.
Carolina, 238.
- Snowflake, 250.
- Soelner, George W. H., the Pileated Woodpecker in the District of Columbia, 79.
- Solitaire, Townsend's, 362, 444.
Sora, 247, 452.
- Southwick, James M., obituary of, 511.
- Sparrow, Bachman's, 83, 458.
Baird's, 358, 447.
Bell's, 221.
Brewer's, 230, 447, 458.
Cassin's, 447.
Chipping, 39, 243, 285.
Clay-colored, 39, 447.
Desert, 447.
English, 391, 447.
Field, 243, 285, 458, 486.
Fox, 248.
Grasshopper, 243, 458, 480.
Henslow's, 386, 486, 492.

- Sparrow, House, 40.
Ipswich, 291.
Large-billed, 223.
Lark, 243, 281.
Leconte's, 480.
Lincoln's, 40, 61, 248, 358.
Mountain Song, 231.
Nelson's Sharp-tailed, 385.
Sage, 231.
San Clemente Song, 221.
Savanna, 48, 149, 151, 286, 458, 480.
Scott's, 447.
Song, 40, 57, 87, 151, 238, 458.
Swamp, 40, 48, 243, 338, 458, 480.
Thick-billed Fox, 67, 70.
Tree, 249.
Vesper, 39, 243, 480.
Western Chipping, 70, 230, 358, 444.
Western Lark, 230, 444.
Western Vesper, 230, 358.
White-crowned, 48, 67, 69, 248, 358, 444.
White-throated, 39, 57, 248, 458, 480.
Yellow-winged, 492.
Spatula clypeata, 451.
Speotyto cunicularia hypogaea, 222, 228.
Spheniscus demersus, 346.
Sphyrapicus thyroides, 354.
varius, 35, 241, 478.
varius daggetti, 72.
varius nuchalis, 354.
Spinus pinus, 39, 69, 357, 447.
Spiza americana, 481, 487.
Spizella breweri, 230, 447.
monticola, 249.
pallida, 39, 447.
pusilla, 243, 458, 480.
socialis, 39, 243, 458.
socialis arizonæ, 70, 72, 230, 358.
Spoonbill, *Roseate*, 22-25, 129, 130.
Squatarola squatarola, 218, 476.
Starling, 289.
Steganopus glacialis, 420.
tricolor, 33, 420, 445.
Stelgidopteryx serripennis, 70, 244, 481.
Stellerocitta, 295.
Stellula caliope, 69, 355, 446.
Stercorarius, 347.
parasiticus, 284.
Sterna antillarum, 124.
Sterna forsteri, 32.
hirundo, 289.
tschegrava, 84.
Stilt, Black-necked, 129.
Stockhard, Charles E., nesting habits of the Woodpeckers and the Vultures in Mississippi, 463-471.
Stone, Wittmer, Henslow's Sparrow at Bethlehem, Pa.,—a correction, 386.
Strandlauer, Bunte Sachalinsche, 52.
Strix pratincola, 455.
tengmalmi, 413.
Sturnella magna, 242, 457.
magna argutula, 479.
magna neglecta, 222, 229, 280, 356.
neglecta, 73.
Sturnellinae, 421.
Sturnus vulgaris, 289.
Sula bassana, 391.
Swales, Bradshaw H., Evening Grosbeak in Presque Isle Co., Mich., 82; a few Southern Michigan notes, 84; White-winged Crossbill, a correction, 281.
Swallow, Bank, 41, 244, 459, 503.
Barn, 231, 243, 360, 448, 481, 508.
Blue-green, 337.
Cliff, 62, 231, 243, 360, 503.
Lesser Cliff, 415.
Northern Violet-green, 360.
Rough-winged, 70, 244, 340, 481.
Tree, 41, 62, 459, 481, 508.
Violet-green, 70.
White-bellied, 337.
Swan, Whistling, 84, 249.
Swarth, Harry S., notice of his 'Birds of the Huachuca Mountains, Arizona,' 401.
Swift, Chimney, 36, 59, 241, 456, 478, 503, 508.
White-throated, 69, 220, 354.
Sylvia autumnalis, 334.
cærulea, 416.
Sympemchia semipalmata, 287.
Syrnium varium, 35, 237, 477.
varium allenii, 455.
TACHYINCINTA thalassina lepida, 360.
Tænioptera irupero, 315.
nengeta, 315.
Tæniopterinæ, 315, 318, 321.

- Tanager, Hepatic, 448.
 Louisiana, 231.
 Scarlet, 40, 243, 341, 458, 481.
 Summer, 243, 341, 459, 481.
 Western, 70, 359, 448.
- Tantalus loculator, 27-29, 451.
- Taverner, P. A., another abnormal bill, 279; a discussion of the origin of migration, 322-333; tagging young birds, 410.
- Teal, Blue-winged, 33, 247, 445, 451, 474.
 Green-winged, 249, 451.
- Telmatodytes marianæ, 417.
 palustris, 44, 423.
 palustris iliacus, 418, 423.
 palustris marianæ, 418.
 palustris thryophilus, 418.
- Tern, Arctic, 149, 156, 161.
 Black, 32, 85; 249, 445.
 Caspian, 84.
 Common, 149, 150, 151, 156, 161, 163, 164, 169, 180, 289.
 Forster's 32.
 Least, 124, 180.
 Necker Island, 90.
 Noddy, 126.
 Sooty, 126.
 Wilson's, 58.
- Thayer Fund for bird protection, report on, 97-208.
- Thayer, Gerald H., the Raven in southern New Hampshire, and other notes, 491-494.
- Thayer, John E., Holboell's Grebe in Lancaster, Mass., 383; notice of his ornithological expedition to Central America, 407.
- Thrasher, Brown, 43, 246, 338, 461, 484.
 California, 73.
 Curved-billed, 214-217.
 Palmer's 214-217.
 Sage, 232, 448.
- Thrush, Audubon's Hermit, 363, 444.
 Gray-checked, 44, 45-47, 248, 484.
 Hermit, 44, 63, 67, 246, 283, 287, 392, 484.
 Olive-backed, 45, 46, 57, 63, 248, 492.
 Russet-backed, 233.
 Sierra Hermit, 71.
 Water, see Water-Thrush.
- Wilson's, 44-45-47, 246, 484.
 Wood, 144, 246, 340, 462, 484, 492.
- Thryomanes bewickii, 26, 461, 481.
 bewickii leucogaster, 221.
 bewickii spilurus, 221.
 leucogaster, 221.
- Thryorchilus, 303.
- Thryothorus ludovicianus, 238, 461, 484.
- Titmouse, Gray, 362, 444, 44 .
 Hudson Bay, 493.
 San Francisco, 418.
 Tufted, 239, 285, 461, 484.
- Todd, W. E. Clyde, notice of his 'The Birds of Erie and Presque Isle, Erie County, Pennsylvania,' 505.
- Todirostrum cinereum, 314.
- Todus todus, 486.
 viridis, 486.
- Tody, Jamaican, 486.
- Torrey, Bradford, notice of his 'The Clerk of the Woods,' 300.
- Totanus flavipes, 247, 445.
 melanoleucus, 61.
 macularius, 485.
- Towhee, 40, 243, 458, 480.
 California, 73.
 Cañon, 359, 444.
 Green, 67.
 Green-tailed, 70, 359.
 Spurred, 67, 70, 231, 359,
 448.
 White-eyed, 459.
- Townsend, Charles W., extension of the breeding range of the Prairie Horned Lark (*Otocoris alpestris praticola*) to the Eastern Coast, 81.
- Toxostoma redivivum, 73.
 rufum, 43, 246, 461, 484.
- Tringa alpina var. americana, 53.
 alpina sakhalina, 53.
 alpina variegata, 53.
 canutus, 78, 277.
 meleagris, 52.
 variegata, 53.
 virgata, 53.
- Trochilus alexandri, 228.
 auratus, 486.
 carbunculus, 486.
 colubris, 36, 242, 456, 478.
 cyanomelas, 486.
 elatus, 486.
 exilis, 485.
 guianensis, 486.
 jugularis, 486.
 minimus, 486.
 moschitus, 486.
 mosquitus, 485, 486.

- Trochilus niger, 486.
violaceus, 486.
- Troglodytes, 423.
aëdon, 246, 461, 484.
aëdon aztecus, 43, 232, 361.
browni, 303.
hiemalis, 249.
- Trotter, Spencer, some Nova Scotia birds, 55-64.
- Trumbull, Gurdon, obituary of, 310.
- Turdus nævius, 424.
- Turkey, Merriam's, 352, 444.
 Wild, 237, 453.
- Turnstone, Black, 218.
- Ruddy, 34.
- Tyrannidae, biology of, 312-322.
- Tyranninae, 318.
- Tyranniscus, 318.
- Tyrannula cinerascens, 403.
mexicanus, 403.
- Tyrannus, 315.
albogularis, 320.
aurantioatratonotatus, 317.
melancholicus, 321.
tyrannus, 36, 228, 242, 446,
 456, 478.
verticalis, 73, 228, 446.
vociferans, 355, 446.
- URIA troile californica, 431-434.
- VIREO bellii arizonæ, 93.
flavifrons, 244, 460, 482.
gilvus, 244, 482.
gilvus swainsoni, 70, 72, 448.
huttoni cognitus, 93.
huttoni obscurus, 290.
noveboracensis, 460, 482.
olivaceus, 232, 244, 460, 482.
philadelphicus, 84, 248, 282.
solitarius, 235, 244, 482.
solitarius cassini, 70, 72, 232.
solitarius plumbeus, 360.
vicinior, 392.
- Vireo, Anthony's, 290.
 Blue-headed, 41, 49, 244, 482.
 Cassin's, 70, 232.
 Gray, 392.
 Philadelphia, 49, 84, 248, 282,
 283.
 Plumbeous, 360.
 Red-eyed, 41, 62, 144, 232, 244,
 340, 460, 482, 503.
 Solitary, 62, 341.
- Warbling, 41, 49, 244, 482.
 Western Warbling, 70, 360,
 448.
- Vireo, White-eyed, 340, 460, 482.
 Yellow-throated, 244, 340, 343,
 460, 482.
- Vulture, Black, 454, 469-471, 476.
 Turkey, 34, 228, 241, 287, 352,
 453, 471, 476.
- WAGTAIL, Alaskan Yellow, 417.
- Walton, Mason A., review of his 'A Hermit's Wild Friends,' 87-90.
- Warbler, Audubon's, 70, 360.
 Autumnal, 334.
 Bachman's, 460, 482.
 Bay-breasted, 47, 248.
 Black-and-white, 41, 48, 50,
 62, 244, 340, 460.
 Black-and-yellow, 62.
 Blackburnian, 47, 49, 245,
 338.
 Black-poll, 42, 248, 340.
 Black-throated Blue, 41, 47,
 244, 341.
 Black-throated Gray, 70, 448.
 Black-throated Green, 47, 48,
 57, 62, 85, 245, 483.
 Blue-winged, 388.
 Brasher's, 417.
 Calaveras, 70.
 Canadian, 42, 446.
 Cape May, 41, 248, 489.
 Cerulean, 48, 245.
 Chestnut-sided, 42, 47, 62,
 245.
 Golden-winged, 41, 49, 244,
 399.
 Grace's, 444.
 Hermit, 71.
 Hooded, 246, 340, 461, 483.
 Kentucky, 248, 483.
 Kirtland's, 83, 291, 487, 506.
 Lawrence's, 387.
 Lutescent, 360, 448.
 Macgillivray's, 232, 360, 448.
 Magnolia, 41, 47, 50, 245.
 Mourning, 42, 343.
 Myrtle, 62, 248, 286, 343, 388,
 460, 483.
 Nashville, 41, 62, 248.
 Northern Parula, 41, 492.
 Orange-crowned, 360, 448,
 482.
 Palm, 248, 460.
 Parula, 244, 340, 460.
 Pileolated, 71, 361, 448.
 Pine, 42, 245, 460.
 Prairie, 48, 245, 461, 483.

- Warbler, Prothonotory, 388, 460, 482.
 Summer, 57, 340.
 Sycamore, 42.
 Tennessee, 47, 50, 248, 489.
 Tolmie, 71.
 Virginia, 360.
 Western Parula, 482.
 Western Yellow, 70.
 Wilson's, 287.
 Wilson's Black-capped, 62, 248.
 Worm-eating, 244, 341, 482.
 Yellow, 41, 46, 48, 49, 50, 232, 244, 343, 444, 460.
 Yellow Palm, 62, 461, 483.
 Yellow-throated, 340, 460.
 Water-Thrush, Louisiana, 245, 462.
 Northern, 48, 245, 287, 492.
 Waxwing, Cedar, 41, 232, 459, 481.
 Wayne, Arthur T., Kirtland's Warbler (*Dendroica kirtlandi*) on the coast of South Carolina, 83.
 Wheeler, William Morton, the obligations of the student of animal behavior, 251-255.
 Wheelock, Irene Grosvenor, notice of her 'Birds of California,' 299.
 Whip-poor-will, 36, 84, 145, 241, 278, 340, 455.
 Widgeon, European, 288, 383.
 Widmann, O., Yosemite Valley birds, 66-73.
 Willet, 58, 287.
 Williams, R. W., Jr., a preliminary list of the birds of Leon County, Florida, 449-462.
 Wilsonia canadensis, 43, 235, 246.
 mitrata, 246, 461, 483.
 pusilla, 248, 287.
 pusilla pileolata, 71, 361, 448.
 Wood, J. Claire, another nest of the Philadelphia Vireo, 282.
 Wood, Norman A., notice of his 'Discovery of the Breeding Area of Kirtland's Warbler, 506.
 Woodcock, American, 89, 240, 384, 452, 475.
 Woodpecker, Alpine Three-toed, 353.
 American Three-toed, 35.
 Ant-eating, 354.
 Black-backed Three-toed, 81.
 Cabanis's, 68.
 California, 68.
 Downy, 35, 238, 455, 468, 477.
 Gairdner's 228.
- Woodpecker, Hairy, 237.
 Ivory-billed, 455.
 Lewis's, 228, 444, 446.
 Northern Hairy, 35.
 Northern Pileated, 35, 68, 493.
 Pileated, 67, 79, 238, 278, 455, 463-466, 478.
 Porto Rican, 53-55.
 Red-bellied, 250, 455, 466, 478.
 Red-headed, 36, 241, 301, 455, 478.
 Rocky Mountain Hairy, 353.
 Southern Hairy, 455, 477.
 White-headed, 68.
 Willow, 68.
 Worthington Society for the Investigation of Bird Life, founded of, 511.
 Worthington, Willis W., bird notes from Shelter Island, Long Island, N. Y., 287.
 Wren, Aztec, 361.
 Bewick's, 246, 461, 484.
 Carolina, 238, 461, 484.
 Dotted Cañon, 71, 232.
 House, 246, 343, 461, 484.
 Long-billed Marsh, 44.
 Rock, 223, 232, 361, 440-442.
 San Clemente, 221.
 Short-billed Marsh, 43, 461, 484, 492, 493.
 Western House, 43, 232.
 Winter, 249, 343, 461, 484.
- XANTHOCEPHALUS xanthocephalus, 37, 447.
 Xenopus albolarvatus, 68.
- YELLOW-LEGS, 61, 247.
 Lesser, 445.
 Yellow-throat, Maryland, 57, 245, 287, 340, 461.
 Southern, 483.
 Western, 43, 232.
 Young, C. J., the Philadelphia Vireo, 283.
- ZAMELODIA ludoviciana, 243, 458, 481.
 melanocephala, 70, 231, 359.
 Zenaidura macroura, 72, 227, 239, 352, 453, 476.
 Zonotrichia albicollis, 39, 248, 458, 480.
 leucophrys, 69, 72, 248, 358.