

INDICES TO VOLUME 54

COMPILED BY KATHLEEN AND STEVEN SIBLEY

Author Index

(Entries followed by (r) are authors of articles reviewed.)

- Able, K. P., 332(r)
Abraham, K. F., 444(r)
Ahlquist, J. E., 107-108(r), 108-109(r),
109(r)
Alatalo, R. V., 97(r), 98(r)
Anderson, A., 206(r)
Anderson, M., 210(r)
Anisimov, V. D., 438(r)
Aquadro, C. F., 221(r), 348(r)
Austin, G. T., 204(r)
Avise, J. C., 221(r), 348(r)
Bairlein, F., 92(r)
Bairlein, F., 94(r)
Baker, A. J., 348(r)
Balyens, G., 209(r)
Barrows, C. W., 439-440(r)
Bayer, R. D., 196-199
Beacham, J. L., 58-66
Beaud, P., 102(r)
Beaver, D. L., 104(r)
Beck, W., 94(r)
Beletsky, L. D., 200-202
Bendell, J. F., 349(r)
Benjamin, 105(r)
Berger, R. J., 437(r)
Bergman, G., 219(r), 428-429(r)
Berndt, R., 96(r)
Berthold, P., 94(r)
Biermann, G. C., 113-122
Bloch, R., 205(r)
Blokpel, H., 170-186, 219(r)
Blondel, J., 338(r)
Bloom, P. H., 439-440(r)
Boag, D. H., 344(r)
Bocharknikov, V., 213(r)
Bochenksi, Z., 207(r), 219(r)
Boersma, D., 374-380
Boog, C. J. H., 207(r)
Boyd, H., 212-213(r)
Braun, C. E., 381-386
Brawn, J. D., 212(r)
Breen, L. L., 225-236
Briggs, K. T., 353-373
Brittas, R., 344-345(r)
Brooke, R. K., 106-107(r), 342-343(r)
Brownsmith, C. B., 92-93(r)
Bruderer, B., 205(r)
Bunch, T. D., 348(r)
Bunn, D. S., 443-444(r)
Burtt, E. H., 319-323, 344(r), 417-418
Butterfield, J., 105-106(r)
Byers, R. E., 419-421
Byrkjedal, I., 434(r)
Cannell, P. F., 29-35
Carlson, R. B., 338(r)
Cassell, J. F., 338(r)
Castrale, J. S., 214(r)
Cave, A. J., 203-204(r)
Chadelaine, G., 101(r)
Charbonneau, D., 214-215(r)
Chater, T., 107(r)
Cheshire, N. G., 220(r)
Chow, W., 344(r)
Clapp, R. B., 123-137, 287-294
Clark, L., 103(r)
Cole, S., 97(r)
Collins, C. T., 439-440(r)
Collins, S. L., 432(r)
Cooch, F. G., 212-213(r)
Cooke, F., 208(r), 337(r), 442(r), 443(r)
Cooper, J., 342-343(r)
Cornuet, J.-F., 84-88
Corral, M. G., 200-202
Costa, D. P., 104(r)
Coulson, J. C., 105-106(r), 332(r)
Courtney, P. A., 219(r)
Cowley, E., 333(r)
Cracraft, J., 221(r)
Crawford, R. J. M., 342-343(r)
Crawford, R. L., 17-28
Croll, D. A., 353-373
Crowe, T. M., 106(r)
Croxall, J. P., 104(r), 217(r)
Curtis, P. D., 381-386
Custer, T. W., 394-400
DaCamarra-Smeets, M., 95(r)
daPrato, S. R. D., 209(r)
Davidson, N. C., 205-206(r)
Davies, J. C., 444(r)
Davies, N. B., 432(r)
Davis, D. E., 444(r)
Davis, R. W., 104(r)
Dawson, T. J., 437(r)
de Naurois, R., 107(r)
Degen, A. A., 104(r)
DeJonghe, J.-F., 84-88
DeLast, J., 209(r)
Demong, N. J., 210(r)

- Devine, A., 88–89
 Devine, D., 88–89
 Devlin, W. J., 340–341(r)
 DeVos, G. J., 336(r)
 Dhondt, A. A., 209(r)
 Dolnik, T. B., 95(r)
 Dolnik, V. R., 93(r), 95(r), 103–104(r)
 Doty, H. A., 434–435(r)
 Duffy, D. C., 343(r)
 Duiven, P., 429(r)
 Duncan, N., 105–106(r)
 Dunstan, T. C., 328
 Elder, W. H., 138–145, 212(r)
 Emlen, S. T., 210(r)
 Erdman, T. C., 348(r)
 Eriksson, K., 442(r)
 Eriksson, M. O. G., 96(r)
 Evans, D. L., 100–101(r)
 Evans, J., 214–215(r)
 Evans, K. E., 212(r)
 Evans, P. R., 205–206(r)
 Ewert, D., 106(r)
 Farner, D. S., 104(r)
 Feare, C. J., 430–431(r)
 Fechheimer, N. S., 109(r)
 Fetterolf, P. M., 170–186
 Findlay, C. S., 208(r), 442(r), 443(r)
 Fjeldsa, J., 208(r), 218(r)
 Fleischer, R. C., 438(r)
 Flint, V., 215(r)
 Foa, A., 204–205(r)
 Folse, L. J., 433(r)
 Framarin, F., 102(r)
 Frelin, C., 92(r)
 Fuller, R. J., 222–223(r)
 Futcher, A. G., 123–137, 287–294
 Galbraith, H., 440(r)
 Gaston, A. J., 275–282
 Gates, J. E., 340–341(r), 341–342(r)
 George, J. C., 437(r)
 Gibbs, J. N., 349(r)
 Gill, F. B., 349(r)
 Gilmer, D. S., 435(r), 441(r)
 Glaus, K. R., 109(r)
 Glennie, W. W., 206–207(r)
 Glunder, G., 103(r)
 Goodfellow, W. L., Jr., 348(r)
 Gortmaker, W., 207(r)
 Goss-Custard, J. D., 94(r)
 Grant, B. R., 441(r)
 Grant, G. S., 350–352(r)
 Grant, P., 223(r), 224(r)
 Grant, P. R., 441(r)
 Gravel, S., 17–28
 Graves, G. R., 407–412
 Grazhdankin, A. V., 104(r)
 Greenburg, R., 210–211(r)
 Grier, J. W., 216(r)
 Griffiths, A. M., 440(r)
 Griswold, J., 336(r)
 Guillemont, A., 107(r)
 Guillet, A., 106(r)
 Gustavson, C. R., 338(r)
 Guthery, F. S., 435(r)
 Gwinner, E., 204(r)
 Haartman, L. v., 220–221(r)
 Haftorn, S., 208(r)
 Hainsworth, F. R., 97(r)
 Hamel, P. B., 58–66
 Hamilton, W. D., 221–222(r)
 Harper, R. G., 328
 Harris, B. A., 92–93(r)
 Harris, M. P., 96(r), 440(r)
 Harrison, C. J. O., 221(r)
 Hatch, J. J., 1–16, 90, 91
 Hatch, S. A., 266–274
 Haug, E. A., 348(r)
 Healey, R. F., 444(r)
 Hegner, R. E., 210(r)
 Heinrich, B., 432(r)
 Herd, R. M., 437(r)
 Herlugson, C. J., 259–265
 Hilden, O., 96(r), 211–212(r), 346(r)
 Hilgerloh, G., 332(r), 428(r)
 Hill, R. W., 104(r)
 Hohtola, E., 103(r)
 Holgersen, H. J., 203(r), 208(r)
 Holland, P. K., 429(r)
 Holmes, R. T., 211(r)
 Hook, J. D., 203(r)
 Hooper, R. G., 72–76, 102(r)
 Hori, H., 108(r)
 Huber, K. R., 352(r)
 Hussell, D. J. T., 312–318
 Ignat'ev, R. P., 343(r)
 Ilyichev, V. D., 438(r)
 Ince, S. A., 350(r)
 Ingels, J., 106(r)
 Jakob, H., 103(r)
 Jaksic, F. M., 338–339(r)
 James, F. C., 438–439(r)
 James, H. F., 109–110(r)
 James, P. C., 418–419
 Jannett, F. J., Jr., 344(r)
 Jarvinen, A., 96(r)
 Jehl, J. R., Jr., 346(r)
 Jenkins, J. A. F., 220(r)
 Jenni, L., 340(r)
 Johnson, A. S., 340(r)
 Johnson, D. E., 344(r)
 Johnston, R. F., 438(r)
 Jukema, J., 218–219(r)
 Kakizawa, R., 108(r)
 Kalas, J. A., 434(r)

- Kale, H. W., II, 203(r)
 Kaleta, E. F., 103(r)
 Kamil, A. C., 97(r)
 Kania, W., 440(r)
 Kantrud, H. A., 342(r), 441(r)
 Karr, J. R., 220(r)
 Keeley, B. R., 208(r)
 Keeton, W., 427–428(r)
 Kelly, P. R., 353–373
 Kershner, M., 17–28
 Ketterson, E. D., 387–393
 Khrabryi, V. M., 215–216(r)
 King, K. A., 295–303
 King, R. D., 349(r)
 Klimkiewicz, M. K., 123–137, 287–294
 Knopf, F. L., 67–71
 Kologiski, R. L., 342(r)
 Kondrative, A. Yu., 335–336(r)
 Koning, F. J., 440(r)
 Kooyman, G. L., 104(r)
 Korzun, L. P., 345(r)
 Kou, Z. T., 439(r)
 Krechmar, A. V., 335–336(r)
 Krementz, D. G., 101–102(r)
 Krynnitsky, A. J., 394–400
 Kuleshova, L. V., 103(r)
 Kummerfeld, N., 103(r)
 Kuroda, N., 108(r)
 Kushlan, J. A., 421–422
 Landenbergue, D., 95–96(r)
 Landers, J. L., 340(r)
 Landres, P. B., 433–434(r)
 Langslow, D. R., 341(r), 440–441(r)
 Laporte, P., 101(r)
 Layne, J. N., 427(r)
 Le V. dit Durell, S.E.A., 94(r)
 Lebret, T., 220(r)
 Lederer, R. J., 110(r)
 Lefever, C. A., 295–303
 Lehtonen, L., 96(r), 443(r)
 Leisler, B., 100(r)
 Lemon, R. E., 429–430(r)
 Leta, L. D., 419–421
 Lewis, D. B., 353–373
 Lennartz, M. R., 72–76
 Lindberg, P., 436(r)
 Lloyd-Evans, T. L., 50–56
 Loftin, R. W., 203(r)
 Lohmer, R., 103(r)
 Lombardo, M. P., 194–195
 Lovegrove, T. G., 107(r)
 Lowther, P. E., 414–417
 Lyons, D., 222(r)
 Mack, A. L., 349(r)
 MacMahon, J. A., 433–434(r)
 Madden, R., 427–428(r)
 Maddox, G. D., 29–35
 Makepeace, M., 429(r)
 Manuel, F., 102(r)
 Marcstrom, V., 344–345(r)
 Marion, L., 102(r)
 Marks, J. S., 199–200
 Marquiss, M., 217(r), 218(r)
 Marschall, H.-J., 103(r)
 Marsden, E., 427(r)
 Martin, S. J., 422–423
 Matthew, K. K., 437(r)
 Mayoh, K. R., 213–214(r)
 McCake, T. R., 424–426
 McIntyre, J. W., 247–253
 McNicholl, M. K., 77–83
 McNichol, D. K., 341(r)
 Meier, E., 102(r)
 Meigs, J. B., 283–286
 Mercier, T., 97(r)
 Merson, M. H., 419–421
 Millener, P. R., 221(r)
 Miller, J. S., 204(r)
 Mishaga, R. J., 437(r)
 Monaghan, P., 105–106(r)
 Morgan, K. A., 341–342(r)
 Morgan, R. P., II, 348(r)
 Morris, M. M. J., 429–430(r)
 Morton, E. S., 36–41
 Mosher, J. A., 222(r), 348(r)
 Moss, R., 206–207(r)
 Mulhein, B. M., 295–303
 Munro, H. L., 304–311
 Muriset, J.-C., 107(r)
 Murphy, J. R., 430(r)
 Myers, J. P., 346(r)
 Myhrberg, H. E., 430(r)
 Nesbitt, S. A., 92–93(r)
 Newton, I., 217(r), 218(r)
 Nicolaus, L. K., 338(r)
 Nisbet, I. C. T., 1–16, 90, 91, 190–192,
 394–400
 Noble, D. G., 275–282
 Nolan, V., Jr., 387–393
 Northcote, E. M., 347(r)
 Nudds, T. D., 339–340(r)
 Nummi, H., 442(r)
 Nyholm, N. E. I., 430(r)
 Odom, R. R., 214–215(r)
 Odsjo, T., 436(r)
 Oles, T., 207(r), 219(r)
 Olson, S. L., 109–110(r)
 Osaka, Y., 108(r)
 Osborne, B. C., 209(r)
 Osborne, P., 435(r)
 Osiech, E. R., 207(r), 214(r)
 Ostapenko, V. A., 343(r)
 Palca, J. W., 437(r)
 Palmer, D., 214–215(r)

- Panov, E. N., 97–98(r)
 Patterson, C. B., 209–210(r)
 Patterson, I. J., 429(r)
 Patterson, R. M., 36–41
 Patton, J. C., 348(r)
 Patty, B. W., 225–236
 Paul, J. T., Jr., 42–49
 Payne, R. B., 444–446(r)
 Payne, S., 436(r)
 Pellerin, M., 350(r)
 Perkins, M. W., 436(r)
 Perlman, P. S., 109(r)
 Perrin de Buichambaut, J., 105(r)
 Petretti, A., 101(r)
 Petretti, F., 101(r)
 Picozzi, N., 337(r)
 Pilo, B., 437(r)
 Pimm, J. W., 99(r)
 Pimm, S. L., 99(r)
 Pinshow, B., 104(r)
 Poddar, S., 110(r)
 Ponomareva, T. S., 431–432(r)
 Post, W., 333–334(r)
 Prins, H. H. Th., 336–337(r)
 Pulliainen, E., 349(r)
 Pulliam, H. R., 339(r)
 Purdy, M. A., 275–282
 Pyke, G. H., 211(r)
 Rankin, G. D., 216(r)
 Rappole, J., 214–215(r)
 Rappole, J. H., 152–159
 Ratti, J. T., 424–426
 Ray, R. T., 349(r)
 Redfern, C. P. F., 207–208(r)
 Reed, T. M., 440–441(r)
 Remsen, J. V., Jr., 407–412
 Repenning, R. W., 92–93(r)
 Richards, D. G., 350(r)
 Ricklefs, R. E., 437(r)
 Riegert, P. W., 105(r)
 Robbins, M. B., 407–412
 Robertson, C. J. R., 220(r)
 Robertson, R. J., 337(r), 341(r)
 Robertson, W. B., 225–236
 Robinson, S. K., 211(r)
 Robson, J. E., 429(r)
 Roby, D. D., 437(r)
 Rogers, L. J., 216–217(r)
 Rogers, M. J., 219(r)
 Ross, A. E., 58–66
 Ross, H. A., 348(r)
 Rosser, W. C., 105(r)
 Roth, R. R., 42–49
 Rothery, P., 206–207(r)
 Rounds, R. C., 304–311
 Rusanov, G., 213(r)
 Ryder, J. P., 374–380
 Ryder, R. A., 381–386
 Sadura, A., 444(r)
 Sauer, J. R., 101–102(r)
 Savard, J.-P. L., 100(r), 206(r)
 Scharf, W. C., 160–169
 Schillemans, J., 209(r)
 Schindler, J., 94(r)
 Schluter, D., 98–99(r), 99–100(r)
 Schmidt, 110–111(r)
 Schmutz, J. K., 337(r)
 Schodde, R., 107(r)
 Schramm, M., 192–194
 Schuchmann, K.-L., 103(r)
 Schwabl, H., 104(r), 428(r)
 Schwabl-Benzinger, I., 204(r)
 Sealy, S. G., 113–122
 Searcy, W. A., 337(r)
 Secoy, D. M., 105(r)
 Sequin, R. J., 444(r)
 Serie, J. R., 434–435(r)
 Sermet, E., 107(r)
 Sharp, D. E., 434–435(r)
 Shelton, P. A., 342–343(r)
 Shugart, G. W., 160–169
 Sibley, C. G., 107–108(r), 108–109(r), 109(r)
 Sitters, H. P., 94(r)
 Slack, R. D., 187–190
 Slagsvold, T., 95(r)
 Slater, P. J. B., 350(r)
 Sluys, R., 346–347(r)
 Smeenk, C., 333(r)
 Smeenk-Enserink, N., 333(r)
 Smith, D. G., 88–89, 283–286
 Smith, G. J., 212–213(r)
 Smith, K. G., 98(r)
 Smith, L. M., 424–426
 Smithe, F. B., 111(r)
 Soikkeli, M., 96(r)
 Steadman, D. W., 110(r)
 Steiner, P., 205(r)
 Stempniewicz, L., 329–331, 331, 438(r)
 Stewart, R. E., 435(r)
 Stiburek, B., 103(r)
 Stiehl, R. B., 326–328
 Stock, A. D., 348(r)
 Stoddard, P., 427(r)
 Stohura, J. J., 436–437(r)
 Strange, I. J., 334–335(r)
 Swennen, C., 429(r)
 Swinfen, R., 94(r)
 Sykes, Jr., P. W., 237–246
 Symonds, F. L., 440–441(r)
 Tarbell, A. T., 89
 Tarboton, W. R., 431(r)
 Tatner, P., 440(r)
 Taylor, W. K., 17–28
 Thomas, C. S., 105–106(r)

- Thomas, D. H., 104(r)
Thompson, B. C., 187-190
Thurow, T. L., 401-406
Timm, D. E., 441(r)
Tomek, T., 219(r)
Tomkovich, P., 346(r)
Trauger, D. L., 434-435(r)
Troy, D. M., 146-151
Tsvelikh, A. N., 432-433(r)
Tuculescu, R., 336(r)
Turner, A. K., 435(r)
Turrian, F., 95-96(r)
Tuttle, R. M., 319-323
Tyler, W. B., 353-373
Usuda, N., 108(r)
Utida, S., 108(r)
Van Balen, J. H., 207(r)
Van Buskirk, J. V., 283-286
van Dijk, J., 336-337(r)
van Franeker, J. A., 207(r), 217(r)
van Impe, J., 108(r)
van Loon, A. J., 428(r)
van Tets, C. F., 220(r)
VandeWeghe, J. P., 106(r)
Verheijen, F. J., 93(r)
Village, A., 348-349(r)
Voisin, J.-F., 107(r), 108(r)
Walker, J. M., 437(r)
Walker, L. E., 437(r)
Wallraff, H., 204-205(r)
Walters, J., 218(r)
Walters, J. R., 337-338(r)
Wanless, S., 341(r)
Warburton, A. B., 443-444(r)
Warham, J., 208(r)
Waser, N. M., 211(r)
Watson, A., 206-207(r), 436(r)
Wattel, J., 217(r)
Weatherhead, P. J., 341(r)
Webb, W. M., 435(r)
Wege, M. L., 441(r)
Westerterp, K., 207(r)
Westphal, D., 105(r)
White, C. M., 401-406
Whitford, W. G., 437(r)
Wijngaarden, H., 207(r)
Wikman, M., 436(r)
Williams, A. J., 431(r)
Williams, G. R., 108-109(r)
Williams, M., 429(r)
Williams, T., 427(r)
Willis, E. O., 413-414
Willner, G. R., 340-341(r)
Wilson, G. J., 208(r)
Wilson, R. D. S., 443-444(r)
Wiltschko, R., 427-428(r)
Wiltschko, W., 94(r), 204(r), 427-428(r)
Wingfield, J. C., 104(r)
Winkel, D., 97(r)
Winkel, W., 96(r), 97(r)
Woffinden, N. D., 430(r)
Wolf, L. L., 97(r)
Wright, H., 105-106(r)
Yahner, R. H., 341(r)
Yalden, D. W., 429(r)
Yasukawa, K., 337(r)
Ydenberg, R. C., 336-337(r)
Young, D. A., 344(r)
Yunick, R. P., 254-258
Zach, R., 213-214(r)
Zang, H., 96(r)
Zassenhaus, H. P., 109(r)
Zbinden, N., 338(r)
Zhang, X. A., 332-333(r)
Zheng, Z. X., 347(r)
Zimmerman, D., 138-145
Zuk, M., 221-222(r)
Zyкова, L. Yu., 97-98(r)

Subject Index

The subject matter and extensive species lists within the following articles will not be included in the Subject Index. We refer you to these articles on pages 123–137, 287–294.

Longevity records of North American birds: Columbidae through Paridae, by Roger B. Clapp, M. Kathleen Klimkiewicz, and John R. Kennard. Pp. 123–137.

Longevity records of North American birds: Remizidae through Parulinae, by M. Kathleen Klimkiewicz, Roger B. Clapp, and Anthony G. Futcher. Pp. 287–294.

- Acanthis flavirostris*, breeding biology, 332–333(r)
- Accentor, Robin, see *Prunella rubecula*
- Accipiter cooperii*, status, 100–101(r); Nevada, 436(r)
- A. gentilis*, Nevada, 436(r)
- A. nisus*, Italy, 101(r); breeding, 217(r); molt, 218(r)
- A. striatus*, status, 100–101(r)
- Acrocephalus* species, niche separation, 100(r)
- Actitis hypoleucus*, breeding biology, 429(r)
- Aechmophorus occidentalis*, morphological divergence, 424–426
- Aegolius acadicus*, banding, 203(r)
- Aegypius monachus*, captive breeding, 102(r)
- Agelaius humeralis*, nesting, 333–334(r)
- A. phoeniceus*, brood size and thermoregulation, 104(r); song recognition, 200–202; female aggression, 337(r); agriculture implications, 341(r), Cowbird host, 414–417; morphology, 438–439(r)
- A. xanthomus*, biology, 333–334(r)
- Ajaia ajaja*, Florida, 225–236
- Alaska, Black-legged Kittiwake, 196–199
- Alauda gulgula*, breeding biology, 332–333(r)
- Alca torda*, pesticides, 101(r); Isle of May, 440(r)
- Alectoris chukar*, nasal salt gland absence, 104(r)
- Alle alle*, body proportions, 438(r)
- Amakihi, see *Loxops virens*
- Ammodramus savannarum*, cowbird host, 414–417
- Ammoperdix hevi*, nasal salt gland absence, 104(r)
- Anas clypeata*, sex ratio, 220(r)
- A. platyrhynchos*, male physical condition, 344(r)
- Angola, seabirds, 106–107(r)
- Anomalopteryx oweni*, taxonomic status, 221(r)
- Anser albifrons*, systematics, 441(r)
- A. caerulescens*, breeding synchrony, 208(r), 442(r); management, 212–213(r)
- A. canagicus*, nesting ecology, 335–336(r)
- A. fabalis*, cladogenesis and evolution, 108(r)
- Antbird, Bicolored, see *Gymnopithys bicolor*
- Chestnut-backed, see *Myrmeciza exsul*
- Ocellated, see *Phaenostictus mcleannani*
- Spotted, see *Hylophylax naevioides*
- Anthus spinosetta*, phenology and biometry, 440(r)
- Apapane, see *Himatione sanguinea*
- Aptenodytes patagonica*, diving depths and energy, 104(r)
- Apus affinis*, molt, 439(r)
- A. apus*, banding, 203(r); feeding and pollution levels, 435(r)
- Aquila chrysaetos*, Italy, 102(r); Scotland, 436(r)
- Asio otus*, prolonged incubation, 199–200
- Athene cunicularia*, white-tailed prairie dog colonies, 422–423
- Auk, Little, see *Alle alle*
- Aythya valisneria*, age-class determination, 434–435(r)
- banding and longevity**, 123–137, 287–294
- Antbird, Bicolored, 413–414
- Chestnut-backed, 413–414
- Ocellated, 413–414
- Spotted, 413–414
- blackbird, 203(r)
- Chaffinch, 203(r)
- Chickadee, Black-capped, 138–145
- Dunlin, 203(r)
- Gull, Black-headed, 203(r)
- Kestrel, American, Florida, 427(r)
- Owl, Saw-whet, 203(r)
- Pigeon, Band-tailed, wing markers, 381–386
- redpoll, 203(r)
- Skimmer, Black, 203(r)
- Spoonbill, Roseate, Florida, 225–236
- Starling, European 203(r)
- Stork, White, migration and distribution, 92(r)
- Swallow, Tree, effects on reproduction, 319–323
- swift, 203(r)

- Tern, Arctic, band wear, 91
 Common, band wear & loss, 1–16
 Roseate, band wear & loss, 90
- Tit, Coal, movements, 92(r)
- Warbler, Willow, 203(r)
- Woodcreeper, Plain-brown, 413–414
- Woodpecker, Red-cockaded, study techniques, 92–93(r)
- Bee Eater, White-fronted, see *Merops bullockoides*
- behavior**
 Bee Eater, White-fronted, spatial organization, 210(r)
 Blackbird, Red-winged, female aggression, 337(r)
 cooperative polyandry, 209–210(r)
 crow, predation control, 338(r)
 Dove, Galapagos, bill-shoving feeding, 421–422
 Dunnock, pre-copulatory display, 432(r)
 Eider, Common, female sociality, 337(r)
 Flycatcher, Large-billed, bill-shoving feeding, 421–422
 Willow, bathing, 417–418
 Goldcrest, temperature & foraging, 97(r)
 Goose, Barnacle, post-roost gatherings, 336–337(r)
 Ground Finch, Medium, bill-shove feeding, 421–422
 Small, bill-shove feeding, 421–422
 Grouse, Black, social, 336(r)
 Blue, reaction to observer, 77–83
 Gull, Herring, late in nesting season, 97–98(r)
 Harrier, Hen, polygyny, 337(r)
 Northern, polygyny, 337(r)
 Hawk, Galapagos, cooperative polyandry, 209–210(r)
 hummingbird, spatial learning as adaptation, 97(r)
 Junco, Dark-eyed, breeding season, 387–393
 Lapwing, Crowned, parental behavior, 337–338(r)
 Long-toed, parental behavior, 337–338(r)
 Southern, parental behavior, 337–338(r)
 Martin, Crag, flight speed, 432–433(r)
 House, flight speed, 432–433(r)
 Purple, post-breeding roosting, 36–41
 Sand, flight speed, 432–433(r)
 Plover, Blacksmith, parental behavior, 337–338(r)
 Ringed, foot-trembling & feeding, 209(r)
 prehatching interactions, 336(r)
- Screech-Owl, Eastern, roost sites, 419–421
 serial monogamy, 209(r)
 Shag, promiscuity, 96(r)
 Swallow, Barn, flight speed, 432–433(r)
 Red-rumped, flight speed, 432–433(r)
 Wire-tailed, 432–433(r)
- tit, temperature & foraging behavior, 97(r)
 Tit, Blue, mate fidelity, 97(r); density & population, 209(r)
 Coal, mate fidelity, 97(r)
 Great, density & population, 209(r); mate fidelity, 97(r)
 Titmouse, Tufted, yearling helper, 89
 tree-creeper, temperature & foraging behavior, 97(r)
 Warbler, Dartford, breeding season, 338(r)
 Orphean, breeding season, 338(r)
 Sardinian, breeding season, 338(r)
 Subalpine, breeding season, 338(r)
 Willow, polygamy, 209(r)
 Yellow, bill-shove feeding, 421–422
 widowbirds, sexual selection, 210(r)
 Woodpecker, Red-cockaded, roosting, 72–76
- Blackbird, see *Turdus merula*
 Red-winged, see *Agelaius phoeniceus*
 Tawny-shouldered, see *Agelaius humeralis*
 Yellow-shouldered, see *Agelaius xanthomus*
- Bluebird, Eastern, see *Sialia sialis*
 Mountain, see *Sialia currucoides*
 Bobolink, see *Dolichonyx oryzivorus*
 Bobwhite, Northern, see *Colinus virginianus*
Bombycilla garrulus, alcohol metabolism, 442(r)
- Booby, Peruvian, see *Sula variegata*
- books & monographs**
 avian incubation, 350–352
 bird habitats, 222–223(r)
 census methods, terrestrial vertebrates, 444(r)
 color guide, 111(r)
 Falkland Islands, birds, 224(r)
 Goose, Snow, La Parouse Bay, 444(r)
 gulls, identification, 223–225(r)
 Michigan, birds, 444–446(r)
 Owl, Barn, 443–444(r)
 Owl, Great Gray, 224(r)
 Tanzania, Serengeti National Park, 110(r)
 Warbler, Kirtland's, bibliography, 352
- Bounty Islands, 220(r)
Branta leucopsis, post-roost gathering, 336–337(r)

- British Isles, banding, 203(r); Ruddy Shelduck, 219(r); Kittiwakes, 332(r)
- Bubo virginianus*, Nevada, 436(r)
- Bucephala clangula*, populations, 96(r)
- B. islandica*, nest-box use, 206(r)
- Bullfinch, see *Pyrrhula pyrrhula*
- Bunting, Corn, see *Emberiza calandra*
- Indigo, see *Passerina cyanea*
- Lark, see *Calamospiza melanocorys*
- Buteo buteo*, Italy, 101(r)
- B. galapagoensis*, cooperative polyandry, 209–210(r)
- B. jamaicensis*, Nevada, 436(r)
- B. lineatus*, nesting, 429–430(r)
- B. platypterus*, food caching, 222(r)
- B. regalis*, status, 101–102(r); habitat use, 435(r); nest site, 401–406, 430(r); Nevada, 436(r)
- B. swainsoni*, nest site, 401–406; Nevada, 436(r)
- Buzzard, see *Buteo buteo*
- Honey, see *Pernis apivorus*
- Calamospiza melanocorys*, uncultivated grassland, 342(r)
- Calcarius ornatus*, uncultivated grassland, 342(r)
- Calidris alpina*, banding, 203(r); Golden Plover association, 434(r)
- C. maritima*, Dunlin association, 434(r)
- California, Brown Pelican, 353–373
- Canada, British Columbia, 206(r); 212–213(r)
- Canvasback, see *Aythya valisineria*
- Caracara, Crested, see *Polyborus plancus*
- Carduelis chloris*, weight & wing length, 105(r)
- C. flammea*, banding, 203(r); migration, 146–151; site fidelity, 254–258
- C. pinus*, flocking, 67–71; site fidelity, 254–258
- Carpodacus purpureus*, Michigan, 106(r); site fidelity, 254–258
- Catharacta skua*, oxygen consumption, 437(r)
- Cecropis daurica*, flight speed, 432–433(r)
- Certhia familiaris*, temperature & foraging, 97(r)
- Chad, 95(r)
- Chaffinch, see *Fringilla coelebs*
- Charadrius hiaticula*, foot trembling, 209(r)
- Chat, Yellow-breasted, see *Icteria virens*
- Chatham Islands, Leach's Storm-Petrel, 107(r)
- Chickadee, Black-capped, see *Parus atricapillus*
- Chiroxiphia pareola*, mobility & distribution, 407–412
- Chlidonias nigra*, Switzerland, 107(r)
- Chough, Hume's Ground, see *Pseudopodoces humilis*
- Chukar, see *Alectoris chukar*
- Chicken, see *Gallus gallus*
- Chiffchaff, see *Phylloscopus collybita*
- Ciconia ciconia*, migration & distribution, 92(r); Newcastle disease, 103(r)
- Circus gallicus*, Italy, 101(r)
- Circus cyaneus*, polygyny, 337(r); status, 100–101(r); trapped in ice, 328
- C. pygargus*, Italy, 101(r)
- Cistothorus palustris*, migration, 17–28
- C. platensis*, migration, 17–28
- Coccothraustes vespertinus*, site fidelity, 254–258
- Colaptes auratus*, nest box use, 206(r); winter foraging, 212(r)
- Colinus virginianus*, habitat management, 435(r)
- Columba fasciata*, wing markers, 381–386
- C. livia*, magnetism, 204–205(r), 427–428(r); olfaction, 204–205(r); thermogenesis, 103(r)
- conservation & environmental quality**
- Buzzard, Italy, 101(r)
- Buzzard, Honey, Italy, 101(r)
- Chiffchaff, Dutch elm disease effects, 435(r)
- Cormorant, White-breasted, 342–343(r)
- Dunnock, Dutch elm disease effects, 435(r)
- Eagle, Bald, DDT effects, 216(r)
- Golden, Italy, 102(r); Scotland, 436(r)
- Short-toed, Italy, 101(r)
- Falcon, Lanner, Italy, 101(r)
- Peregrine, feather mercury, 436(r); Scotland, 436(r)
- forest fires, 103(r)
- France, 102(r)
- Goldcrest, Dutch elm disease effects, 435(r)
- Goshawk, Northern, 436(r)
- Harrier, Montagu's, Italy, 101(r)
- Hawk, Cooper's, 436(r)
- Ferruginous, 436(r)
- Red-tailed, 436(r)
- Swainson's, 436(r)
- Hobby, Italy, 101(r)
- Kestrel, American, 436(r)
- Italy, 101(r)
- Kite, Black, Italy, 101(r)
- Red, Italy, 101(r)
- Snail, water levels & population, 237–246
- Lark, Horned, mine reclamation effects, 101–102(r); sagebrush control, 214(r)
- Martin, House, feeding & pollution, 435(r)

- Meadowlark, Western, sagebrush control effects, 214(r)
mine reclamation, 101–102(r)
- Netherlands, wetlands, 214(r)
- Owl, Burrowing, 436(r)
Great Horned, 436(r)
- Razorbill, pesticide effects, 101(r)
- Robin, American Dutch elm disease effects, 435(r)
- Sparrow, Brewer's, sagebrush control effects, 214(r)
Tree, Dutch elm disease effects, 435(r)
- Vesper, sagebrush control effects, 214(r)
- Sparrowhawk, Italy, 101(r)
- Swallow, Barn, feeding & pollution levels, 435(r)
Tree, breeding biology, 213–214(r);
Dutch elm disease, 435(r)
- swift, feeding & pollution levels, 435(r)
- Tern, Roseate, organochlorine levels, 394–400
Royal, pollutants, 295–303
- Thrasher, Sage, sagebrush control effects, 214(r)
- USSR, 215(r); Leningrad's avifauna, 215–216(r)
- Vulture, Bearded, captive breeding, 343(r)
Cinereous, captive breeding, 102(r)
Egyptian, Italy, 101(r)
- Whinchat, silo installation effects, 102(r)
- Woodpecker, Red-cockaded, dead cavity trees, 102(r); Georgia relocation, 214–215(r)
- Wren, House, breeding biology, 213–214(r)
- Coot, American, see *Fulica americana*
Giant, see *Fulica gigantea*
- Cormorant, Guanay, see *Phalacrocorax bougainvillii*
Long-tailed, see *Phalacrocorax africanus*
White-breasted, see *Phalacrocorax carbo*
- Corvus albicollis*, temperature regulation, 437(r)
- C. brachyrhynchos*, predation control, 338(r)
- C. caurinus*, reverse mounting, 418–419
- C. corax*, patagial tags, 326–328
- Cowbird, Brown-headed, see *Molothrus ater*
- Crow, Common, see *Corvus brachyrhynchos*
Northwestern, see *Corvus caurinus*
- Cyanicterus cyanicterus*, plumages, 106(r)
- Cygnus falconeri*, size & habits, 347(r)
- Dacnis, Blue, see *Dacnis cayana*
- Dacnis cayana*, Panama, 210–211(r)
- Delichon urbica*, flight speed, 432–433(r);
feeding & pollution, 435(r)
- Dendragapus obscurus*, reactions to observer, 77–83; food selection, 349(r)
- Dendrocinka fuliginosa*, longevity, 413–414
- Dendroica castanea*, Panama, 210–211(r)
- D. petechia*, cowbird host, 414–417; bill-shove feeding, 421–422
- Dickcissel, see *Spiza americana*
- Dolichonyx oryzivorus*, cowbird host, 414–417
- Dove, Galapagos, see *Zenaida galapagoensis*
Ringed Turtle, see *Streptopelia risoria*
- Dovekie, see *Plautus alle*
- Dromaius novaehollandiae*, digestion, 437(r)
- Dryocopus pileatus*, winter foraging, 212(r)
- Dunlin, see *Calidris alpina*
- Dunnock, see *Prunella modularis*
- Eagle, Bald, see *Haliaeetus leucocephalus*
Golden, see *Aquila chrysaetos*
Short-tailed, see *Circaetus gallicus*
- ecology**
arboreal birds, community organization, 433–434(r)
avifauna-resource relationships, 433(r)
Chickadee, Black-capped, foraging behavior, 211(r)
- Dacnis, Blue, Panama, 210–211(r)
- Dunlin, Golden Plover association, 434(r)
- ecological community theory, 339(r)
- Flicker, Common, winter foraging, 212(r)
- Flycatcher, Least, foraging behavior, 211(r)
- Galapagos, bird species distribution, 98(r);
seed & patch selection, 98–99(r); food supply & distribution, 99–100(r)
- Goldcrest, partial migration, 211–212(r)
- Grosbeak, Rose-breasted, foraging behavior, 211(r)
- habitat relationships, slash pine flatwoods, 340(r)
- Harrier, Northern, ice entrapment, 328
- Honeycreeper, Hawaiian, 99–100(r)
- honeyeater, food sources, 211(r)
- hummingbird, food sources, 211(r)
- Nuthatch, White-breasted, winter foraging, 212(r)
- Panama, Barro Colorado Island, 210–211(r)
- Plover, Golden, Dunlin association, 434(r)
- Redstart, American, foraging behavior, 211(r)
- sympatric avifaunal assemblages, 338–339(r)
- Tanager, Scarlet, foraging behavior, 211(r)
- Warbler, Aquatic, niche separation, 100(r)
Bay-breasted, Panama, 210–211(r)
- Great Reed, niche separation, 100(r)
- Marsh, niche separation, 100(r)

- Moustached, niche separation, 100(r)
 Reed, niche separation, 100(r)
 Sedge, niche separation, 100(r)
 waterfowl guilds, niche dynamics, 339–340(r)
- Woodpecker, Downy, winter foraging, 212(r)
 Great-spotted, feeding ecology, 340(r)
 Middle-spotted, feeding ecology, 340(r)
 Pileated, winter foraging, 212(r)
 Red-bellied, winter foraging, 212(r)
 Red-headed, winter foraging, 212(r)
- Eider, Common, see *Somateria mollissima*
Emberiza calandra, song dialect, 350(r)
Empidonax minimus, breeding & migration, 113–122; foraging behavior, 211(r)
E. traillii, cowbird host, 414–417; bathing behavior, 417–418
- Emu, See *Dromaius novaehollandiae*
- Eremophila alpestris*, mine reclamation effects, 101–102(r); sagebrush control effects, 214(r); breeding biology, 332–333(r); uncultivated grassland, 342(r)
- Erythacus rubecula*, Dutch elm disease effects, 435(r)
- Eudytaphrys chrysophilus*, laying & incubation, 431(r)
- E. crestartus*, breeding ecology, 334–335(r), 431(r)
- Euplectes progne*, sexual selection, 210(r)
- evolution & genetics**
 chromosome banding pattern, 348(r)
 Darwin's finches, niche shifts & competition, 441(r)
 electrophoresis, 221(r)
Garrulax evolution, 347(r)
 genetic disease resistance selection, 221–222(r)
 genetic evolution, 348(r)
 Goose, Lesser Snow, breeding synchrony, 442(r)
 Grassquit, Blue-black, Darwin's finch origin, 110(r)
 serum proteins, Falconiformes & Strigiformes, 348(r)
 Starling, New Zealand, 348(r)
- Falco biarmicus*, Italy, 101(r)
- F. columbarius*, status, 100–101(r)
- F. femoralis*, status, 100–101(r)
- F. mexicanus*, status, 100–101(r)
- F. peregrinus*, status, 100–101(r); mercury in feathers, 436(r); Scotland, 436(r)
- F. subbuteo*, Italy, 101(r)
- F. sparverius*, Florida banding, 427(r); nest-box use, 206(r); Nevada, 436(r)
- F. tinunculus*, hunting & seasons, 348–349(r); Italy, 101(r)
- Falcon, *Aplomado*, see *Falco femoralis*
Lanner, see *Falco biarmicus*
Peregrine, see *Falco peregrinus*
Prairie, see *Falco mexicanus*
- Falkland Islands, Northern Giant Petrel, 107(r); Rockhopper Penguin, 334–335(r)
- Ficedula albicollis*, molt & migration, 204(r)
- F. hypoleuca*, clutch size & locality, 96(r); fidelity, 430(r); magnetism & migration, 94(r); molt & migration, 204(r)
- Fieldfare, see *Turdus pilaris*
- Finch, Purple, see *Carpodacus purpureus*
 Small Ground, see *Geospiza fuliginosa*
- Finland, 96(r), 97(r), 211–212(r), 220–221(r), 428–429(r); Peregrine Falcon, 436(r)
- Flicker, Common, see *Colaptes auratus*
- Florida, 17–28, 225–236, 427(r)
- Flycatcher, Collared, see *Ficedula albicollis*
 Large-billed, see *Myiarchus magnirostris*
 Least, see *Empidonax minimus*
 Pied, see *Ficedula hypoleuca*
 Willow, see *Empidonax traillii*
- food & feeding**
 Bullfinch, alcohol metabolism, 442(r)
 Dovekie, escape maneuvers, 329–331
 Grouse, Blue, 349(r)
 Gull, Glaucous, hunting methods, 329–331; food stealing, 331
 Hawk, Broad-winged, 222(r)
 Hummingbird, Hermit, insect competition, 349(r)
 Jaeger, Parasitic, 331
 Kestrel, hunting & seasons, 348–349(r)
 Kittiwake, Black-legged, feeding flocks, 196–199
 Owl, Barred, fishing, 88–89
 Tawny, 222(r)
 Solitaire, Townsend's, 110(r)
 Tetraonid hybrid, food selection, 349(r)
 Waxwing, Bohemian, alcohol metabolism, 442(r)
 Woodpecker, Great Spotted, sap-sucking, 349(r)
- France, conservation, 102(r); warblers, 338(r)
- Fratercula arctica*, Isle of May, 440(r)
- Fringilla coelebs*, banding, 203(r); song development, 350(r)
- Fulica americana*, leg muscles, 105(r)
- F. gigantea*, 208(r)
- Fulmar, see *Fulmarus glacialis*
 Southern Giant, see *Fulmarus glacialisoides*
- Fulmarus glacialis*, geographic variation, 217(r); Isle of May, 440(r); Ythan estuary, 206(r)

- F. glacialisoides*, oxygen consumption, 437(r)
 Galapagos, bird species distribution, 98(r); food supply & distribution, 99–100(r)
Gallirallus philippensis, variation & dispersal, 107(r)
Gallus gallus, mtDNA, 109(r)
 Gannet, Cape, see *Morus capensis*
Gavia immer, habitat requirements, 247–253
Geospiza difficilis, distribution & food supply, 99–100(r)
G. fortis, bill shov feeding, 421–422, 441(r); distribution & food supply, 99–100(r)
G. fuliginosa, bill-shove feeding, 421–422; distribution & food supply, 99–100(r)
G. magnirostris, distribution & food supply, 99–100(r); 441(r)
G. scandens, distribution & food supply, 99–100(r), 441(r)
Geothlypis trichas, Michigan, 106(r); cowbird host, 414–417
Geranospiza caerulescens, breeding, 333(r)
 Goldcrest, see *Regulus regulus*
 Goldeneye, Common, see *Bucephala clangula*
 Barrow's, see *Bucephala islandica*
 Goose, Barnacle, see *Branta leucopsis*
 Bean, see *Anser fabalis*
 Emperor, see *Anser canagicus*
 Snow, see *Anser caerulescens*
 Tule White-fronted, see *Anser albifrons*
 Goshawk, Northern, see *Accipiter gentilis*
 Grassquit, Blue-black, see *Volatinia jacarina*
 Great Lakes, Common Tern, 160–169;
 Caspian Tern, 170–186; Ring-billed Gull, 219(r)
 Grebe, Crested, see *Podiceps cristatus*
 Red-necked, see *Podiceps grisegena*
 Western, see *Aechmophorus occidentalis*
 Greenfinch, see *Carduelis chloris*
 Grosbeak, Evening, see *Coccothraustes vespertinus*
 Rose-breasted, see *Pheucticus ludovicianus*
 Ground Finch, Cactus, see *Geospiza scandens*
 Large, see *Geospiza magnirostris*
 Medium, see *Geospiza fortis*
 Sharp-beaked, see *Geospiza difficilis*
 Small, see *Geospiza fuliginosa*
 Grouse, Black, see *Lyrurus tetrix*
 Blue, see *Dendragapus obscurus*
 Red, see *Lagopus lagopus*
 Gull, Black-headed, see *Larus ridibundus*
 Glaucous, see *Larus hyperboreus*
 Great Black-backed, see *Larus marinus*
 Herring, see *Larus argentatus*
 Lesser Black-backed, see *Larus fuscus*
 Ring-billed, see *Larus delawarensis*
Gymnopithys bicolor, longevity, 413–414
Gypaetus barbatus, captive breeding, 343(r)
Haematopus ostralegus, wintering population, 94(r); starvation, 205–206(r); cold stress, 429(r)
Haliaeetus leucocephalus, status, 100–101(r); DDT effects, 216(r)
 Harrier, Hen, see *Circus cyaneus*
 Montagu's, see *Circus pygargus*
 Northern, see *Circus cyaneus*
 Hawk, Broad-winged, see *Buteo platypterus*
 Cooper's, see *Accipiter cooperii*
 Crane, see *Geranospiza caerulescens*
 Ferruginous, see *Buteo regalis*
 Galapagos, see *Buteo galapagoensis*
 Harrier, see *Polyboroides typus*
 Red-shouldered, see *Buteo lineatus*
 Red-tailed, see *Buteo jamaicensis*
 Sharp-shinned, see *Accipiter striatus*
 Swainson's, see *Buteo swainsoni*
Himatione sanguinea, competition, 99(r)
Hippolais polyglotta, 95–96(r)
Hirundo rustica, flight speed, 432–433(r); feeding and pollution levels, 435(r)
 Hobby, see *Falco subbuteo*
Hylocichla mustelina, census, 42–49
Hylophylax naevioides, longevity, 413–414
Icteria virens, macromolecular evolution, 109(r)
 Iiwi, see *Vestiaria coccinea*
 Isle of May, seabirds, 440(r)
 Italy, diurnal raptors, 101(r); Golden Eagle, 102(r)
 Jaeger, Parasitic, see *Stercorarius parasiticus*
 Junco, Dark-eyed, see *Junco hyemalis*
Junco hyemalis, behavior, 387–393
 Kestrel, American, see *Falco sparverius*
 Eurasian, see *Falco tinnunculus*
 Kingbird, Eastern, see *Tyrannus tyrannus*
 Kinglet, Golden-crowned, see *Regulus satrapa*
 Kite, Black, see *Milvus migrans*
 Red, see *Milvus milvus*
 Snail, see *Rostrhamus sociabilis*
 Kittiwake, Black-legged, see *Rissa tridactyla*
 Korea, avifauna, 219(r)
Lagopus lagopus, population dynamics, 206–207(r); physical condition, 344–345(r)
 Lapwing, see *Vanellus vanellus*
 Southern, see *Vanellus chilensis*
 Crowned, see *Vanellus coronatus*
 Long-toed, see *Vanellus crassirostris*
 Lark, Horned, see *Eremophila alpestris*
Larus argentatus, Finland, 428–429(r); Isle of May, 440(r); Kent Island, 29–35; late nesting, 97–98(r); Lake Ontario, 170–186; wing-tip pattern, 105–106(r)
L. delawarensis, body condition & reproduc-

- tion, 374–380; Great Lakes, 219(r); Lake Ontario, 170–176
- L. fuscus*, Finland, 428–429(r); Isle of May, 440(r); wing color, 219(r)
- L. hyperboreus*, hunting methods, 329–331, 331
- L. marinus*, Finland, 428–429(r)
- L. ridibundus*, banding, 203(r); molt, 218(r)
- Living Bird Quarterly, new journal, 92(r)
- Longspur, Chestnut-collared, see *Calcarius ornatus*
- Loon, Common, see *Gavia immer*
- Loxops virens*, competition, 99(r)
- Lyrurus tetrix*, social behavior, 336(r)
- Macronectes halli*, Falkland Islands, 107(r)
- Magpie, Black-billed, see *Pica pica*
- Mallard, see *Anas platyrhynchos*
- Manakin, Blue-backed, see *Chiroxiphia parallela*
- Round-tailed, see *Pipra chloromeros*
- Manitoba, Least Flycatcher, 113–122
- Martin, Crag, see *Ptyonoprogne rupestris*
- House, see *Delichon urbica*
- Purple, see *Progne subis*
- Sand, see *Riparia riparia*
- Maryland, 341–342(r)
- Massachusetts, White-eyed Vireo, 50–57
- Meadowlark, Western, see *Sturnella neglecta*
- Melanerpes carolinus*, winter foraging, 212(r)
- M. erythrocephalus*, winter foraging, 212(r)
- Melospiza lincolni*, Michigan, 106(r)
- M. melodia*, cowbird host, 414–417; Michigan, 106(r)
- Merlin, see *Falco columbarius*
- Merops bullockoides*, spatial organization, 210(r)
- Michigan, 106(r)
- migration, orientation, & homing**
- Blackbird, European, winter strategies, 428(r)
- computer simulation, 427(r)
- Finch, Purple, 254–258
- Flycatcher, Collared, 204(r)
- Least, 113–122
- Pied, 94(r), 204(r)
- Grosbeak, Evening, 254–258
- moon & nocturnal bird collisions, 93(r)
- nocturnal, 205(r)
- pigeon, olfaction, & magnetism, 204–205(r); altered magnetic fields, 427–428(r)
- Redpoll, Common, 146–151; site fidelity, 254–258
- Siskin, Pine, flocking, 67–71; site fidelity, 254–258
- Sparrow, White-throated, skylight polarization patterns, 332(r)
- Starling, navigation, 203–204(r)
- temperature & migrant behavior, 204(r)
- Warbler, Garden, endogenous rhythm, 94(r); orientation, 204(r)
- Greenish, western Europe, 428(r)
- weather conditions, 332(r), 428(r)
- Wren, House, 17–28
- Marsh, 17–28
- Sedge, 17–28
- Winter, 17–28
- Milvus migrans*, Italy, 101(r)
- M. milvus*, Italy, 101(r)
- Moa, see *Anomalopteryx oweni*
- Molothrus ater*, hosts, 414–417
- Montifringilla ruficollis*, breeding biology, 332–333(r)
- M. taicanowskii*, breeding biology, 332–333(r)
- morphology & anatomy**
- age determination, 344(r)
- Auk, Little, body proportions, 438(r)
- Blackbird, Red-winged, environment & size, 438–439(r)
- Bunting, Indigo, cranial pneumatization, 58–66
- Coot, American, leg muscles, 105(r)
- eggshell surfaces, 105(r)
- Fulmar, geographic variation, 217(r)
- Grebe, Crested, 218(r)
- Red-necked, 218(r)
- Western, divergence, 424–426
- Greenfinch, body weight & wing length, 105(r)
- Grouse, Willow, physical condition, 344–345(r)
- Petrel, Snow, sexual dimorphism, 217(r)
- phylogenetic relations between loons & grebes, 345(r)
- Sparrow, House, body proportions, 438(r)
- Sparrowhawk, breeding, 217(r)
- Morus capensis*, Angola, 106–107(r)
- Motacilla citreola*, breeding biology, 332–333(r)
- Murre, Common, see *Uria aalge*
- Thick-billed, see *Uria lomvia*
- Myadestes townsendi*, and juniper berries, 110(r)
- Myiarchus magnirostris*, bill-shove feeding, 421–422
- Myrmeciza exsul*, longevity, 413–414
- Neophron percnopterus*, Italy, 101(r)
- nesting & reproduction**
- Accentor, Robin, 332–333(r)
- Blackbird, Red-winged, cowbird host, 414–417
- Tawny-shouldered, 333–334(r)
- Yellow-shouldered, 333–334(r)

- Bluebird, Eastern, brood size, 304–311
 Mountain, brood size, 304–311; nestling growth, 259–265
- Bobolink, cowbird host, 414–417
- body mass & reproduction, 95(r)
 breeding success & adverse conditions, 96(r)
- Bullfinch, captive breeding, 207(r)
- Chickadee, Black-capped, cowbird host, 414–417
- Cough, Hume's Ground, 332–333(r)
- Coot, Giant, 208(r)
- Cowbird, Brown-headed, hosts, 414–417
- Crow, Northwestern, reverse mounting, 418–419
- Dickcissel, cowbird host, 414–417
- egg, thermal properties, 431–432(r)
- Fieldfare, clutch & nest size, 95(r)
- Flycatcher, Least, 113–122
 Pied, clutch size & locality, 96(r); site fidelity, 430(r)
 Willow, cowbird host, 414–417
- Goldcrest, parental care, 208(r)
- Goldeneye, Common, old & new populations, 96(r)
- Goose, Emperor, 335–336(r)
 Snow, breeding synchrony, 208(r); USSR, 335–336(r)
- Gull, Herring, Lake Ontario, 170–186
 Ring-billed, body condition & reproduction; Lake Ontario, 170–186
- Harrier, 333(r)
- Hawk, Crane, 333(r)
 Ferruginous, nest site, 401–406, 430(r)
 Red-shouldered, Quebec, 429–430(r)
 Swainson's, nest site, 401–406
- Kingbird, Eastern, cowbird host, 414–417
- Lapwing, 207–208(r)
- Loon, Common, juvenile habitat, 247–253
- Martin, Sand, multi-brooding & infidelity, 333(r)
- Murre, Common, 275–282; fledging, 266–274
 Thick-billed, 275–282; fledging, 206–274
- Owl, Burrowing, and white-tailed prairie dog, 422–423
 Long-eared, prolonged incubation, 199–200
 Tawny, nest, 208(r)
- Penguin, Macaroni, laying & incubation, 431(r)
 Rockhopper, 334–335(r); laying & incubation, 431(r)
- Redstart, Black, 332–333(r)
- Seychelles, seabirds, 430–431(r)
- Shearwater, Sooty, annual cycle, 208(r)
- Skylark, Oriental, 332–333(r)
- Snow-fin, Red-necked, 332–333(r)
 Taczanowski's, 332–333(r)
- Sparrow, Eurasian Tree, 332–333(r)
 Grasshopper, cowbird host, 414–417
 Song, cowbird host, 414–417
- Starling, 207(r)
- Swallow, Tree, effects of banding, 319–323
- Tern, Caspian, Lake Ontario, 170–186
 Common, 190–192
- Thrasher, Brown, cowbird host, 414–417
- Tit, Black, 431(r)
 Great, 207(r)
- Twite, 332–333(r)
- Wagtail, Yellow-hooded, 332–333(r)
- Warbler, Melodious, Geneva, 95–96(r)
 Yellow, cowbird host, 414–417
- Yellowthroat, Common, cowbird host, 414–417
- Netherlands, wetlands, 214(r)
- Nevada, tree-nesting raptors, 436(r)
- New Brunswick, Kent Island, 29–35
- New Zealand, 208(r); Starling, 348(r)
- North Dakota, Ferruginous Hawk, 435(r)
- Nuthatch, White-breasted, see *Sitta carolinensis*
- Oceanodroma leucorhoa*, Chatham Islands, 107(r); Kent Island, 29–35
- Oreoscoptes montanus*, sagebrush control effects, 214(r)
- Osprey, see *Pandion haliaetus*
- Otus asio*, roosting sites, 419–421
- Owl, Barred, see *Strix varia*
 Burrowing, see *Speotyto cunicularia*
 Great Horned, see *Bubo virginianus*
 Long-eared, see *Asio otus*
 Saw-whet, see *Aegolius acadicus*
 Screech-, see *Otus asio*
 Spotted, see *Strix occidentalis*
 Tawny, see *Strix aluco*
- Oystercatcher, see *Haematopus ostralegus*
- Pachyptila desolata*, homeothermy, 437(r)
- Pagodroma nivea*, distribution, 440(r); sexual dimorphism, 217(r)
- Panama, 210–211(r), 220(r), 413–414
- Pandion haliaetus*, status, 100–101(r)
- parasites & diseases**
- Bluebird, Eastern, nest fauna, 344(r)
 - Booby, Peruvian, ticks, 343(r)
 - Cormorant, Guanay, ticks, 343(r)
 - Lapwing, mallophaga, 216(r)
 - Pelican, Peruvian Brown, ticks, 343(r)
 - Redshank, mallophaga, 216(r)
 - Stork, White, Newcastle disease, 103(r)
 - Swallow, Tree, 436–437(r)

- Partridge, Sand**, see *Ammoperdix hevi*
- Parus ater*, mate fidelity, 97(r); movements, 92(r)
- P. atricapillus*, age determination, 283–286; cowbird host, 414–417; foraging, 211(r), 432(r); recapture vs resighting, 138–145
- P. bicolor*, nest box use, 340–341(r); yearling helper, 89
- P. caeruleus*, density, 209(r); mate fidelity, 97(r)
- P. major*, density, 209(r); mate fidelity, 97(r); nest sites, 207(r); song patterns, 443(r)
- P. niger*, cooperative breeding & territory, 431(r)
- Passer domesticus*, body proportions, 438(r); nest box use, 340–341(r)
- P. montanus*, breeding, 332–333(r); Dutch elm disease effects, 435(r)
- Passerina cyanea*, cranial pneumatization, 58–66
- Pelecanus occidentalis*, ticks, 343(r); California, 353–373
- P. onocrotalus*, seasonal population variation, 106(r)
- Pelican, Great White**, see *Pelecanus onocrotalus*
- Peruvian Brown, see *Pelecanus occidentalis*
- Pelicanoides georgicus*, homeothermy, 437(r)
- P. urinatrix exsul*, homeothermy, 437(r)
- Penguin**, Adelie, see *Pygoscelis adeliae*
King, see *Aptenodytes patagonica*
Macaroni, see *Eudyptes chrysophrys*
Rockhopper, see *Eudyptes crestatus*
- Pernis apivorus*, Italy, 101(r)
- Petrel**, Antarctic, see *Thalassoica antarctica*
Black-winged, see *Pterodroma nigripennis*
Northern Giant, see *Macronectes halli*
Snow, see *Pagodroma nivea*
- Phaenostictus mcleannani*, longevity, 413–414
- Phalacrocorax africanus*, Angola, 106–107(r)
- P. aristotelis*, Isle of May, 440(r); promiscuity, 96(r)
- P. atriceps*, oxygen consumption, 437(r)
- P. bougainvilli*, ticks, 343(r)
- P. carbo*, biology & conservation, 342–343(r)
- Pheucticus ludovicianus*, foraging, 211(r)
- Phoenicurus ochruros*, breeding, 332–333(r)
- Phylloscopus collybita*, Dutch elm disease effects, 435(r)
- P. trochiloides*, migration, 428(r)
- P. trochilus*, banding, 203(r); polygamy, 209(r)
- physiology**
Blackbird, European, seasonal variation of hormones, 104(r)
- Red-winged, brood size & thermoregulation, 104(r)
- Chicken, brain asymmetry and light experience, 216–217(r)
- Chukar, nasal salt gland absence, 104(r)
- Dove, Rock, thermogenesis, 103(r)
Turtle, shallow torpor & sleep, 437(r)
- ear, sound transmission regulator, 438(r)
- Emu, digestion, 437(r)
- energy expenditure calculation, 103–104(r)
- Fulmar, Southern Giant, oxygen consumption, 437(r)
- galliformes, oxygen consumption & growth rate, 437(r)
- Mallard, male physical condition, 344(r)
- migrant metabolism, 437(r)
- Partridge, Sand, nasal salt gland absence, 104(r)
- Penguin, Adelie, oxygen consumption, 437(r)
King, diving depths & energy, 104(r)
petrel, diving, homeothermy, 437(r)
- Prion, Antarctic, homeothermy, 437(r)
- Raven, White-necked, temperature regulation, 437(r)
- Shag, Blue-eyed, oxygen consumption, 437(r)
- Skua, South Polar, oxygen consumption, 437(r)
- Starling, homeothermy & endothermy, 103(r)
- Streamertail, Black-billed, energy expenditure, 103(r)
- Pica pica*, urban distribution, 440(r)
- Picoides borealis*; Georgia relocation, 214–215(r); roosting, 72–76, 102(r); study techniques, 92–93
- P. major*, foraging, 340(r); sapsucking, 349(r)
- P. medius*, foraging, 340(r)
- P. pubescens*, foraging, 212(r)
- Pigeon, see *Columba livia*
Band-tailed, see *Columba fasciata*
- Pipilo erythrourhynchus*, alerting & message components, 350(r)
- Pipit, Water, see *Anthus spinolella*
- Pipra chloromeros*, mobility & spatial distribution, 407–412
- Piranga olivacea*, foraging, 211(r)
- Plautus alle*, escape behavior, 329–331
- Ploceus cucullatus*, demography, 95(r)
- Plover, Blacksmith, see *Vanellus armatus*
Golden, see *Pluvialis apricaria*
Ringed, see *Charadrius hiaticula*
- plumages & molt**
Dunnock, 345–346(r)

- Gull, Lesser Black-backed, wing color, 219(r)
 Black-headed, primary molt, 218(r)
 Herring, wing-tip pattern, 105–106(r)
- Owl, Spotted, tail barring, 439–440(r)
- Plover, Golden, biometry & molt, 218–219(r)
- Sparrowhawk, 218(r)
- Starling, European, ageing nestlings, 440(r)
- Swallow, Tree, age & color, 312–318
- Swift, House, molt, 439(r)
- Tanager, Blue-backed, 106(r)
- Tern, Least, 187–190
- Vireo, White-eyed, incomplete juvenile molt, 50–57
- Warbler, Canada, 152–159
 Whitethroat, 345–346(r)
- Pluvialis apricaria*, biometry & molt, 218–219(r); Dunlin association, 434(r)
- Podiceps cristatus*, morphology, 218(r)
- P. griseogenus*, morphology, 218(r)
- Polyboroides typus*, breeding, 333(r)
- Polyborus plancus*, status, 100–101(r)
- Pooecetes grammurus*, sagebrush control effects, 214(r)
- population dynamics
 Eider, Common, Kent Island, 29–35
 Flicker, Common, nest-box use, 206(r)
 Fulmar, Ythan estuary, 206(r)
 Goldeneye, Barrow's nest-box use, 206(r)
 Grouse, Red, 206–207
 Gull, Great Black-backed, Finland, 428–429(r)
 Herring, Finland, 428–429(r); Kent Island, 29–35
 Lesser Black-backed, Finland, 428–429(r)
- Kestrel, American, nest-box use, 206(r)
- Kittiwake, Britain, 332(r)
- Oystercatcher, cold stress, 429(r); starvation, 205–206(r); wintering 94(r)
- Redshank, starvation, 205–206(r)
- Sandpiper, Common, breeding, 429(r)
- Shelduck, Common, limits, 429(r)
- Storm-Petrel, Leach's, Kent Island, 29–35
- Tern, Common, Great Lakes, 160–169
 Weaver, Village, 95(r)
- Prion, Antarctic, see *Pachyptila desolata*
- Progne subis*, post-breeding roost, 36–41
- Prunella modularis*, Dutch elm disease effects, 435(r); plumage & molt, 345–346(r); pre-copulatory displays, 432(r)
- P. rubeculaoides*, breeding, 332–333(r)
- Pseudopodoces humilis*, breeding, 332–333(r)
- Pterodroma nigripennis*, Pacific, 220(r)
- Ptyonoprogne rupestris*, flight speed, 432–433(r)
- Puffin, Atlantic, see *Fratercula arctica*
- Puffinus auricularis*, biology & taxonomy, 346(r)
- P. griseus*, annual cycle, 208(r)
- Pygoscelis adeliae*, oxygen consumption, 437(r)
- Pyrrhula pyrrhula*, alcohol metabolism, 442(r); captive breeding, 207(r)
- Quebec, Razorbill, 101(r); Red-shouldered Hawk, 429–430(r)
- Rail, Buff-banded, see *Gallirallus philippensis*
- ratite, phylogeny by DNA, 107–108(r)
- Raven, Common, see *Corvus corax*
 White-necked, see *Corvus albicollis*
- Razorbill, see *Alca torda*
- Redpoll, Common, see *Carduelis flammea*
- Redshank, see *Tringa totanus*
- Redstart, American, see *Setophaga ruticilla*
 Black, see *Phoenicurus ochruros*
- Regulus regulus*, Dutch elm disease effects, 435(r); parental care, 208(r); temperature & foraging, 97(r); winter partial migration, 211–212(r)
- Riparia riparia*, flight speed, 432–433(r); multi-brooding & infidelity, 333(r)
- Rissa tridactyla*, Britain, 332; feeding flocks, 196–199; geographic variation, 346–347(r); Isle of May, 440(r)
- Robin, European, see *Erythacus rubecula*
- Rosyrhamus sociabilis*, water levels & population, 237–246
- Rwanda, 106(r)
- Rynchos niger*, longevity, 203(r)
- Sandpiper, Purple, see *Calidris maritima*
- Saxicola rubetra*, effects of silo installation, 102(r)
- Scotland, breeding waders, 440–441(r); Golden Eagle & Peregrine Falcon, 436(r)
- Setophaga ruticilla*, foraging, 211(r)
- Seychelles, 430–431(r)
- Shag, see *Phalacrocorax aristotelis*
 Blue-eyed, see *Phalacrocorax atriceps*
- Shearwater, Sooty, see *Puffinus griseus*
 Townsend's, see *Puffinus auricularis*
- Shelduck, Common, see *Tadorna tadorna*
 Ruddy, see *Tadorna ferruginea*
- Shoveler, see *Anas clypeata*
- Sialia currucoides*, brood size, 304–311; nestling growth, 259–265
- S. sialis*, brood size, 304–311; nest box use, 340–341(r); nest fauna, 344(r)
- Siskin, Pine, see *Carduelis pinus*
- Sitta carolinensis*, winter foraging, 212(r)

- Skimmer, Black, see *Rynchops niger*
 Skua, South Polar, see *Catharacta skua*
 Skylark, Oriental, see *Alauda gulgula*
 Snow-finches, Red-necked, see *Montifringilla ruficollis*
 Taczanowski's, see *Montifringilla taczaniowskii*
 Solitaire, Townsend's, see *Myadestes townsendi*
Somateria mollissima, female sociality, 331(r); Kent Island, 29–35
song & vocalizations
 Blackbird, Red-winged, lack of vocal mate recognition, 200–202
 Bunting, Corn, dialect, 350(r)
 Chaffinch, song development, 350(r)
 Tit, Great, changing patterns, 443(r)
 Towhee, Rufous-sided, alerting & message components, 350(r)
 Sparrow, Brewer's, see *Spizella breweri*
 Eurasian Tree, see *Passer montanus*
 Grasshopper, see *Ammodramus savannarum*
 House, see *Passer domesticus*
 Lincoln's, see *Melospiza lincolni*
 Song, see *Melospiza melodia*
 Vesper, see *Pooecetes gramineus*
 White-throated, see *Zonotrichia albicollis*
 Sparrowhawk, see *Accipiter nisus*
Speotyto cunicularia, Nevada, 436(r); status, 100–101(r)
Spiza americana, cowbird host, 414–417
Spizella breweri, sagebrush control, 214(r)
 Spoonbill, Roseate, see *Ajaia ajaja*
 Starling, European, see *Sturnus vulgaris*
Stercorarius parasiticus, feeding, 331
Sterna antillarum, molt, 187–190
S. caspia, Lake Ontario nesting, 170–186
S. dougallii, band wear & loss, 90; organochlorine residues, 394–400
S. hirundo, Angola, 106–107(r); band wear & loss, 91; belly-soaking, 190–192; Finland, 220–221(r); 1–16; Great Lakes, 160–169, 219(r)
S. maxima, pollutants, 295–303
S. paradisea, Angola, 106–107(r); band wear, 91; Finland, 220–221(r)
S. sandivicensis, Angola, 106–107(r)
 Stork, White, see *Ciconia ciconia*
 Storm-Petrel, Leach's, see *Oceanodroma leucorhoa*
 Streamertail, Black-billed, see *Trochilus polytmus*
Streptopelia risoria, sleep & shallow torpor, 437(r)
Strix aluco, feeding, 222(r); unusual nest, 208(r)
S. occidentalis, tail barring, 439–440(r)
S. varia, fishing, 88–89
Sturnella neglecta, sagebrush control effects, 214(r); uncultivated grassland, 342(r)
Sturnus vulgaris, ageing, 440(r); banding, 194–195, 203(r); brood raising, 207(r); homeothermy & endothermy, 103(r); navigation, 203–204(r); nest box use, 206(r); nest sites, 207(r); New Zealand, 348(r); radio-controlled trap, 194–195
Sula variegata, ticks, 343(r)
 Swallow, Barn, see *Hirundo rustica*
 Red-rumped, see *Cecropis daurica*
 Tree, see *Tachycineta bicolor*
 Swan, Maltese, see *Cygnus falconeri*
 Sweden, Pied Flycatcher, 430(r)
 Swift, see *Apus apus*
 House, see *Apus affinis*
 Switzerland, Whinchat, 102(r); migration & weather, 332(r)
Sylvia borin, endogenous rhythm & migration, 94(r); orientation, 204(r)
S. cantillans, breeding season, 338(r)
S. communis, molt & plumage, 345–346(r)
S. hortensis, breeding season, 338(r)
S. melanocephala, breeding season, 338(r)
S. undata, breeding season, 338(r)
systematics & paleontology
 avian mtDNA, 109(r)
 Chat, Yellow-breasted, macromolecular evolution rate, 109(r)
 Gmelin's ambiguous description, 108(r)
 Goose, Bean, cladogenesis & evolution, 108(r)
 Tule White-fronted, 441(r)
 grebes, phylogenetics & monophyly, 221(r)
 Hawaiian fossil birds, 109–110(r)
 Kittiwake, geographic variation, 346–347(r)
 loons, phylogenetics & monophyly, 221(r)
 mitochondrial malate dehydrogenase, 108(r)
 moas, taxonomic status, 221(r)
 raptors, new species, 221(r)
 ratite phylogeny by DNA, 107–108(r)
 Shearwater, Townsend's, biology & taxonomy, 346(r)
 Swan, Maltese, 347(r)
 Wren, New Zealand, DNA hybridization, 108–109(r)
Tachycineta bicolor, banding & reproduction, 319–323; breeding biology, 213–214(r), 436–437(r); nest box use, 340–341(r); plumage, 312–318; radio-controlled trap, 194–195
Tadorna ferruginea, Britain, 219(r)

- T. tadorna*, population limitation, 429(r)
Tanager, Blue-backed, see *Cyanicterus cyanicterus*
 Scarlet, see *Piranga olivacea*
- techniques**
 automatic recording of nest visits, 192–194
Chickadee, Black-capped, population estimates, 138–145
 elevated mist nets, 84–88
 patagial tags, 326–328
 radio-controlled trap, 194–195
 spot-mapping census, 42–49
- Tern*, Arctic, see *Sterna paradisaea*
 Black, see *Chlidonias niger*
 Caspian, see *Sterna caspia*
 Common, see *Sterna hirundo*
 Least, see *Sterna antillarum*
 Roseate, see *Sterna dougallii*
 Royal, see *Sterna maxima*
 Sandwich, see *Sterna sandvicensis*
- Texas, pollutants, 295–303
- Thalassioica antarctica*, distribution, 440(r)
- Thrasher*, Brown, see *Toxostoma rufum*
 Sage, see *Oreoscoptes montanus*
- Thrush*, Wood, see *Hylocichla mustelina*
- Thryomanes bewickii*, migration, 17–28
- Thryothorus ludovicianus*, 17
- Tit*, Black, see *Parus niger*
 Blue, see *Parus caeruleus*
 Coal, see *Parus ater*
 Great, see *Parus major*
- Titmouse*, Tufted, see *Parus bicolor*
- Towhee*, Rufous-sided, see *Pipilo erythrorthalus*
- Toxostoma rufum*, cowbird host, 414–417
- Tree Creeper*, see *Certhia familiaris*
- Tringa totanus*, mallophaga, 216(r); starvation, 205–206(r)
- Trochilus polytmus*, energy expenditure, 103(r)
- Troglodytes aedon*, breeding biology, 213–214(r); migration, 17–28; nest box use, 340–341(r)
- T. troglodytes*, migration, 17–28
- Turdus merula*, banding, 203(r); seasonal variation of hormones, 104(r); winter strategies, 428(r)
- T. pilaris*, clutch & nest size, 95(r)
- Twite*, see *Acanthis flavirostris*
- Tyrannus tyrannus*, cowbird host, 414–417
- Uria aalge*, breeding biology, 275–282; fledging, 266–274; Isle of May, 440(r)
- U. lomvia*, breeding biology, 275–282; fledging, 266–274
- USSR, Academy of Sciences' Zoological Institute, 110(r); conservation, 215(r); Leningrad avifauna, Emperor Goose, 335–336(r)
- Vanellus armatus*, parental behavior, 337–338(r)
- V. chilensis*, parental behavior, 337–338(r)
- V. coronatus*, parental behavior, 337–338(r)
- V. crassirostris*, parental behavior, 337–338(r)
- V. vanellus*, habitat & reproduction, 207–208(r); mallophaga, 216(r)
- Vermivora ruficapilla*, Michigan, 106(r)
- Vestiaria coccinea*, competition, 99(r)
- Vireo griseus*, juvenile incomplete molt, 50–57
- Vireo*, White-eyed, see *Vireo griseus*
- Volatinia jacarina*, Darwin's finches, origin, 110(r)
- Vulture*, Bearded, see *Gypaetus barbatus*
 Cinereous, see *Aegypius monachus*
 Egyptian, see *Neophron percnopterus*
- Wagtail*, Yellow-hooded, see *Motacilla citreola*
- Warbler*, Aquatic, see *Acrocephalus paludicola*
 Bay-breasted, see *Dendroica castanea*
 Canada, see *Wilsonia canadensis*
 Dartford, see *Sylvia undata*
 Garden, see *Sylvia borin*
 Great Reed, see *Acrocephalus arundinaceus*
- Greenish, see *Phylloscopus trochiloides*
 Marsh, see *Acrocephalus palustris*
 Melodious, see *Hippolais polyglotta*
 Moustached, see *Acrocephalus melanopogon*
- Nashville, see *Vermivora ruficapilla*
 Orphean, see *Sylvia hortensis*
 Reed, see *Acrocephalus scirpaceus*
 Sardinian, see *Sylvia melanocephala*
 Sedge, see *Acrocephalus schoenobaenus*
 Subalpine, see *Sylvia cantillans*
 Willow, see *Phylloscopus trochilus*
 Yellow, see *Dendroica petechia*
- Waxwing*, Bohemian, see *Bombycilla garrulus*
- Weaver, Village, see *Ploceus cucullatus*
 Whinchat, see *Saxicola rubetra*
 Widowbird, see *Euplectes progne*
- wildlife management & economic ornithology**
 aerial survey, 100(r)
 agriculture, avian use of vertical strata & plantings; bird populations and, 341–342(r); Red-winged Blackbird, 341(r);
 Bluebird, Eastern, nest box use, 340–341(r)
- Bobwhite, Northern, habitat management response, 435(r)

- Bunting, Lark, feeding in uncultivated grassland, 342(r)
- Canvasback, age determination, 434-435(r)
- Caracara, Crested, 100-101(r)
- culling effects, 341(r)
- Eagle, Bald, 100-101(r)
- Falcon, Aplomado, 100-101(r)
- Peregrine, 100-101(r)
 - Prairie, 100-101(r)
- Goose, Snow, Canada, 212-213(r)
- Harrier, Northern, 100-101(r)
- Hawk, Cooper's, Nevada, 436(r); status, 100-101(r)
- Ferruginous, 100-101(r); habitat use, 435(r)
- Sharp-shinned, 100-101(r)
- Lark, Horned, uncultivated grassland, 342(r)
- Longspur, Chestnut-collared, uncultivated grassland, 342(r)
- Meadowlark, Western, uncultivated grassland, 342(r)
- Merlin, 100-101(r)
- Osprey, 100-101(r)
- Owl, Burrowing, 100-101(r)
- Sparrow, House, nest box use, 340-341(r)
- Swallow, Tree, nest box use, 340-341(r)
- Tufted Titmouse, nest box use, 340-341(r)
- waterfowl, Volga delta, 213(r)
- Wren, House, nest box use, 340-341(r)
- Whitethroat, see *Sylvia communis*
- Wilsonia canadensis*, plumage variation, 152-159
- Woodcreeper, Plain-brown, see *Dendrococcyx fuliginosa*
- Woodpecker, Downy, see *Picoides pubescens*
- Great-spotted, see *Picoides major*
 - Middle-spotted, see *Picoides medius*
 - Pileated, see *Dryocopus pileatus*
 - Red-bellied, see *Melanerpes carolinus*
 - Red-cockaded, see *Picoides borealis*
 - Red-headed, see *Melanerpes erythrocephalus*
- Wren, Bewick's, see *Thryomanes bewickii*
- Carolina, see *Thryothorus ludovicianus*
- House, see *Troglodytes aedon*
- Marsh, see *Cistothorus palustris*
- Sedge, see *Cistothorus platensis*
- Winter, see *Troglodytes troglodytes*
- Wyoming, 101-102(r)
- Yellowthroat, Common, see *Geothlypis trichas*
- Zenaida galpagoensis*, bill-shove feeding, 421-422
- Zonotrichia albicollis*, light polarization and, 332(r); Michigan, 106(r)