

# **Bibliography of Research Publications of the U.S. Bureau of Sport Fisheries and Wildlife, 1928-72**



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OF SPORT FISHERIES AND WILDLIFE,  
1928-72**

**Edited by**

**Paul H. Eschmeyer, *Division of Fishery Research*  
Van T. Harris, *Division of Wildlife Research***

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**BIBLIOGRAPHY OF RESEARCH PUBLICATIONS OF THE U.S. BUREAU  
OF SPORT FISHERIES AND WILDLIFE, 1928-72**

**INTRODUCTION**

This bibliography comprises publications in fishery and wildlife research authored or coauthored by research scientists of the Bureau of Sport Fisheries and Wildlife and certain predecessor agencies. Separate lists, arranged alphabetically by author, are given for each of 17 fishery research and 6 wildlife research laboratories, stations, investigations, or centers. Publications coauthored by Bureau scientists from different research units are credited to the facility at which the senior author was stationed at the time of publication.

Although the Federal Government has supported research on fish and wildlife since the late 1800's, the relatively few works published in the early years are not directly identifiable with the existing or recent research units whose bibliographies are included here. Consequently the present lists, with three exceptions, are limited to the contributions of facilities that began operation in or after 1939, the year in which the Department of the Interior was given responsibility for fishery and wildlife research. The exceptions are the Great Lakes Fishery Laboratory (established in 1927), the Tunison Laboratory of Fish Nutrition (1932), and the Western Fish Disease Laboratory (1935).

Fishery and wildlife research were united in the Department of the Interior by the transfer of the Bureau of Fisheries from the Department of Commerce and Labor, and the Bureau of Biological Survey from the Department of Agriculture. In 1940 these Bureaus were merged to form the Fish and Wildlife Service, which in turn was divided in 1956 into the Bureau of Sport Fisheries and Wildlife and the Bureau of Commercial Fisheries. Fishery Research and Wildlife Research were designated as branches or divisions of the Fish and Wildlife Service (1940-56) or the Bureau of Sport Fisheries and Wildlife (1956-72).

The Bureau of Commercial Fisheries was transferred in 1970 to the Department of Commerce, and became the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration. Inasmuch as all marine sport fishery activities were transferred to that agency from the Bureau of Sport Fisheries and Wildlife at the same time, the present bibliography does not include publications of the marine fishery research laboratories at Narragansett, Rhode Island; Highlands, New Jersey; Panama City, Florida; and Tiburon, California.

This series of lists thus constitutes primarily a bibliography of publications that have resulted from freshwater fishery research and wildlife research sponsored wholly or partly by the Department of the Interior in 1939-72. Besides providing a permanent record of that work, the more than 4,500 citations demonstrate the variety, scope, and depth of the research undertaken by the Department in its function of gathering and disseminating information on fish and wildlife. A considerable number of the citations represent the successful culmination of cooperative studies—commonly interdisciplinary—between Bureau scientists and those of other Government agencies, universities, State agencies, and other countries. The bibliography reflects the changing interests over time that have

been dictated by modifications of the environment and growth of the human population; it reflects also the complex research procedures and techniques that have been developed to deal with the increasingly diverse and severe problems that confront biologists everywhere.

Some of the recent publications listed here are available as reprints, by request from the various research units or the authors. Others, in Government publication series, may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Many, however—especially the older works—are out of print and available only in libraries. Fishery and wildlife scientists and others who desire information on subjects of particular interest to them, or on the availability of publications, are invited to communicate directly with the research facilities.

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**CENTRAL OFFICE, DIVISION OF FISHERY RESEARCH**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Washington, D.C. 20240**

The Central Office of the Division of Fishery Research supervises the planning, performing, and reporting of research to provide the knowledge needed for effective and efficient management of the Nation's anadromous and freshwater sport fishery resources. During 1972-73, research in fish husbandry, ecosystems, and pest control was divided among 14 laboratories and 14 field stations.

Fish husbandry research has been concerned with the production and use of hatchery fish and has included work in nutrition, pathology, cultural methods, genetics, and environmental requirements. Ecosystem research has been directed toward improving our understanding of the physical, chemical, and biological factors governing the abundance and distribution of sport fishes in the natural environment—primarily in the Great Lakes and large reservoirs. Pest control research has been centered on determining the amounts, kinds, and formulations of pesticides that are lethal or injurious to fish and other aquatic life and on developing chemical, biological, electrical, and mechanical methods of controlling or managing freshwater fish populations.

**DIVISION OF FISHERY RESEARCH**

1959-72. Progress in sport fishery research, 1957-70. Annual reports of the Division of Fishery Research. U.S. Bur. Sport Fish. Wildl. 1959, Circ. 57 (Rep. for 1957-58; 89 pp.); 1960, Circ. 81 (Rep. for 1959; 80 pp.); 1961, Circ. 101 (Rep. for 1960; 96 pp.); 1962, Circ. 132 (Rep. for 1961; 90 pp.); 1963, Circ. 160 (Rep. for 1962; 118 pp.); 1964, Circ. 178 (Rep. for 1963; 180 pp.); 1965, Circ. 210 (Rep. for 1964; 115 pp.); 1966, Resour. Publ. 17 (Rep. for 1965; 120 pp.); 1967, Resour. Publ. 39 (Rep. for 1966; 195 pp.); 1968, Resour. Publ. 64 (Rep. for 1967; 220 pp.); 1969, Resour. Publ. 77 (Rep. for 1968; 259 pp.); 1970, Resour. Publ. 88 (Rep. for 1969; 284 pp.); 1972, Resour. Publ. 106 (Rep. for 1970; 318 pp.).

**HANDWERK, PAUL S.**, editor.

1963-65. Sport fishery abstracts: an abstracting service for fishery research and management. 8(3)-10(1). U.S. Bureau of Sport Fisheries and Wildlife, Washington, D.C.

**HOWLAND, ROBERT M.**, editor.

1969-72. Sport fishery abstracts: an abstracting service for fishery research and management. 14(4)-17(4). U.S. Bureau of Sport Fisheries and Wildlife, Washington, D.C.

**KIMSEY, J. B.**

1971. Recreational aspects of oceanography. Pages 159-164 in Proc. Symp. Mar. Sci. Bus. Potentials, Transference Technol. Ser. 3. University of Texas, Austin.

**LEE, GEORGE R.**, editor.

1965-69. Sport fishery abstracts: an abstracting service for fishery research and management. 10(2)-14(3). U.S. Bureau of Sport Fisheries and Wildlife, Washington, D.C.

**THOMPSON, PAUL E.**

1959. Fishery research and conservation. Bull. Med. Res. 13(1):12-15, 30.  
1959. Miracle drugs for fishermen. Sports Afield 141(4):10-14.  
1959. Review of *Codfish, cats, and civilization*, by Gary Webster. Atl. Nat. 14(4):285-286.  
1960. Review of *The run*, by John Hay. Atl. Nat. 15(2):143.  
1961. Review of *A biography of the sea*, by Richard Carrington. Atl. Nat. 16(3):208-209.  
1961. Review of *Thousand acre marsh*, by Dudley Cammett Lunt; and *Life in the shifting dunes*, by Laurence B. White, Jr. Atl. Nat. 16(1):65.  
1962. Review of *Dolphins: the myth and the mammals*, by Antony Alpers. Atl. Nat. 17(3):203.  
1962. Review of *Exploring the seacoast*, by John and Jane Greverus Perry. Atl. Nat. 17(2):151.  
1962. Review of *The nerve of some animals*, by Robert Froman. Atl. Nat. 17(1):68.  
1966. Review of *Spring comes to the ocean*, by Jean Craighead George. Atl. Nat. 21(2):120.  
1967. Review of *The Atlantic shore*, by John Hay and Peter Farb; and *Where the sea breaks its back*, by Corey Ford. Atl. Nat. 22(1):62.  
1967. Review of *The life of the ocean*, by N. J. Berrill. Atl. Nat. 22(4):242.  
1969. Review of *Harvest of the sea*, by John Bar-dach, 1969; and *The sea brings forth*, by Jack Rudloe. Atl. Nat. 24(1):50.  
**WALKER, CHARLES R.**  
1970. Control of aquatic weeds. Pages 28-30 in Off. Rep. U.S. Deleg. FAO [Food Agric. Organ. U.N.] Int. Conf. Weed Control. Food and Agricultural Organization, Davis, California.

WALKER, CHARLES R.

1970. Effects of herbicide residues on the environment. Pages 30-32 in Rep. U.S. Deleg. FAO [Food Agric. Organ. U.N.] Int. Conf. Weed Control. Food and Agricultural Organization, Davis, California.

1971. The toxicological effects of herbicides and weed control on fish and other organisms in the

aquatic ecosystem. Proc. Eur. Weed Res. Counc., Int. Symp. Aquatic Weeds 3:119-127.

1972. Ecological implications of pesticides used in or near aquatic environments. Proc. Tech. Sess., Annu. Meet. Inst. Environ. Sci. 18:235-237.

1972. Modern biocides—a new dimension to water's complex environment. Weeds, Trees, and Turf 11(7):14-51.

**EASTERN FISH DISEASE LABORATORY**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Kearneysville, West Virginia 25430**

The Eastern Fish Disease Laboratory is in West Virginia's scenic Eastern Panhandle, on the grounds of the Leetown National Fish Hatchery. It began in 1932 as the U.S. Fisheries Experimental Station, a one-man operation housed in the hatchery building. It was later known as the Microbiological Laboratory, and in 1957 was renamed the Eastern Fish Disease Laboratory.

The principal function of the Laboratory is to carry out research in bacteriology, chemotherapy, histopathology, immunology, parasitology, and virology directed toward detection and identification of infectious diseases of fish and development of methods of control. The Laboratory also offers a comprehensive biennial 5-month course that includes lectures and laboratory and field work on the detection, diagnosis, identification, and control of fish diseases. As needed, workshops are held to provide instruction in new methods of disease detection and control. Participants in the training programs are from Federal, State, and private agencies.

A comprehensive collection of literature on the various aspects of fish diseases is housed in the library. Included are more than 250 publications by the staff. "Fish Health News," a quarterly newsletter, was begun in 1972. It lists library accessions with brief annotations, reviews, and news items of interest to hatchery biologists and others interested in fish health research.

Papers published before 1947, which pertained to fish culture or stream investigations, are not included here.

BENSCHOTER, C. A., T. C. ALLISON, J. F. BOYD, M. A. BROOKS, J. W. CAMPBELL, R. O. GROVES, A. M. HEIMPEL, H. E. MILLS, S. M. RAY, J. W. WARREN, K. E. WOLF, E. M. WOOD, R. T. WRENN, and Z. ZEIN-ELDIN.  
1970. Apollo 11: exposure of lower animals to lunar material. *Science* 169(3944):470-472.

BILLI, JAMES L., AND KEN WOLF.  
1969. Quantitative comparison of peritoneal washes and feces for detecting infectious pancreatic necrosis (IPN) virus in carrier brook trout. *J. Fish. Res. Board Can.* 26(6):1459-1465.

BOWEN, J. T.  
1966. Parasites of freshwater fish. IV. Miscellaneous. 4. Parasitic copepods *Ergasilus*, *Achtheres*, and *Salmincola*. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 4. 4 pp.

BOWEN, J. T., AND R. E. PUTZ.  
1966. Parasites of freshwater fish. IV. Miscellaneous. 3. Parasitic copepod *Argulus*. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 3. 4 pp.

BULLOCK, GRAHAM L.  
1961. A schematic outline for the presumptive identification of bacterial diseases of fish. *Prog. Fish-Cult.* 23(4):147-151.  
1961. The identification and separation of *Aeromonas liquefaciens* from *Pseudomonas fluorescens* and related organisms occurring in diseased fish. *Appl. Microbiol.* 9(6):587-590.

1962. A new medium for isolation and presumptive identification of *Aeromonas salmonicida*. *Prog. Fish-Cult.* 24(4):184.  
1964. Pseudomonadales as fish pathogens. *Dev. Ind. Microbiol.* 5:101-108.  
1965. Characteristics and pathogenicity of a capsulated *Pseudomonas* isolated from goldfish. *Appl. Microbiol.* 13(1):89-92.  
1965. Simple enrichment of commercial media for growth of *Hemophilus piscium*. *Prog. Fish-Cult.* 27(3):163-164.  
1966. Precipitin and agglutinin reactions of aeromonads isolated from fish and other sources. *Bull. Off. Int. Epizoot.* 65(5/6):805-824.  
1968. The bacteriology of brook trout with tail rot. *Prog. Fish-Cult.* 30(1):19-22.  
1972. Studies on selected Myxobacteria pathogenic for fishes and on bacterial gill disease in hatchery-reared salmonids. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 60. 30 pp.

BULLOCK, G. L., AND DIANE COLLIS.  
1969. Oxytetracycline sensitivity of selected fish pathogens. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 32. 9 pp.

BULLOCK, GRAHAM L., AND JOHN J. A. McLAUGHLIN.  
1970. Advances in knowledge concerning bacteria pathogenic to fishes (1954-1968). Pages 231-242 in Stanislas F. Snieszko, ed. A symposium on dis-

BULLOCK, GRAHAM, L., AND JOHN J. A. MC LAUGHLIN. 1964. Diseases of fishes and shellfishes. Am. Fish. Soc., Spec. Publ. 5.

BULLOCK, G. L., AND A. J. ROSS. 1964. Crystal formation in furunculosis agar. Prog. Fish-Cult. 26(1):25-26.

BULLOCK, G. L., AND S. F. SNIESZKO. 1969. Bacteria in blood and kidney of apparently healthy hatchery trout. Trans. Am. Fish. Soc. 98(2):268-271.

1970. Fin rot, coldwater disease, and peduncle disease of salmonid fishes. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 25. 3 pp.

BULLOCK, G. L., S. F. SNIESZKO, AND C. E. DUNBAR. 1965. Characteristics and identification of oxidative pseudomonads isolated from diseased fish. J. Gen. Microbiol. 38(1):1-7.

CAMPBELL, JAMES B., AND KEN WOLF. 1969. Plaque assay and some characteristics of Egtved virus (virus of viral hemorrhagic septicemia of rainbow trout). Can. J. Microbiol. 15(6):635-637.

CURRAN, DONALD, AND R. L. HERMAN. 1969. Oxytetracycline efficacy as a pretreatment against *columnaris* and furunculosis in coho salmon. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 34. 6 pp.

DARLINGTON, ROBERT W., REBECCA TRAFFORD, AND KEN WOLF. 1972. Fish rhabdoviruses: morphology and ultrastructure of North American salmonid isolates. Arch. gesamte Virusforsch. 39:257-264.

DAVIS, H. W., G. L. HOFFMAN, AND E. W. SURBER. 1961. Notes on *Sanquinicola davisi* (Trematoda: Sanquinicolidae) in the gills of trout. J. Parasitol. 47(3):512-514.

DOBIE, JOHN, O. LLOYD MEEHEAN, S. F. SNIESZKO, AND GEORGE N. WASHBURN. 1956. Raising bait fishes. U.S. Fish Wildl. Serv., Circ. 35. 123 pp.

DUNBAR, CLARENCE E. 1969. Lymphosarcoma of possible thymic origin in salmonid fishes. Natl. Cancer Inst. Monogr. 31: 167-171.

DUNBAR, CLARENCE E., AND ROGER LEE HERMAN. 1971. Visceral granuloma in brook trout (*Salvelinus fontinalis*). J. Nutr. 101(11):1445-1452.

DUNBAR, C. E., AND KEN WOLF. 1966. The cytological course of experimental lymphocystis in the bluegill. J. Infect. Dis. 116:466-472.

FRIDDLE, S. B., AND S. F. SNIESZKO. 1950. Effect of tricaine methanesulfonate on the determination of sulfonamides. Science 112(2902): 181-182.

GRiffin, PHILIP J. 1951. A unique bacterium pathogenic for warm-blooded and cold-blooded animals. U.S. Fish Wildl. Serv., Fish. Bull. 52:187-190.

1953. A more comprehensive description of *Bacterium salmonicida*. Trans. Am. Fish. Soc. 82: 129-138.

1953. A new adjuvant in the diagnosis of fish furunculosis caused by *Bacterium salmonicida*. Vet. Med. 48(7):280-282.

1953. Pigment formation by *Bacterium salmonicida*. J. Bacteriol. 65(6):652-659.

GUTSELL, JAMES S. 1947. Furunculosis and its treatment. Prog. Fish-Cult. 9(1):13-20.

1948. The value of certain drugs, especially sulfa drugs, in the treatment of furunculosis in brook trout. *Salvelinus fontinalis*. Trans. Am. Fish. Soc. 75:186-199.

1949. The preparation of graphs for publications. Science 110(2859):403.

1951. The effect of sulfamerazine on the erythrocyte and hemoglobin content of trout blood. Biometrics 7(2):171-179.

GUTSELL, JAMES S., AND S. F. SNIESZKO. 1948. Brook and rainbow trout treated with sulfamerazine and calomel or sulfamerazine and carbarsone. Prog. Fish-Cult. 10(3):139-140.

1949. Dosage of sulfamerazine in the treatment of furunculosis in brook trout (*Salvelinus fontinalis*). Trans. Am. Fish. Soc. 76:82-96.

1949. Furunculosis in fish; its diagnosis and treatment. Vet. Med. 43(11):484-486.

1949. Response of brook, rainbow, and brown trout to various dosages of sulfamerazine. Trans. Am. Fish. Soc. 77:93-101.

HERMAN, ROGER LEE. 1968. Fish furunculosis. Trans. Am. Fish. Soc. 97(3):221-230.

1969. Oxytetracycline in fish culture—a review. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 31. 9 pp.

1969. Oxytetracycline toxicity to trout. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 33. 4 pp.

1970. Chemotherapy of fish diseases: a review. J. Wildl. Dis. 6(1):31-34.

1970. Effects of gossypol on rainbow trout *Salmo gairdneri* Richardson. J. Fish Biol. 2:293-303.

1970. Lymphosarcoma of the thymus of salmonids. Page 646 in R.M. Dutcher, ed. Comparative leukemia research 1969. Bibl. Haematol. 36.

1970. Prevention and control of fish diseases in hatcheries. Pages 3-15 in Stanislas F. Snieszko, ed. A symposium on diseases of fishes and shellfishes. Am. Fish. Soc., Spec. Publ. 5.

1971. Visceral granuloma and nephrocalcinosis. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 32. 2 pp.

HERMAN, R. L., DIANE COLLIS, AND G. L. BULLOCK. 1969. Oxytetracycline residues in different tissues of trout. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 37. 6 pp.

HERMAN, ROGER LEE, AND PAUL E. DEGURSE.

1967. Sulfamerazine residues in trout tissues. *Ichthyologica* 39(2):73-79.

HERMAN, ROGER LEE, AND ROBERT E. PUTZ.

1970. A microsporidan (Protozoa: Cnidospora) in channel catfish (*Ictalurus punctatus*). *J. Wildl. Dis.* 6(3):173.

HOFFMAN, GLENN L.

1959. Recommended treatment for fish parasite diseases. *U.S. Fish Wildl. Serv., Fish. Leafl.* 486. 4 pp.

1959. Studies on the life cycle of *Apatemon gracilis pellucidus* (Yamag.). *Trans. Am. Fish. Soc.* 88 (2):96-99.

1960. Synopsis of Strigeoidea (Trematoda) of fishes and their life cycles. *U.S. Fish Wildl. Serv., Fish. Bull.* 60:439-469.

1962. Whirling disease of trout. *U.S. Bur. Sport Fish. Wildl., Fish. Leafl.* 508. 3 pp.

1965. *Eimeria aurati* n. sp. (Protozoa:Eimeriidae) from goldfish (*Carassius auratus*) in North America. *J. Protozool.* 12(2):273-275.

1965. The control of fish parasites. Pages 283-285 in *Biological problems in water pollution—third seminar, 1962* (Clarence M. Tarzwell, compiler). U.S. Dep. Health Educ. Welfare, Public Health Serv. Publ. 999-WP-25.

1966. Review of *Key to parasites of freshwater fish of the U.S.S.R.*, by I.E. Bykhovskaya-Pavlovskaya, et al., 1962. (Transl. from Russian, 1964. Israel Prog. Sci. Transl. TT64-1104.) *J. Parasitol.* 52(1):191.

1967. An unusual case of fish disease caused by *Ophryoglena* sp. *Bull. Wildl. Dis. Assoc.* 3(3): 111-112.

1967. Parasites of North American freshwater fishes. University of California Press, Berkeley and Los Angeles. 486 pp.

1969. Intercontinental and transcontinental dissemination and transfaunation of fish parasites with emphasis on whirling disease (*Myxosoma cerebralis*). *Bull. Wildl. Dis. Assoc.* 5(3):371. (Abstr.)

1969. Parasites of freshwater fish. I. Fungi. 1. Fungi (*Saprolegnia* and relatives) of fish and fish eggs. *U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl.* 21. 6 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 564, same author and title, 1963).

1970. Control and treatment of parasitic diseases of freshwater fishes. *U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl.* 28. 7 pp.

1970. Control methods for snail-borne zoonoses. *J. Wildl. Dis.* 6(4):262-265.

1970. Incidental aquatic zoonoses. *J. Wildl. Dis.* 6(4):272.

1970. Intercontinental and transcontinental dissemination and transfaunation of fish parasites with emphasis on whirling disease (*Myxosoma cerebralis*). Pages 69-81 in Stanislas F. Snieszko, ed. *A symposium on diseases of fishes and shellfishes*. Am. Fish. Soc., Spec. Publ. 5.

1970. International control of parasitic diseases of fishes. *Proc. 2nd Int. Congr. Parasitol. J. Parasitol.* 56(4; Sect. 2, Part 1):151-152.

1970. Review of *Problems in systematics of parasites*, edited by G. D. Schmidt. *Am. Sci.* 58(3): 337-338.

1970. Review of *Symposia of the British Society for Parasitology*. Vol. 8. *Aspects of fish parasitology*, edited by A. E. R. Taylor and R. Muller. *J. Fish Biol.* 2(4):385-386.

1970. Whirling disease of trout and salmon caused by *Myxosoma cerebralis* in the United States of America. *Riv. Ital. Piscic. Ittiopatologia* 5(2): 29-33.

1971. Review of *A symposium on diseases of fishes and shellfishes*, edited by Stanislas F. Snieszko. *J. Parasitol.* 57(5):979.

1972. Review of *Check list of helminth parasites of African fishes*, by L. F. Khalil. *J. Parasitol.* 58(1):884.

HOFFMAN, GLENN L., HARRY BISHOP, AND C. E. DUNBAR.

1960. Algal parasite in fish. *Prog. Fish-Cult.* 22(4): 180.

HOFFMAN, GLENN L., AND C. E. DUNBAR.

1961. Mortality of Eastern brook trout caused by plerocercoids (Cestoda: Pseudophyllidae: Diphyllobothriidae) in the heart and viscera. *J. Parasitol.* 47(3):399-400.

1963. Studies on *Neogogaea kentuckiensis* (Cable, 1935) n. comb. (Trematoda: Strigeoidea: Cyathocotylidae). *J. Parasitol.* 49(5):737-744.

HOFFMAN, GLENN L., CLARENCE E. DUNBAR, AND ARTHUR BRADFORD.

1962. Whirling disease of trouts caused by *Myxosoma cerebralis* in the United States. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 427. 15 pp.

HOFFMAN, G. L., C. E. DUNBAR, K. WOLF, AND L. O. ZWILLENBERG.

1969. Epitheliocystis, a new infectious disease of the bluegill (*Lepomis macrochirus*). *Antonie van Leeuwenhoek J. Microbiol. Serol.* 35(2):146-158.

HOFFMAN, G. L., SR., AND G. L. HOFFMAN, JR.

1972. Studies on the control of whirling disease (*Myxosoma cerebralis*). 1. The effects of chemicals on spores *in vitro*, and of calcium oxide as a disinfectant in simulated ponds. *J. Wildl. Dis.* 8(1):49-53.

HOFFMAN, GLENN L., AND JAMES A. HUTCHESON.

1970. Unusual pathogenicity of a common metacercaria of fish. *J. Wildl. Dis.* 6(2):109.

HOFFMAN, GLENN L., AND JIRI LOM.

1967. Observations on *Tripartiella bursiformis*, *Trichodina nigra* and a pathogenic trichodinid, *Trichodina fultoni*. *Bull. Wildl. Dis. Assoc.* 3:156-159.

HOFFMAN, GLENN L., AND ROBERT E. PUTZ.

1964. Studies on *Gyrodactylus macrochiri* n. sp. (Trematoda: Monogenea) from *Lepomis macrochirus*. *Proc. Helminthol. Soc. Wash.* 31(1):76-82.

1965. The black-spot (*Uvulifer ambloplitis*: Trematoda: Strigeoidea) of centrarchid fishes. *Trans. Am. Fish. Soc.* 94(2):143-151.

HOFFMAN, GLENN L., AND ROBERT E. PUTZ.

1969. Host susceptibility and the effect of aging, freezing, heat, and chemicals on spores of *Myxosoma cerebralis*. *Prog. Fish-Cult.* 31(1):35-37.

1970. Problems of research on *Myxosoma cerebralis*. *Proc. 2nd Int. Congr. Parasitol.*, J. Parasitol. 56(4; Sect. 2, Part 1):152.

1971. Effect of freezing and aging on the spores of *Myxosoma cerebralis*, the causative agent of salmonid whirling disease. *Prog. Fish-Cult.* 33(2):95-98.

HOFFMAN, GLENN L., AND CARL J. SINDERMAYER.

1962. Common parasites of fishes. U.S. Fish Wildl. Serv., Circ. 144. 17 pp.

HOFFMAN, G. L., S. F. SNIESZKO, AND KEN WOLF.

1968. Approved procedure for determining absence of viral hemorrhagic septicemia and whirling disease in certain fish and fish products. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 9. 7 pp.

HUNN, JOSEPH B.

1964. Some patho-physiologic effects of bacterial kidney disease in brook trout. *Proc. Soc. Exp. Biol. Med.* 117(2):383-385.

KINCHELOE, JOHN W.

1962. The cultivation and drug sensitivity of *Myxobacteria* isolated from diseased fish. *Prog. Fish-Cult.* 24(3):119-126.

KNIGHT, ALEXIS E.

1963. The embryonic and larval development of the rainbow trout. *Trans. Am. Fish. Soc.* 92(4):344-355.

1964. Intracellular hemoglobin crystallization in two centrarchids, the largemouth bass and the bluegill. *Prog. Fish-Cult.* 26(3):115-117.

LARSEN, HOWARD N.

1964. Comparison of various methods of hemoglobin determination on catfish blood. *Prog. Fish-Cult.* 26(1):11-15.

LARSEN, HOWARD N., AND S. F. SNIESZKO.

1961. Comparison of various methods of determination of hemoglobin in trout blood. *Prog. Fish-Cult.* 23(1):8-17.

1961. Modification of the microhematocrit technique with trout blood. *Trans. Am. Fish. Soc.* 90(2):139-142.

LOM, JIRI, AND GLENN L. HOFFMAN.

1964. Geographic distribution of some species of trichodinids (Ciliata: Peritricha) parasitic on fishes. *J. Parasitol.* 50(1):30-35.

1971. Morphology of the spores of *Myxosoma cerebralis* (Hofer, 1903) and *M. cartilagineis* (Hoffman, Putz, and Dunbar, 1965). *J. Parasitol.* 57(6):1302-1308.

LONG, C. M. (chairman), B. C. BULLOCK, J. S. CASS, L. A. GRINER, C. W. MCPHERSON, S. F. SNIESZKO, AND M. E. TERRY.

1972. Laboratory animal medical subject headings. National Academy of Sciences. 212 pp.

MALSBERGER, RICHARD G., AND KEN WOLF.

1966. Virus diseases of fish. Pages 677-684 in James E. Prier, ed. *Basic medical virology*. Williams & Wilkins Co., Baltimore, Md.

PIPER, ROBERT G.

1970. Ulcer disease in trout. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 24. 3 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 466, same author and title, 1958.)

PIPER, ROBERT G., AND KEN WOLF.

1959. Cost of disease treatment. *Prog. Fish-Cult.* 21(3):135-137.

PLUMB, JOHN A.

1972. Channel catfish virus disease. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 18. 3 pp.

PLUMB, JOHN A., AND KEN WOLF.

1969. Temperature and seeding density: effects of growth rates of RTG-2 cells. *In Vitro* 4:125-126.

1971. Quantitative comparison of RTG-2 cell growth at 5-25° C. *In Vitro* 7(1):42-45.

PUTZ, ROBERT E.

1969. Parasites of freshwater fishes. II. Protozoa.

1. *Microsporidia* of fishes. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 20. 4 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 571, same author and similar title, 1964.)

1972. Biological studies on the hemoflagellates *Cryptobia cataractae* and *Cryptobia salmositica*. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 63. 25 pp.

1972. *Cryptobia cataractae* sp. n. (Kinetoplastida: Cryptobiidae), a hemoflagellate of some cyprinid fishes of West Virginia. *Proc. Helminthol. Soc. Wash.* 39(1):18-22.

PUTZ, R. E., AND J. T. BOWEN.

1968. Parasites of freshwater fishes. IV. Miscellaneous. The anchor worm (*Lernaea cyprinacea*) and related species. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 12. 4 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 575, same author and title, 1964.)

PUTZ, ROBERT E., AND GLENN L. HOFFMAN.

1963. Two new *Gyrodactylus* (Trematoda: Monogenea) from cyprinid fishes with synopsis of those found on North American fishes. *J. Parasitol.* 49(4):559-566.

1964. Studies on *Dactylogyrus corporalis* n. sp. (Trematoda: Monogenea) from the fallfish *Semotilus corporalis*. *Proc. Helminthol. Soc. Wash.* 31(2):139-143.

1966. Earliest susceptible age of rainbow trout to whirling disease. *Prog. Fish-Cult.* 28(2):82.

1966. *Urocleidus flieri* n. sp. (Trematoda: Monogenea) from the flier sunfish. *Proc. Helminthol. Soc. Wash.* 33(1):46-48.

PUTZ, ROBERT E., AND JOHN J. A. MC LAUGHLIN.

1970. Biology of Nosematidae (Microsporidia) from freshwater and euryhaline fishes. Pages 124-132 in Stanislas F. Snieszko, ed. *A symposium on diseases of fishes and shellfishes*. Am. Fish. Soc., Spec. Publ. 5.

PYLE, EARL A.

1960. Neutralizing chlorine in city water for use in fish-distribution tanks. *Prog. Fish-Cult.* 22(1):30-33.

RADULESCU, I., D. G. VASILIU, E. ILIE, AND S. F. SNIESZKO.

1968. Thyroid hyperplasia of the Eastern brook trout, *Salvelinus fontinalis*, in Romania. *Trans. Am. Fish. Soc.* 97(4):486-488.

RODGERS, E. O., B. H. HAZEN, S. B. FRIDDLE, AND S. F. SNIESZKO.

1951. The toxicity of pyridylmercuric acetate technical (PMA) to rainbow trout (*Salmo gairdnerii*). *Prog. Fish-Cult.* 13(2):71-73.

SNIESZKO, S. F.

1948. Experimental fish troughs. *Prog. Fish-Cult.* 11(1):79-81.

1949. Pyridylmercuric acetate technical: its use in control in gill disease and some external parasitic infestations. *Prog. Fish-Cult.* 11(3):153-155.

1952. Ulcer disease in brook trout (*Salvelinus fontinalis*): its economic importance, diagnosis, treatment, and prevention. *Prog. Fish-Cult.* 14(2):43-49.

1953. The disinfection of eyed trout eggs. *Prog. Fish-Cult.* 15(1):10.

1953. Virus diseases in fishes: outlook for their treatment and prevention. *Prog. Fish-Cult.* 15(2):72-74.

1954. Fish furunculosis. *Prog. Fish-Cult.* 16(3):143.

1954. Introduction. Pages 219-220 in *Symposium, research on fish diseases: a review of progress during the past 10 years*. *Trans. Am. Fish. Soc.* 83.

1954. Therapy of bacterial fish diseases. Pages 318-330 in *Symposium, research on fish diseases: a review of progress during the past 10 years*. *Trans. Am. Fish. Soc.* 83.

1957. Disease resistant and susceptible populations of brook trout (*Salvelinus fontinalis*). Pages 126-128 in *Contributions to the study of subpopulations of fishes* (John C. Marr, coordinator). U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 208.

1957. Use of antibiotics in the diet of salmonid fishes. *Prog. Fish-Cult.* 19(2):81-84.

1958. Fin rot and peduncle disease of salmonid fishes. U.S. Fish Wildl. Serv., Fish. Leafl. 462. 2 pp.

1958. Natural resistance and susceptibility to infections. *Prog. Fish-Cult.* 20(3):133-136.

1958. Suggestions for reduction of natural mortality in fish populations. *Trans. Am. Fish. Soc.* 87:380-385.

1959. Antibiotics in fish diseases and fish nutrition. *Antibiot. Chemother.* 9(9):541-545.

1961. Hepatoma and visceral granuloma in trout. N.Y. Fish Game J. 8(2):145-149.

1961. Microhematocrit values in rainbow trout, brown trout, and brook trout. *Prog. Fish-Cult.* 23(3):114-119.

1962. Disease-protective symbiosis among fishes and other aquatic animals. *Prog. Fish-Cult.* 24(2):59.

1962. Predisposing factors in the occurrence of diseases of fish. *Proc. Int. Conf. Wildl. Dis. (Wildl. Dis. Assoc.)* 1:56-58. (Microcard)

1962. Review of *Pocketbook of fish diseases for fishery biologists, veterinarians, fish culturists, and aquarium fanciers*, by Erwin Amlacher. [In German] *Copeia* 1962(3):670-671.

1963. An aid in the preparation of blood samples from fish. *Prog. Fish-Cult.* 25(4):174.

1963. Two foreign papers and an evaluation of the use of antibiotics to control infectious dropsy. *Prog. Fish-Cult.* 25(1):50-51.

1964. Remarks on some facets of epizootiology of bacterial fish diseases. *Dev. Ind. Microbiol.* 5:97-100.

1964. Selected topics on bacterial fish diseases. *Can. Fish Cult.* 32:19-24.

1965. The control of bacterial and virus diseases of fishes. Pages 281-282 in *Biological problems in water pollution—third seminar, 1962* (Clarence M. Tarzwell, compiler). U.S. Dep. Health Educ. Welfare, Public Health Serv. Publ. 999-WP-25.

1966. Present status of Federal and State government supported fish pathological research, teaching, and services in the U.S. of America. *Bull. Off. Int. Epizoot.* 65(7/8):1097-1106.

1968. Report of the Fish Disease Committee of the American Fisheries Society for the year 1967-1968. *Riv. Ital. Piscic. Ittiopatologia* 11(4):75-79.

1969. Cold-blooded vertebrate immunity to metazoa. Pages 267-275 in G. L. Jackson, Robert Herman, and Ira Singer, eds. *Immunity to parasitic animals*. Vol. 1. Appleton-Century-Crofts, Meredith Corp., New York.

1969. Columnaris disease of fishes. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 16. 3 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 461, same author and title, 1958.)

1969. Fish furunculosis. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 17. 4 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 467, same author and title, 1958.)

1970. Bacterial gill disease of freshwater fishes. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 19. 4 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 464, same author and title, 1958.)

1970. Immunization of fishes: a review. *J. Wildl. Dis.* 6(1):24-30.

1970. Nutritional (dietary) gill disease and other less known gill diseases of fresh-water fishes. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 23. 2 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 463, same author and title, 1958.)

1972. Nutritional fish diseases. Pages 403-437 in John E. Halver, ed. *Fish nutrition*. Academic Press, New York.

1972. Progress in fish pathology in this century. *Symp. Zool. Soc. London* 30:1-15.

SNIESZKO, S. F., ASSISTED BY JIMMY E. CAMPER, FRED J. HOWARD, AND LYLE L. PETTJOHN.

1960. Microhematocrit as a tool in fishery research and management. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 341. 15 pp.

SNIESZKO, STANISLAS F., editor.

1970. A symposium on diseases of fishes and shellfishes. Special Publication 5 of the American Fisheries Society, Washington, D.C. 528 pp.

SNIESZKO, S. F., AND G. L. BULLOCK.

1957. Determination of the susceptibility of *Aeromonas salmonicida* to sulfonamides and antibiotics, with summary report on the treatment and prevention of furunculosis. *Prog. Fish-Cult.* 19(3): 99-107.

1957. Treatment of sulfonamide-resistant furunculosis in trout and determination of drug sensitivity. *U.S. Fish Wildl. Serv., Fish. Bull.* 57:555-564.

1964. A massive kill of white perch (*Roccus americanus*) involving a *Pasteurella*-like bacterium. *Bacteriol. Proc.* 1964:42. (Abstr.)

1968. Freshwater fish diseases caused by bacteria belonging to the genera *Aeromonas* and *Pseudomonas*. *U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl.* 11. 7 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 459, same author and title, 1958.)

SNIESZKO, S. F., G. L. BULLOCK, C. E. DUNBAR, AND L. L. PETTIJOHN.

1964. Nocardial infection in hatchery-reared fingerling rainbow trout (*Salmo gairdneri*). *J. Bacteriol.* 88(6):1809-1810.

SNIESZKO, S. F., G. L. BULLOCK, EDGAR HOLLIS, AND J. G. BOONE.

1964. *Pasteurella* sp. from an epizootic of white perch (*Roccus americanus*) in Chesapeake Bay Tidewater areas. *J. Bacteriol.* 88(6):1814-1815.

SNIESZKO, S. F., C. E. DUNBAR, AND G. L. BULLOCK.

1958. Resistance to furunculosis and ulcer disease in Eastern brook trout, *Salvelinus fontinalis*. *Bacteriol. Proc.* 1958:26. (Abstr.)

1959. Resistance to ulcer disease and furunculosis in Eastern brook trout, *Salvelinus fontinalis*. *Prog. Fish-Cult.* 21(3):111-116.

SNIESZKO, S. F., AND S. B. FRIDDLE.

1948. Disinfection of rainbow trout eggs with sulfomerthiolate: experiment with sodium p-ethyl mercuri thiophenylsulfonate, Lilly. *Prog. Fish-Cult.* 10(3):143-149.

1949. Prophylaxis of furunculosis in brook trout (*Salvelinus fontinalis*) by oral immunization and sulfamerazine. *Prog. Fish-Cult.* 11(3):161-168.

1950. A contribution to the etiology of ulcer disease of trout. *Trans. Am. Fish. Soc.* 78:56-63.

1951. Tissue levels of various sulfonamides in trout. *Trans. Am. Fish. Soc.* 80:240-250.

1951. Treatment of brook trout with antibiotics. *Md. Conserv.* 28(2):10-12, 29.

1952. Further studies on factors determining tissue levels of sulfamerazine in trout. *Trans. Am. Fish. Soc.* 81:101-110.

SNIESZKO, S. F., S. B. FRIDDLE, AND P. J. GRIFFIN.

1951. Successful treatment of ulcer disease in brook trout (*Salvelinus fontinalis*) with terramycin. *Science* 113(2947):717-718.

SNIESZKO, S. F., AND PHILIP J. GRIFFIN.

1955. Kidney disease in brook trout and its treatment. *Prog. Fish-Cult.* 17(1):3-13.

SNIESZKO, S. F., P. J. GRIFFIN, AND S. B. FRIDDLE.

1950. A new bacterium (*Hemophilus piscium* n. sp.) from ulcer disease of trout. *J. Bacteriol.* 59(6): 699-710.

1952. Antibiotic treatment of ulcer disease and furunculosis in trout. *Trans. North Am. Wildl. Conf.* 17:197-213.

SNIESZKO, S. F., J. S. GUTSELL, AND S. B. FRIDDLE.

1950. Various sulfonamide treatments of furunculosis in brook trout, *Salvelinus fontinalis*. *Trans. Am. Fish. Soc.* 78:181-188.

SNIESZKO, S. F., AND GLENN L. HOFFMAN.

1964. Control of fish diseases. *Lab. Anim. Care* 13 (3):197-206.

1971. Fish diseases. Pages 97-99 in Richard D. Teaque, ed. *A manual of wildlife conservation*. The Wildlife Society, Washington, D.C.

SNIESZKO, S. F., GLENN L. HOFFMAN, AND KEN WOLF.

1964. Basic list of publications in English on fish diseases and parasites. *U.S. Fish Wildl. Serv., Fish. Leafl.* 570, 4 pp.

SNIESZKO, S. F., JOHN A. MILLER, AND CHARLES R. ATHERTON.

1966. Selected hematological and biochemical tests performed with blood and serum of adult rainbow trout (*Salmo gairdnerii*) with a high incidence of hepatoma. *Ann. N.Y. Acad. Sci.* 136 (Artic. 8): 191-210.

SNIESZKO, S. F., AND C. C. TAYLOR.

1947. A bacterial disease of the lobster (*Homarus americanus*). *Science* 105(2732):500.

SNIESZKO, S. F., AND KEN WOLF.

1958. Infectious pancreatic necrosis of salmonid fishes (acute catarrhal enteritis). *U.S. Fish Wildl. Serv., Fish. Leafl.* 453. 3 pp.

SNIESZKO, S. F., KEN WOLF, JIMMY E. CAMPBELL, AND LYLE L. PETTIJOHN.

1959. Infectious nature of pancreatic necrosis. *Trans. Am. Fish. Soc.* 88(4):289-293.

SNIESZKO, S. F., AND E. M. WOOD.

1955. The effect of some sulfonamides on the growth of brook trout, brown trout, and rainbow trout. *Trans. Am. Fish. Soc.* 84:86-92.

SNIESZKO, S. F., E. M. WOOD, AND W. T. YASUTAKE.

1955. Infectious pancreatic necrosis in brook trout. A.M.A. [Am. Med. Assoc.] *Arch. Pathol.* 60:26-28.

1957. Infectious pancreatic necrosis in trout. A.M.A. [Am. Med. Assoc.] *Arch. Pathol.* 63:229-233.

SNIESZKO, S. F., F. T. WRIGHT, GLENN L. HOFFMAN, AND KEN WOLF.

1970. Selected fish disease publications in English. *U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl.* 26. 7 pp.

STEUCKE, ERWIN W., JR.

1965. Use of microhematocrit values to sex large-mouth bass. *Prog. Fish-Cult.* 27(2):87-90.

WALKER, ROLAND, AND KEN WOLF.

1962. Virus array in lymphocystis cells of sunfish. *Am. Zool.* 2(4):566. (Abstr.)

WARREN, JAMES W.

1964. Kidney disease of salmonid fishes and the analysis of hatchery waters. *Prog. Fish-Cult.* 25 (3):121-131.

1964. Toxicity tests of erythromycin thiocyanate in rainbow trout. *Prog. Fish-Cult.* 25(2):88-92.

WELLBORN, THOMAS L., JR., N. N. FIJAN, AND J. P. NAFTEL.

1969. Channel catfish virus disease. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 18. 3 pp.

WOLF, KEN.

1956. Experimental induction of blue-sac disease. *Trans. Am. Fish. Soc.* 86:61-70.

1957. Blue-sac disease investigations: microbiology and laboratory induction. *Prog. Fish-Cult.* 19(1): 14-18.

1959. Plasmoptysis and gelatin of erythrocytes in coagulation of blood of freshwater bony fishes. *Blood* 14(12):1339-1344.

1962. Experimental propagation of lymphocystis disease of fishes. *Virology* 18:249-256.

1964. Characteristics of viruses found in fishes. *Dev. Ind. Microbiol.* 5:140-148.

1964. Physiological salines for fresh-water teleosts. *Prog. Fish-Cult.* 25(3):135-140.

1965. Closing remarks. *Ann. N.Y. Acad. Sci.* 126 (Artic. 1):678-680.

1965. Infectious pancreatic necrosis: its detection and identification. *Prog. Fish-Cult.* 27(2):112.

1965. Some recent developments and applications of fish cell and tissue culture. *Prog. Fish-Cult.* 27 (2):67-74.

1966. Bacterial kidney disease of salmonid fishes. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 8. 4 pp.

1966. Infectious pancreatic necrosis (IPN) of salmonid fishes. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 1. 4 pp.

1966. The fish viruses. *Adv. Virus Res.* 12:35-101.

1966. Viral hemorrhagic septicemia of rainbow trout. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 6. 4 pp.

1968. Lymphocystis disease of fish. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 13. 4 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 565, same author and title, 1964.)

1968. Review of *Transmission of viruses by the water route*, edited by Gerald Berg. *Trans. Am. Fish. Soc.* 97(4):510.

1969. Blue-sac disease of fish. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 15. 4 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 455, same author and similar title, 1963.)

1969. Virus disease of sockeye salmon. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 14. 3 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 454, same author and title, 1958.)

1970. Guidelines for virological examination of fishes. Pages 327-340 in Stanislas F. Snieszko, ed. *A symposium on diseases of fishes and shellfishes.* Am. Fish. Soc., Spec. Publ. 5.

1970. White-spot disease of fish eggs and fry. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 22. 3 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 456, same author and title, 1962.)

1971. Review of *Fish in research*, edited by Otto W. Neuhaus and John E. Halver. *J. Fish Biol.* 3(1): 115-116.

1971. Soft-egg disease of fishes. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 34. 1 p. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 457, same author and title, 1958.)

1972. Advances in fish virology: a review 1966-1971. *Symp. Zool. Soc. London* 30:305-331.

WOLF, KEN, G. L. BULLOCK, C. E. DUNBAR, AND M. C. QUIMBY.

1968. Tadpole edema virus: a viscerotropic pathogen for anuran amphibians. *J. Infect. Dis.* 118:253-262.

1969. Tadpole edema virus: pathogenesis and growth studies and additional sites of virus infected bullfrog tadpoles. Pages 327-336 in Merle Mizell, ed. *Biology of amphibian tumors.* Springer-Verlag, New York.

WOLF, KEN, AND C. P. CARLSON.

1965. Multiplication of lymphocystis virus in the bluegill (*Lepomis macrochirus*). *Ann. N.Y. Acad. Sci.* 126 (Artic. 1):414-419.

WOLF, KEN, AND ROBERT W. DARLINGTON.

1971. Channel catfish virus: a new herpesvirus of ictalurid fish. *J. Virol.* 8(4):525-533.

WOLF, KEN, AND C. E. DUNBAR.

1957. Cultivation of adult teleost tissue *in vitro*. *Proc. Soc. Exp. Biol. Med.* 95(3):455-458.

1957. Strain differences in a fish-pathogenic *Corynebacterium*. *Bacteriol. Proc.* 1957:19. (Abstr.)

1958. An explanation of the principles and methods of tissue culture. *Prog. Fish-Cult.* 20(1):3-7.

1958. *In vitro* and *in vivo* sensitivity testing of a fish-pathogenic *Corynebacterium*. *Bacteriol. Proc.* 1958:19. (Abstr.)

1959. Methods of infecting trout with kidney disease and some effects of temperature on experimental infections. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 286. 8 pp.

1959. Test of 34 therapeutic agents for control of kidney disease in trout. *Trans. Am. Fish. Soc.* 88:117-124.

WOLF, KEN, C. E. DUNBAR, AND E. A. PYLE.

1961. Infectious pancreatic necrosis of trout. II. Experimental infections with brook trout. *Prog. Fish-Cult.* 23(2):61-65.

WOLF, KEN, C. E. DUNBAR, AND S. F. SNIESZKO.

1960. Infectious pancreatic necrosis of trout. I. A tissue-culture study. *Prog. Fish-Cult.* 22(2):64-68.

WOLF, KEN, MANETH GRAVELL, AND RICHARD G. MALS-BERGER.

1966. Lymphocystis virus: isolation and propagation in centrarchid fish cell lines. *Science* 151(3713): 1004-1005.

WOLF, KEN, ROGER L. HERMAN, AND C. P. CARLSON.

1972. Fish viruses: histopathologic changes associated with experimental channel catfish virus disease. *J. Fish. Res. Board Can.* 29(2):149-150.

**WOLF, KEN, AND LYLE L. PETTJOHN.**  
 1970. Infectious pancreatic necrosis virus isolated from coho salmon fingerlings. *Prog. Fish-Cult.* 32(1):17-18.

**WOLF, KEN, AND M. C. QUIMBY.**  
 1962. Established eurythermic line of fish cells *in vitro*. *Science* 135(3508):1065-1066.  
 1964. Amphibian cell culture: permanent cell line from the bullfrog (*Rana catesbeiana*). *Science* 144(3626):1578-1580.  
 1967. Infectious pancreatic necrosis (IPN): its diagnosis, identification, detection and control. *Riv. Ital. Piscic. Iltiopatologia* 11(4):76-84.  
 1967. Low-temperature incubation using a water supply. *Appl. Microbiol.* 15(6):1501.  
 1969. Fish cell and tissue culture. Pages 253-305 in William S. Hoar and David J. Randall, eds. *Fish physiology*. Vol. 3. Academic Press, New York.  
 1969. Infectious pancreatic necrosis: clinical and immune response of adult trouts to inoculation with live virus. *J. Fish. Res. Board Can.* 26(9):2511-2516.  
 1969. Progress report on *in vitro* culture of cyclostome and elasmobranch cells and tissues. *In Vitro* 4:125.  
 1971. Salmonid viruses: infectious pancreatic necrosis virus. *Arch. gesamte Virusforsch.* 34:144-156.

**WOLF, KEN, M. C. QUIMBY, AND ARTHUR D. BRADFORD.**  
 1964. Egg-associated transmission of IPN virus of trout. *Virology* 21(3):317-321.

**WOLF, KEN, M. C. QUIMBY, AND C. P. CARLSON.**  
 1969. Infectious pancreatic necrosis virus: lyophilization and subsequent stability in storage at 4 C. *Appl. Microbiol.* 17(4):623-624.

**WOLF, KEN, M. C. QUIMBY, C. P. CARLSON, AND G. L. BULLOCK.**  
 1968. Infectious pancreatic necrosis: selection of virus-free stock from a population of carrier trout. *J. Fish. Res. Board Can.* 25(2):383-391.

**WOLF, KEN, M. C. QUIMBY, E. P. PYLE, AND R. F. DEXTER.**  
 1960. Preparation of monolayer cell cultures from tissues of some lower vertebrates. *Science* 13 (3443):1890-1891.

**WOLF, KEN, AND S. F. SNIESZKO.**  
 1964. Use of antibiotics and other antimicrobials in therapy of diseases of fishes. Pages 597-603 in *Antimicrobial agents and chemotherapy—1964*. American Society of Microbiology, Ann Arbor, Mich.

**WOLF, KEN, S. F. SNIESZKO, C. E. DUNBAR, AND E. PYLE.**  
 1960. Virus nature of infectious pancreatic necrosis in trout. *Proc. Soc. Exp. Biol. Med.* 104:105-108.

**WOLF, KEN, AND P. E. VESTERGARD JORGENSEN.**  
 1970. Salmonid viruses: double infection of RTG-cells with Egtved and infectious pancreatic necrosis viruses. *Arch. gesamte Virusforsch.* 29:337-342.

**WOOD, E. M.**  
 1953. A century of American fish culture, 1853-1953. *Prog. Fish-Cult.* 15(4):147-162.

**WOOD, E. M., P. J. GRIFFIN, AND S. F. SNIESZKO.**  
 1954. Synthetic binding of trout diets. *Prog. Fish Cult.* 16(1):19-24.

**WRIGHT, FLORENCE T.**  
 1971. List of reference sources for students of fish diseases. U.S. Bur. Sport Fish. Wildl., Fish Leafl. 33. 11 pp.

**WESTERN FISH DISEASE LABORATORY**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Seattle, Washington 98115**

The Western Fish Disease Laboratory was established at Seattle in 1935. Its principal function or objective is to improve salmon and trout culture by providing information on mechanisms of infectious disease transmission, resistance, prevention, and therapy; identifying or diagnosing disease; and prescribing treatment.

The facility comprises five laboratories, equipped for research in bacteriology, virology, pathology, immunology, and biochemistry. Two wet laboratories have aquaria, troughs, and tanks. Supplies of temperature-controlled soft and hard water are available. The Laboratory includes a small museum and a specialized library.

**AMEND, DONALD F.**

1969. Oxytetracycline efficacy as a treatment for furunculosis in coho salmon. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 36. 6 pp.

1970. Approved procedure for determining absence of infectious hematopoietic necrosis (IHN) in salmonid fishes. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 31. 4 pp.

1970. Control of infectious hematopoietic necrosis virus disease by elevating the water temperature. J. Fish. Res. Board Can. 27(2):265-270.

1970. Myxobacterial infections of salmonids: prevention and treatment. Pages 258-265 in Stanislas F. Snieszko, ed. A symposium on diseases of fishes and shellfishes. Am. Fish. Soc., Spec. Publ. 5.

1970. Retention of mercury by salmon. Prog. Fish-Cult. 32(4):192-194.

1970. What threat is IHN disease to trout industry? Am. Fishes U.S. Trout News 15(4):18-19, 23, 30.

1971. How fish are certified to be free of disease. Am. Fish Farmer World Aquaculture News 2(11):5-8.

1971. Salmon and trout disease research. Scalpel (South Puget Sound Vet. Med. Assoc.) 14(1):5-6.

1972. Efficacy, toxicity, and residues of nifurpirinol in salmonids. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 62. 13 pp.

**AMEND, DONALD F., AND VELMA C. CHAMBERS.**

1970. Morphology of certain viruses of salmonid fishes. I. In vitro studies of some viruses causing hematopoietic necrosis. J. Fish. Res. Board Can. 27(7):1285-1293.

1970. Morphology of certain viruses of salmonid fishes. II. In vivo studies of infectious hematopoietic necrosis virus. J. Fish. Res. Board Can. 27(8):1385-1388.

**AMEND, DONALD F., AND JOHN P. PIETSCH.**

1972. An improved method for isolating viruses from asymptomatic carrier fish. Trans. Am. Fish. Soc. 101(2):267-269.

1972. Virucidal activity of two iodophors to salmonid viruses. J. Fish. Res. Board Can. 29(1):61-65.

**AMEND, DONALD F., AND AVRON J. ROSS.**

1970. Experimental control of columnaris disease with a new nitrofuran drug (P-7138). Prog. Fish-Cult. 32(1): 19-25.

**AMEND, DONALD F., AND GARY WEDEMEYER.**

1970. Approved procedure for determining absence of infectious pancreatic necrosis (IPN) virus in certain fish and fish products. U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl. 27. 4 pp.

**AMEND, DONALD F., AND JAMES W. WOOD.**

1972. Survey for infectious hematopoietic necrosis (IHN) virus in Washington salmon. Prog. Fish-Cult. 34(3):143-147.

**AMEND, DONALD F., WILLIAM T. YASUTAKE, AND ROBERT W. MEAD.**

1969. A hematopoietic virus disease of rainbow trout and sockeye salmon. Trans. Am. Fish. Soc. 98(4): 796-804.

**AMEND, DONALD F., WILLIAM T. YASUTAKE, AND REGINALD MORGAN.**

1969. Some factors influencing susceptibility of rainbow trout to the acute toxicity of an ethyl mercury phosphate formulation (Timsan). Trans. Am. Fish. Soc. 98(3):419-425.

**ANDERSON, DOUGLAS P.**

1972. Virulence and persistence of rough and smooth forms of *Aeromonas salmonicida* inoculated into coho salmon (*Oncorhynchus kisutch*). J. Fish. Res. Board Can. 29(2):204-206.

**ANDERSON, DOUGLAS P., AND GEORGE W. KLONTZ.**

1970. Precipitating antibody against *Aeromonas salmonicida* in serums of inbred albino rainbow trout (*Salmo gairdneri*). J. Fish. Res. Board Can. 27(8): 1389-1393.

**ANDERSON, DOUGLAS P., AND AVRON J. ROSS.**

1972. Comparative study of Hagerman redmouth disease oral bacterins. Prog. Fish-Cult. 34(4): 226-228.

**CONROY, D. A., I. E. VALDEZ, AND A. J. ROSS.**

1966. A note on the carbohydrate reactions of *Mycobacterium anabanti* [in Spanish]. Microbiol. Esp. 19:115-117.

**DAVIS, PAUL W., JACQUELINE M. FRIEDHOFF, AND GARY WEDEMEYER.**

1972. Organochlorine insecticide, herbicide and polychlorinated biphenyl (PCB) inhibition of NaK-ATPase in rainbow trout. Bull. Environ. Contam. Toxicol. 8(2):69-72.

DAVIS, PAUL W., AND GARY A. WEDEMEYER.  
 1971. Inhibition by organochlorine pesticides of  $\text{Na}^+$ ,  $\text{K}^+$ -activated adenosinetriphosphatase activity in the brain of rainbow trout. *Proc. West. Pharmacol. Soc.* 14:47. (Abstr.)

1971.  $\text{Na}^+$ ,  $\text{K}^+$ -activated-ATPase inhibition in rainbow trout: a site for organochlorine pesticide toxicity? *Comp. Biochem. Physiol.* 40(3B):823-827.

FISH, FREDERIC F.  
 1935. A western type of bacterial gill disease. *Trans. Am. Fish. Soc.* 65:85-87.  
 1935. The bacterial diseases of fish. *Prog. Fish-Cult. No.* 5:1-9.  
 1935. The Bureau of Fisheries' disease service. *Prog. Fish-Cult. No.* 8:9-12.  
 1935. The microscope in the hatchery. *Prog. Fish-Cult. No.* 3:1-6.  
 1935. The protozoan diseases of hatchery fish. *Prog. Fish-Cult. No.* 6:1-4.  
 1936. Founders of fish culture—European origins. *Prog. Fish-Cult. No.* 16:8-10.  
 1937. Furunculosis in wild trout. *Copeia* 1937(1):37-40.  
 1938. Treat—think—and be wary, for tomorrow they may die: some advice on the prevention and treatment of fish diseases. *Prog. Fish-Cult. No.* 39:1-9.  
 1939. Disease prevention in the trout hatchery. *Prog. Fish-Cult. No.* 43:1-7.  
 1939. Notes on *Myxobolus inornatus*, n. sp., a Myxosporidian, parasitic in the black bass (*Huro floridana* Le Sueur). *Trans. Am. Fish. Soc.* 68:173-177.  
 1939. Observations on *Henneguya salminicola* Ward, a Myxosporidian, parasitic in Pacific salmon. *J. Parasitol.* 25(2):169-172.  
 1939. Simplified methods for the prolonged treatment of fish diseases. *Trans. Am. Fish. Soc.* 68:178-187.  
 1940. An evaluation of trout culture. *Trans. Am. Fish. Soc.* 69:85-89.  
 1940. Formalin for external protozoan parasites: a report on the prevention and control of *Costia necatrix*. *Prog. Fish-Cult. No.* 48:1-10.  
 1940. Formalin treatments pass new tests: additional notes on the control of ecto-parasitic Protozoa. *Prog. Fish-Cult. No.* 49:31-32.  
 1941. Notes on *Costia necatrix*. *Trans. Am. Fish. Soc.* 70:441-445.  
 1943. The anaesthesia of fish by high carbon-dioxide concentrations. *Trans. Am. Fish. Soc.* 72:25-29.  
 1947. Disease control in hatchery fish. *U.S. Fish Wildl. Serv., Fish. Leafl.* 222. 10 pp.  
 1948. The return of the blueback salmon to the Columbia River. *Sci. Mon.* 66(4):283-292.

FISH, FREDERIC F., AND ROGER E. BURROWS.  
 1939. Notes on the effect of low temperature upon eyed eggs. *Prog. Fish-Cult. No.* 45:28-31.  
 1940. Experiments upon the control of Trichodiniasis of salmonid fishes by the prolonged recirculation of formalin solutions. *Trans. Am. Fish. Soc.* 69:94-100.

FISH, FREDERIC F., AND MITCHELL G. HANAVAN.  
 1948. A report upon the Grand Coulee fish maintenance project 1939-1947. *U.S. Fish Wildl. Serv., Spec. Sci. Rep.* 55. 63 pp.

FISH, FREDERIC F., AND DONALD L. MCKERNAN.  
 1940. Calomel versus carbarsome. *Prog. Fish-Cult. No.* 51:26-29.

FISH, FREDERIC F., AND ROBERT R. RUCKER.  
 1945. *Columnaris* as a disease of cold-water fishes. *Trans. Am. Fish. Soc.* 73:32-36.  
 1950. Pollution in the lower Columbia Basin in 1948—with particular reference to the Willamette River. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 30. 22 pp.

GUENTHER, RAYMOND W., S. W. WATSON, AND R. R. RUCKER, with addendum by A. J. ROSS AND R. R. RUCKER.  
 1959. Etiology of sockeye salmon "virus" disease. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 296. 10 pp.

GUSTAFSON, PAUL V., AND ROBERT R. RUCKER.  
 1956. Studies on an *Ichthyosporidium* infection in fish: transmission and host specificity. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 166. 8 pp.

HOLWAY, JAMIESON E., AND G. W. KLONTZ.  
 1971. A procedure for testing the antigenicity of vaccines for the immunization of fish against furunculosis. *Prog. Fish-Cult.* 33(1):42-44.

KEYES, MARK C., EDWARD J. BARRON, AND A. J. ROSS.  
 1971. Urine of the northern fur seal (*Callorhinus ursinus*): analyses of 11 pelagic samples. *J. Am. Vet. Med. Assoc.* 159(5):567-570.

KEYES, MARK C., FRANK W. CREWS, AND A. JOHN ROSS.  
 1968. *Pasteurella multocida* isolated from a California sea lion (*Zalophus californianus*). *J. Am. Vet. Med. Assoc.* 153(7):803-804.

KLONTZ, GEORGE W.  
 1968. Control of fish diseases. *Am. Fishes U.S. Trout News* 13(4):5, 21-22.

KLONTZ, GEORGE W., AND DOUGLAS P. ANDERSON.  
 1968. Fluorescent antibody studies of isolates of *Aeromonas salmonicida*. *Bull. Off. Int. Epizoot.* 69(7-8):1149-1157.  
 1970. Oral immunization of salmonids: a review. Pages 16-20 in Stanislas F. Snieszko, ed. *A symposium on diseases of fishes and shellfishes*. *Am. Fish. Soc., Spec. Publ.* 5.

KLONTZ, GEORGE W., WILLIAM T. YASUTAKE, AND THOMAS J. PARISOT.  
 1965. Virus diseases of the Salmonidae in the western United States. III. Immunopathological aspects. *Ann. N.Y. Acad. Sci.* 126(Artic. 1):531-542.

KLONTZ, GEORGE W., WILLIAM T. YASUTAKE, AND A. JOHN ROSS.  
 1966. Bacterial diseases of the Salmonidae in the western United States. I. Pathogenesis of furunculosis of rainbow trout. *Am. J. Vet. Res.* 27(120):1455-1460.

MAZURANICH, JOHN J., AND WALTER E. NIELSON.  
 1959. White-spot disease of salmon fry. *Prog. Fish-Cult.* 21(4):172-176.

NIELSON, WALTER E., AND JOHN J. MAZURANICH.  
 1959. Dry diets for chinook salmon. *Prog. Fish-Cult.* 21(2):86-88.

NOVOTNY, ANTHONY J., AND J. R. UZMANN.  
 1960. A statistical analysis of the distribution of a larval nematode (*Anisakis* sp.) in the musculature of chum salmon (*Oncorhynchus keta*—Walbaum). *Exp. Parasitol.* 10(2):245-262.

ORDAL, E. J., AND R. R. RUCKER.  
 1944. Pathogenic myxobacteria. *Proc. Soc. Exp. Biol. Med.* 56:15-18.

PARISOT, THOMAS J.  
 1958. Tuberculosis of fish. *Bacteriol. Rev.* 22(4):240-245.  
 1965. Infectious pancreatic necrosis—the trout farmer's dilemma. *U.S. Trout News* 9(5):6, 21.  
 1967. A closed recirculated sea-water system. *Prog. Fish-Cult.* 29(3):133-139.  
 1970. Sacramento River chinook disease (SRCD). *U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl.* 30. 2 pp. (Supersedes U.S. Fish Wildl. Serv., Fish. Leafl. 562, same author and title, 1963.)

PARISOT, THOMAS J., AND ALETHA H. DECKER.  
 1960. A comparative study of the causative agent of a mycobacterial disease of salmonoid fishes. I. A comparison of the staining characteristics of the fish disease with human tuberculosis in sections stained by the Fite-Faraco and Ziehl-Neelsen methods. *Am. Rev. Respir. Dis.* 81(1):60-67.

PARISOT, THOMAS J., AND JOHN PELNAR.  
 1962. An interim report on Sacramento River chinook disease: a viruslike disease of chinook salmon. *Prog. Fish-Cult.* 24(2):51-55.

PARISOT, THOMAS J., AND EDWARD M. WOOD.  
 1960. A comparative study of the causative agent of a mycobacterial disease of salmonoid fishes. II. A description of histopathology of the disease in chinook salmon (*Oncorhynchus tshawytscha*) and a comparison of the staining characteristics of the fish disease with leprosy and human tuberculosis. *Am. Rev. Respir. Dis.* 82(2):212-222.

PARISOT, THOMAS J., AND JAMES W. WOOD.  
 1959. Fish mycobacteriosis (tuberculosis). *U.S. Fish Wildl. Serv., Fish. Leafl.* 494. 3 pp.

PARISOT, THOMAS J., WILLIAM T. YASUTAKE, AND VERNON BRESSLER.  
 1963. A new geographic and host record for infectious pancreatic necrosis. *Trans. Am. Fish. Soc.* 92(1):63-66.

PARISOT, THOMAS J., WILLIAM T. YASUTAKE, AND GEORGE W. KLONTZ.  
 1965. Virus diseases of the Salmonidae in the western United States. I. Etiology and epizootiology. *Ann. N.Y. Acad. Sci.* 126(Artic. 1):502-519.

ROSS, A. JOHN.  
 1960. *Mycobacterium salmoniphilum* sp. nov. from salmonoid fishes. *Am. Rev. Respir. Dis.* 81(2):241-250.  
 1962. Isolation of a pigment producing strain of *Aeromonas liquefaciens* from silver salmon (*Oncorhynchus kisutch*). *J. Bacteriol.* 84(3):590-591.  
 1963. Mycobacteria in adult salmonid fishes returning to national fish hatcheries in Washington, Oregon, and California in 1958-59. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 462. 5 pp.

1970. Mycobacteriosis among Pacific salmonid fishes. Pages 279-283 in Stanislas F. Snieszko, ed. A symposium on diseases of fishes and shellfishes. *Am. Fish. Soc., Spec. Publ.* 5.

1970. Vibriosis in fish. *U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl.* 29. 3 pp.

1972. *In vitro* studies with nifurpirinol (P-7138) and bacterial fish pathogens. *Prog. Fish-Cult.* 34(1):18-20.

ROSS, A. JOHN, AND FRANK P. BRANCATO.  
 1959. *Mycobacterium fortuitum* Cruz from the tropical fish, *Hypessobrycon innesi*. *J. Bacteriol.* 78(3):392-395.

ROSS, A. JOHN, BRIAN J. EARL, AND JAMES W. WOOD.  
 1959. Mycobacterial infections in adult salmon and steelhead trout returning to the Columbia River Basin and other areas in 1957. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 332. 34 pp.

ROSS, A. J., AND H. E. JOHNSON.  
 1962. Studies of transmission of mycobacterial infections in chinook salmon. *Prog. Fish-Cult.* 24(4):147-149.

ROSS, A. J., AND G. W. KLONTZ.  
 1965. Oral immunization of rainbow trout (*Salmo gairdneri*) against an etiologic agent of "redmouth disease." *J. Fish. Res. Board Can.* 22(3):713-719.

ROSS, A. J., J. E. MARTIN, AND V. BRESSLER.  
 1968. *Vibrio anguillarum* from an epizootic in rainbow trout (*Salmo gairdneri*) in the USA. *Bull. Off. Int. Epizoot.* 69(7-8):1139-1148.

ROSS, A. JOHN, PHYLLIS R. NORDSTROM, JACK E. BAILEY, AND JOHN H. HEATON.  
 1960. A bacterial disease of yellow perch (*Perca flavescens*). *Trans. Am. Fish. Soc.* 89(3):310-312.

ROSS, A. JOHN, AND THOMAS J. PARISOT.  
 1958. Record of the fungus *Ichthyosporidium Cauleryi* and Mesnil, 1905, in Idaho. *J. Parasitol.* 44(4):453-454.

ROSS, A. J., J. PELNAR, AND R. R. RUCKER.  
 1960. A virus-like disease of chinook salmon. *Trans. Am. Fish. Soc.* 89(2):160-163.

ROSS, A. J., AND R. R. RUCKER.  
 1960. A "virus" disease of chinook salmon. *U.S. Fish Wildl. Serv., Fish. Leafl.* 497. 3 pp.

ROSS, A. J., R. R. RUCKER, AND W. H. EWING.  
 1966. Description of a bacterium associated with red-mouth disease of rainbow trout (*Salmo gairdneri*). *Can. J. Microbiol.* 12:763-770.

ROSS, A. J., AND CATHY A. SMITH.  
 1972. Effect of two iodophors on bacterial and fungal fish pathogens. *J. Fish. Res. Board Can.* 29(9):1359-1361.

ROSS, A. J., W. T. YASUTAKE, AND G. R. WHITE.  
 1963. Hermaphroditism in rainbow trout. *Trans. Am. Fish. Soc.* 92(3):313-315.

RUCKER, ROBERT R.  
 1948. New compounds for the control of bacterial gill disease. *Prog. Fish-Cult.* 10(1):19-22.  
 1949. A streptomycete pathogenic to fish. *J. Bacteriol.* 58(5):659-664.  
 1949. Fact and fiction in spawntaking: addenda. *Prog. Fish-Cult.* 11(1):75-77.

RUCKER, ROBERT R.

1958. Some problems of private trout hatchery operators. *Trans. Am. Fish. Soc.* 87:374-379.

1959. Vibrio infections among marine and freshwater fish. *Prog. Fish-Cult.* 21(1):22-25.

1961. The use of merthiolate on green eggs of the chinook salmon *Oncorhynchus tshawytscha*. *Prog. Fish-Cult.* 23(3):138-141.

1963. Status of fish diseases and relation to production. *State Wash. Governors' Conf. Pac. Salmon* 2:98-101.

1966. Redmouth disease of rainbow trout (*Salmo gairdneri*). *Bull. Off. Int. Epizoot.* 65(5-6):825-830.

1968. Effects of mercurial compounds on fish and humans. *Bull. Off. Int. Epizoot.* 69(9-10):1431-1437.

1972. Fish disease therapy: past, present, and future. Pages 135-140 in Remedios W. Moore, ed. *Progress in fishery and food science*. Univ. Wash. *Publ. Fish.*, N.S., Vol. 5.

1972. Gas-bubble disease of salmonids: a critical review. *U.S. Bur. Sport Fish. Wildl. Tech. Pap.* 58, 11 pp.

RUCKER, ROBERT R., AND DONALD F. AMEND.

1969. Absorption and retention of two organic mercurials by rainbow trout and chinook and sockeye salmon. *Prog. Fish-Cult.* 31(4):197-201.

RUCKER, R. R., A. F. BERNIER, W. J. WHIPPLE, AND R. E. BURROWS.

1951. Sulfadiazine for kidney disease. *Prog. Fish-Cult.* 13(3):135-137.

RUCKER, R. R., J. F. CONRAD, AND C. W. DICKESON.

1960. Ovarian fluid: its role in fertilization. *Prog. Fish-Cult.* 22(2):77-78.

RUCKER, ROBERT R., BRIAN J. EARL, AND ROGER E. BURROWS.

1956. Lignasan for bacterial gill disease. *Prog. Fish-Cult.* 18(2):75-77.

RUCKER, ROBERT R., BRIAN J. EARL, AND ERLING J. ORDAL.

1954. Infectious diseases of Pacific salmon. *Trans. Am. Fish. Soc.* 83: 297-312.

RUCKER, R. R., AND PAUL V. GUSTAFSON.

1953. An epizootic among rainbow trout. *Prog. Fish-Cult.* 15(4):179-181.

RUCKER, R. R., AND K. HODGEBOOM.

1953. Observations on gas-bubble disease of fish. *Prog. Fish-Cult.* 15(1):24-26.

RUCKER, ROBERT R., HARLAN E. JOHNSON, AND GEORGE M. KAYDAS.

1952. An interim report on gill disease. *Prog. Fish-Cult.* 14(1):10-14.

RUCKER, ROBERT R., HARLAN E. JOHNSON, AND ERLING J. ORDAL.

1949. An investigation of the bactericidal action and fish toxicity of two homologous series of quaternary ammonium compounds. *J. Bacteriol.* 57(2):225-234.

RUCKER, ROBERT R., WARNER G. TAYLOR, AND DONALD P. TONEY.

1963. Formalin in the hatchery. *Prog. Fish-Cult.* 25(4):203-207.

RUCKER, ROBERT R., AND EDWARD M. TUTTLE.

1948. Removal of excess nitrogen in a hatchery water supply. *Prog. Fish-Cult.* 10(2):88-90.

RUCKER, R. R., AND W. J. WHIPPLE.

1951. Effect of bactericides on steelhead trout fry. *Prog. Fish-Cult.* 13(1):43-44.

RUCKER, R. R., W. J. WHIPPLE, J. R. PARVIN, AND C. A. EVANS.

1953. A contagious disease of salmon, possibly of virus origin. *U.S. Fish Wildl. Serv., Fish. Bull.* 54:35-46.

RUCKER, R. R., W. T. YASUTAKE, AND G. WEDEMEYER.

1970. An obscure disease of rainbow trout. *Prog. Fish-Cult.* 32(1):3-8.

RUCKER, R. R., W. T. YASUTAKE, AND H. WOLF.

1961. Trout hepatoma—a preliminary report. *Prog. Fish-Cult.* 23(1):3-7.

UZMANN, JOSEPH R., AND JOHN DOUGLAS.

1966. *Clinostomum marginatum* in steelhead trout (*Salmo gairdneri*) and cutthroat trout (*Salmo clarki*) in a western Washington lake. *Trans. Am. Fish. Soc.* 95(1):35-38.

UZMANN, J. R., AND S. HOBBS HAYDUK.

1963. In vitro culture of the flagellate protozoan *Hexamita salmonis*. *Science* 140(3564):290-292.

1964. Larval *Echinocasmus* (Trematoda: Echinostomatidae) in rainbow trout, *Salmo gairdneri*. *J. Parasitol.* 50(4):586.

UZMANN, J. R., AND M. N. HESSELHOLT.

1957. New host and locality record for *Triaenophorus crassus* Forel (Cestoda: Pseudophyllidea). *J. Parasitol.* 43(2):205.

1957. Teratological hermaphroditism in the chum salmon, *Oncorhynchus keta* (Walbaum). *Prog. Fish-Cult.* 20(4):191-192.

UZMANN, J. R., AND J. W. JESSE.

1963. The *Hexamita* (= *Octomitus*) problem: a preliminary report. *Prog. Fish-Cult.* 25(3):141-143.

UZMANN, J. R., R. A. LANDER, AND M. N. HESSELHOLT.

1958. Parasitological methods for identification and abundance estimates of downstream migrant races of salmon. *Proc. Alaskan Sci. Conf.* 8:93-94. (Abstr.)

UZMANN, J. R., G. J. PAULIK, AND S. H. HAYDUK.

1965. Experimental hexamitiasis in juvenile coho salmon (*Oncorhynchus kisutch*) and steelhead rainbow trout (*Salmo gairdneri*). *Trans. Am. Fish. Soc.* 94(1):53-61.

UZMANN, J. R., AND H. J. RAYNER.

1958. Record of the parasitic copepod *Lernaea cyprinacea* L. in Oregon and Washington fishes. *J. Parasitol.* 44(4):452-453.

UZMANN, J. R., JOSEPH A. STERN, DIPTIMAN CHAKRAVARTI, AND MARY N. HESSELHOLT.

1961. Rapid counting of Nematoda in salmon by peptic digestion. *Int. North Pac. Fish Comm.*, *Bull.* 3, 4 pp.

WATSON, MARGARET E., RAY W. GUENTHER, AND RODNEY D. ROYCE.

1956. Hematology of healthy and virus-diseased sockeye salmon, *Oncorhynchus nerka*. *Zoologica* 41 (Part 1):27-38.

VATSON, STANLEY W.

1954. Virus diseases of fish. *Trans. Am. Fish. Soc.* 83:331-341.

WATSON, STANLEY W., RAYMOND W. GUENTHER, AND ROBERT R. RUCKER.

1954. A virus disease of sockeye salmon: interim report. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 138. 36 pp.

WEDEMEYER, GARY.

1968. Uptake and distribution of Zn<sup>65</sup> in the coho salmon egg (*Oncorhynchus kisutch*). *Comp. Biochem. Physiol.* 26(1):271-279.

1969. Pituitary activation by bacterial endotoxins in the rainbow trout (*Salmo gairdneri*). *J. Bacteriol.* 100(1):542-543.

1969. Stress-induced ascorbic acid depletion and cortisol production in two salmonid fishes. *Comp. Biochem. Physiol.* 29(3):1247-1251.

1970. Stress of anesthesia with M.S. 222 and benzocaine in rainbow trout (*Salmo gairdneri*). *J. Fish. Res. Board Can.* 27(5):909-914.

1970. The role of stress in the disease resistance of fishes. Pages 30-35 in Stanislas F. Snieszko, ed. A symposium on diseases of fishes and shellfishes. Am. Fish. Soc., Spec. Publ. 5.

1971. The stress of formalin treatments in rainbow trout (*Salmo gairdneri*) and coho salmon (*Oncorhynchus kisutch*). *J. Fish. Res. Board Can.* 28(12):1899-1904.

1972. Environmental contamination by persistent pesticides. Pages 69-76 in Remedios W. Moore, ed. Progress in fishery and food science. Univ. Wash. Publ. Fish., N.S., Vol. 5.

1972. Some physiological consequences of handling stress in the juvenile coho salmon (*Oncorhynchus kisutch*) and steelhead trout (*Salmo gairdneri*). *J. Fish. Res. Board Can.* 29(12):1780-1783.

WEDEMEYER, GARY, AND K. CHATTERTON.

1970. Some blood chemistry values for the rainbow trout (*Salmo gairdneri*). *J. Fish. Res. Board Can.* 27(6):1162-1164.

1971. Some blood chemistry values for the juvenile coho salmon (*Oncorhynchus kisutch*). *J. Fish. Res. Board Can.* 28(4):606-608.

WEDEMEYER, GARY, A. J. ROSS, AND LYNWOOD SMITH.

1969. Some metabolic effects of bacterial endotoxins in salmonid fishes. *J. Fish. Res. Board Can.* 26(1):115-122.

YASUTAKE, WILLIAM T.

1970. Comparative histopathology of epizootic salmonid virus diseases. Pages 341-350 in Stanislas F. Snieszko, ed. A symposium on diseases of fishes and shellfishes. Am. Fish. Soc., Spec. Publ. 5.

YASUTAKE, WILLIAM T., AND DONALD F. AMEND.

1972. Some aspects of pathogenesis of infectious hematopoietic necrosis (IHN). *J. Fish Biol.* 4(2): 261-264.

YASUTAKE, WILLIAM T., THOMAS J. PARISOT, AND GEORGE W. KLONTZ.

1965. Virus diseases of Salmonidae in the western United States. II. Aspects of pathogenesis. *Ann. N.Y. Acad. Sci.* 126(Artic. 1): 520-530.

YASUTAKE, WILLIAM T., AND C. J. RASMUSSEN.

1968. Histopathogenesis of experimentally induced viral hemorrhagic septicemia in fingerling rainbow trout (*Salmo gairdneri*). *Bull. Off. Int. Epizoot.* 69(7-8):977-984.

YASUTAKE, WILLIAM T., AND ROBERT R. RUCKER.

1967. Nutritionally induced hepatogenesis of rainbow trout (*Salmo gairdneri*). Pages 39-47 in John E. Halver and Ian A. Mitchell, eds. Trout hepatoma research conference papers. U.S. Bur. Sport Fish. Wildl., Res. Rep. 70.

YASUTAKE, W. T., AND HAROLD WOLF.

1970. *Myxosoma cerebralis* infection of trout in the western United States. *J. Parasitol.* 56(4):375-376. (Abstr.)

1970. Occurrence of whirling disease of trout in western United States. *J. Fish. Res. Board Can.* 27(5):955-956.

**FISH FARMING EXPERIMENTAL STATION**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Stuttgart, Arkansas 72160**

The Fish Farming Experimental Station was established in 1961 on an 85-acre area 8 miles east of Stuttgart, Arkansas. The Fish Farming Development Center, Rohwer, Arkansas, became a field unit of the Station in 1972, by transfer from the National Marine Fisheries Service. The primary mission of the Station is to study problems associated with the production of fish as related to rice and other field crops.

The Station's facilities include a modern laboratory, a wet laboratory, a shop, a number of service buildings, 85 experimental ponds, 48 circular fiberglass tanks, and 10 aluminum raceways.

Current research, conducted by specialists in aquatic biology, fish culture, nutrition, pathology, genetics, and water chemistry is concentrated on the development of methods to improve fish production in ponds. Included are studies of catfishes, buffaloes, bait minnows, and black basses, as well as various combinations of species. Field investigations are underway to: (1) determine the species of fish best suited for culture; (2) find methods for efficiently spawning fish and producing fingerlings; (3) develop economical methods for raising fish to desired sizes; (4) develop controls for undesirable species of fish; (5) improve methods for harvesting fish; (6) develop controls for aquatic weeds; and (7) determine the effects of fish production on rice and other crops (in cooperation with the U.S. Department of Agriculture and the University of Arkansas).

Laboratory research includes studies on: (1) parasites and diseases affecting fish, and the development of control measures; (2) the effect of environmental changes on the physiology of fish; (3) the effects of agricultural chemicals on fish; (4) the nutritional requirements of fish; (5) the improvement of strains of fish through hybridization, selective breeding, and mutation; and (6) the improvement of techniques for controlling the spawning of fish through the use of hormones, gynogenesis, or the manipulation of water quality.

**ALLEN, KENNETH O.**

1971. Production systems for growing out fish: biological requirements. Pages 24-28 in *Producing and marketing catfish in the Tennessee Valley*. Tennessee Valley Authority, Muscle Shoals, Ala.

**FRIBOURGH, JAMES H.**

1966. The application of a differential staining method to low-temperature studies on goldfish spermatozoa. *Prog. Fish-Cult.* 28(4):227-231.

1970. Ultrastructure of the goldfish, *Carassius auratus* (Cyprinidae), spermatozoon. *Copeia* 1970 (2):274-279.

**FRIBOURGH, JAMES H., DALE E. McCLENDON, AND BERNARD L. SOLOFF.**

1965. The effects of potassium tellurite on goldfish spermatozoan activity. *Trans. Am. Fish. Soc.* 94 (4):399-402.

**FRIBOURGH, JAMES H., FRED P. MEYER, AND JORDAN A. ROBINSON.**

1969. Oxytetracycline leaching from medicated fish feeds. *U.S. Bur. Sport Fish. Wildl., Tech. Pap.* 40. 7 pp.

**FRIBOURGH, JAMES H., JORDAN A. ROBINSON, AND FRED P. MEYER.**

1969. Oxytetracycline levels produced in catfish serum by three methods of treatment. *U.S. Bur. Sport Fish. Wildl., Tech. Pap.* 39. 6 pp.

1969. Oxytetracycline residues in tissues of blue and channel catfishes. *U.S. Bur. Sport Fish. Wildl., Tech. Pap.* 38. 7 pp.

**GRUDICE, JOHN J.**

1964. The production and comparative growth rate of three buffalo hybrids. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 18:512-517.

1965. Investigations on the propagation and survival of flathead catfish in troughs. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 17: 178-180.

1966. An inexpensive recirculating water system. *Prog. Fish-Cult.* 28(1):28.

1966. Growth of a blue x channel catfish hybrid as compared to its parent species. *Prog. Fish-Cult.* 28(3):142-145.

GIUDICE, JOHN J.

1968. The culture of bait fishes. Pages 13-18 in Proc. 1968 Commer. Bait Fish Conf., Texas Agric. Ext. Serv., College Station.

1970. Improving channel catfish through crossbreeding. Pages 55-59 in Proc. 1969 Fish Farming Conf., Texas Agric. Ext. Serv., College Station.

1971. Commercial culture of channel catfish fingerlings. Pages 82-85 in Report of the 1970 workshop on fish feed technology and nutrition. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 102.

GREENLAND, DONALD C.

1972. Harvesting and loading farm-raised catfish. Pages 23-26 in Report of the 1972 Inland Fishing Gear Workshop. National Marine Fisheries Service, Northwest Region.

GREENLAND, DONALD C., JAMES E. ELLIS, AND ROBERT L. GILL.

1972. Operating and design criteria of an adjustable horizontal bar grader for sorting channel catfish. Prog. Fish-Cult. 34(4):186-190.

GREENLAND, DONALD C., AND ROBERT L. GILL.

1972. Development and operation efficiency of a catfish grader. Prog. Fish-Cult. 34(2):76-80.

GREENLAND, DONALD C., AND SAMMIE L. WEAVER.

1972. Mechanized net storage reel. Prog. Fish-Cult. 34(2):114-115.

HASTINGS, WALDON H.

1964. Catering for channel catfish. Feedstuffs 36(23):1.

1964. Fish feed processing research. Feedstuffs 36(21):13.

1967. Warm-water fish nutrition. Pages 27-33 in Proc. 1967 Commer. Fish Farming Conf., Texas Agric. Ext. Serv., College Station.

1969. Channel catfish growth response to test feeds. Pages 22-35 in Proc. 1969 Commer. Fish Farming Conf., Univ. Ga. Coop. Ext. Serv. and Inst. Community Area Dev.

1969. Fish farming and the use of fishery products in fish feeds. Am. Fishes U.S. Trout News 14(3):5-6.

1969. Nutritional score. Pages 263-292 in Otto W. Neuhaus and John E. Halver, eds. Fish in research. Academic Press, New York.

1971. A commercial process for water-stable fish feeds. Feedstuffs 43(47):38.

1971. Fish feeds. Proc. Annu. Workshop World Mariculture Soc. 1:118-126.

1971. Study of pelleted fish foods stability in water. Pages 75-80 in Report of the 1970 workshop on fish feed technology and nutrition. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 102.

1971. Warmwater fish feeds and feeding. Pages 64-67 in Report of the 1970 workshop on fish feed technology and nutrition. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 102.

1972. Feeding domestic freshwater fish. Agric. Eng. 53(12):16-17.

HASTINGS, W. H., AND L. M. DICKIE.

1972. Feed formulation and evaluation. Pages 327-370 in John E. Halver, ed. Fish nutrition. Academic Press, New York.

HASTINGS, WALDON H., AND HARRY K. DUPREE.

1969. Formula feeds for channel catfish. Prog. Fish-Cult. 31(4):187-196.

HASTINGS, W. H., BILL HINSON, DEWEY TACKETT, AND BILL SIMCO.

1972. Monitoring channel catfish use of a demand feeder. Prog. Fish-Cult. 34(4):204-206.

HORNBECK, RUSSELL, W. A. WHITE, AND FRED P. MEYER.

1966. Control of *Apus* and fairy shrimp in hatchery rearing ponds. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 19:401-403.

LETEUX, FRANK, AND FRED P. MEYER.

1972. Mixtures of malachite green and formalin for controlling *Ichthyophthirius* and other protozoan parasites of fish. Prog. Fish-Cult. 34(1):21-26.

MARTIN, J. MAYO.

1967. From fingerlings to food fish. Pages 23-25 in Proc. 1967 Commer. Fish Farming Conf., Texas Agric. Ext. Serv., College Station.

1967. Techniques of catfish fingerling production. Pages 13-22 in Proc. 1967 Commer. Fish Farming Conf., Texas Agric. Ext. Serv., College Station.

1968. Catfish versus minnows or combination. Pages 6-11 in Proc. 1967 Commer. Fish Farming Conf., Oklahoma State University, Stillwater.

1968. Possible ways of increasing production in fish farming. The Fish Farmer (American Fish Farmers Federation, Lonoke, Arkansas) 1(1):1-5.

1968. The combined culture of catfish and minnows as compared to mono-species culture. Pages 19-22 in Proc. 1968 Commer. Bait Fish Conf., Texas Agric. Ext. Serv., College Station.

1968. The minnow farming industry. Pages 32-35 in Proc. 1968 Okla. Outdoor Recreation Conf., Oklahoma State University, Stillwater.

1969. New happenings in farm raised catfish industry. Am. Fishes U.S. Trout News 13(6):8, 23-25.

1969. Possible ways to increase production. Am. Fishes U.S. Trout News 13(8):20-21.

1970. Catfish farming yesterday, today, and tomorrow. Pages 4-10 in Proc. 1970 Commer. Fish Farming Conf., Oklahoma State University, Stillwater.

1970. Fish diseases and parasites. Pages 34-39 in Proc. 1970 Commer. Fish Farming Conf., Oklahoma State University, Stillwater.

1971. Alternatives in the sale of live fish. Pages 68-73 in Proc. 1971 Fish Farming Conf., Texas Agric. Ext. Serv., College Station.

1971. Available alternatives in live fish sales and sport fishing operations. Am. Fish Farmer 2(4):11, 22.

MEYER, FRED P.

1962. Studies on the artificial propagation of the paddlefish. Prog. Fish-Cult. 24(2):65-67.

1963. The effect of formulation differences on the toxicity of benzene hexachloride to golden shiners. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 17:186-190.

MEYER, FRED P.

1964. Field treatments of *Aeromonas liquefaciens* infections in golden shiners. *Prog. Fish-Cult.* 26(1):33-35.

1965. A pseudoparasitic infestation of crayfish. *Prog. Fish-Cult.* 27(1):19.

1965. The experimental use of Guthion as a selective fish eradicant. *Trans. Am. Fish. Soc.* 94(3):203-209.

1965. Treatment tips: how to determine quantities for chemical treatments used in fish farming. *U.S. Bur. Sport Fish. Wildl., Resour. Publ.* 66. 17 pp.

1966. A new control for the anchor parasite, *Lernaea cyprinacea*. *Prog. Fish-Cult.* 28(1):33-39.

1966. Parasites of freshwater fishes. II. Protozoa 3. *Ichthyophthirius multifilis*. *U.S. Bur. Sport Fish. Wildl., Fish Dis. Leafl.* 2. 4 pp.

1966. Parasites of freshwater fishes. IV. Miscellaneous. 6. Parasites of catfishes. *U.S. Bur. Sport Fish Wildl., Fish Dis. Leafl.* 5. 7 pp.

1967. Chemical control of diseases in warmwater ponds. *Am. Fishes U.S. Trout News* 12(4):16-20.

1967. Chemical control of fish diseases in warmwater ponds. Pages 35-39 in *Proc. 1967 Commer. Fish Farming Conf., Texas Agric. Ext. Serv., College Station.*

1967. Commercial minnow and food fish production. Pages 81-83 in *Proc. 1967 Okla. Outdoor Recreation Conf., Okla. Coop. Ext. Serv., Stillwater.*

1967. The impact of diseases on fish farming. *Am. Fishes U.S. Trout News* 11(6):18-19.

1968. A review of the parasites and diseases of fishes in warmwater ponds in North America. *Proc. 1966 World Symp. Warmwater Pond Fish Cult. FAO [Food Agric. Organ. U.N.] Fish. Rep.* 44, Vol. 5:290-318.

1968. The forgotten art. Pages 59-69 in *Proc. 1968 North Cent. Warmwater Fish Cult. Workshop, Iowa State University, Ames.*

1969. A potential control for leeches. *Prog. Fish-Cult.* 31(3):160-163.

1969. Commercial fish production in the U.S. and its relationship to the feed industry. *Feedstuffs* 41(7):27-28.

1969. Dylox as a control for ectoparasites of fish. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 22:392-396.

1969. Look before you leap. *Catfish Farmer* 1(1):13, 26.

1969. Where do we go from here. *Catfish Farmer* 1(1):25.

1970. Disease diagnosis in fish. Pages 53-56 in *Proc. 1970 Calif. Catfish Conf., Calif. Agric. Ext. Serv., Sacramento.*

1970. Factors associated with the outbreak of fish diseases. Pages 47-49 in *Proc. 1969 Fish Farming Conf., Texas Agric. Ext. Serv., College Station.*

1970. Seasonal fluctuations in the incidence of disease on fish farms. Pages 21-29 in *Stanislas F. Snieszko, ed. A symposium on diseases of fishes and shellfishes. Am. Fish. Soc., Spec. Publ.* 5.

1970. Where do we stand? Pages 8-11 in *Proc. 1969 Fish Farming Conf., Texas Agric. Ext. Serv., College Station.*

1971. Management implications of the seasonal incidence of diseases on fish farms. Pages 39-50 in *Proc. 1971 Fish Farming Conf., Texas Agric. Ext. Serv., College Station.*

1971. Review of *Fish and invertebrate culture*, by Stephen A. Spotte. *J. Parasitol.* 57(4):920.

1971. Some observations on diseases in cage cultured catfish. *Fish Farming Ind.* 2(2):40-41.

1971. The status of drugs in American fish culture. Pages 197-198 in *Report of the 1970 workshop on fish feed technology and nutrition. U.S. Bur. Sport Fish. Wildl., Resour. Publ.* 102.

1972. Diseases of economic importance in the culture of warmwater fishes. Pages 125-128 in *Remedios W. Moore, ed. Progress in fishery and food science. Univ. Wash. Publ. Fish., N.S., Vol. 5.*

1972. Observations on diseases of catfishes. Pages 17-20 in *Proc. 1970 Mo. Catfish Conf., Univ. Mo. Ext. Div., Columbia.*

1972. The role of diseases in fish kills. Pages 46-60 in *Investigations of fish kills. Proc. 1971 Fish Kill Invest. Semin., Environ. Prot. Agency, Oklahoma City, Okla.*

MEYER, FRED P., AND JERRY COLLAR.

1964. Description and treatment of a *Pseudomonas* infection in white catfish. *J. Appl. Microbiol.* 12(3):201-203.

MEYER, FRED P., DON S. GODWIN, RANDY BOYD, J. MAYO MARTIN, D. LEROY GRAY, AND WM. P. MATHIS.

1971. Fish production in Arkansas during 1969 as compared to other states. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 24:497-506.

MEYER, FRED P., D. LEROY GRAY, WILLIAM P. MATHIS, J. MAYO MARTIN, AND B. R. WELLS.

1968. Production and returns from the commercial production of fish in Arkansas during 1966. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 21:525-531.

MEYERS, S. P., D. P. BUTLER, AND W. H. HASTINGS.

1972. Alginates as binders for crustacean rations. *Prog. Fish-Cult.* 34(1):9-12.

ROBINSON, JORDAN A., AND FRED P. MEYER.

1966. Streptococcal fish pathogen. *J. Bacteriol.* 92(2):512.

ROBINSON, JORDAN A., FRED P. MEYER, AND JAMES H. FRIBOURGH.

1969. Oxytetracycline efficacy against bacterial infections in blue and channel catfishes. *U.S. Bur. Sport Fish. Wildl., Tech. Pap.* 35. 7 pp.

SILLS, JOE B.

1964. A new method for supplying oxygen to holding tanks. *Prog. Fish-Cult.* 26(4):166.

1967. A report on the use of Karmex to control filamentous algae in fish ponds. *Proc. Annu. Conf. Southeast. Assoc. Game and Fish Comm.* 18:474-479.

**SIMCO, BILL A., W. H. HASTINGS, AND K. B. DAVIS.**

1971. Tissue composition of channel catfish fed diets containing three levels of protein. *J. Tenn. Acad. Sci.* 46(2):55. (Abstr.)

**SIMCO, BILL A., AND ROBERT P. STICKNEY.**

1971. An inexpensive demand feeder for catfish research. Pages 124-126 in Report of the 1970 workshop on fish feed technology and nutrition. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 102.

**SNEED, KERMIT E.**

1966. Fish farming—southern style. *Am. Fishes U.S. Trout News* 11(4):12-14.

1971. Pesticide residues in catfish. Pages 193-196 in Report of the 1970 workshop on fish feed technology and nutrition. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 102.

1971. The white amur: a controversial biological control. *Am. Fish Farmer* 2(6):6-9.

**SNEED, KERMIT E., W. H. HASTINGS, AND HARRY K. DUPREE.**

1971. Warm-water fish nutrition and future priorities. Pages 135-140 in Report of the 1970 workshop on fish feed technology and nutrition. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 102.

1972. Accomplishments and future priorities in warmwater fish nutrition. Pages 151-155 in Remedios W. Moore, ed. *Progress in fishery and food science*. Univ. Wash. Publ. Fish., N.S., Vol. 5.

**STEVENSON, JAMES H.**

1965. Observations on grass carp in Arkansas. *Prog. Fish-Cult.* 27(4):203-206.

**STICKNEY, ROBERT R., AND BILL A. SIMCO.**

1971. Salinity tolerance of catfish hybrids. *Trans. Am. Fish. Soc.* 100(4):790-792.

**TACKETT, DEWEY L.**

1969. A note on phosphorus changes in pond soils. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 22:270-272.

1969. Fish production as related to soil chemical constituents. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 22:412-415.

**TACKETT, D. L., C. J. BIGGERS, AND B. A. SIMCO.**

1972. Inheritance study of five individual matings of channel catfish *Ictalurus punctatus*. *ASB [Assoc. Southeast. Biol.] Bull.* 19(2):54.

**U.S. Bureau of Sport Fisheries and Wildlife [Fred P. Meyer].**

1962. Farm reservoir fishes. *U.S. Fish Wildl. Serv., Circ.* 131. 13 pp.

1962. Parasites and diseases of warmwater fishes. *U.S. Fish Wildl. Serv., Circ.* 112. 20 pp.

1962. Reservoirs for fish-rice farming. *U.S. Fish Wildl. Serv., Circ.* 125. 11 pp.

1962. This is the Fish Farming Experimental Station. *U.S. Fish Wildl. Serv., Circ.* 126. 8 pp.

**U.S. Bureau of Sport Fisheries and Wildlife [Warmwater Fish Cultural Laboratories].**

1970. Report to the fish farmers: the status of warmwater fish farming and progress in fish farming research. *U.S. Bur. Sport Fish. Wildl., Resour. Publ.* 83. 124 pp.

**U.S. Fish and Wildlife Service [Warmwater Fish Cultural Laboratories].**

1972. Factors affecting the growth and production of channel catfish in raceways. *U.S. Dep. Commer., Econ. Dev. Adm., Tech. Assist. Proj. 14-16-0008-571.* 98 pp.

## SOUTHEASTERN FISH CULTURAL LABORATORY

U.S. Department of the Interior  
Bureau of Sport Fisheries and Wildlife  
Marion, Alabama 36756

The Southeastern Fish Cultural Laboratory was established in 1959 to develop fish cultural techniques for use by hatcherymen and fish farmers. Research facilities include multiple 5- to 100-liter aquariums, 20 troughs, 22 0.1-acre and 10 0.05-acre earthen ponds, and 53 circular raceways. An additional 30 acres of ponds of various sizes are used to culture experimental fish. Buildings include the main office-laboratory, a service building, a trough and aquarium building, field laboratory, and several temporary fish rearing structures.

During the early 1960's research gradually evolved into studies of basic nutrition and physiology of warmwater fishes, especially the catfishes. Some of the early research was on culture of flathead catfish in troughs, with artificial diets; induction of spawning of channel catfish and other fish species with gonadotropins; freeze preservation of fish sperm; and development of purified diets suitable for nutritional studies. Emphasis now is directed toward basic biological problems concerned with the development of warmwater fish cultural practices, especially those related to production in impounded waters of the Southern States. Significant studies underway include those on the amino acids and vitamins required for the growth of channel catfish; interrelation of utilization of proteins, fats, and carbohydrates; effects of pesticides on fish and fish organisms; chemical and physical properties of immunoglobulins of warmwater fishes; selective breeding and hybridization of catfishes; and the culture and related nutrition and physiology of sport species.

ACTON, R. T., P. F. WEINHEIMER, H. K. DUPREE, E. E. EVANS, AND J. C. BENNETT.  
1971. Physical and chemical characterization of a 14S immune macroglobulin from the gar, *Lepisosteus osseus*. *Biochemistry* 10:2028-2036.

ACTON, R. T., P. F. WEINHEIMER, H. K. DUPREE, T. H. RUSSELL, M. WOLCOTT, E. E. EVANS, AND J. C. BENNETT.  
1971. Isolation and characterization of the immune macroglobulin from the paddlefish, *Polyodon spathula*. *J. Biol. Chem.* 246:6760-6769.

BEAVER, JOHN A., KERMIT E. SNEED, AND HARRY K. DUPREE.  
1966. The difference in growth of male and female channel catfish in hatchery ponds. *Prog. Fish-Cult.* 28(1):47-50.

DUPREE, HARRY K.  
1960. The arsenic content of water, plankton, soil and fish from ponds treated with sodium arsenite for weed control. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 14:132-137.  
1966. Vitamins essential for the growth of channel catfish, *Ictalurus punctatus*. *U.S. Bur. Sport Fish. Wildl., Tech. Pap.* 7. 12 pp.  
1968. Influence of corn oil and beef tallow on the growth of fingerling channel catfish. *U.S. Bur. Sport Fish. Wildl., Tech. Pap.* 27. 13 pp.  
1970. Basic nutrition of channel catfish. Pages 43-46 in *Proc. 1969 Fish Farming Conf., Texas Agric. Ext. Serv., College Station*.

1971. Protein, mineral and vitamin requirements of channel catfish. Pages 108-112 in *Proc. Ga. Nutr. Conf. Feed Manuf.*, Atlanta.

DUPREE, HARRY K., O. L. GREEN, AND KERMIT E. SNEED.  
1970. The growth and survival of fingerling channel catfish fed complete and incomplete feeds in ponds and troughs. *Prog. Fish-Cult.* 32(2):85-92.

DUPREE, HARRY K., AND JOHN E. HALVER.  
1970. Amino acids essential for the growth of channel catfish. *Trans. Am. Fish. Soc.* 99(1):90-92.

DUPREE, HARRY K., AND KERMIT E. SNEED.  
1966. Response of channel catfish fingerlings to different levels of major nutrients in purified diets. *U.S. Bur. Sport Fish. Wildl., Tech. Pap.* 9. 21 pp.

GREEN, O. L.  
1966. Observations on the culture of the bowfin. *Prog. Fish-Cult.* 28(3):179.  
1970. Fingerling production. Pages 60-65 in *Proc. 1969 Fish Farming Conf., Texas Agric. Ext. Serv., College Station*.

1969. Fingerlings to food fish. Pages 7-12 in *Proc. 1969 Conf. Commer. Fish Farming, University of Georgia, Athens*.

1969. Intensive culture of fingerling catfish in small ponds. *Catfish Farmer* 1(4):21, 37.

GREEN, O. L.

1971. Catfish farming in Alabama. Port of Mobile [Magazine] (Ala. State Docks Dep.) 44(3):22-23.

1971. Production systems for egg to stocking size fish. Pages 22-23 in Proc. Conf. Prod. Mark. Catfish Tenn. Val., Bull. Y-38, Div. Agric. Dev., Tenn. Val. Auth., Muscle Shoals, Ala.

1972. Fingerlings to food fish. Pages 3-5 in Proc. 1970 Mo. Catfish Conf., Univ. Mo. Ext. Div., Columbia.

LEGLER, D. W., R. T. ACTON, P. F. WEINHEIMER, AND H. K. DUPREE.

1971. Humoral antibody responses in the gar, *Lepisosteus osseus*. Immunology 20:1009-1017.

LEGLER, DONALD W., E. EDWARD EVANS, AND HARRY K. DUPREE.

1967. Comparative immunology: serum complement of freshwater fishes. Trans. Am. Fish. Soc. 96(3): 237-242.

LEGLER, D. W., P. F. WEINHEIMER, R. T. ACTON, H. K. DUPREE, AND T. R. RUSSELL.

1971. Humoral immune factors in the paddlefish, *Polyodon spathula*. Comp. Biochem. Physiol. 38B:523-527.

LINDSAY, RAYMOND H., CYNTHIA ROMINE, FRANK ZACHAREWICZ, HARRY K. DUPREE, AND KERMIT E. SNEED.

1966. Accumulation of <sup>131</sup>I by channel catfish (*Ictalurus punctatus*) ovaries *in vivo* and *in vitro*. Gen. Comp. Endocrinol. 6(2): 321-328.

SNEED, KERMIT E., AND HOWARD P. CLEMENS.

1963. The morphology of the testes and accessory reproductive glands of the catfishes (*Ictaluridae*). Copeia 1963(4):606-611.

SNEED, KERMIT E., AND HARRY K. DUPREE.

1961. The effect of thyroid-stimulating hormone combined with gonadotrophic hormones on the ovulation of goldfish and green sunfish. Prog. Fish-Cult. 23(4):179-182.

1962. An electrical oxygen-temperature meter for fishery biologists. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 426. 13 pp.

SNEED, KERMIT E., HARRY K. DUPREE, AND O. L. GREEN.

1961. Observations on the culture of flathead catfish (*Pylodictis olivaris*) fry and fingerlings in troughs. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 15:298-302.

TARRANT, ROBERT M., JR.

1971. Seasonal variation in accumulation and loss of <sup>131</sup>I by tissues of adult female channel catfish, *Ictalurus punctatus* (Rafinesque). Trans. Am. Fish. Soc. 100(2):237-246.

**SALMON-CULTURAL LABORATORY**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Longview, Washington 98632**

Research at the Salmon-Cultural Laboratory, located on the lower Columbia River, has been directed toward the improvement of methods of artificial propagation of Pacific salmon. The Laboratory's facilities include a full-scale hatchery, rearing ponds, an egg-incubation channel, and chemical and biological laboratories.

Nutrition, physiology, and the development and improvement of hatchery techniques have been the principal subjects of investigation. Extensive feeding trials with various food formulations have led to the development of the Abernathy dry pelleted salmon diet, which is widely used in National and State hatcheries. Physiological work has dealt primarily with the factors affecting the embryonic development and maturation of salmon. In research on hatchery techniques, electrical diversion weirs for trapping adult salmon have been studied; the suitability and efficiency of rearing ponds of different shape and construction have been evaluated; and the quality of fingerling salmon from different stocks or with different rearing histories has been tested in a "stamina tunnel" developed at the Laboratory. Much of the Laboratory's research has been ultimately evaluated on the basis of the percentage of distinctively marked fingerling salmon that have returned to the hatchery as adults.

The Laboratory was transferred from the Division of Fishery Research to the Division of Fish Hatcheries on July 1, 1972.

**ANONYMOUS.**

1954. Electrical diversion weir proves practicable at Entiat. *Prog. Fish-Cult.* 16(4):152. [Includes quotations from Roger E. Burrows]

1955. Fingerlings from early spawning salmon. *Prog. Fish-Cult.* 17(3):133. [Includes quotations from Roger E. Burrows]

1957. Acceleration of spawning of adult salmon. *Prog. Fish-Cult.* 19(2):75. [Includes quotations from Roger E. Burrows]

1958. Light as a factor in accelerating the spawning of blueback salmon. *Prog. Fish-Cult.* 20(2):57. [Includes quotations from Roger E. Burrows]

**BANKS, JOE L., LAURIE G. FOWLER, AND JOSEPH W. ELLIOTT.**

1971. Effects of rearing temperature on growth, body form, and hematology of fall chinook fingerlings. *Prog. Fish-Cult.* 33(1):20-26.

**BURROWS, ROGER E.**

1951. A method for enumeration of salmon and trout eggs by displacement. *Prog. Fish-Cult.* 13(1):25-30.

1951. An evaluation of methods of egg enumeration. *Prog. Fish-Cult.* 13(2):79-85.

1951. The treatment frequency and concentration necessary for adequate prophylaxis with pyridyl-mercuric acetate for the control of bacterial gill disease. *Prog. Fish-Cult.* 13(4):225-226.

1957. Diversion of adult salmon by an electrical field. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 246. 11 pp.

1960. Holding ponds for adult salmon. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 357. 13 pp.

1961. Normal behavior of chinook salmon fingerlings. *Prog. Fish-Cult.* 23(1):7.

1962. Hatchery techniques and equipment. U.S. Trout News 7(3):10-11, 23.

1963. Means of improving salmon culture. Pages 91-93 in Richard S. Croker and Don Reed, eds. Report of Second Governors' Conference on Pacific Salmon. State Printing Plant, Olympia, Washington.

1963. Water temperature requirements for maximum productivity of salmon. Proc. Pac. Northwest Symp. Water Pollut. Res. 12:29-35.

1964. Effects of accumulated excretory products on hatchery-reared salmonids. U.S. Bur. Sport Fish. Wildl., Res. Rep. 66. 12 pp.

1969. The influence of fingerling quality on adult salmon survivals. *Trans. Am. Fish. Soc.* 98(4):777-784.

1972. Salmon husbandry techniques. Pages 375-402 in John E. Halver, ed. Fish nutrition. Academic Press, New York.

**BURROWS, ROGER E., AND HARRY H. CHENOWETH.**

1955. Evaluation of three types of rearing ponds. U.S. Fish Wildl. Serv., Res. Rep. 39. 29 pp.

1970. The rectangular circulating rearing pond. *Prog. Fish-Cult.* 32(2):67-80.

**BURROWS, ROGER E., AND B. D. COMBS.**

1958. Lignasan as bactericide and algaecide. *Prog. Fish-Cult.* 20 (3):143-144.

BURROWS, ROGER E., AND B. D. COMBS.  
 1968. Controlled environments for salmon propagation. *Prog. Fish-Cult.* 30(3):123-136.

BURROWS, ROGER E., AND DAVID D. PALMER.  
 1955. A vertical egg and fry incubator. *Prog. Fish-Cult.* 17(4):147-155.

BURROWS, ROGER E., DAVID D. PALMER, AND H. WILLIAM NEWMAN.  
 1952. Effects of injected pituitary material upon the spawning of blueback salmon. *Prog. Fish-Cult.* 14(3):113-116.

BURROWS, ROGER E., DAVID D. PALMER, H. WILLIAM NEWMAN, AND ROBERT L. AZEVEDO.  
 1952. Tests of hatchery foods for salmon, 1951. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 86. 24 pp.

BURROWS, ROGER E., LESLIE A. ROBINSON, AND DAVID D. PALMER.  
 1951. Tests of hatchery foods for blueback salmon (*Oncorhynchus nerka*), 1944-1948. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 59. 39 pp.

1953. Summary of feeding trials on utilization of fishery products for fish food. Pages 44-50 in Use of fish products in blueback salmon diets. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 106.

COMBS, BOBBY D.  
 1965. Effect of temperature on the development of salmon eggs. *Prog. Fish-Cult.* 27(3):134-137.

1968. An electrical grid for controlling trematode cercariae in hatchery water supplies. *Prog. Fish-Cult.* 30(2):67-75.

COMBS, BOBBY D., AND ROGER E. BURROWS.  
 1957. Threshold temperatures for the normal development of chinook salmon eggs. *Prog. Fish-Cult.* 19(1):3-6.

1958. An evaluation of bound diets. *Prog. Fish-Cult.* 20(3):124-128.

1959. Effects of injected gonadotrophins on maturation and spawning of blueback salmon. *Prog. Fish-Cult.* 21(4):165-168.

COMBS, BOBBY D., ROGER E. BURROWS, AND RICHARD G. BIGEJ.  
 1959. The effect of controlled light on the maturation of adult blueback salmon. *Prog. Fish-Cult.* 21(2):63-69.

COMBS, BOBBY D., WILTON W. HEINEMANN, ROGER E. BURROWS, ALLAN E. THOMAS, AND LAURIE G. FOWLER.  
 1962. Protein and calorie levels of meat-meal, vitamin-supplemented salmon diets. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 432. 7 pp.

COMBS, BOBBY D., DAVID D. PALMER, JOHN H. FINUCANE, AND ROGER E. BURROWS.  
 1955. Tests of hatchery foods for salmon, 1953 and 1954. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 160. 8 pp.

ELLIOTT, JOSEPH W.  
 1963. A sensitive photometric procedure for dissolved oxygen with potential field applicability. *Prog. Fish-Cult.* 25(1):42-45.

1969. The oxygen requirements of chinook salmon. *Prog. Fish-Cult.* 31(2):67-73.

ELLIOTT, JOSEPH W., LAURIE G. FOWLER, AND ROGER E. BURROWS.  
 1966. Effects of age, growth, and diet on characteristics of salmon fingerlings. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 8. 11 pp.

FOWLER, LAURIE G.  
 1972. Growth and mortality of fingerling chinook salmon as affected by egg size. *Prog. Fish-Cult.* 34(2):66-69.

FOWLER, LAURIE G., AND JOE L. BANKS.  
 1967. Test of different components in the Abernathy salmon diet. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 13. 18 pp.

1969. Tests of vitamin supplements and formula changes in the Abernathy salmon diet, 1966-67. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 26. 19 pp.

1970. Tests of substitute ingredients and effects of storage in the Abernathy salmon diet. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 47. 8 pp.

1972. Alteration tests of the Abernathy salmon diet, 1971. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 62. 12 pp.

FOWLER, LAURIE G., JOE L. BANKS, AND JOSEPH W. ELLIOTT.  
 1972. Tests of variations of the Abernathy salmon diet, 1970. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 61. 14 pp.

FOWLER, LAURIE G., AND ROGER E. BURROWS.  
 1971. The Abernathy salmon diet. *Prog. Fish-Cult.* 33(2):67-75.

FOWLER, LAURIE G., J. HOWARD MCCORMICK, JR., AND ALLAN E. THOMAS.  
 1964. Further studies on protein and calorie levels of meat-meal, vitamin-supplemented salmon diets. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 480. 13 pp.

1966. Studies of caloric and vitamin levels of salmon diets. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 6. 14 pp.

FOWLER, LAURIE G., AND EDWARD M. WOOD.  
 1966. Effect of type of supplemental dietary fat on chinook salmon fingerlings. *Prog. Fish-Cult.* 28(3):123-127.

NEWMAN, H. WILLIAM, DAVID D. PALMER, AND ROGER E. BURROWS.  
 1954. Tests of hatchery foods for salmon, 1952. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 124. 12 pp.

PALMER, DAVID D., ROGER E. BURROWS, O. H. ROBERTSON, AND H. WILLIAM NEWMAN.  
 1954. Further studies on the reactions of adult blueback salmon to injected salmon and mammalian gonadotrophins. *Prog. Fish-Cult.* 16(3):99-107.

PALMER, DAVID D., HARLAN E. JOHNSON, LESLIE A. ROBINSON, AND ROGER E. BURROWS.  
 1951. The effect of retardation of the initial feeding on the growth and survival of salmon fingerlings. *Prog. Fish-Cult.* 13(2):55-62.

PALMER, DAVID D., H. WILLIAM NEWMAN, ROBERT L. AZEVEDO, AND ROGER E. BURROWS.  
 1952. Comparison of the growth rates of chinook salmon fingerlings reared in circular tanks and

PALMER, DAVID D., H. WILLIAM NEWMAN, ROBERT L. AZEVEDO, AND ROGER E. BURROWS. Foster-Lucas ponds. *Prog. Fish-Cult.* 14(3):122-124.

PALMER, DAVID D., LESLIE A. ROBINSON, AND ROGER E. BURROWS. 1951. Feeding frequency: its role in the rearing of blueback salmon fingerlings in troughs. *Prog. Fish-Cult.* 13(4):205-212.

ROBINSON, LESLIE A., DAVID D. PALMER, AND ROGER E. BURROWS. 1951. Tests of hatchery foods for blueback salmon, 1949. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 60. 21 pp.

ROBINSON, LESLIE A., MERL H. PAYNE, JR., DAVID D. PALMER, AND ROGER E. BURROWS. 1951. Tests of hatchery foods for blueback salmon, 1950. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 63. 28 pp.

THOMAS, ALLAN E. 1969. Mortality due to leach infestation in an incubation channel. *Prog. Fish-Cult.* 31(3):164-165.

THOMAS, ALLAN E., JOE L. BANKS, AND DONALD C. GREENLAND. 1969. Effect of yolk sac absorption on the swimming ability of fall chinook salmon. *Trans. Am. Fish. Soc.* 98(3):406-410.

THOMAS, ALLAN E., ROGER E. BURROWS, AND HARRY H. CHENOWETH. 1964. A device for stamina measurement of fingerling salmonids. U.S. Bur. Sport Fish. Wildl., Res. Rep. 67. 15 pp.

THOMAS, ALLAN E., JOSEPH W. ELLICOTT, AND JOE L. BANKS. 1969. Hematological and chemical characteristics associated with precocious male chinook salmon fingerlings. *Trans. Am. Fish. Soc.* 98(1):23-26.

THOMAS, ALLAN E., AND J. M. SHELTON. 1968. Operation of Abernathy channel for incubation of salmon eggs. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 23. 19 pp.

TODD, W. R., L. E. LAASTUEN, AND L. G. FOWLER. 1968. Induction of skin pallor in juvenile salmonids by guanidine compounds. *J. Fish. Res. Board Can.* 25(3):611-612.

TODD, W. R., L. E. LAASTUEN, AND A. E. THOMAS. 1967. Effect of amino acid imbalance on liver glycogen levels in young salmon. *Comp. Biochem. Physiol.* 23(2):431-435.

# SIERRA NEVADA AQUATIC RESEARCH LABORATORY

U.S. Department of the Interior

Bureau of Sport Fisheries and Wildlife

Bishop, California 93514

This facility was known as the Convict Creek Experiment Station in 1950-60, when its major functions were to (1) determine experimentally the relative survival of different species of trout in controlled stream habitats, (2) specify factors in the long-term success of hatchery trout, (3) explore regional aquatic productivity through limnological studies, and (4) develop methods and applications for freshwater fishery biology.

After successive additions of laboratory space and equipment in the 1960's, research on ecology, behavior, and adaptive physiology of freshwater salmonids was expanded, with a view to supplying fundamental information needed by fishery managers.

Early publications dealt with studies of trout survival and vitality in experimental waters, limnology of trout waters in the region, formerly unspecified food relations, and the improvement of investigative methods or tools. Publications in 1968-72 concerned research on trout behavior and fish physiology, as well as further work on limnology, trout ecology, and fishery methods.

The Laboratory was closed as a Bureau activity in June 1973.

## BERINATI, D. J., AND G. J. CROWLEY.

1972. Blood sample preparation for hemoglobin assay. *Prog. Fish-Cult.* 34(1):63-64.

## CROWLEY, GERALD J.

1972. A battery powered magnetic stirrer for field use. *Prog. Fish-Cult.* 34(3):159.

## CROWLEY, G. J., AND D. J. BERINATI.

1972. Effect of MS-222 on blood sugar and liver glycogen in rainbow trout. *Trans. Am. Fish. Soc.* 101(1):125-128.

## ELLIOTT, GEORGE V., AND T. M. JENKINS, JR.

1972. Winter food of trout in three high elevation Sierra Nevada lakes. *Calif. Fish Game* 58(3): 231-237.

## JENKINS, THOMAS M., JR.

1969. Night feeding of brown and rainbow trout in an experimental stream channel. *J. Fish. Res. Board Can.* 26(12):3275-3278.

1969. Observations on color changes of brown and rainbow trout (*Salmo trutta* and *S. gairdneri*) in stream habitats, with description of an unusual color pattern in brown trout. *Trans. Am. Fish. Soc.* 98(3): 517-519.

1971. Role of social behavior in dispersal of introduced rainbow trout (*Salmo gairdneri*). *J. Fish. Res. Board Can.* 28(7):1019-1027.

## JENKINS, T. M., JR., C. R. FELDMETH, AND G. V. ELLIOTT.

1970. Feeding of rainbow trout (*Salmo gairdneri*) in relation to abundance of drifting invertebrates in a mountain stream. *J. Fish. Res. Board Can.* 27(12):2356-2361.

## JENKINS, THOMAS M., JR., AND AARON KLAIN.

1969. A regulated-temperature electric tool for marking fish. *Trans. Am. Fish. Soc.* 98(2):338-340.

## KENNEDY, HARRY D.

1955. Colonization of a previously barren stream section by aquatic invertebrates and trout. *Prog. Fish-Cult.* 17(3):119-122.

1958. Biology and life history of a new species of mountain midge, *Deuterophlebia nielsoni*, from eastern California (Diptera: Deuterophlebiidae). *Trans. Am. Microsc. Soc.* 77(2):201-228.

1960. *Deuterophlebia inyoensis*, a new species of mountain midge from the alpine zone of the Sierra Nevada Range, California. (Diptera: Deuterophlebiidae). *Trans. Am. Microsc. Soc.* 79(2):191-210.

1964. Air and water temperature and stream flow data, Convict Creek, Mono County, California, 1950 to 1962. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 481. 5 pp.

1967. Seasonal abundance of aquatic invertebrates and their utilization by hatchery-reared rainbow trout. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 12. 41 pp.

## MACIOLEK, JOHN A.

1954. Artificial fertilization of lakes and ponds: a review of the literature. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 113. 41 pp.

1962. Limnological organic analyses by quantitative dichromate oxidation. U.S. Fish Wildl. Serv., Res. Rep. 60. 61 pp.

1963. Pressure filtration apparatus. Limnol. Oceanogr. 8(2):301-302.

MACIOLEK, JOHN A.

1966. Abundance and character of microseston in a California mountain stream. *Int. Ver. Theor. Angew. Limnol. Verh.* 16:639-645.

MACIOLEK, J. A., AND H. D. KENNEDY.

1964. Spatial variation in periphyton production in a mountain lake at fall overturn. *Int. Ver. Theor. Angew. Limnol. Verh.* 15:386-393.

MACIOLEK, JOHN A., AND P. R. NEEDHAM.

1952. Ecological effects of winter conditions on trout and trout foods in Convict Creek, California, 1951. *Trans. Am. Fish. Soc.* 81:202-217.

MACIOLEK, JOHN A., AND M. G. TUNZI.

1968. Microseston dynamics in a simple Sierra Nevada lake-stream system. *Ecology* 49(1):60-75.

NIELSON, REED S.

1953. Apparatus and methods for the collection of attachment materials in lakes. *Prog. Fish-Cult.* 15(2):87-89.

1953. Should we stock brown trout? *Prog. Fish-Cult.* 15(3):125-126.

NIELSON, REED S., NORMAN REIMERS, AND HARRY D. KENNEDY.

1957. A six-year study of the survival and vitality of hatchery-reared rainbow trout of catchable size in Convict Creek, California. *Calif. Fish Game* 43(1):5-42.

REIMERS, NORMAN.

1957. Some aspects of the relation between stream foods and trout survival. *Calif. Fish Game* 43(1): 43-69.

1958. Conditions of existence, growth, and longevity of brook trout in a small, high-altitude lake of the eastern Sierra Nevada. *Calif. Fish Game* 44(4): 319-333.

1963. Body condition, water temperature, and over-winter survival of hatchery-reared trout in Convict Creek, California. *Trans. Am. Fish. Soc.* 92(1): 39-46.

1966. A low-maintenance fish barrier with free-flow characteristics. *Prog. Fish-Cult.* 28(2):103-107.

REIMERS, NORMAN, AND BOBBY D. COMBS.

1956. Method of evaluating temperature in lakes with description of thermal characteristics of Convict Lake, California. *U.S. Fish Wildl. Serv., Fish. Bull.* 56:535-553.

REIMERS, NORMAN, JOHN A. MACIOLEK, AND EDWIN P. PISTER.

1955. Limnological study of the lakes in Convict Creek Basin, Mono County, California. *U.S. Fish Wildl. Serv., Fish. Bull.* 56:437-503.

REIMERS, NORMAN, AND EDWIN P. PISTER.

1953. A machine for sounding and for operating limnological apparatus. *Prog. Fish-Cult.* 15(1): 33-34.

**TUNISON LABORATORY OF FISH NUTRITION**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Cortland, New York 13045**

Research on the nutrition of salmonids has been conducted at this facility, originally known as the Cortland Experimental Hatchery and later as the Eastern Fish Nutrition Laboratory, since Abram V. Tunison started the first experiments in August 1932. When a new research laboratory was dedicated in May 1971 it was renamed the A.V. Tunison Laboratory of Fish Nutrition. The Laboratory has been operated almost since its inception under a cooperative agreement between the New York Department of Environmental Conservation, the U.S. Fish and Wildlife Service, and Cornell University.

The federally owned Laboratory is on a 105-acre tract of primarily forested land 6 miles south of Cortland. It includes three buildings (more than 15,000 square feet of floor space) that house two experimental hatcheries, an isolation-quarantine area, and laboratory-office space; also on the grounds are 24 outdoor raceways. The Laboratory is completely equipped for studying the physiology and nutritional requirements of trout and Atlantic salmon.

Most of the extensive research of the Laboratory has been published in 39 issues of the Cortland Hatchery Report, which appeared as annual volumes for the years 1932-70.

**BOOKE, HENRY E.**

1964. Blood serum protein and calcium levels in yearling brook trout. *Prog. Fish-Cult.* 26(3): 107-110.

**BROCKWAY, DONALD R.**

1950. Metabolic products and their effects. *Prog. Fish-Cult.* 12(3):127-129.

1953. Fish food pellets show promise. *Prog. Fish-Cult.* 15(2):92-93.

**BRYANT, MAURICE, JR.**

1949. That potato ricer again. *Prog. Fish-Cult.* 11(2):136-137.

1950. A graphic record for hatcheries rearing artificially fed fish. *Prog. Fish-Cult.* 12(2):91-93.

1951. Dual-purpose trout rearing tanks. *Prog. Fish-Cult.* 13(2):101-102.

**DUMAS, RICHARD F.**

1966. Observations on yolk sac constriction in land-locked Atlantic salmon fry. *Prog. Fish-Cult.* 28(2): 78-75.

**HAMMER, GLEN L.**

1960. Toxicity of pyridylmercuric acetate to cut-throat trout. *Prog. Fish-Cult.* 22(1):14.

**HOOPER, F. F., H. A. PODOLIAK, AND S. F. SNIESZKO.**

1961. Use of radioisotopes in hydrobiology and fish culture. *Trans. Am. Fish. Soc.* 90(1):49-57.

**LOVELACE, FLOYD E., AND HENRY A. PODOLIAK.**

1952. Absorption of radioactive calcium by brook trout. *Prog. Fish-Cult.* 14(4):154-158.

**McCARTNEY, THOMAS H.**

1965. The effect of supplemental fats in the diet and of water temperature on the total serum cholesterol and total serum lipids of brown trout.

Cortland Hatchery Rep. 33(1964). N.Y. Conserv. Dep., Fish Res. Bull. 28:35-41.

1965. The influence of age and sex on the total serum cholesterol level of brown trout. Cortland Hatchery Rep. 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:42-43.

1966. Effect of supplemental fats in the diet and of water temperature on the serum cholesterol and phospholipids of brown trout. Cortland Hatchery Rep. 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:40-48.

1966. Monthly variations of the serum total cholesterol of mature brown trout. Cortland Hatchery Rep. 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:72-75.

1966. The distribution of protein-bound cholesterol and lipid phosphorus in the serum of yearling brown trout fed standard hatchery diets. Cortland Hatchery Rep. 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:49-52.

1967. Monthly variations of the serum total cholesterol and serum total lipid-phosphorus of mature brown trout. Cortland Hatchery Rep. 35(1966). N.Y. Conserv. Dep., Fish. Res. Bull. 30:42-45.

1967. The effect of water temperature and a supplemental oil in the diet on the serum cholesterol and serum lipid-phosphorus of fingerling brown trout. Cortland Hatchery Rep. 35(1966). N.Y. Conserv. Dep., Fish. Res. Bull. 30:35-41.

1969. The chemical composition of the trout erythrocyte. Cortland Hatchery Rep. 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:32-33.

McCARTNEY, THOMAS H.

1969. The determination of the effect of a pyridoxine deficiency on the serum lipids of fingerling brook trout. *Cortland Hatchery Rep.* 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:6-11.

1969. The effect of dietary carbohydrate level and supplemental phosphorus on the liver glycogen of fingerling brown trout. *Cortland Hatchery Rep.* 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:26-31.

1969. The effect of dietary inorganic phosphate and vitamin D supplementation on the liver glycogen of fingerling brown trout. *Cortland Hatchery Rep.* 36(1967). N.Y. Conserv. Dep., Fish. Res. Bull. 31:5-8.

1969. The effect of dietary protein level and methionine supplementation on the growth, chemical composition, and total sulfur of fingerling brook trout. *Cortland Hatchery Rep.* 36(1967). N.Y. Conserv. Dep., Fish. Res. Bull. 31:20-24.

1969. The effect of dietary protein level and water temperature on the blood serum cholesterol and lipid-phosphorus of fingerling brown trout. *Cortland Hatchery Rep.* 36(1967). N.Y. Conserv. Dep., Fish. Res. Bull. 31:44-49.

1969. The effect of a dietary pyridoxine deficiency on the inorganic composition of fingerling brook trout. *Cortland Hatchery Rep.* 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:12-13.

1969. The effect of dietary safflower oil on the serum lipids of fingerling brown trout. *Cortland Hatchery Rep.* 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:34-40.

1971. Phosphorus, total cholesterol, and total free fatty acid distribution in erythrocytes of three species of trout. *Cortland Hatchery Rep.* 38(1969). N.Y. Conserv. Dep., Fish. Res. Bull. 33:5-8.

1971. The comparative utilization of glucose, fructose, and galactose by fingerling brook trout. *Cortland Hatchery Rep.* 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34:43-52.

1971. The effect of thiamine deficiency on some chemical constituents of the serum and liver of fingerling brook trout. *Cortland Hatchery Rep.* 38(1969). N.Y. Conserv. Dep., Fish. Res. Bull. 33:30-34.

1971. The fatty acid composition of the trout erythrocyte. *Cortland Hatchery Rep.* 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34:18-21.

1971. The plasma phosphorus distribution in fingerling brook trout fed three different monosaccharides. *Cortland Hatchery Rep.* 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34:78-80.

McCAY, C. M.

1933. Report of the experimental work at the Cortland Hatchery. [Cortland Hatchery Rep. 1 (1932)]. N.Y. Conserv. Dep. 13 pp.

1937. The biochemistry of fish. *Annu. Rev. Biochem.* 6:445-468.

McCAY, C. M., AND A. M. PHILLIPS.

1940. Feeds for the fish hatcheries: a summary of research at the Cortland experimental hatchery. *Prog. Fish-Cult.* No. 52:18-21.

McCAY, C. M., AND A. V. TUNISON.

1934. Report of the experimental work at the Cortland Hatchery: the nutritional requirements of trout. [Cortland Hatchery Rep. 2(1933)]. N.Y. Conserv. Dep. 34 pp.

1935. Report of the experimental work at the Cortland Hatchery for the year 1934. [Cortland Hatchery Rep. 3(1934)]. N.Y. Conserv. Dep. 17 pp.

1936. Cortland Hatchery Report No. 4 for the year 1935. N.Y. Conserv. Dep. 17 pp.

1937. Cortland Hatchery Report No. 5 for the year 1936. N.Y. Conserv. Dep. 18 pp.

MITCHELL, C. R.

1941. The potato ricer in the fish hatchery: how to transform a kitchen gadget into a fish feeder. *Prog. Fish-Cult.* No. 55:28-30.

1947. A new type of drain plug. *Prog. Fish-Cult.* 9(1):46-47.

PHILLIPS, ARTHUR M., JR.

1936. Relative merits of copper sulphate and potassium permanganate when followed by a salt bath. *Fish Culture (N.Y. Conserv. Dep.)* 2(8):3-9.

1940. Feeding carbohydrates: a study of the digestion and absorption of carbohydrates by brook trout. *Prog. Fish-Cult.* No. 51:16-23.

1940. Meatless diets and anemia: the development of anemia in trout fed a synthetic diet and its cure by the feeding of fresh beef liver. *Prog. Fish-Cult.* No. 48:11-13.

1944. The physiological effect of sodium chloride upon brook trout. *Trans. Am. Fish. Soc.* 74: 297-309.

1946. The vitamin B requirement of trout. *Trans. Am. Fish. Soc.* 76:34-45.

1947. The effect of asphyxia upon the red cell content of trout blood. *Copeia* 1947(3):183-186.

1956. The nutrition of trout. I. General feeding methods. *Prog. Fish-Cult.* 18(3):113-119.

1958. The organic composition of brook and brown trout blood. *Prog. Fish-Cult.* 20(3):114-116.

1959. The known and possible role of minerals in trout nutrition and physiology. *Trans. Am. Fish. Soc.* 88:133-135.

1960. About trout nutrition. *U.S. Trout News* 5(3):10.

1961. Effect of water temperature and diet on the blood glucose of brook trout. *Prog. Fish-Cult.* 23(2):66-69.

1961. The basic requirements of a good fish feed. *Pac. Sci. Congr. Pac. Sci. Assoc.* 10:154. (Abstr.)

1962. Effect of diet and water temperature on the blood phosphorus of brook trout. *Prog. Fish-Cult.* 24(1):22-25.

1963. Fish feed formulation. Page 131 in 1963 Cornell Nutrition Conference for Feed Manufacturers. Cornell University, Ithaca, N.Y.

1963. Folic acid as an anti-anemia factor for brook trout. *Prog. Fish-Cult.* 25(3):132-134.

1964. Salt in trout diets. *Prog. Fish-Cult.* 26(2):95.

1969. Nutrition, digestion, and energy utilization. Pages 391-432 in William S. Hoar and David

PHILLIPS, ARTHUR M., JR.  
J. Randall, eds. *Fish physiology*. Vol. 1. Academic Press, New York.

1972. Caloric and energy requirement. Pages 1-28 in John E. Halver, ed. *Fish nutrition*. Academic Press, New York.

PHILLIPS, ARTHUR M., JR., AND GEORGE C. BALZER, JR.  
1957. The nutrition of trout. V. Ingredients for trout diets. *Prog. Fish-Cult.* 19(4):158-167.

PHILLIPS, ARTHUR M., JR., AND DONALD R. BROCKWAY.  
1947. The niacin and biotin requirement of trout. *Trans. Am. Fish. Soc.* 77:152-159.

1947. This question of anemia: what it is and what to do about it. *Prog. Fish-Cult.* 9(3):151-154.

1948. Vitaminology. *Prog. Fish-Cult.* 10(3):117-124.

1954. Effect of starvation, water temperature, and sodium amytal on the metabolic rate of brook trout. *Prog. Fish-Cult.* 16(2):65-68.

1956. The nutrition of trout. II. Protein and carbohydrate. *Prog. Fish-Cult.* 18(4):159-164.

1957. The nutrition of trout. IV. Vitamin requirements. *Prog. Fish-Cult.* 19(3):119-123.

1958. The inorganic composition of brown trout blood. *Prog. Fish-Cult.* 20(2):58-61.

1959. Dietary calories and the production of trout in hatcheries. *Prog. Fish-Cult.* 21(1):3-16.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, AND GEORGE C. BALZER, JR.  
1956. The chemistry of developing brown trout trout eggs. *Prog. Fish-Cult.* 18(3):104-107.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, MAURICE BRYANT, E. O. RODGERS, AND JOHN M. MAXWELL.  
1950. The nutrition of trout. Cortland Hatchery Rep. 18(1949). N.Y. Conserv. Dep., Fish. Res. Bull. 13. 31 pp.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, ALBERT J. KOLB, AND JOHN M. MAXWELL.  
1951. The nutrition of trout. Cortland Hatchery Rep. 19(1950). N.Y. Conserv. Dep., Fish. Res. Bull. 14. 24 pp.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, FLOYD E. LOVELACE, AND GEORGE C. BALZER, JR.  
1952. Biotin, pantothenic acid, and brown trout. *Prog. Fish-Cult.* 14(2):67-70.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, FLOYD E. LOVELACE, AND HENRY A. PODOLIAK.  
1957. A chemical comparison of hatchery and wild brook trout. *Prog. Fish-Cult.* 19(1):19-25.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, FLOYD E. LOVELACE, HENRY A. PODOLIAK, AND JOHN M. MAXWELL.  
1952. The nutrition of trout. Cortland Hatchery Rep. 20(1951). N.Y. Conserv. Dep., Fish. Res. Bull. 15. 24 pp.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, AND JOHN M. MAXWELL.  
1952. The effects of supplemental fats in the diet of brook trout. *Prog. Fish-Cult.* 14(1):19-22.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, AND ERNEST O. RODGERS.  
1949. The folic acid requirements of trout: brook, brown, and rainbow receive various levels for study. *Prog. Fish-Cult.* 11(3):141-145.

1949. The nutrition of trout. Cortland Hatchery Rep. 17(1948). N.Y. Conserv. Dep., Fish. Res. Bull. 12. 31 pp.

1949. Use of cod-liver oil in the diet of hatchery-reared trout. *Prog. Fish-Cult.* 11(2):109-112.

1950. Biotin and brown trout: the tale of a vitamin. *Prog. Fish-Cult.* 12(2):67-71.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, E. O. RODGERS, R. L. ROBERTSON, H. GOODELL, JOHN A. THOMPSON, AND HARVEY WILLOUGHBY.  
1948. The nutrition of trout. Cortland Hatchery Rep. 16(1947). N.Y. Conserv. Dep., Fish. Res. Bull. 10. 35 pp.

PHILLIPS, ARTHUR M., JR., DONALD R. BROCKWAY, E. O. RODGERS, M. W. SULLIVAN, BLENDON COOK, AND J. R. CHIPMAN.  
1947. The nutrition of trout. Cortland Hatchery Rep. 15(1946). N.Y. Conserv. Dep., Fish. Res. Bull. 9. 21 pp.

PHILLIPS, ARTHUR M., JR., AND RICHARD F. DUMAS.  
1959. The chemistry of developing brown trout eyed eggs and sac fry. *Prog. Fish-Cult.* 21(4):161-164.

PHILLIPS, ARTHUR M., JR., AND GLEN L. HAMMER.  
1965. Modified pelleted dry mixtures as complete trout foods for brown trout. Cortland Hatchery Rep. 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:23-28.

PHILLIPS, ARTHUR M., JR., GLEN L. HAMMER, J. P. EDWARDS, AND H. F. HOSKING.  
1964. Dry concentrates as complete trout foods for growth and egg production. *Prog. Fish-Cult.* 26(4):155-159.

PHILLIPS, ARTHUR M., JR., GLEN L. HAMMER, AND EARL A. PYLE.  
1964. Dry concentrates as complete trout foods. *Prog. Fish-Cult.* 26(1):21-24.

PHILLIPS, ARTHUR M., JR., AND GEORGE S. HEWITT.  
1943. Evaluation of salmon flesh and salmon viscera in the diet of chinook salmon fingerlings. *Trans. Am. Fish. Soc.* 73:63-69.

PHILLIPS, ARTHUR M., JR., AND DONALD L. LIVINGSTON.  
1966. The effect of season of the year and fish size on the pyridoxine requirement of brook trout. Cortland Hatchery Rep. 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:15-19.

PHILLIPS, ARTHUR M., JR., DONALD L. LIVINGSTON, AND RICHARD F. DUMAS.  
1960. Effect of starvation and feeding on the chemical composition of brook trout. *Prog. Fish-Cult.* 22(4):147-154.

PHILLIPS, ARTHUR M., JR., DONALD L. LIVINGSTON, AND HUGH A. POSTON.  
1965. Effect of protein and calorie levels and sources on the growth of brown trout. Cortland Hatchery Rep. 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:11-19.

1965. The effect of three supplemental fats on the growth rate and body chemistry of brown trout. Cortland Hatchery Rep. 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:28-34.

PHILLIPS, ARTHUR M., JR., DONALD L. LIVINGSTON, AND HUGH A. POSTON.

1966. The effect of changes in protein quality, calorie sources, and calorie levels upon the growth and chemical composition of brook trout. *Cortland Hatchery Rep.* 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:6-14.

1966. Use of calorie sources by brook trout. *Prog. Fish-Cult.* 28(2):67-72.

PHILLIPS, ARTHUR M., JR., DONALD L. LIVINGSTON, HUGH A. POSTON, AND HENRY A. BOOKE.

1963. The effect of diet mixture and calorie source on growth, mortality, conversion, and chemical composition of brook trout. *Prog. Fish-Cult.* 25(1): 8-14.

PHILLIPS, ARTHUR M., JR., FLOYD E. LOVELACE, DONALD R. BROCKWAY, AND GEORGE C. BALZER, JR.

1953. The nutrition of trout. *Cortland Hatchery Rep.* 21(1952). N.Y. Conserv. Dep., Fish. Res. Bull. 16. 46 pp.

1954. The nutrition of trout. *Cortland Hatchery Rep.* 22(1953). N.Y. Conserv. Dep., Fish. Res. Bull. 17. 31 pp.

PHILLIPS, ARTHUR M., JR., FLOYD E. LOVELACE, HENRY A. PODOLIAK, DONALD R. BROCKWAY, AND GEORGE C. BALZER, JR.

1955. The nutrition of trout. *Cortland Hatchery Rep.* 23(1954). N.Y. Conserv. Dep., Fish. Res. Bull. 18. 52 pp.

1956. The nutrition of trout. *Cortland Hatchery Rep.* 24(1955). N.Y. Conserv. Dep., Fish. Res. Bull. 19. 56 pp.

1957. Excerpt: The vitamin requirement of brown trout. *Prog. Fish-Cult.* 19(2):88.

PHILLIPS, A. M., JR., AND CLIVE M. MCCAY.

1939. Absorption of carbohydrates from the gastrointestinal tract of brook trout, *Salvelinus fontinalis*. *Anat. Rec.* 75 (Suppl.):52. (Abstr.)

1940. The absorption of carbohydrates from the gastro-intestinal tract of brook trout, *Salvelinus fontinalis*. *Anat. Rec.* 78 (Suppl.):42. (Abstr.)

1941. Hemoglobin regeneration in anemic trout fed liver fractions and fly maggots. *Science* 93(2415): 355-356.

PHILLIPS, ARTHUR M., JR., REED S. NIELSEN, AND DONALD R. BROCKWAY.

1954. A comparison of hatchery diets and natural food. *Prog. Fish-Cult.* 16(4):153-157.

PHILLIPS, ARTHUR M., JR., AND HENRY A. PODOLIAK.

1957. The nutrition of trout. III. Fats and minerals. *Prog. Fish-Cult.* 19(2):68-75.

PHILLIPS, ARTHUR M., JR., HENRY A. PODOLIAK, DONALD R. BROCKWAY, AND GEORGE C. BALZER, JR.

1957. The nutrition of trout. *Cortland Hatchery Rep.* 25(1956). N.Y. Conserv. Dep., Fish. Res. Bull. 20. 61 pp.

PHILLIPS, ARTHUR M., JR., HENRY A. PODOLIAK, DONALD R. BROCKWAY, AND RAY R. VAUGHN.

1958. The nutrition of trout. *Cortland Hatchery Rep.* 26(1957). N.Y. Conserv. Dep., Fish. Res. Bull. 21. 93 pp.

PHILLIPS, ARTHUR M., JR., HENRY A. PODOLIAK, RICHARD F. DUMAS, AND ROBERT W. THOESSEN.

1959. The nutrition of trout. *Cortland Hatchery Rep.* 27(1958). N.Y. Conserv. Dep., Fish. Res. Bull. 22. 87 pp.

PHILLIPS, ARTHUR M., JR., HENRY A. PODOLIAK, DONALD L. LIVINGSTON, RICHARD F. DUMAS, AND GLEN L. HAMMER.

1961. The nutrition of trout. *Cortland Hatchery Rep.* 29(1960). N.Y. Conserv. Dep., Fish. Res. Bull. 24. 76 pp.

PHILLIPS, ARTHUR M., JR., HENRY A. PODOLIAK, DONALD L. LIVINGSTON, RICHARD F. DUMAS, AND ROBERT W. THOESSEN.

1960. The nutrition of trout. *Cortland Hatchery Rep.* 28(1959). N.Y. Conserv. Dep., Fish. Res. Bull. 23. 83 pp.

PHILLIPS, ARTHUR M., JR., HENRY A. PODOLIAK, HUGH A. POSTON, DONALD L. LIVINGSTON, HENRY E. BOOKE, AND GLEN L. HAMMER.

1962. The nutrition of trout. *Cortland Hatchery Rep.* 30(1961). N.Y. Conserv. Dep., Fish. Res. Bull. 25. 57 pp.

PHILLIPS, ARTHUR M., JR., HENRY A. PODOLIAK, HUGH A. POSTON, DONALD L. LIVINGSTON, HENRY E. BOOKE, EARL A. PYLE, AND GLEN L. HAMMER.

1963. The nutrition of trout. *Cortland Hatchery Rep.* 31(1962). N.Y. Conserv. Dep., Fish. Res. Bull. 26. 87 pp.

1964. The nutrition of trout. *Cortland Hatchery Rep.* 32(1963). N.Y. Conserv. Dep., Fish. Res. Bull. 27. 111 pp.

PHILLIPS, ARTHUR M., JR., HUGH A. POSTON, AND DONALD L. LIVINGSTON.

1967. Corn gluten meal as an ingredient in the diet of brown trout. *Cortland Hatchery Rep.* 35 (1966). N.Y. Conserv. Dep., Fish. Res. Bull. 30: 55-57.

1967. The effect of calorie sources and water temperature upon trout growth and body chemistry. *Cortland Hatchery Rep.* 35(1966). N.Y. Conserv. Dep., Fish. Res. Bull. 30:25-34.

1969. The effect of amino acid and vitamin supplementation upon the utilization of dietary calories by brook trout. *Cortland Hatchery Rep.* 36(1967). N.Y. Conserv. Dep., Fish. Res. Bull. 31:32-38.

PHILLIPS, ARTHUR M., JR., AND A. V. TUNISON.

1944. The riboflavin and pantothenic acid requirement of brook trout. *Trans. Am. Fish. Soc.* 74:81-87.

PHILLIPS, ARTHUR M., JR., A. V. TUNISON, AND GEORGE C. BALZER.

1963. Trout feeds and feeding. *U.S. Fish Wildl. Serv., Circ.* 159. 38 pp.

PHILLIPS, ARTHUR M., JR., A. V. TUNISON, AND DONALD R. BROCKWAY.

1948. The utilization of carbohydrates by trout. N.Y. Conserv. Dep., Fish. Res. Bull. 11. 44 pp.

PHILLIPS, A. M., A. V. TUNISON, A. H. FENN, C. R. MITCHELL, AND C. M. MCCAY.

1940. The nutrition of trout. *Cortland Hatchery Rep.* 9(1940). N.Y. Conserv. Dep. 32 pp.

PHILLIPS, A. M., A. V. TUNISON, H. B. SHAFFER, G. K. WHITE, M. W. SULLIVAN, C. VINCENT, D. R. BROCKWAY, AND C. M. MCCAY.

1946. The nutrition of trout. *Cortland Hatchery Rep.* 14(1945). N.Y. Conserv. Dep., Fish. Res. Bull. 8. 31 pp.

PODOLIAK, HENRY A.

1961. Relation between water temperature and metabolism of dietary phosphorus by fingerling brook trout. *Trans. Am. Fish. Soc.* 90(4):398-403.

1965. Some effects of stress on the osmotic tolerance of fingerling brown trout. *Cortland Hatchery Rep.* 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:71-78.

1969. Absorption of dissolved strontium by rainbow trout. *Cortland Hatchery Rep.* 36(1967). N.Y. Conserv. Dep., Fish. Res. Bull. 31:50-70.

1971. Effects of some major and heavy metal cations on the absorption and exchange by brown trout of calcium from water. *Cortland Hatchery Rep.* 38(1969). N.Y. Conserv. Dep., Fish. Res. Bull. 33:56-66.

PODOLIAK, HENRY A., AND HARRY K. HOLDEN, JR.

1965. Calcium absorption by developing brown trout fry. *Cortland Hatchery Rep.* 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:59-64.

1965. Distribution of dietary calcium to the skeleton and skin of fingerling brown trout. *Cortland Hatchery Rep.* 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:64-70.

1966. Acclimation of rainbow trout to temperature and mineral stresses in their environment. *Cortland Hatchery Rep.* 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:53-58.

1966. Calcium ion regulation by fingerling brook, brown, and rainbow trout. *Cortland Hatchery Rep.* 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:59-65.

1966. Storage of dietary calcium in the skin and skeleton of rainbow trout. *Cortland Hatchery Rep.* 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:66-71.

PODOLIAK, HENRY A., AND J. HOWARD McCORMICK.

1967. Absorption of dissolved strontium by brook trout. *Cortland Hatchery Rep.* 35(1966). N.Y. Conserv. Dep., Fish. Res. Bull. 30:5-13.

1967. Distribution of dietary phosphate to the acid soluble fraction of the muscle and viscera of brook trout. *Cortland Hatchery Rep.* 35(1966). N.Y. Conserv. Dep., Fish. Res. Bull. 30:14-24.

PODOLIAK, HENRY A., AND ALPHONSE S. SMIGIELSKI.

1971. Metabolism of dietary phosphate by brown and rainbow trout. *Cortland Hatchery Rep.* 38 (1969). N.Y. Conserv. Dep., Fish. Res. Bull. 33: 43-55.

PODOLIAK, HENRY A., AND R. C. WILLIAMS.

1971. Effects of heavy metal ions on the absorption of dissolved calcium by brown trout. *Cortland Hatchery Rep.* 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34:53-65.

POSTON, HUGH A.

1964. Effect of dietary vitamin K and sulfaguanidine on blood coagulation time, microhematocrit, and growth of immature brook trout. *Prog. Fish-Cult.* 26(2):59-64.

1965. Effect of a dietary progestational compound on blood properties, chemical composition, and growth of immature brook trout. *Prog. Fish-Cult.* 27(2): 95-98.

1965. Effect of dietary vitamin E on microhematocrit, mortality, and growth of immature brown trout. *Cortland Hatchery Rep.* 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:6-10.

1965. Effect of protein and calorie sources on blood serum proteins of immature brown trout. *Cortland Hatchery Rep.* 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:19-23.

1966. Effect of sex and reproductive stage on the hemoglobin levels in brown trout. *Cortland Hatchery Rep.* 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:28-29.

1966. Effect of water temperature on levels of serum components of brown trout. *Cortland Hatchery Rep.* 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29: 25-27.

1967. Effect of dietary L-ascorbic acid on immature brook trout. *Cortland Hatchery Rep.* 35(1966). N.Y. Conserv. Dep., Fish. Res. Bull. 30:46-51.

1969. Correlation of fatty acid composition of diets and livers of brown trout fingerlings. *Cortland Hatchery Rep.* 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:51-62.

1969. Effect of formalin on the level of dietary ascorbic acid and on brook trout development. *Cortland Hatchery Rep.* 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:44-47.

1969. Effects of exposure of brown trout eggs to a low concentration of estrogenic steroid hormone. *Cortland Hatchery Rep.* 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:63-64.

1969. Effects of massive doses of vitamin D<sub>3</sub> on fingerling brook trout. *Cortland Hatchery Rep.* 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:48-50.

1969. The conversion of beta-carotene to vitamin A by fingerling brook trout. *Cortland Hatchery Rep.* 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:41-43.

1969. The effect of excess levels of niacin on the lipid metabolism of fingerling brook trout. *Cortland Hatchery Rep.* 36(1967). N.Y. Conserv. Dep., Fish. Res. Bull. 31:9-12.

1969. The role of dietary tocopherol and cod-liver oil in a synthetic vitamin A test diet for brook trout. *Cortland Hatchery Rep.* 36(1967). N.Y. Conserv. Dep., Fish. Res. Bull. 31:39-43.

1971. A comparison of the seasonal blood serum protein electrophoretic patterns of brook trout serum proteins. *Cortland Hatchery Rep.* 39(1970).

POSTON, HUGH A.  
N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34: 66-77.

1971. Effect of excess vitamin K on the growth, coagulation time, and hematocrit values of brook trout fingerlings. Cortland Hatchery Rep. 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34: 41-42.

1971. Effect of feeding excess supplemental vitamin A on the carbohydrate and lipid metabolism and growth of brook trout. Cortland Hatchery Rep. 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34:22-26.

1971. The effect of continuous darkness and continuous light on the electrophoretic patterns of brook trout serum proteins. Cortland Hatchery Rep. 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34:81-89.

POSTON, HUGH A., AND DONALD L. LIVINGSTON.  
1971. Effect of essential fatty acids and hydrogenation of safflower oil on the lipid and carbohydrate metabolism of brook trout. Cortland Hatchery Rep. 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34:7-17.

1971. Effect of essential fatty acids on the liver lipid metabolism of brook trout fingerlings. Cortland Hatchery Rep. 38(1969). N.Y. Conserv. Dep., Fish. Res. Bull. 33:35-42.

1971. Effects of massive doses of dietary vitamin E on fingerling brook trout. Cortland Hatchery Rep. 38(1969). N.Y. Conserv. Dep., Fish. Res. Bull. 33:9-12.

1971. Effects of supplemental dietary hard and soft fats of plant and animal origin on body growth and level and iodine value of body fat of brook trout fingerlings. Cortland Hatchery Rep. 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34: 35-40.

1971. The effect of continuous darkness and continuous light on the functional sexual maturity of brook trout during their second reproductive cycle. Cortland Hatchery Rep. 38(1969). N.Y. Conserv. Dep., Fish. Res. Bull. 33:25-29.

1971. The effect of supplemental choline, niacin, methionine, and tryptophan, and water temperature, on the lipid metabolism of brown trout. Cortland Hatchery Rep. 38(1969). N.Y. Conserv. Dep., Fish. Res. Bull. 33:13-24.

1971. The influence of dietary levels of protein and vitamin A on the liver vitamin A level, lipid metabolism, and growth of brook trout. Cortland Hatchery Rep. 39(1970). N.Y. Dep. Environ. Conserv., Fish. Res. Bull. 34:27-34.

POSTON, HUGH A., DONALD L. LIVINGSTON, AND ARTHUR M. PHILLIPS, JR.  
1969. The effect of source of dietary fat, calorie ratio, and water temperature on growth and chemical composition of brown trout. Cortland Hatchery Rep. 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:14-21.

1969. The effect of supplemental choline and methionine upon the utilization of fat by brown trout. Cortland Hatchery Rep. 37(1968). N.Y. Conserv. Dep., Fish. Res. Bull. 32:22-25.

POSTON, HUGH A., DONALD L. LIVINGSTON, EARL A. PYLE, AND ARTHUR M. PHILLIPS, JR.  
1966. The toxicity of high levels of vitamin A in the diet of brook trout. Cortland Hatchery Rep. 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:20-24.

POSTON, HUGH A., THOMAS H. McCARTNEY, AND EARL A. PYLE.  
1969. The effect of physical conditioning upon the growth, stamina, and carbohydrate metabolism of brook trout. Cortland Hatchery Rep. 36(1967). N.Y. Conserv. Dep., Fish. Res. Bull. 31:25-27.

PILE, EARL A.  
1960. Neutralizing chlorine in city water for use in fish-distribution tanks. Prog. Fish-Cult. 22(1): 30-33.

1964. The effect of grading on the total weight gained by brown trout. Prog. Fish-Cult. 26(2): 70-75.

1965. A comparison of *Gammarus* and a meat-meal mixture as diets for brook trout during a 16-week experimental period. Cortland Hatchery Rep. 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:44-48.

1965. Comparative tests of three types of vinyl tags on growth and swimming performance of brook trout within a hatchery. Cortland Hatchery Rep. 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:48-52.

1965. Construction of a stamina testing apparatus. Cortland Hatchery Rep. 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:52-55.

1965. Maintenance of relative swimming ability among brook trout grouped by initial swimming performance. Cortland Hatchery Rep. 33(1964). N.Y. Conserv. Dep., Fish. Res. Bull. 28:55-59.

1966. A 42-week study on the growth in length of brook trout. Cortland Hatchery Rep. 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:34-39.

1966. A rotating, annular trough for exercising trout. Cortland Hatchery Rep. 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:76-77.

1966. Growth rates of large and small brook trout from a graded population. Cortland Hatchery Rep. 34(1965). N.Y. Conserv. Dep., Fish. Res. Bull. 29:30-33.

1966. The effect of grading on the total weight gained by three species of trout. Prog. Fish-Cult. 28(1):29-32.

1967. The effect of enforced exercise upon the growth and chemical composition of fingerling brook trout. Cortland Hatchery Rep. 35(1966). N.Y. Conserv. Dep., Fish. Res. Bull. 30:52-54.

1969. The effect of constant light or constant darkness on the growth and sexual maturity of brook trout. Cortland Hatchery Rep. 36(1967). N.Y. Conserv. Dep., Fish. Res. Bull. 31:13-19.

PYLE, EARL A., GLEN HAMMER, AND ARTHUR M. PHILLIPS, JR., 1961. The effect of grading on the total weight gained by brook trout. *Prog. Fish-Cult.* 23(4): 162-168.

RODGERS, ERNEST O. 1949. A drop center raceway. *Prog. Fish-Cult.* 11(3): 189-190.

1949. Dietary observations on brown trout fingerlings. *Prog. Fish-Cult.* 11(2):130-132.

1949. Neutralizing chlorine in trout display tanks. *Prog. Fish-Cult.* 11(1):82-83.

RODGERS, E. O., B. H. HAZEN, S. B. FRIDDLE, AND S. F. SNIESZKO. 1951. The toxicity of pyridylmercuric acetate technical (PMA) to rainbow trout (*Salmo gairdnerii*). *Prog. Fish-Cult.* 13(2):71-73.

RUMSEY, G. L. 1972. The new fish industry in the United States. Page 9 in 1972 Cornell Nutrition Conference for Feed Manufacturers, Buffalo, New York.

TUNISON, A. V. 1936. Tables applicable to hatchery operations. *Fish Cult.* (N.Y. Conserv. Dep.) 2(5):6-16.

1940. The protein requirement of trout. *Prog. Fish-Cult.* No. 50:29-32.

TUNISON, A. V., D. R. BROCKWAY, J. M. MAXWELL, A. L. DORR, AND C. M. McCAY. 1942. The nutrition of trout. *Cortland Hatchery Rep.* 11(1942). N.Y. Conserv. Dep., Fish. Res. Bull. 4. 52 pp.

1947. Coloration of fish. *Prog. Fish-Cult.* 9(1):53-60.

TUNISON, A. V., D. R. BROCKWAY, H. B. SHAFFER, J. M. MAXWELL, C. M. McCAY, C. E. PALM, AND D. A. WEBSTER. 1943. The nutrition of trout. *Cortland Hatchery Rep.* 12(1943). N.Y. Conserv. Dep., Fish. Res. Bull. 5. 26 pp.

TUNISON, A. V., AND C. M. McCAY. 1933. The nutritional requirements of brook trout. *Trans. Am. Fish. Soc.* 63:167-177.

TUNISON, A. V., C. M. McCAY, A. M. PHILLIPS, E. O. RODGERS, AND E. W. FENTRESS. 1937. The nutrition of trout. *Cortland Hatchery Rep.* 6(1937). N.Y. Conserv. Dep. 24 pp.

TUNISON, A. V., A. M. PHILLIPS, D. R. BROCKWAY, A. L. DORR, C. R. MITCHELL, AND C. M. McCAY. 1941. The nutrition of trout. *Cortland Hatchery Rep.* 10(1941). N.Y. Conserv. Dep., Fish. Res. Bull. 1. 20 pp.

TUNISON, A. V., A. M. PHILLIPS, C. M. McCAY, C. R. MITCHELL, AND E. O. RODGERS. 1939. The nutrition of trout. *Cortland Hatchery Rep.* 8(1939). N.Y. Conserv. Dep. 33 pp.

TUNISON, A. V., A. M. PHILLIPS, C. M. McCAY, E. O. RODGERS, AND E. W. FENTRESS. 1938. Certain physical and chemical characteristics of the lake, Loch Leven, rainbow, and brook trout. *Trans. Am. Fish. Soc.* 68:316-321.

TUNISON, A. V., A. M. PHILLIPS, E. O. RODGERS, C. R. MITCHELL, AND C. M. McCAY. 1938. The nutrition of trout. *Cortland Hatchery Rep.* 7(1938). N.Y. Conserv. Dep. 23 pp.

TUNISON, A. V., A. M. PHILLIPS, H. B. SHAFFER, J. M. MAXWELL, D. R. BROCKWAY, AND C. M. McCAY. 1944. The nutrition of trout. *Cortland Hatchery Rep.* 13(1944). N.Y. Conserv. Dep., Fish. Res. Bull. 6. 21 pp.

**WESTERN FISH NUTRITION LABORATORY**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Cook, Washington 98605**

The Western Fish Nutrition Laboratory was built in 1953 for two purposes: (1) to determine basic nutritional requirements of fish—their needs for vitamins, proteins and amino acids, essential fats, carbohydrate sources, and minerals in the diet and the environment—and (2) to define the specific role of each of these nutrients in fish physiology and metabolism. After qualitative requirements for constituents of these five named classes of nutrients were described, quantitative needs for each were investigated with respect to species, size, and state of development of fish. The comprehensive research program was organized into three major areas of study: (1) basic nutritional requirements; (2) physiological function of nutrients; and (3) diet development, availability, and utilization.

Work at the Laboratory is complemented by research at two field stations—one at Hagerman, Idaho, for large-scale testing of nutrients and diets, and another at Port Townsend, Washington, for the study of conditioning of salmon for conversion from fresh water to salt water.

Research was first focused on test diets and test experimental facilities and conditions that would give scientists positive control over the particular nutrient to be tested. Application of results from extensive testing and development yielded breakthroughs in the fields of vitamin, amino acid, protein, and carbohydrate nutrient requirements for salmon and trout.

Dividends from this research formed the foundation for the modern fish diet industry and revolutionized fish husbandry techniques. Additionally, basic biological understanding of life systems was advanced in such areas as the mechanisms for tissue synthesis and wound repair, respiration and permeability of cell membranes, basic mechanisms in blood clotting and clot lysis, and chemical carcinogenesis and the role of mycotoxins in neoplasia.

**ASHLEY, LAURENCE M.**

1962. Fish disease pathology. *Proc. Int. Conf. Wildl. Dis. (Wildl. Dis. Assoc.)* 1:306-348. (Microcard)

1967. Histopathology of rainbow trout aflatoxicosis. Pages 103-120 in John E. Halver and Ian A. Mitchell, ed. *Trout hepatoma research conference papers*. U.S. Bur. Sport Fish. Wildl., Res. Rep. 70.

1969. Experimental fish neoplasia. Pages 23-43 in Otto W. Neuhaus and John E. Halver, eds. *Fish in research*. Academic Press, New York.

1970. Action of iron salts in solution on goldfish. *Prog. Fish-Cult.* 32(2):109.

1970. Pathology of fish fed aflatoxins and other antimetabolites. Pages 366-379 in Stanislas F. Snieszko, ed. *A symposium on diseases of fishes and shellfishes*. Am. Fish. Soc., Spec. Publ. 5.

1972. Nutritional pathology. Pages 439-537 in John E. Halver, ed. *Fish nutrition*. Academic Press, New York.

**ASHLEY, LAURENCE M., AND JOHN E. HALVER.**

1961. Hepatomagenesis in rainbow trout. *Fed. Proc.* 20(1):290. (Abstr.)

1963. Multiple metastasis of rainbow trout hepatoma. *Trans. Am. Fish. Soc.* 92(4):365-371.

1968. Dimethylnitrosamine-induced hepatic cell carcinoma in rainbow trout. *J. Natl. Cancer Inst.* 41(2):531-552.

**ASHLEY, L. M., J. E. HALVER, W. K. GARDNER, JR., AND G. N. WOGAN.**

1965. Crystalline aflatoxins cause trout hepatoma. *Fed. Proc.* 24(2):627. (Abstr.)

**ASHLEY, LAURENCE M., JOHN E. HALVER, AND CLARENCE L. JOHNSON.**

1962. Histopathology of induced trout hepatoma. *Fed. Proc.* 21(2):304. (Abstr.)

**ASHLEY, L. M., J. E. HALVER, AND S. R. WELLINGS.**

1969. Case reports of three teleost neoplasms. *Natl. Cancer Inst. Monogr.* 31:157-165.

ASHLEY, LAURENCE M., JOHN E. HALVER, AND GERALD N. WOGAN.  
 1964. Hepatoma and aflatoxicosis in trout. *Fed. Proc.* 23(2):105. (Abstr.)

ASHLEY, LAURENCE M., AND CHARLIE E. SMITH.  
 1963. Advantages of tissue imprints over tissue sections in studies of blood cell formation. *Prog. Fish-Cult.* 25(2):93-96.

BAILEY, GEORGE S., ALLAN C. WILSON, JOHN E. HALVER, AND CLARENCE L. JOHNSON.  
 1970. Multiple forms of supernatant malate dehydrogenase in salmonid fishes. *J. Biol. Chem.* 245 (22):5927-5940.

BENVILLE, PETE E., JR., CHARLIE E. SMITH, AND WARREN E. SHANKS.  
 1968. Some toxic effects of dimethyl sulfoxide in salmon and trout. *Toxicol. Appl. Pharmacol.* 12(2): 156-178.

BRIN, MYRON, CHARLES E. SMITH, AND JOHN E. HALVER.  
 1967. Tissue transaminases and hematology in B<sub>6</sub>-deficient rainbow trout. *Fed. Proc.* 26(2):414. (Abstr.)

BUHLER, DONALD R.  
 1963. Studies on fish hemoglobin: chinook salmon and rainbow trout. *J. Biol. Chem.* 238(5):1665-1674.  
 1966. Hepatic drug metabolism in fishes. *Fed. Proc.* 25(2):343. (Abstr.)

BUHLER, DONALD R., AND JOHN E. HALVER.  
 1961. Nutrition of salmonoid fishes. IX. Carbohydrate requirements of chinook salmon. *J. Nutr.* 74(3):307-318.

CHANCE, R. E., J. E. HALVER, AND E. T. MERTZ.  
 1960. Isoleucine, leucine, phenylalanine and valine requirements of chinook salmon. *Fed. Proc.* 19(1): 11. (Abstr.)

CHANCE, R. E., E. T. MERTZ, AND J. E. HALVER.  
 1964. Nutrition of salmonoid fishes. XII. Isoleucine, valine and phenylalanine requirements of chinook salmon and interrelations between isoleucine and leucine for growth. *J. Nutr.* 83(3):177-185.

COATES, JOHN A., AND JOHN E. HALVER.  
 1958. Water-soluble vitamin requirements of silver salmon. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 281. 9 pp.

COATES, JOHN A., AND A. NEAL WOODALL.  
 1953. A salmon research laboratory. *Prog. Fish-Cult.* 15(2):78-79.

CROSTON, C. BRADFORD.  
 1960. Tryptic enzymes of chinook salmon. *Arch. Biochem. Biophys.* 89(2):202-206.  
 1964. Differences among groups of salmon in the blood serum level of alkaline phosphatase. *Trans. Am. Fish. Soc.* 93(1):95-96.  
 1965. Endopeptidases of salmon ceca: chromatographic separation and some properties. *Arch. Biochem. Biophys.* 112(2):218-223.

CROSTON, C. BRADFORD, AND JOHN E. HALVER.  
 1961. Salmon endopeptidases found different from mammalian enzymes. *Fed. Proc.* 20(1):241. (Abstr.)

DELONG, DONALD C., JOHN E. HALVER, AND EDWIN T. MERTZ.  
 1956. Classification of essential amino acids for chinook salmon. *Fed. Proc.* 15(1):548. (Abstr.)  
 1957. Protein requirements of chinook salmon at two water temperatures. *Fed. Proc.* 16(1):384. (Abstr.)  
 1958. Nutrition of salmonoid fishes. VI. Protein requirements of chinook salmon at two water temperatures. *J. Nutr.* 65(4):589-599.  
 1959. Nutrition of salmonoid fishes. VII. Nitrogen supplements for chinook salmon diets. *J. Nutr.* 68(4):663-669.  
 1962. Nutrition of salmonoid fishes. X. Quantitative threonine requirements of chinook salmon at two water temperatures. *J. Nutr.* 76(2):174-178.

DELONG, D. C., J. E. HALVER, AND W. T. YASUTAKE.  
 1958. A possible cause of "sunburn" in fish. *Prog. Fish-Cult.* 20(3):111-113.

GAHIMER, G. D., A. R. ANDERSON, AND C. L. JOHNSON.  
 1971. Inexpensive experimental aquariums. *Prog. Fish-Cult.* 33(4):242.

HALVER, JOHN E.  
 1953. Fish diseases and nutrition. *Trans. Am. Fish. Soc.* 83:254-261.  
 1956. An amino acid test diet for salmon. *Fed. Proc.* 15(1):554. (Abstr.)  
 1956. Water-soluble vitamin requirements of chinook salmon. *Fed. Proc.* 15(1):554. (Abstr.)  
 1957. Nutrition of salmonoid fishes. III. Water-soluble vitamin requirements of chinook salmon. *J. Nutr.* 62(2):225-243.  
 1957. Nutrition of salmonoid fishes. IV. An amino acid test diet for chinook salmon. *J. Nutr.* 62(2): 245-254.  
 1960. Vitamin and amino acid requirements of salmon. *Int. Congr. Nutr.* 5:191. (Abstr.)  
 1965. Aflatoxicosis and rainbow trout hepatoma. Pages 209-234 in Gerald N. Wogan, ed. *Mycotoxins in foodstuffs*. M.I.T. Press, Cambridge, Mass.  
 1965. Hepatomas in fish. Pages 103-112 in Walter J. Burdette, ed. *Primary hepatoma*. Univ. Utah Press, Salt Lake City.  
 1965. Tryptophan requirements of chinook, sockeye and silver salmon. *Fed. Proc.* 24(2):169. (Abstr.)  
 1966. Adventitious toxins and tumors in fishes. Symposium, *Biological oncogenic factors for wildlife*. *Bull. Wildl. Dis. Assoc.* 2(3):unnumbered p. (Abstr.)  
 1966. Vitamin and amino acid requirements of Pacific salmon (*Oncorhynchus*). EIFAC [Eur. Inland Fish. Advis. Comm.] 66:SCII-3.  
 1967. Crystalline aflatoxin and other vectors for trout hepatoma. Pages 78-102 in John E. Halver and Ian A. Mitchell, eds. *Trout hepatoma research conference papers*. U.S. Bur. Sport Fish. Wildl., Res. Rep. 70.  
 1968. Aflatoxicosis and trout hepatoma. *Bull. Off. Int. Epizoot.* 69:1249-1278.

HALVER, JOHN E.

1969. Aflatoxicosis and trout hepatoma. Pages 265-306 in Leo A. Goldblatt, ed. *Aflatoxin*. Academic Press, New York.

1969. Vitamin requirements. Pages 209-232 in Otto W. Neuhaus and John E. Halver, eds. *Fish in research*. Academic Press, New York.

1970. Nutrition in marine aquaculture. Pages 75-102 in W. J. McNeil, ed. *Marine aquaculture*. Oregon State University Press, Corvallis.

1972. Priorities in fish nutrition research. Pages 141-144 in Remedios W. Moore, ed. *Progress in fishery and food science*. Univ. Wash. Publ. Fish., N.S., Vol. 5.

1972. The role of ascorbic acid in fish disease and tissue repair. *Bull. Jap. Soc. Sci. Fish.* 38:79-92.

1972. The vitamins. Pages 29-103 in John E. Halver, ed. *Fish nutrition*. Academic Press, New York.

HALVER, JOHN E., editor.

1972. *Fish nutrition*. Academic Press, New York. 726 pp.

HALVER, J. E., L. M. ASHLEY, C. E. SMITH, AND G. N. WOGAN.

1967. Early acute aflatoxicosis stimulates rainbow trout hepatomagenesis. *Toxicol. Appl. Pharmacol.* 10(2):398. (Abstr.)

HALVER, JOHN E., LAURENCE M. ASHLEY, AND ROBERT R. SMITH.

1969. Aflatoxicosis in coho salmon. *Natl. Cancer Inst. Monogr.* 31:141-155.

1969. Ascorbic acid requirements of coho salmon and rainbow trout. *Trans. Am. Fish. Soc.* 98(4):762-771.

HALVER, J. E., L. M. ASHLEY, R. R. SMITH, AND G. N. WOGAN.

1968. Age and sensitivity of trout to aflatoxin B<sub>1</sub>. *Fed. Proc.* 27(2):552. (Abstr.)

HALVER, JOHN E., LAURENCE M. ASHLEY, AND GERALD N. WOGAN.

1966. Acute and chronic aflatoxicosis in fish. *Int. Congr. Nutr.* 7:103-104. (Abstr.)

1966. Acute aflatoxicosis in rainbow trout and coho salmon. *Fed. Proc.* 25(2):662. (Abstr.)

HALVER, JOHN E., LYNN S. BATES, AND EDWIN T. MERTZ.

1964. Protein requirements for sockeye salmon and rainbow trout. *Fed. Proc.* 23(2):397. (Abstr.)

HALVER, J. E., AND J. A. COATES.

1957. A vitamin test diet for long-term feeding studies. *Prog. Fish-Cult.* 19(3):112-118.

HALVER, JOHN E., DONALD C. DELONG, AND EDWIN T. MERTZ.

1957. Nutrition of salmonoid fishes. V. Classification of essential amino acids for chinook salmon. *J. Nutr.* 63(1):95-105.

1958. Threonine and lysine requirements of chinook salmon. *Fed. Proc.* 17(1):478. (Abstr.)

1959. Methionine and cystine requirements of chinook salmon. *Fed. Proc.* 18(1):527. (Abstr.)

HALVER, J. E., C. L. JOHNSON, AND L. M. ASHLEY.

1962. Dietary carcinogens induce fish hepatoma. *Fed. Proc.* 21(2):390. (Abstr.)

HALVER, J. E., C. L. JOHNSON, R. R. SMITH, B. M. TOLBERT, AND E. M. BAKER.

1972. Vitamin C<sub>3</sub> reduces fish scurvy. *Fed. Proc.* 31(2):705. (Abstr.)

HALVER, J. E., R. G. KLEIN, E. T. MERTZ, AND W. M. BEESON.

1969. Arginine and histidine requirements of coho salmon. *Fed. Proc.* 28(2):302. (Abstr.)

HALVER, JOHN E., GILLES LAROCHE, AND LAURENCE M. ASHLEY.

1963. Experimental hepatocellular carcinoma in rainbow trout. *Proc. Int. Congr. Nutr.* 6:603. (Abstr.)

HALVER, JOHN E., AND IAN A. MITCHELL, editors.

1967. Trout hepatoma research conference papers. U.S. Bur. Sport Fish. Wildl., Res. Rep. 70. 199 pp.

HALVER, JOHN E., AND WARREN E. SHANKS.

1960. Nutrition of salmonoid fishes. VIII. Indispensable amino acids for sockeye salmon. *J. Nutr.* 72(3):340-346.

HESSE, E. F.

1960. Methods for routine fish hematology. *Prog. Fish-Cult.* 22(4):164-171.

JENSEN, ALVIN LEE.

1961. Glassware rinser. *Chem. Anal.* 50(3):85.

1961. Methods for lipid analysis, an annotated bibliography. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 376. 76 pp.

JOHNSON, C. L., D. C. HAMMER, J. E. HALVER, AND E. M. BAKER.

1971. Urinary metabolites of ascorbate in the rainbow trout. *Fed. Proc.* 30(2):521. (Abstr.)

KLEIN, RICHARD G., AND JOHN E. HALVER.

1970. Nutrition of salmonoid fishes. XIV. Arginine and histidine requirements of chinook and coho salmon. *J. Nutr.* 100(9):1105-1110.

LAROCHE, GILLES, J. E. HALVER, C. L. JOHNSON, AND L. M. ASHLEY.

1962. Hepatoma inducing agents in trout diet. *Fed. Proc.* 21(2):300. (Abstr.)

LAROCHE, GILLES, C. L. JOHNSON, L. L. ROSENBERG, AND A. N. WOODALL.

1962. Thyroid iodine metabolism in young salmonids. *Am. Zool.* 2(3):422. (Abstr.)

LAROCHE, GILLES, C. L. JOHNSON, AND A. N. WOODALL.

1965. Partial radiothyroidectomy in young chinook salmon. *Fed. Proc.* 24(2):255. (Abstr.)

1965. Thyroid function in the rainbow trout (*Salmo gairdneri*, Rich.). I. Biochemical and histological evidence of radiothyroidectomy. *Gen. Comp. Endocrinol.* 5(2):145-159.

1966. Iodine metabolism in young chinook salmon (*Oncorhynchus tshawytscha*, Walbaum). I. Thyroidal impairment with the use of <sup>131</sup>I. *Gen. Comp. Endocrinol.* 7(3):512-524.

LAROCHE, GILLES, C. L. JOHNSON, A. N. WOODALL, AND L. L. ROSENBERG.

1963. Iodine metabolism in adult king salmon. *Proc. Int. Congr. Zool.* 16(2):154. (Abstr.)

LAROCHE, GILLES, A. N. WOODALL, C. L. JOHNSON, AND J. E. HALVER.

1966. Thyroid function in the rainbow trout (*Salmo gairdneri*, Rich.). II. Effects of thyroidectomy on the development of young fish. *Gen. Comp. Endocrinol.* 6(2):249-266.

LOTLIKAR, PRABHAKAR D., ELIZABETH C. MILLER, JAMES A. MILLER, AND JOHN E. HALVER.

1967. Metabolism of the carcinogen 2-acetylaminofluorene by rainbow trout. *Proc. Soc. Exp. Biol. Med.* 124(1):160-163.

MILNE, H. BAYARD, JOHN E. HALVER, DON SO HO, AND MICHAEL S. MASON.

1957. The oxidative cleavage of phenylhydrazide groups from carboxyloxy-alpha-amino acid phenylhydrazides and carboxyloxydipeptide phenylhydrazides. *J. Am. Chem. Soc.* 79(3):637-639.

NEUHAUS, OTTO W., AND JOHN E. HALVER, editors.

1969. Fish in research. Academic Press, New York. 311 pp.

NICOLAIDES, N., AND FRITZ LAVES.

1958. The determination of *cis-trans* isomerism by length measurements of molecules in urea or thiourea adducts. *J. Am. Chem. Soc.* 80(21):5752-5756.

NICOLAIDES, NICHOLAS, AND A. N. WOODALL.

1962. Impaired pigmentation in chinook salmon fed diets deficient in essential fatty acids. *J. Nutr.* 78(4):431-437.

OLIVEREAU, MADELINE, GILLES LAROCHE, AND A. N. WOODALL.

1964. Modifications cytologiques de l'hypophyse de la truite à la suite d'une carence en iodé et d'une radiothyroidectomie. *Ann. Endocrinol.* 25(5):481-490.

OSHIMA, KIYOSHI, CLARENCE L. JOHNSON, AND AUBREY GORBMAN.

1972. Relations between prolonged hypothyroidism and electroneurophysiological events in trout, *Salmo gairdnerii*: effects of replacement dosages of thyroxine. Pages 529-541 in William S. Hoar and Howard A. Bern, eds. Progress in comparative endocrinology (Proc. 6th Int. Symp. Comp. Endocrinol.). *Gen. Comp. Endocrinol.* 1972, Suppl. 3.

POST, GEORGE, W. E. SHANKS, AND ROBERT R. SMITH.

1965. A method for collecting metabolic excretions from fish. *Prog. Fish-Cult.* 27(2):108-111.

RIDGWAY, GEORGE J.

1956. Some cytological observations on fish erythrocytes. *Prog. Fish-Cult.* 18(2):67-69.

SADDLER, JAMES BRYAN, AND LAURENCE MARVIN ASHLEY.

1960. Comparative histology of pyloric caeca of certain teleost fish. *Walla Walla Coll. Publ.* 27. 23 pp.

SHANKS, WARREN E., GEORGE D. GAHIMER, AND JOHN E. HALVER.

1962. The indispensable amino acids for rainbow trout. *Prog. Fish-Cult.* 24(2):68-73.

SHANKS, W. E., AND J. E. HALVER.

1960. Indispensable amino acids for sockeye salmon and rainbow trout. *Fed. Proc.* 19(1):11. (Abstr.)

1960. Rapid analysis of the amino acid content of fish diets. *Prog. Fish-Cult.* 22(2):51-58.

SHATTON, JENNIE B., JOHN E. HALVER, AND SIDNEY WEINHOUSE.

1971. Glucose (hexose 6-phosphate) dehydrogenase in liver of rainbow trout. *J. Biol. Chem.* 246(15):4878-4885.

SMITH, CHARLIE E.

1968. Hematological changes in coho salmon fed a folic acid deficient diet. *J. Fish. Res. Board Can.* 25(1):151-156.

SMITH, CHARLIE E., AND JOHN E. HALVER.

1969. Folic acid anemia in coho salmon. *J. Fish. Res. Board Can.* 26(1):111-114.

SMITH, C. E., L. R. McLAIN, AND W. S. ZAUGG.

1971. Phenylhydrazine-induced anemia in chinook salmon. *Toxicol. Appl. Pharmacol.* 20(1):73-81.

SMITH, R. R.

1971. A method for measuring digestibility and metabolizable energy of fish feeds. *Prog. Fish-Cult.* 33(3):132-134.

SNODGRASS, P. J., AND J. E. HALVER.

1971. Potassium, sodium, magnesium and calcium contents of chinook salmon tissues during various stages of the life cycle. *Comp. Biochem. Physiol.* 38(1A):99-119.

VON SALLMANN, LUDWIG, JOHN E. HALVER, ELEANOR COLLINS, AND PATRICIA GRIMES.

1966. Thioacetamide-induced cataract with invasive proliferation of the lens epithelium in rainbow trout. *Cancer Res.* 26(Part 1):1819-1825.

WELLINGS, S. R., L. M. ASHLEY, AND G. E. MCARN.

1969. Microsporidial infection of English sole, *Parophrys vetulus*. *J. Fish. Res. Board Can.* 26(8):2215-2217.

WOOD, EDWARD M.

1953. A century of American fish culture, 1853-1953. *Prog. Fish-Cult.* 15(4):147-162.

1956. Urethane as a carcinogen. *Prog. Fish-Cult.* 18(3):135-136.

WOOD, E. M., S. F. SNIESZKO, AND W. T. YASUTAKE.

1955. Infectious pancreatic necrosis in brook trout. *Arch. Pathol.* 60(1):26-28.

WOOD, E. M., AND W. T. YASUTAKE.

1955. Histopathology of fish. I. Techniques and principles. *Prog. Fish-Cult.* 17(4):166-171.

1956. Ceroid in fish. *Am. J. Pathol.* 32(3):591-603.

1956. Histopathologic changes of a virus-like disease of sockeye salmon. *Trans. Am. Microsc. Soc.* 75(1):85-90.

1956. Histopathology of fish. II. The salmon-poisoning fluke. *Prog. Fish-Cult.* 18(1):22-25.

1956. Histopathology of fish. III. Peduncle ("cold-water") disease. *Prog. Fish-Cult.* 18(2):58-61.

1956. Histopathology of fish. IV. A granuloma of brook trout. *Prog. Fish-Cult.* 18(3):108-112.

1956. Histopathology of kidney disease in fish. *Am. J. Pathol.* 32(4):845-857.

1956. Tissue damage in salmonids caused by *Halisidota argentata* Packard. *J. Parasitol.* 42(5):544-546.

WOOD, E. M., AND W. T. YASUTAKE.  
 1957. Histopathology of fish. V. Gill disease. *Prog. Fish-Cult.* 19(1):7-13.

WOOD, E. M., W. T. YASUTAKE, J. E. HALVER, AND A. N. WOODALL.  
 1960. Chemical and histological studies of wild and hatchery salmon in fresh water. *Trans. Am. Fish. Soc.* 89(3):301-307.

WOOD, E. M., W. T. YASUTAKE, AND HARLAN E. JOHNSON.  
 1957. Acute sulfamethazine toxicity in young salmon. *Prog. Fish-Cult.* 19(2):64-67.

WOOD, E. M., W. T. YASUTAKE, AND W. L. LEHMAN.  
 1955. A mycosis-like granuloma of fish. *J. Infect. Dis.* 97:262-267.

WOOD, E. M., W. T. YASUTAKE, AND S. F. SNIESKO.  
 1954. Sulfonamide toxicity in brook trout. *Trans. Am. Fish. Soc.* 84:155-160.

WOOD, E. M., W. T. YASUTAKE, A. N. WOODALL, AND J. E. HALVER.  
 1957. Nutrition of salmonoid fishes. I. Chemical and histological studies of wild and domestic fish. *J. Nutr.* 61(4):465-478.

1957. Nutrition of salmonoid fishes. II. Studies on production diets. *J. Nutr.* 61(4):479-488.

WOODALL, A. N.  
 1959. The missing links of fish husbandry. *Prog. Fish-Cult.* 21(2):51-54.

WOODALL, A. N., L. M. ASHLEY, JOHN E. HALVER, H. S. OLcott, AND JOHN VAN DER VEEN.  
 1964. Nutrition of salmonoid fishes. XIII. The  $\alpha$ -tocopherol requirements of chinook salmon. *J. Nutr.* 84(2):125-135.

WOODALL, A. N., AND GILLES LAROCHE.  
 1964. Nutrition of salmonoid fishes. XI. Iodide requirements of chinook salmon. *J. Nutr.* 82(4):475-482.

YASUTAKE, W. T., D. R. BUHLER, AND W. E. SHANKS.  
 1961. Chemotherapy of hexamitiasis in fish. *J. Parasitol.* 47(1):81-86.

YASUTAKE, W. T., AND E. M. WOOD.  
 1957. Some myxosporidia found in Pacific Northwest salmonids. *J. Parasitol.* 43(6):633-642.

ZAUGG, W. S.  
 1967. Determination of phosphate in fresh and sea water by atomic absorption spectrophotometry. *At. Absorpt. News.* 6(3):63-65.

1968. Copper-sensitive, EDTA-activated ATPase in gill microsomes. *Fed. Proc.* 27(2):806. (Abstr.)

1970. Comments on the relationship between gill ATPase activities, migration, and salt water adaptation of coho salmon. *Trans. Am. Fish. Soc.* 99(4):811-813.

ZAUGG, W. S., B. L. ADAMS, AND L. R. MCLAIN.  
 1972. Photoperiod and temperature influence on Na-K-ATPase activity in gill microsomes of steelhead trout. *Fed. Proc.* 31(2):288. (Abstr.)

1972. Steelhead migration: potential temperature effects as indicated by gill adenosine triphosphatase activities. *Science* 176(4033):415-416.

ZAUGG, W. S., AND R. J. KNOX.  
 1966. Indirect determination of inorganic phosphate by atomic absorption spectrophotometric determination of molybdenum. *Anal. Chem.* 38(12):1759-1760.

1967. Determination of phosphate in biological materials and reaction mixtures by atomic absorption spectrophotometry. *Anal. Biochem.* 20(2):282-293.

ZAUGG, W. S., AND L. R. MCLAIN.  
 1969. Inorganic salt effects on growth, salt water adaption and gill ATPase of Pacific salmon. Pages 293-306 in Otto W. Neuhaus and John E. Halver eds. *Fish in research*. Academic Press, New York.

1970. Adenosinetriphosphatase activity in gills of salmonids: seasonal variations and salt water influence in coho salmon, *Oncorhynchus kisutch*. *Comp. Biochem. Physiol.* 35(3):587-596.

1971. Gill sampling as a method of following biochemical changes: ATPase activities altered by ouabain injection and salt water adaption. *Comp. Biochem. Physiol.* 38(3B):501-506.

1972. Changes in gill adenosinetriphosphatase activity associated with parr-smolt transformation in steelhead trout, coho, and spring chinook salmon. *J. Fish. Res. Board Can.* 29(2):167-171.

**APPALACHIAN SPORT FISHERY INVESTIGATIONS**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Leetown, West Virginia**

Appalachian Sport Fishery Investigations was established in 1952 with headquarters at Leetown, West Virginia, and a field station at Gatlinburg, Tennessee. The principal purpose was to determine the factors governing the abundance and distribution of game fishes—especially trout—in Great Smoky Mountains National Park and Shenandoah National Park. Secondary purposes were to develop electrofishing apparatus for assessment of fish populations in the extremely soft Appalachian waters and to assist the National Park Service in formulating management plans for the heavily exploited fishery resources.

The investigations were terminated in 1960, after the research objectives had been largely achieved. The staff and the records of the Appalachian Investigations were transferred to the Fish Control Laboratory, La Crosse, Wisconsin. Papers published in 1959–67 that originated from work in Great Smoky Mountains or Shenandoah National Parks are listed in the bibliography for that Laboratory.

LENNON, ROBERT E.

1954. Angling on Little Pigeon River, Great Smoky Mountains National Park, 1953. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 121. 27 pp.

1954. The Pisgah system. Prog. Fish-Cult. 16(2): 91–92.

1956. A collapsible live car for field use. Prog. Fish-Cult. 18(4):191–192.

1957. Observations on wild, long-jaw rainbow trout. Prog. Fish-Cult. 19(4):179–182.

LENNON, ROBERT E., AND PHILLIP S. PARKER.

1957. Electric shocker developments on southeastern trout waters. Trans. Am. Fish. Soc. 85:234–240.

1958. Applications of salt in electrofishing. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 280. 11 pp.

**ROCKY MOUNTAIN SPORT FISHERY INVESTIGATIONS**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Logan, Utah**

This research unit was established in 1948 at the Stanford, California, Laboratory of the U.S. Fish and Wildlife Service. It was moved to Logan, Utah, in 1951, and maintained an association with Utah State University, where library facilities, consultants, and student aids were available. The former U.S. Fish and Wildlife Service egg-collecting station and hatchery at Yellowstone Lake was used as a field station.

The main purpose of Rocky Mountain Sport Fishery Investigations was to study the life history and population dynamics of the cutthroat trout in Yellowstone Lake. Studies were also carried out on stream management in the Madison River system, grayling in Grebe Lake, rainbow trout in Rocky Mountain National Park, and pesticides. All work was conducted on National Park Service waters, except for limited pesticide work in National forests.

Field data collected at Yellowstone Lake included creel census; counts of spawning fish, scales for growth and age analysis, and other life history information on the cutthroat trout; and limnological data. An intensive management plan for Yellowstone Lake was prepared for use by the National Park Service and the Bureau's Division of Fishery Management Services. The work was terminated after the 1961 field season.

**BALL, ORVILLE P.**  
1955. Some aspects of homing in cutthroat trout. *Proc. Utah Acad. Sci. Arts Lett.* 32:75-80.

**BALL, ORVILLE P., AND OLIVER B. COPE.**  
1961. Mortality studies on cutthroat trout in Yellowstone Lake. *U.S. Bur. Sport Fish. Wildl., Res. Rep.* 55. 62 pp.

**BENSON, NORMAN G.**  
1958. Facts about Yellowstone Lake. *Yellowstone Nat. Notes* 32(4):48-49.  
1958. Hermaphroditism in the cutthroat trout. *Copeia* 1958(3):239-240.  
1958. Recent progress in water fertilization. Pages 432-434 in *Rep. Comm. Hydrobiol. Fish Cult.* (Peter A. Larkin, chairman). *Trans. Am. Fish. Soc.* 87.  
1960. Factors influencing production of immature cutthroat trout in Arnica Creek, Yellowstone Park. *Trans. Am. Fish. Soc.* 89(2):168-175.  
1961. Limnology of Yellowstone Lake in relation to the cutthroat trout. *U.S. Bur. Sport Fish. Wildl., Res. Rep.* 56. 38 pp.

**BENSON, NORMAN G., AND ROSS V. BULKLEY.**  
1963. Equilibrium yield and management of cutthroat trout in Yellowstone Lake. *U.S. Bur. Sport Fish. Wildl., Res. Rep.* 62. 44 pp.

**BENSON, NORMAN G., OLIVER B. COPE, AND ROSS V. BULKLEY.**  
1959. Fishery management studies on the Madison River System in Yellowstone National Park. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 307. 29 pp.

**BENSON, NORMAN G., JOHN R. GREELEY, MELVIN I. HUISH, AND JEROME H. KUEHN.**  
1961. Status of management of natural lakes. *Trans. Am. Fish. Soc.* 90(2):218-224.

**BROWN, C. J. D., AND RICHARD T. GRAHAM.**  
1954. Observations on the longnose sucker in Yellowstone Lake. *Trans. Am. Fish. Soc.* 83:38-46.

**BULKLEY, ROSS V.**  
1958. The food of adult Fish Lake trout and its relation to forage fish abundance. *Proc. Utah Acad. Sci. Arts Lett.* 35:85-89.  
1960. Use of branchiostegal rays to determine age of lake trout, *Salvelinus namaycush* (Walbaum). *Trans. Am. Fish. Soc.* 89(4):344-350.  
1961. Fluctuations in age composition and growth rate of cutthroat trout in Yellowstone Lake. *U.S. Bur. Sport Fish. Wildl., Res. Rep.* 54. 31 pp.  
1963. Natural variation in spotting, hyoid teeth counts, and coloration of Yellowstone cutthroat trout, *Salmo clarki lewisi* Girard. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 460. 11 pp.

**BULKLEY, ROSS V., AND NORMAN G. BENSON.**  
1962. Predicting year-class abundance of Yellowstone Lake cutthroat trout. *U.S. Bur. Sport Fish. Wildl., Res. Rep.* 59. 21 pp.

**COPE, OLIVER B.**  
1952. Inks for marking plastic fish tags. *Prog. Fish-Cult.* 14(3):125-126.  
1952. Insects and the lower vertebrates. Pages 699-708 in *The yearbook of agriculture 1952*. U.S. Department of Agriculture, Washington, D.C.

**COPE, OLIVER B.**

1953. Chloretone as an anesthetic for adult cutthroat trout. *Prog. Fish-Cult.* 15(1):35.

1953. Length measurements of Lake Yellowstone trout. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 103. 17 pp.

1953. The Rogue River boat in fishery work. *Prog. Fish-Cult.* 15(3):131-132.

1954. Converting carboys into jars and aquaria. *Prog. Fish-Cult.* 16(3):139-140.

1955. The future of the cutthroat in Utah. *Proc. Utah Acad. Sci. Arts Lett.* 32:89-93.

1955. Utah's fish and waterfowl in mosquito control areas. *Proc. Annu. Meet. Utah Mosq. Abatement Assoc.* 8:14-15.

1956. Sampling methods in the Yellowstone Lake creel census. Pages 46-49 in Kenneth D. Carlander, ed. *Symposium on sampling problems in creel census.* Iowa State College, Ames.

1956. Some migration patterns in cutthroat trout. *Proc. Utah Acad. Sci. Arts Lett.* 33:113-118.

1957. A second list of fishery papers about Yellowstone. *Yellowstone Nat. Notes* 31(2):25-26.

1957. DDT and fish. *Proc. Annu. Meet. Utah Mosq. Abatement Assoc.* 9:4-5.

1957. Latest names for Yellowstone Park fishes. *Yellowstone Nat. Notes* 31(3):25-26.

1957. Races of cutthroat trout in Yellowstone Lake. Pages 74-84 in *Contributions to the study of subpopulations of fishes* (John C. Marr, coordinator). *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 208.

1957. Six years of catch statistics on Yellowstone Lake. *Trans. Am. Fish. Soc.* 85:160-179.

1957. The choice of spawning sites by cutthroat trout. *Proc. Utah Acad. Sci. Arts Lett.* 34:73-79.

1958. Annotated bibliography on the cutthroat trout. *U.S. Fish Wildl. Serv., Fish. Bull.* 58:417-442.

1958. Incidence of external parasites on cutthroat trout in Yellowstone Lake. *Proc. Utah Acad. Sci. Arts Lett.* 35:95-100.

1958. New fish records from Yellowstone. *Yellowstone Nat. Notes* 32(2):15-17.

1959. New parasite records from stickleback and salmon in an Alaskan stream. *Trans. Am. Microsc. Soc.* 78(2):157-162.

1960. The retention of D.D.T. by trout and whitefish. Pages 72-75 in *Biological problems in water pollution—transactions of the 1959 seminar* (C. M. Tarzwell, compiler). *U.S. Dep. Health Educ. Welfare, Public Health Serv., Robert A. Taft Sanit. Eng. Cent. Tech. Rep.* W60-3.

1961. Effects of DDT spraying for spruce budworm on fish in the Yellowstone River system. *Trans. Am. Fish. Soc.* 90(3):239-251.

1964. Revised bibliography on the cutthroat trout. *U.S. Bur. Sport Fish. Wildl., Res. Rep.* 65. 43 pp.

**COPE, OLIVER B., GEORGE H. KELKER, JOSEPH B. LOW, AND ALLEN W. STOKES, compilers.**

1958. Ten-year index to the *Journal of Wildlife Management*: volumes 11-20, 1947-1956. *The Wildlife Society.* 80 pp.

**COPE, OLIVER B., AND PAUL F. SPRINGER.**

1958. Mass control of insects: the effects on fish and wildlife. *Bull. Entomol. Soc. Am.* 4(2):52-56.

**KRUSE, THOMAS E.**

1959. Grayling of Grebe Lake, Yellowstone National Park, Wyoming. *U.S. Fish Wildl. Serv., Fish. Bull.* 59:307-351.

**LAAKSO, MARTIN.**

1955. Variability in scales of cutthroat trout in mountain lakes. *Proc. Utah Acad. Sci. Arts Lett.* 32:81-87.

1956. Body-scale regressions in juvenile cutthroat from Yellowstone Lake. *Proc. Utah Acad. Sci. Arts Lett.* 33:107-111.

**LAAKSO, MARTIN, AND OLIVER B. COPE.**

1956. Age determination in Yellowstone cutthroat trout by the scale method. *J. Wildl. Manage.* 20(2):138-153.

**MOORE, HARVEY L., OLIVER B. COPE, AND RICHARD E. BECKWITH.**

1952. Yellowstone Lake trout creel censuses, 1950-51. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 81. 41 pp.

**FISH CONTROL LABORATORY**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**La Crosse, Wisconsin 54601**

The Fish Control Laboratory was established in 1959 at the site of a former National Fish Hatchery. Remodeling in 1960-61 provided wet and dry laboratories for investigation of new or improved chemical tools needed in fish culture and fishery management—fish toxicants, anesthetics, collecting aids, therapeutants, and disinfectants.

Soon after the Laboratory became operational, new laws were passed by Congress that require registration of aquatic-use chemicals. The registration requirement multiplies severalfold the amount of research necessary to develop a fishery chemical. The Laboratory therefore emphasizes investigations on the toxicity (safety) of candidate chemicals; their effectiveness in controlling target organisms; and their residues in fish, water, and the environment.

Primarily as a consequence of repeated inundation of the laboratory site by floods on the Mississippi River, construction of a new laboratory was begun near La Crosse in 1973.

The Fish Control Laboratories comprise the headquarters at La Crosse; the Southeastern Fish Control Laboratory, Warm Springs, Georgia; and Hammond Bay Biological Station, Millersburg, Michigan, on the northwest shore of Lake Huron. Research at the Southeastern Fish Control Laboratory, which was begun in 1962, supplements the investigations on fishery chemicals at La Crosse, especially as the chemicals affect southern freshwater fishes in very soft waters. Work at Hammond Bay is centered on the development of chemical, physical, and biological means for control of the sea lamprey in the Great Lakes. This Station was established in 1950 and operated by the Bureau of Commercial Fisheries until October 1970, when it was transferred to the Bureau of Sport Fisheries and Wildlife.

**ALLEN, JOHN L.**

1968. Gas chromatographic separation and quantitative estimation barbiturate mixtures in solid dosage forms. *J. Assoc. Off. Anal. Chem.* 51(3): 619-621.

**ALLEN, JOHN L., AND PAUL D. HARMAN.**

1970. Control of pH in MS-222 anesthetic solutions. *Prog. Fish-Cult.* 32(2):100.

**ALLEN, JOHN L., CHARLES W. LUHNING, AND PAUL D. HARMAN.**

1970. Identification of MS-222 residues in selected fish tissues by thin layer chromatography. *U.S. Bur. Sport Fish. Wildl., Invest. Fish Control* 41. 7 pp.

1972. Residues of MS-222 in northern pike, muskellunge, and walleye. *U.S. Bur. Sport Fish. Wildl., Invest. Fish Control* 45. 8 pp.

**ALLEN, JOHN L., AND JOE B. SILLS.**

1970. GLC determination of quinaldine residue in fish. *J. Assoc. Off. Anal. Chem.* 53(1):20-23.

1970. U.V. identification and quantitative measurement of quinaldine residues in fish. *J. Assoc. Off. Anal. Chem.* 53(6):1170-1171.

**BERGER, BERNARD L.**

1966. Antimycin (Fintrol) as a fish toxicant. *Proc. Southeast. Assoc. Game Fish Comm.* 19:300-301.

**BERGER, BERNARD L., ROBERT E. LENNON, AND JAMES W. HOGAN.**

1969. Laboratory studies on antimycin A as a fish toxicant. *U.S. Bur. Sport Fish. Wildl., Invest. Fish Control* 26. 21 pp.

**BRAEM, ROBERT A., AND EVERETT L. KING, JR.**

1971. Albinism in lampreys in the upper Great Lakes. *Copeia* 1971(1):176-179.

**BURRESS, RALPH M.**

1968. Antimycin for controlling sunfish populations in ponds. *Farm Pond Harvest* 2(1):11, 12, 22.

1971. Improved method of treating ponds with antimycin A to reduce sunfish populations. *Proc. Southeast. Assoc. Game Fish Comm.* 24:464-473.

**BURRESS, RALPH M., AND CHARLES W. LUHNING.**

1969. Field trials of antimycin as a selective toxicant in channel catfish ponds. *U.S. Bur. Sport Fish. Wildl., Invest. Fish Control* 25. 12 pp.

1969. Use of antimycin for selective thinning of sunfish populations in ponds. *U.S. Bur. Sport Fish. Wildl., Invest. Fish Control* 28. 10 pp.

COOK, R. S., chairman, A. M. BEETON, P. M. COOK, P. H. DERSE, A. HASLER, R. E. LENNON, P. SAGER, AND W. SELBIG.

1972. Policy statement on the use of toxicants in management of aquatic resources. Report of Governor's Study Committee on the Use of Fish Toxicants for Fish Management. Office of Governor, State Capitol, Madison, Wisconsin. 5 pp. Reprinted in SFI [Sport Fish. Inst.] Bull. 233: 1-2 (1972).

DYKSTRA, WALTER W., AND ROBERT E. LENNON.

1966. The role of chemicals for the control of vertebrate pests. Pages 29-34 in Pest control by chemical, biological, genetic, and physical means; a symposium (E. P. Knippling, chairman). U.S. Dep. Agric. ARS [Agric. Res. Serv.] 33-110.

GILDERHUS, PHILIP A.

1966. Some effects of sublethal concentrations of sodium arsenite on bluegills and the aquatic environment. Trans. Am. Fish. Soc. 95(3):289-296.

1967. Effects of diquat on bluegills and their food organisms. Prog. Fish-Cult. 29(2):67-74.

1972. Exposure times necessary for antimycin and rotenone to eliminate certain freshwater fish. J. Fish. Res. Board Can. 29(2):199-202.

GILDERHUS, PHILIP A., BERNARD L. BERGER, AND ROBERT E. LENNON.

1969. Field trials of antimycin A as a fish toxicant. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 27. 21 pp.

HANSON, LEE H.

1972. An evaluation of selected marks and tags for marking recently metamorphosed sea lampreys. Prog. Fish-Cult. 34(2):70-75.

HESELBERG, ROBERT J., AND RALPH M. BURRESS.

1967. Labor-saving devices for bioassay laboratories. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 21 (Resour. Publ. 38). 8 pp.

HOGAN, JAMES W.

1969. Toxicity of Hyamine 3500 to fish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 32. 9 pp.

HOWLAND, ROBERT M.

1969. Interaction of antimycin A and rotenone in fish bioassays. Prog. Fish-Cult. 31(1):33-34.

1969. Laboratory studies on possible fish-collecting aids, with some toxicities for the isomers of cresol. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 34. 10 pp.

HOWLAND, ROBERT M., AND RICHARD A. SCHOETTGER.

1969. Efficacy of methylpentynol as an anesthetic on four salmonids. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 29. 11 pp.

HUNN, JOSEPH B.

1967. Bibliography on the blood chemistry of fishes. U.S. Bur. Sport Fish. Wildl., Res. Rep. 72. 32 pp.

1969. Chemical composition of rainbow trout urine following acute hypoxic stress. Trans. Am. Fish. Soc. 98(1):20-22.

1969. Inorganic composition of gallbladder bile from fasted rainbow trout. Prog. Fish-Cult. 31(4): 221-222.

1970. Dynamics of MS-222 in the blood and brain of freshwater fishes during anesthesia. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 42. 8 pp.

1971. Review of *Principles of plant and animal pest control*. Volume 5. *Vertebrate pests: problems and control*. Trans. Am. Fish. Soc. 100(3):597.

1972. Blood chemistry values for some fishes of the upper Mississippi River. J. Minn. Acad. Sci. 38 (1):19-21.

1972. Concentrations of some inorganic constituents in gallbladder bile from some freshwater fishes. Copeia 1972(4):860-861.

1972. The effects of exposure to Thanite on the blood chemistry of carp. Prog. Fish-Cult. 34(2):81-84.

HUNN, JOSEPH B., AND P. O. FROMM.

1966. *In vivo* uptake of radioiodide by rainbow trout. J. Water Pollut. Control Fed. 38(12):1981-1985.

HUNN, JOSEPH B., AND PAUL F. ROBINSON.

1966. Some blood chemistry values for five Chesapeake Bay area fishes. Chesapeake Sci. 7(3):173-175.

HUNN, JOSEPH B., RICHARD A. SCHOETTGER, AND EVERETT W. WHEALDON.

1968. Observations on handling and maintenance of bioassay fish. Prog. Fish-Cult. 30(3):164-167.

HUNN, JOSEPH B., RICHARD A. SCHOETTGER, AND WAYNE A. WILLFORD.

1968. Turnover and urinary excretion of free and acetylated M.S. 222 by rainbow trout, *Salmo gairdneri*. J. Fish. Res. Board Can. 25(1):25-31.

HUNN, JOSEPH B., AND WAYNE A. WILLFORD.

1970. The effect of anesthetization and urinary bladder catheterization on renal function of rainbow trout. Comp. Biochem. Physiol. 33(4):805-812.

LANE, THOMAS H., AND HOWARD M. JACKSON.

1969. Voidance time for 23 species of fish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 33. 9 pp.

LENNON, ROBERT E.

1959. The electrical resistivity meter in fishery investigations. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 287. 13 pp.

1961. A fly-rod electrode system for electrofishing. Prog. Fish-Cult. 23(2):92-93.

1961. The Fish Control Laboratory. Wis. Conserv. Bull. 26(3):7-8.

1961. The trout fishery in Shenandoah National Park. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 395. 16 pp.

1962. An annotated list of the fishes of Great Smoky Mountains National Park. J. Tenn. Acad. Sci. 37(1):5-7.

1963. Dim and bright views on trout. Trout 4(5): 7-8.

1966. Antimycin—a new fishery tool. Wis. Conserv. Bull. 31(2):4-5. Reprinted in Izaak Walton Mag. 31(7):16-17 (1966).

1966. Managing fish populations: use of selective chemicals in fish population and aquatic plant control. Proc. Annu. Meet. Assoc. Midwest Fish Game Comm. 32:95-98.

LENNON, ROBERT E.

1967. Brook trout of Great Smoky Mountains National Park. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 15. 18 pp.

1967. Clearance and registration of chemical tools for fisheries. Prog. Fish-Cult. 29(4):187-193.

1967. Selected strains of fish as bioassay animals. Prog. Fish-Cult. 29(3):129-132.

1970. Control of freshwater fish with chemicals. Proc. Vertebr. Pest Conf. (West Sacramento, Calif.) 4:129-137.

1970. Fishes in pest situations. Pages 6-41 in Charles E. Palm (chairman). Principles of plant and animal pest control. Volume 5. Vertebrate pests: problems and control. National Academy of Sciences, Washington, D.C.

1971. Chemicals—their effectiveness in fisheries and the problem of their clearance for popular use. Am. Fishes U.S. Trout News 16(4):6, 8-10.

1971. Fish farmers confronted by chemical registration problem. Am. Fish Farmer 2(7):5-6, 16.

1971. Fishery science. Pages 325-335 in Michael J. Walker, ed. Sport fishing USA. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

1972. Chemicals in fish farming: what's cleared, what isn't. Fish Farming Ind. 3(1):15-18.

LENNON, ROBERT E., AND BERNARD L. BERGER.

1970. A resume on field applications of antimycin A to control fish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 40. 19 pp.

LENNON, ROBERT E., BERNARD L. BERGER, AND PHILIP A. GILDERHUS.

1967. A powered spreader for antimycin. Prog. Fish-Cult. 29(2):110-113.

LENNON, ROBERT E., JOSEPH B. HUNN, ROSALIE A. SCHNICK, AND RALPH M. BURRESS.

1970. Reclamation of ponds, lakes, and streams with fish toxicants: a review. FAO [Food Agric. Organ. U.N.] Fish. Tech. Pap. 100. 99 pp. Reprinted by U.S. Bur. Sport Fish. Wildl., Washington, D.C., 1971.

LENNON, ROBERT E., AND PHILLIP S. PARKER.

1959. The reclamation of Indian and Abrams Creeks, Great Smoky Mountains National Park. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 306. 22 pp.

1960. An outbreak of columnaris disease in stoners. Prog. Fish-Cult. 22(3):102.

1960. The fish-for-fun program on trout streams in Great Smoky Mountains National Park. Proc. Soc. Am. For. 1960:106-112.

1960. The stoners, *Campostoma anomalum* (Rafinesque), in Great Smoky Mountains National Park. Trans. Am. Fish. Soc. 89(3):263-270.

LENNON, ROBERT E., AND CHARLES R. WALKER.

1964. Laboratories and methods for screening fish control chemicals. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 1 (U.S. Fish Wildl. Serv., Circ. 185). 15 pp.

LITMAN, G. W., D. FROMMEL, J. FINSTAD, J. HOWELL, B. POLLARA, AND R. A. GOOD.

1970. The evolution of the immune response. VIII. Structural studies of the lamprey immunoglobulin. J. Immunol. 105(5):1278-1285.

LUHNING, CHARLES W., AND PAUL D. HARMAN.

1971. Sampling of fish muscle for M.S. 222 and quinaldine residues. J. Fish. Res. Board Can. 28 (1):113-115.

MAHDI, MAHMOUD AHMED.

1966. Mortality of some species of fish to toxaphene at three temperatures. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 6 (Resour. Publ. 10). 10 pp.

MAIRS, DONALD F.

1961. Toxicity of an epoxy cement to fishes. Prog. Fish-Cult. 23(4):178.

MAIRS, DONALD F., AND THERESA E. KENNEDY.

1962. Evaluation of some heparinized capillaries for microhematocrit "determinations of warm-water fishes. Prog. Fish-Cult. 24(4):188-189.

MARKING, LEIF L.

1966. Evaluation of *p,p'*-DDT as a reference toxicant in bioassays. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 10 (Resour. Publ. 14). 10 pp.

1967. Toxicity of MS-222 to selected fishes. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 12 (Resour. Publ. 18). 10 pp.

1969. Toxicity of methylpentynol to selected fishes. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 30. 7 pp.

1969. Toxicity of quinaldine to selected fishes. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 23. 10 pp.

1969. Toxicity of rhodamine B and fluorescein sodium to fish and their compatibility with antimycin A. Prog. Fish-Cult. 31(3):139-142.

1969. Toxicological assays with fish. Bull. Wildl. Dis. Assoc. 5(2):291-294.

1970. A method for rating chemicals for potency against fish and other organisms. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 36. 8 pp.

1970. Juglone (5-hydroxy-1, 4-naphthoquinone) as a fish toxicant. Trans. Am. Fish. Soc. 99(3):510-514.

1972. Methods of estimating the half-life of biological activity of toxic chemicals in water. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 46. 9 pp.

1972. Salicylanilide I, an effective non-persistent candidate piscicide. Trans. Am. Fish. Soc. 101(3):526-533.

1972. Sensitivity of the white amur to fish toxicants. Prog. Fish-Cult. 34(1):26.

MARKING, LEIF L., AND VERDEL K. DAWSON.

1972. The half-life of biological activity of antimycin determined by fish bioassay. Trans. Am. Fish. Soc. 101(1):100-105.

MARKING, LEIF L., AND JAMES W. HOGAN.

1967. Toxicity of Bayer 73 to fish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 19 (Resour. Publ. 36). 13 pp.

MARKING, LEIF L., EVERETT L. KING, CHARLES R. WALKER, AND JOHN H. HOWELL.  
 1970. Toxicity of 33NCS (3'-chloro-3-nitrosalicylanilide) to freshwater fish and sea lampreys. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 38. 16 pp.

MARKING, LEIF L., AND WAYNE A. WILLFORD.  
 1970. Comparative toxicity of 29 nitrosalicylanilides and related compounds to eight species of fish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 37. 11 pp.

PIAVIS, GEORGE A., AND JAMES L. HIATT.  
 1971. Blood cell lineage in the sea lamprey, *Petromyzon marinus* (Pisces: Petromyzontidae). Copeia 1971(4):722-728.

SCHNICK, ROSALIE A.  
 1972. A review of literature on TFM (3-trifluormethyl-4-nitrophenol) as a lamprey larvicide. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 44. 31 pp.

SCHOETTGER, RICHARD A.  
 1967. Annotated bibliography on MS-222. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 16 (Resour. Publ. 22). 15 pp.  
 1970. Toxicology of Thiodan in several fish and aquatic invertebrates. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 35. 31 pp.

SCHOETTGER, RICHARD A., AND ARNOLD M. JULIN.  
 1966. Evaluation of an electronic method of measuring hematocrits of fish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 11 (Resour. Publ. 15). 11 pp.  
 1967. Efficacy of MS-222 as an anesthetic on four salmonids. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 13 (Resour. Publ. 19). 15 pp.  
 1969. Efficacy of quinaldine as an anesthetic for seven species of fish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 22. 10 pp.

SCHOETTGER, RICHARD A., AND ERWIN W. STEUCKE, JR.  
 1970. Quinaldine and MS-222 as spawning aids for northern pike, muskellunge, and walleyes. Prog. Fish-Cult. 32(4):199-201.  
 1970. Synergic mixtures of MS-222 and quinaldine as anesthetics for rainbow trout and northern pike. Prog. Fish-Cult. 32(4):202-205.

SCHOETTGER, RICHARD A., AND GERALD E. SVENDSEN.  
 1970. Effects of antimycin A on tissue respiration of rainbow trout and channel catfish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 39. 10 pp.

SCHOETTGER, RICHARD A., CHARLES R. WALKER, LEIF L. MARKING, AND ARNOLD M. JULIN.  
 1967. MS-222 as an anesthetic for channel catfish: its toxicity, efficacy, and muscle residues. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 17 (Resour. Publ. 33). 14 pp.

SILLS, JOE B.  
 1970. A review of herbivorous fish for weed control. Prog. Fish-Cult. 32(3):158-161.

SILLS, JOE B., AND JOHN L. ALLEN.  
 1971. The influence of pH on the efficacy and residues of quinaldine. Trans. Am. Fish. Soc. 100(3): 544-545.

SILLS, JOE B., AND PAUL D. HARMAN.

1971. Efficacy and residues of quinaldine sulfate as an anesthetic for striped bass (*Morone saxatilis*). Proc. Southeast. Assoc. Game Fish Comm. 24: 546-549.

SINDERMANN, CARL J., AND DONALD F. MAIRS.  
 1961. Blood properties of prespawning and post-spawning anadromous alewives (*Alosa pseudoharengus*). U.S. Fish Wildl. Serv., Fish. Bull. 61: 145-151.

STEUCKE, ERWIN W., JR., AND RICHARD A. SCHOETTGER.  
 1967. Comparison of three methods of sampling trout blood for measurements of hematocrit. Prog. Fish-Cult. 29(2):98-101.

SVENDSEN, GERALD E.  
 1969. Annotated bibliography on methylpentynol. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 31. 7 pp.

WALKER, CHARLES R.  
 1963. Endothal derivatives as aquatic herbicides in fishery habitats. Weeds 11(3):226-232.  
 1963. Toxicological effects of herbicides on the fish environment. Proc. 8th Annu. Air Water Pollut. Conf., Univ. Mo. Eng. Ext. Ser. 2, Bull. 64(24): 17-34.  
 1964. Dichlobenil as a herbicide in fish habitats. Weeds 12(4):267-269.  
 1964. Simazine and other s-triazine compounds as aquatic herbicides in fish habitats. Weeds 12(2): 134-139.  
 1964. Toxicological effects of herbicides on the fish environment. Water Sewage Works 111(3, Part 1):113-116 and 111(4, part 2):173-175.  
 1965. Diuron, fenuron, monuron, neburon, and TCA mixtures as aquatic herbicides in fish habitats. Weeds 13(4):297-301.  
 1966. Review of *Fish and river pollution*, by J. R. Erichsen Jones. J. Soil Water Conserv. 21(6): 237-238.

WALKER, CHARLES R., ROBERT E. LENNON, AND BERNARD L. BERGER.  
 1964. Preliminary observations on the toxicity of antimycin A to fish and other aquatic animals. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 2 (U.S. Fish. Wildl. Serv., Circ. 186). 18 pp.

WALKER, CHARLES R., AND RICHARD A. SCHOETTGER.  
 1967. Method for determining MS-222 residues in fish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 14 (Resour. Publ. 20). 10 pp.  
 1967. Residues of MS-222 in four salmonids following anesthesia. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 15 (Resour. Publ. 21). 11 pp.

WALKER, CHARLES R., ROLAND J. STARKEY, AND LEIF L. MARKING.  
 1966. Relation of chemical structure to fish toxicity in nitrosalicylanilides and related compounds. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 9 (Resour. Publ. 13). 12 pp.

WHITWORTH, WALTER R., AND THOMAS H. LANE.  
 1969. Effects of toxicants on community metabolism in pools. Limnol. Oceanogr. 14(1):53-58.

WILLFORD, WAYNE A.

1967. Toxicity of dimethyl sulfoxide (DMSO) to fish. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 20 (Resour. Publ. 37). 8 pp.

1967. Toxicity of 22 therapeutic compounds to six fishes. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 18 (Resour. Publ. 35). 10 pp.

1970. Effect of MS-222 on electrolyte and water

content in the brain of rainbow trout. U.S. Bur. Sport Fish. Wildl., Invest. Fish Control 43. 7 pp.

WILLFORD, WAYNE A., JOE B. SILLS, AND EVERETT W. WHEALDON.

1969. Chlorinated hydrocarbons in the young of Lake Michigan coho salmon. Prog. Fish-Cult. 31(4):220.

**FISH-PESTICIDE RESEARCH LABORATORY**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Columbia, Missouri 65201**

The Fish-Pesticide Research Laboratory was established in 1959 at Denver, Colorado, to study the effects of pesticides on fish and wildlife. It was moved in 1966 to a 34-acre tract of land adjacent to the University of Missouri's South Farm, near Columbia, Missouri.

Physical facilities include a 23,000 square-foot laboratory building, 38 ponds, a shop-garage, and a deep well that delivers 1,200 gpm of water at 16 C. Specialized laboratory equipment includes small recirculating streams; a stamina tunnel; light- or temperature-controlled flow-through diluters; a liquid scintillation counter; infrared, atomic absorption, and visible light spectrometers; a fluorometer; an ultracentrifuge; gas chromatographs; a mass spectrometer; and a PDP-12 digital computer.

Field research units are located at the Fish Control Laboratory, La Crosse, Wisconsin; at the National Fish Hatchery, Jackson, Wyoming; and at the Denver Federal Center, Denver, Colorado.

Investigations at the Laboratory are directed toward understanding and predicting the immediate and long-term effects of contaminants such as forest insect sprays, aquatic herbicides, mosquito larvicides, and other resource management chemicals on fishery resources, and toward determining the toxicologic impact of agricultural and industrial chemicals on the management of fisheries. Research is focused primarily on: (1) agents newly developed or registered for use in aquatic ecosystems for protection of natural resources, human health, food, and fiber; (2) old pesticides on which new aquatic registrations are being sought; (3) agents newly developed or registered whose magnitude, mode, or target of application is likely to result in contamination of aquatic ecosystems; and (4) known contaminants of fish and fish foods.

ALLISON, DON, BURTON J. KALLMAN, OLIVER B. COPE, AND CHARLES C. VAN VALIN.  
1963. Insecticides: effects on cutthroat trout of repeated exposure to DDT. *Science* 142(3594):958-961.

ANDREWS, AUSTIN K., CHARLES C. VAN VALIN, AND BRUCE E. STEBBINS.  
1966. Some effects of heptachlor on bluegills (*Lepomis macrochirus*). *Trans. Am. Fish. Soc.* 95(3):297-309.

BENVILLE, P. E., JR., AND R. C. TINDE.  
1970. Dry ice homogenization procedure for fish samples in pesticide residue analysis. *J. Agric. Food Chem.* 18(5):948-949.

BRAUHN, JAMES L.  
1970. Bacteria associated with redear sunfish mortality. *Prog. Fish-Cult.* 32(2):80.  
1971. *Aeromonas liquefaciens* isolation from largemouth bass eggs and sac fry. *Prog. Fish-Cult.* 33(4):236-237.  
1971. Fall spawning of channel catfish. *Prog. Fish-Cult.* 33(3):150-152.  
1972. A suggested method for sexing bluegills. *Prog. Fish-Cult.* 34(1):17.

BRAUHN, JAMES L., AND JAMES W. HOGAN.  
1972. Use of cold brands on channel catfish. *Prog. Fish-Cult.* 34(2):112.

BRAUHN, JAMES L., DELMAR HOLZ, AND RICHARD O. ANDERSON.  
1972. August spawning of largemouth bass. *Prog. Fish-Cult.* 34(4):207-209.

BRIDGES, W. R.  
1961. Disappearance of endrin from fish and other materials of a pond environment. *Trans. Am. Fish. Soc.* 90(3):332-334.  
1964. Some effects on fish of chemical control of forest insects. *Proc. Soc. Am. For.* 1964:192-194.  
1965. Effects of time and temperature on the toxicity of heptachlor and kepone to redear sunfish. Pages 247-249 in *Biological problems in water pollution—third seminar, 1962* (Clarence M. Tarzwell, compiler). U.S. Dep. Health Educ. Welfare, Public Health Serv. Publ. 999-WP-25.

BRIDGES, W. R., AND AUSTIN K. ANDREWS.  
1961. Effects of DDT spray on fish and aquatic insects in Gallatin River drainage in Montana. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 391. 4 pp.

BRIDGES, W. R., AND OLIVER B. COPE.

1965. The relative toxicities of similar formulations of pyrethrum and rotenone to fish and immature stoneflies. *Pyrethrum Post* 8(1):3-5.

BRIDGES, W. R., B. J. KALLMAN, AND A. K. ANDREWS.

1963. Persistence of DDT and its metabolites in a farm pond. *Trans. Am. Fish. Soc.* 92(4):421-427.

BRIDGES, W. R., AND HERMAN O. SANDERS.

1963. Diffusion of herbicides through plastic film. *Prog. Fish-Cult.* 24(4):213-214.

BUHLER, DONALD R., AND P. BENVILLE.

1969. Effect of feeding and of DDT on the activity of hepatic glucose 6-phosphate dehydrogenase in two salmonids. *J. Fish. Res. Board Can.* 26(12):3209-3216.

BUHLER, DONALD R., AND M. E. RASMUSSON.

1968. Reduction of p-nitrobenzoic acid by fishes. *Arch. Biochem. Biophys.* 124:1-3.

1968. The oxidation of drugs by fishes. *Comp. Biochem. Physiol.* 25(1):223-239.

BUHLER, DONALD R., MARY E. RASMUSSON, AND W. E. SHANKS.

1969. Chronic oral DDT toxicity in juvenile coho and chinook salmon. *Toxicol. Appl. Pharmacol.* 14(3):535-555.

BUHLER, DONALD R., AND W. E. SHANKS.

1970. Influence of body weight on chronic oral DDT toxicity in coho salmon. *J. Fish. Res. Board Can.* 27(2):347-358.

COPE, OLIVER B.

1961. Standards for reporting fish toxicity tests. *Prog. Fish-Cult.* 23(4):187-189.

1962. Effects on sport fisheries. Pages 16-19 in *Effects of pesticides on fish and wildlife: a review of investigations during 1960*. U.S. Fish Wildl. Serv., Circ. 143.

1962. Sport fishery investigations. Pages 26-42 in *Pesticide-wildlife studies: a review of Fish and Wildlife Service investigations in 1961 and 1962*. U.S. Fish Wildl. Serv., Circ. 167.

1963. Sport fishery investigations. Pages 29-43 in *Pesticide-wildlife studies in 1963: a review of Fish and Wildlife Service investigations during the calendar year*. U.S. Fish Wildl. Serv., Circ. 199.

1965. Pesticide-wildlife relations. Pages 245-246 in *Biological problems in water pollution—third seminar, 1962* (Clarence M. Tarzwell, compiler). U.S. Dep. Health Educ. Welfare, Public Health Serv. Publ. 999-WP-25.

1965. Some responses of fresh-water fish to herbicides. *Proc. Annu. Meet. South. Weed Conf.* 18:439-445.

1966. Contamination of the freshwater ecosystem by pesticides. *J. Appl. Ecol.* 3(Suppl.):33-44.

COPE, OLIVER B., JOSEPH P. McCRAEN, AND LAFAYETTE L. ELLER.

1969. Effects of dichlobenil on two fishpond environments. *Weed Sci.* 17(2):158-165.

COPE, OLIVER B., EDWARD M. WOOD, AND GEORGE H. WALLEN.

1970. Some chronic effects of 2,4-D on the bluegill (*Lepomis macrochirus*). *Trans. Am. Fish. Soc.* 99(1):1-12.

CRUEA, DARRELL D., LAFAYETTE L. ELLER, AND NANCY PRIDDY.

1969. A new stain for fish sperm. *Prog. Fish-Cult.* 31(3):148.

CRUTCHER, LOGAN.

1971. Hazards of Gmelin reaction. *Am. J. Clin. Pathol.* 55(1):116.

EISLER, RONALD.

1967. Acute toxicity of zinc to the killifish, *Fundulus heteroclitus*. *Chesapeake Sci.* 8(4):262-264.

1969. Acute toxicities of insecticides to marine decapod crustaceans. *Crustaceana* 16(3):302-310.

1970. Acute toxicities of organochlorine and organophosphorus insecticides to estuarine fishes. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 46. 12 pp.

1970. Factors affecting pesticide-induced toxicity in an estuarine fish. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 45. 20 pp.

1970. Latent effects of insecticide intoxication to marine molluscs. *Hydrobiologia* 36(3-4):345-352.

EISLER, RONALD, AND P. H. EDMUND.

1966. Effects of endrin on blood and tissue chemistry of a marine fish. *Trans. Am. Fish. Soc.* 95(2):153-159.

EISLER, RONALD, AND M. P. WEINSTEIN.

1967. Changes in metal composition of the quahog clam, *Mercenaria mercenaria*, after exposure to insecticides. *Chesapeake Sci.* 8(4):253-258.

ELLER, LAFAYETTE L.

1969. Pathology in redear sunfish exposed to Hydrothol 191. *Trans. Am. Fish. Soc.* 98(1):52-59.

1971. Histopathologic lesions in cutthroat trout (*Salmo clarki*) exposed chronically to the insecticide endrin. *Am. J. Pathol.* 64(2):321-332.

FREY, PAUL J.

1961. Effects of DDT spray on stream bottom organisms in two mountain streams in Georgia. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 392. 11 pp.

1963. A plane-type soil sampler. *Prog. Fish-Cult.* 25(1):46-49.

GEHRKE, CHARLES, DAVID STALLING, WALTER AUE, AND ROBERT ZUMWALT.

1970. Amino acids from extracts and hydrolysates. Pages 38-42 in K.A. Kvenvolden and Cyril Ponnamperuma, eds. *A search for carbon and its compounds in lunar samples from Mare Tranquillitatis*. National Aeronautics and Space Administration, Washington, D.C.

GEHRKE, C. W., R. W. ZUMWALT, W. A. AUE, D. L. STALLING, A. DUFFIELD, C. PONNAMPERUMA, AND K. A. KVENVOLDEN.

1970. Carbon compounds in lunar fines from Mare Tranquillitatis-III. Organosiloxanes in hydrolic acid hydrolysates. *Geochem. Cosmochim. Acta* (Suppl. 1) 2:1845-1856.

GEHRKE, CHARLES W., ROBERT W. ZUMWALT, WALTER A. AUE, DAVID L. STALLING, AND JAY J. RASH.

1971. A search for organics in hydrolysates of lunar fines. *J. Chromatogr.* 54(2):169-183.

GEHRKE, CHARLES W., ROBERT W. ZUMWALT, KENNETH KUO, JAY J. RASH, WALTER A. AUE, DAVID L. STALLING, KEITH A. KVENVOLDEN, AND CYRIL PONNAMPERUMA. 1972. Research for amino acids in lunar samples. *Space Life Sci.* 3:439-449.

GEHRKE, CHARLES W., ROBERT W. ZUMWALT, DAVID L. STALLING, DON ROACH, WALTER A. AUE, CYRIL PONNAMPERUMA, AND KEITH KVENVOLDEN. 1971. A search for amino acids in Apollo 11 and 12 lunar fines. *J. Chromatogr.* 59(2):305-319.

GILDERHUS, PHILIP A. 1966. Some effects of sublethal concentrations of sodium arsenite on bluegills and the aquatic environment. *Trans. Am. Fish. Soc.* 95(3):289-296. 1967. Effects of diquat on bluegills and their food organisms. *Prog. Fish-Cult.* 29(2):67-74.

GRANT, BLAKE F., AND P. M. MEHRLE. 1970. Chronic endrin poisoning in goldfish, *Carassius auratus*. *J. Fish. Res. Board Can.* 27(12):2225-2232.

GRANT, BLAKE F., P. M. MEHRLE, AND T. R. RUSSELL. 1970. Serum characteristics of spawning paddlefish (*Polyodon spathula*). *Comp. Biochem. Physiol.* 37(3):321-330.

GRANT, BLAKE F., PETER K. T. PANG, AND ROBERT W. GRIFFITH. 1969. The twenty-four hour seminal hydration response in goldfish (*Carassius auratus*)—I. Sodium, potassium, calcium, magnesium, chloride and osmolality of serum and seminal fluid. *Comp. Biochem. Physiol.* 30(2):273-280.

HESSELBERG, R. J., AND J. L. JOHNSON. 1972. Column extraction of pesticides from fish, fish food and mud. *Bull. Environ. Contam. Toxicol.* 7(2/3):115-120.

HOGAN, JAMES W. 1970. Water temperature as a source of variation in specific activity of brain acetylcholinesterase of bluegills. *Bull. Environ. Contam. Toxicol.* 5(4):347-353. 1971. Brain acetylcholinesterase from cutthroat trout. *Trans. Am. Fish. Soc.* 100(4):672-675. 1971. Some enzymatic properties of plasma esterases from channel catfish (*Ictalurus punctatus*). *J. Fish. Res. Board Can.* 28(4):613-616.

HOGAN, JAMES W., AND CHARLES O. KNOWLES. 1968. Degradation of organophosphates by fish liver phosphatases. *J. Fish. Res. Board Can.* 25(8):1571-1579. 1968. Some enzymatic properties of brain acetylcholinesterase from bluegill and channel catfish. *J. Fish. Res. Board Can.* 25(4):615-623. 1972. Metabolism of diazinon by fish liver microsomes. *Bull. Environ. Contam. Toxicol.* 8(1):61-64.

HOLZ, DELMAR D., FOSTER L. MAYER, JR., AND ROGER C. TINDE. 1972. A core-type sampler for pesticide studies. *Prog. Fish-Cult.* 34(2):117-118.

JOHNSON, B. T. 1969. Mechanism for the degradation of 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane by micro-organisms. *Bact. Proc.* 1969:16. (Abstr.)

1971. Pesticides in the freshwater ecosystem. Pages 59-62 in Donald R. Scoby, ed. *Environmental ethics: studies of man's self-destruction*. Burgess Publishing Company, Minneapolis, Minn.

JOHNSON, B. THOMAS, AND CHARLES O. KNOWLES. 1970. Microbial degradation of the acaracidi N-(4-chloro-o-toly)-N,N-dimethylformanidine. *Bull. Environ. Contam. Toxicol.* 5(2):158-163.

JOHNSON, B. THOMAS, C. RICHARD SAUNDERS, HERMAN O. SANDERS, AND ROBERT S. CAMPBELL. 1971. Biological magnification and degradation of DDT and aldrin by freshwater invertebrates. *J. Fish. Res. Board Can.* 28(5):705-709.

KALLMAN, BURTON J. 1962. Photometric microdetermination of malathion. *Chem. Anal.* 51:75-76.

KALLMAN, BURTON J., OLIVER B. COPE, AND RICHARD J. NAVARRE. 1962. Distribution and detoxication of toxaphene in Clayton Lake, New Mexico. *Trans. Am. Fish. Soc.* 91(1):14-22.

KENNEDY, HARRY D., LAFAYETTE L. ELLER, AND DAVID F. WALSH. 1970. Chronic effects of methoxychlor on bluegills and aquatic invertebrates. *U.S. Bur. Sport Fish. Wildl., Tech. Pap.* 53. 18 pp.

KENNEDY, HARRY D., AND DAVID F. WALSH. 1969. An aid for sorting macroinvertebrates or microinvertebrates. *Prog. Fish-Cult.* 31(1):32. 1970. Effects of malathion on two warmwater fish and aquatic invertebrates in ponds. *U.S. Bur. Sport Fish. Wildl., Tech. Pap.* 55. 13 pp.

KNOWLES, CHARLES O., SURESH K. ARURKAR, AND JAMES W. HOGAN. 1968. Electrophoretic separation of fish brain esterases. *J. Fish. Res. Board Can.* 25(7):1517-1519.

LOCKART, W. L., J. F. UTHE, A. R. KENNEY, AND P. M. MEHRLE. 1972. Methylmercury in northern pike (*Esox lucius*): distribution, elimination, and some biochemical characteristics of contaminated fish. *J. Fish. Res. Board Can.* 29(11):1519-1523.

MACEK, KENNETH J., CURT HUTCHINSON, AND OLIVER B. COPE. 1969. The effects of temperature on the susceptibility of bluegills and rainbow trout to selected pesticides. *Bull. Environ. Contam. Toxicol.* 4(3):174-183.

MACEK, KENNETH J., AND SIDNEY KORN. 1970. Significance of the food chain in DDT accumulation by fish. *J. Fish. Res. Board Can.* 27(8):1496-1498.

MACEK, KENNETH J., AND WILLIAM A. MCALLISTER. 1970. Insecticide susceptibility of some common fish family representatives. *Trans. Am. Fish. Soc.* 99(1):20-27.

MACEK, KENNETH J., CHARLES A. RODGERS, DAVID L. STALLING, AND SIDNEY KORN.  
 1970. The uptake, distribution, and elimination of dietary <sup>14</sup>C-DDT and <sup>14</sup>C-dieldrin in rainbow trout. *Trans. Am. Fish. Soc.* 99(4):689-695.

MACEK, KENNETH J., AND HERMAN O. SANDERS.  
 1970. Biological variation in the susceptibility of fish and aquatic invertebrates to DDT. *Trans. Am. Fish. Soc.* 99(1):89-90.

MACEK, KENNETH J., DAVID F. WALSH, JAMES W. HOGAN, AND DELMAR D. HOLZ.  
 1972. Toxicity of the insecticide Dursban<sup>R</sup> to fish and aquatic invertebrates in ponds. *Trans. Am. Fish. Soc.* 101(3):420-427.

MAYER, FOSTER L., JR., DAVID L. STALLING, AND JAMES L. JOHNSON.  
 1972. Phthalate esters as environmental contaminants. *Nature (Lond.)* 238(5364):411-413.

MCALLISTER, WILLIAM A., JR., WILBUR L. MAUCK, AND FOSTER L. MAYER, JR.  
 1972. A simplified device for metering chemicals in intermittent-flow bioassays. *Trans. Am. Fish. Soc.* 101(3):555-557.

MCCRAREN, JOSEPH P., OLIVER B. COPE, AND LAFAYETTE ELLER.  
 1969. Some chronic effects of diuron on bluegills. *Weed Sci.* 17(4):497-504.

MEHRLE, PAUL M., MARY E. DECLUE, AND RICHARD A. BLOOMFIELD.  
 1972. Phenylalanine metabolism altered by dietary dieldrin. *Nature (Lond.)* 238(5365):462-463.

MEHRLE, PAUL M., AND W. R. FLEMING.  
 1970. The effect of early and midday prolactin injection on the lipid constant photoperiod. *Comp. Biochem. Physiol.* 36(3):597-603.

MEHRLE, PAUL M., DAVID L. STALLING, AND RICHARD A. BLOOMFIELD.  
 1971. Serum amino acids in rainbow trout (*Salmo gairdneri*) as affected by DDT and dieldrin. *Comp. Biochem. Physiol.* 38(B2):373-377.

PICKFORD, GRACE E., BLAKE F. GRANT, AND BRUCE L. UMMINGER.  
 1969. Studies of the blood serum on the euryhaline cyprinodont fish, *Fundulus heteroclitus*, adapted to fresh or to salt water. *Trans. Conn. Acad. Arts Sci.* 43:25-70.

RASH, JAY J., CHARLES W. GEHRKE, ROBERT W. ZUMWALT, KENNETH C. KUO, KEITH A. KVENVOLDEN, AND DAVID L. STALLING.  
 1972. GLC of amino acids: a survey of contamination. *J. Chromatogr. Sci.* 10(7):444-450.

RODGERS, CHARLES A.  
 1970. Uptake and elimination of simazine by green sunfish (*Lepomis cyanellus* Raf.). *Weed Sci.* 18(1):134-136.

RODGERS, CHARLES A., AND DAVID L. STALLING.  
 1972. Dynamics of an ester of 2,4-D in organs of three fish species. *Weed Sci.* 20(1):101-105.

SANDERS, HERMAN O.  
 1969. Toxicity of pesticides to the crustacean *Gammarus lacustris*. U.S. Bur. Sport Fish. Wildl. Tech. Pap. 25. 18 pp.

1970. Pesticide toxicities to tadpoles of the Western chorus frog *Pseudacris triseriata* and Fowler's toad *Bufo woodhousii fowleri*. *Copeia* 1970(2):246-251.

1970. Toxicities of some herbicides to six species of freshwater crustaceans. *J. Water Pollut. Control Fed.* 42(8):1544-1550.

SANDERS, HERMAN O., AND JACK H. CHANDLER.  
 1972. Biological magnification of a polychlorinated biphenyl (Aroclor<sup>R</sup> 1254) from water by aquatic invertebrates. *Bull. Environ. Contam. Toxicol.* 7(5):257-263.

SANDERS, HERMAN O., AND OLIVER B. COPE.  
 1966. Toxicities of several pesticides to two species of cladocerans. *Trans. Am. Fish. Soc.* 95(2):165-169.

1968. The relative toxicities of several pesticides to naiads of three species of stoneflies. *Limnol. Oceanogr.* 13(1):112-117.

STADNYK, LELYN, ROBERT S. CAMPBELL, AND B. THOMAS JOHNSON.  
 1971. Pesticide effect on growth and <sup>14</sup>C assimilation in a freshwater alga. *Bull. Environ. Contam. Toxicol.* 6(1):1-8.

STALLING, D. L.  
 1972. Analysis of organochlorine residues in fish: current research at the Fish-Pesticide Research Laboratory. Pages 413-438 in A.S. Tahori, ed. *Proc. Int. IUPAC [Int. Union Pure Appl. Chem.] Congr. Pestic. Chem.* 2(1971). Vol. 4. Gordon and Breach Science Publishers, New York.

STALLING, DAVID L., AND JAMES N. HUCKINS.  
 1971. Gas-liquid chromatography—mass spectrometry characterization of polychlorinated biphenyls (Aroclors) and <sup>37</sup>Cl-labeling of Aroclors 1248 and 1254. *J. Assoc. Off. Anal. Chem.* 54(4):801-807.

STALLING, DAVID L., AND FOSTER LEE MAYER, JR.  
 1972. Toxicities of PCBs to fish and environmental residues. *Environ. Health Perspect. (Exp. Issue)* 1:159-164.

STALLING, DAVID L., ROGER C. TINDLE, AND JAMES L. JOHNSON.  
 1972. Cleanup of pesticide and polychlorinated biphenyl residues in fish extracts by gel permeation chromatography. *J. Assoc. Off. Anal. Chem.* 55(1):32-38.

STOCK, JAY, AND OLIVER B. COPE.  
 1969. Some effects of TEPA, an insect chemosterilant, on the guppy, *Poecilia reticulata*. *Trans. Am. Fish. Soc.* 98(2):280-287.

TINDLE, ROGER C.  
 1969. A low-cost variable-proportion gas-metering system. *Anal. Biochem.* 26(3):477-480.  
 1969. Purification procedure for low polarity solvents. *J. Agric. Food Chem.* 17(4):900.

TINDLE, ROGER C., AND DAVID L. STALLING.  
 1972. Apparatus for automated gel permeation cleanup for pesticide residue analysis. *Anal. Chem.* 44(11):1768-1773.

VAN VALIN, CHARLES C.  
 1966. Persistence of 2,6-dichlorobenzonitrile in aquatic environments. *Adv. Chem. Ser. No.* 60:271-279.

\* VAN VALIN, CHARLES C., AUSTIN K. ANDREWS, AND LAFAYETTE L. ELLER.

1968. Some effects of mirex on two warm-water fishes. *Trans. Am. Fish. Soc.* 97(2):185-196.

VAN VALIN, CHARLES C., AND BURTON J. KALLMAN.

1965. The use of carbon for measuring insecticides in water samples. Pages 250-252 in *Biological problems in water pollution—third seminar, 1962* (Clarence M. Tarzwell, compiler). U.S. Dep. Health Educ. Public Health Serv. Publ. 999-WP-25.

VAN VALIN, C. C., B. J. KALLMAN, AND J. J. O'DONNELL, JR.

1963. Polyethylene as a source of artifacts in the paper chromatography of chlorinated hydrocarbon insecticides. *Chem. Anal.* 52:72.

WEDEMEYER, GARY.

1966. Dechlorination of DDT by *Aerobacter aerogenes*. *Science* 152(3722):647.

1966. Uptake of 2,4-dichlorophenoxyacetic acid by *Pseudomonas fluorescens*. *Appl. Microbiol.* 14(4):486-491.

1967. Biodegradation of dichlorodiphenyltrichloroethane: intermediates in dichlorodiphenylacetic acid metabolism by *Aerobacter aerogenes*. *Appl. Microbiol.* 15(6):1494-1495.

1967. Dechlorination of 1,1,1-trichloro-2,2-bis (p-chloro-phenyl) ethane by *Aerobacter aerogenes*. *Appl. Microbiol.* 15(3):569-574.

1968. Partial hydrolysis of dieldrin by *Aerobacter aerogenes*. *Appl. Microbiol.* 16(4):661-662.

1968. Role of intestinal microflora in the degradation of DDT by rainbow trout (*Salmo gairdneri*). *Life Sci.* 7:219-223.

**GREAT LAKES FISHERY LABORATORY**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Ann Arbor, Michigan 48107**

The Great Lakes Fishery Laboratory is on the North Campus of the University of Michigan and continues to maintain a close association with the University that began when a permanent program of Federal fishery and limnological research on the Great Lakes was first established in 1927. The Laboratory was transferred from the Bureau of Commercial Fisheries to the Bureau of Sport Fisheries and Wildlife in 1970, in accordance with Presidential Reorganization Plan No. 4.

Research facilities of the present building (dedicated in May 1966) include specialized equipment for the study of fish physiology, water chemistry, plankton, and benthos; extensive fish holding and rearing equipment; an automatic data processing center; a workshop; and the excellent John Van Oosten Library. Supporting field units are biological stations at Ashland, Wisconsin, and Sandusky, Ohio; vessel bases at Saugatuck and Cheboygan, Michigan; and four 45- to 65-foot research vessels, the *Cisco*, *Kaho*, *Musky II*, and *Siscowet*.

The mission of the Laboratory is to describe and understand the ecology of the Great Lakes and to develop the knowledge required for the conservation and enhancement of the fishery resources. Major subjects of research have included the life histories of native and introduced fishes; commercial fishery statistics, with special reference to the effects of selective exploitation on the fish stocks; the sea lamprey (its distribution and abundance, effects of its predation on native fish stocks, and the development of methods for its control); the rehabilitation of lake trout in the upper Great Lakes; the alewife (especially its population dynamics and its effects on native fish stocks); and the environment, with particular reference in recent years to the adverse effects of domestic and industrial pollution, contaminants such as insecticides and methyl mercury, and waste heat from power generating plants.

ALLEN, HERBERT E.  
1964. Chemical characteristics of south-central Lake Huron. Proc. Conf. Great Lakes Res. 7 (Univ. Mich., Great Lakes Res. Div., Publ. 11):45-53.

1969. Chemical characteristics of Lake Ontario. Pages 1-18 in Limnological survey of Lake Ontario, 1964. Great Lakes Fish. Comm., Tech. Rep. 14.

ALLEN, HERBERT E., AND CHARLES W. BACON.  
1969. Rapid determination of filterable residue in natural waters. J. Am. Water Works Assoc. 61(7): 355-356.

ALLEN, HERBERT E., AND RICHARD B. HAHN.  
1969. Determination of phosphate in natural waters by activation analysis of tungstophosphoric acid. Environ. Sci. Tech. 3(9):844-848.

ALLEN, H. E., W. R. MATSON, AND K. H. MANCY.  
1970. Trace metal characterization in aquatic environments by anodic stripping voltammetry. J. Water Pollut. Control Fed. 42(4):573-581.

ANDERSON, GAYLORD A.  
1962. Three portable feeders for metering chemical into streams for control of sea lamprey. Prog. Fish-Cult. 24(4):190-192.

APPLEGATE, VERNON C.  
1950. Natural history of the sea lamprey, *Petromyzon marinus*, in Michigan. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 55. 237 pp.

1951. Sea lamprey investigations. II. Egg development, maturity, egg production, and percentage of unspawned eggs of sea lampreys, *Petromyzon marinus*, captured in several Lake Huron tributaries. Pap. Mich. Acad. Sci. Arts Lett. 35 (Part 2):71-90.

1951. The sea lamprey in the Great Lakes. Sci. Mon. 72(5):275-281.

1961. Downstream movement of lampreys and fishes in the Carp Lake River, Michigan. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 387. 71 pp.

APPLEGATE, VERNON C., AND CLIFFORD L. BRYNILDSON  
1952. Downstream movement of recently transformed sea lampreys, *Petromyzon marinus*, in the Carp Lake River, Michigan. Trans. Am. Fish. Soc. 81:275-290.

APPLEGATE, VERNON C., JOHN H. HOWELL, A. E. HALL, JR., AND MANNING A. SMITH.

1957. Toxicity of 4,346 chemicals to larval lampreys and fishes. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 207. 157 pp.

APPLEGATE, VERNON C., JOHN H. HOWELL, JAMES W. MOFFETT, B. G. H. JOHNSON, AND MANNING A. SMITH.

1961. Use of 3-trifluormethyl-4-nitrophenol as a selective sea lamprey larvicide. Great Lakes Fish. Comm., Tech. Rep. 1. 35 pp.

APPLEGATE, VERNON C., JOHN H. HOWELL, AND MANNING A. SMITH.

1958. Use of mononitrophenols containing halogens as selective sea lamprey larvicides. Science 127 (3294):336-338.

APPLEGATE, VERNON C., B. G. H. JOHNSON, AND MANNING A. SMITH.

1966. The relation between molecular structure and biological activity among mononitrophenols containing halogens. Great Lakes Fish. Comm., Tech. Rep. 11:1-19.

APPLEGATE, VERNON C., AND EVERETT L. KING, JR.

1962. Comparative toxicity of 3-trifluormethyl-4-nitrophenol (TFM) to larval lampreys and eleven species of fishes. Trans. Am. Fish. Soc. 91(4):342-345.

APPLEGATE, VERNON C., PAUL T. MACY, AND VIRGIL E. HARRIS.

1954. Selected bibliography on the applications of electricity in fishery science. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 127. 55 pp.

APPLEGATE, VERNON C., AND JAMES W. MOFFETT.

1955. Sea lamprey and lake trout. Pages 9-16 in Scientific American editors, First book of animals. Simon and Schuster, New York.

1955. The sea lamprey. Sci. Am. 192(4):36-41.

APPLEGATE, VERNON C., AND BERNARD R. SMITH.

1950. Sea lamprey spawning runs in the Great Lakes in 1950. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 61. 49 pp.

1951. Movement and dispersion of a blocked spawning run of sea lampreys in the Great Lakes. Trans. North Am. Wildl. Conf. 16:243-251.

APPLEGATE, VERNON C., BERNARD R. SMITH, ALBERTON L. McLAIN, AND MATT PATTERSON.

1952. Sea lamprey spawning runs in the Great Lakes, 1951. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 68. 37 pp.

APPLEGATE, VERNON C., BERNARD R. SMITH, AND WILLIS L. NIELSEN.

1952. Use of electricity in the control of sea lampreys: electromechanical weirs and traps and electrical barriers. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 92. 52 pp.

APPLEGATE, VERNON C., MANNING A. SMITH, AND BENNETT R. WILLEFORD.

1967. Molecular characteristics versus biological activity. Chemistry 40(9):28-30.

APPLEGATE, VERNON C., AND M. L. H. THOMAS.

1965. Sex ratios and sexual dimorphism among recently transformed sea lampreys, *Petromyzon marinus* Linnaeus. J. Fish. Res. Board Can. 22(3):695-711.

APPLEGATE, VERNON C., AND HARRY D. VAN METER.

1970. A brief history of commercial fishing in Lake Erie. U.S. Fish Wildl. Serv., Fish. Leaf. 630. 28 pp.

ARON, WILLIAM I., AND STANFORD H. SMITH.

1971. Ship canals and aquatic ecosystems. Science 174(4004):13-20.

BAILEY, MERRYL M.

1963. Age, growth, and maturity of round whitefish of the Apostle Islands and Isle Royale regions, Lake Superior. U.S. Fish Wildl. Serv., Fish. Bull. 63(1):63-75.

1964. Age, growth, maturity, and sex composition of the American smelt, *Osmerus mordax* (Mitchill), of western Lake Superior. Trans. Am. Fish. Soc. 93(4):382-395.

1965. Lake trout fin-clipping rates at two national fish hatcheries. Prog. Fish-Cult. 27(3):169-170.

1969. Age, growth, and maturity of the longnose sucker, *Catostomus catostomus*, of western Lake Superior. J. Fish. Res. Board Can. 26(5):1289-1299.

1972. Age, growth, reproduction, and food of the burbot, *Lota lota* (Linnaeus), in southwestern Lake Superior. Trans. Am. Fish. Soc. 101(4):667-674.

BEETON, ALFRED M.

1958. Relationship between Secchi disc readings and light penetration in Lake Huron. Trans. Am. Fish. Soc. 87:73-79.

1959. Photoreception in the opossum shrimp, *Mysis relicta* Lovén. Biol. Bull. (Woods Hole) 116(2):204-216.

1960. Great Lakes limnological investigations. Proc. Conf. Great Lakes Res. 3 (Univ. Mich., Great Lakes Res. Div., Publ. 4): 123-128.

1960. The vertical migration of *Mysis relicta* in Lakes Huron and Michigan. J. Fish. Res. Board Can. 17(4):517-539.

1961. Environmental changes in Lake Erie. Trans. Am. Fish. Soc. 90(2):153-159.

1962. Light penetration in the Great Lakes. Proc. Conf. Great Lakes Res. 5 (Univ. Mich., Great Lakes Res. Div., Publ. 9):68-76.

1963. Limnological survey of Lake Erie 1959 and 1960. Great Lakes Fish. Comm., Tech. Rep. 6. 32 pp.

1965. Eutrophication of the St. Lawrence Great Lakes. Limnol. Oceanogr. 10(2):240-254.

BEETON, A. M., J. F. CARR, AND J. K. HILTUNEN.

1965. Sampling efficiencies of three kinds of dredges in southern Lake Michigan. Proc. Conf. Great Lakes Res. 8 (Univ. Mich., Great Lakes Res. Div., Publ. 13):209. (Abstr.)

BEETON, ALFRED M., AND DAVID C. CHANDLER.

1963. The St. Lawrence Great Lakes. Pages 535-558 in David G. Frey, ed. Limnology in North America. University of Wisconsin Press, Madison.

BEETON, ALFRED M., AND FRANK F. HOOPER.

1961. The hydrography of Saginaw Bay. Proc. Conf. Great Lakes Res. 4 (Univ. Mich., Great Lakes Res. Div., Publ. 7):111. (Abstr.)

BEETON, ALFRED M., JAMES H. JOHNSON, AND STANFORD H. SMITH.

1959. Lake Superior limnological data, 1951-1957. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 297. 177 pp.

BEETON, ALFRED M., AND JAMES W. MOFFETT.

1964. Lake Michigan chemical data, 1954-55, 1960-61. U.S. Fish Wildl. Serv., Data Rep. 6. 3 microfiches; 102 pp.

BEETON, ALFRED M., JAMES W. MOFFETT, AND DANA C. PARKER.

1969. Comparison of thermal data from airborne and vessel surveys of Lake Erie. Proc. Conf. Great Lakes Res. (Int. Assoc. Great Lakes Res.) 12:513-528.

BEETON, ALFRED M., STANFORD H. SMITH, AND FRANK F. HOOPER.

1967. Physical limnology of Saginaw Bay, Lake Huron. Great Lakes Fish. Comm., Tech. Rep. 12. 56 pp.

BILLY, THOMAS J., STACY L. DANIELS, LLOYD L. KEMPE, AND ALFRED M. BEETON.

1965. Field application of methods for recovery of the selective lampicide, 3-trifluoromethyl-4-nitrophenol. Proc. Conf. Great Lakes Res. 8 (Univ. Mich., Great Lakes Res. Div., Publ. 13):17-24.

BODOLA, ANTHONY.

1966. Life history of the gizzard shad, *Dorosoma cepedianum* (Le Sueur), in western Lake Erie. U.S. Fish Wildl. Serv., Fish. Bull. 65(2):391-425.

BRAEM, ROBERT A., AND WESLEY J. EBEL.

1961. A back-pack shocker for collecting lamprey ammocoetes. Prog. Fish-Cult. 23(2):87-91.

BROWN, EDWARD H., JR.

1968. Population characteristics and physical condition of alewives, *Alosa pseudoharengus*, in a massive dieoff in Lake Michigan, 1967. Great Lakes Fish. Comm., Tech. Rep. 13. 20 pp.

1970. Extreme female predominance in the bloater (*Coregonus hoyi*) of Lake Michigan in the 1960's. Pages 501-514 in C.C. Lindsey and C.S. Woods, eds. Biology of coregonid fishes. University of Manitoba Press, Winnipeg.

1972. Population biology of alewives, *Alosa pseudoharengus*, in Lake Michigan, 1949-70. J. Fish. Res. Board Can. 29(5):477-500.

BROWN, EDWARD H., JR., AND CLARENCE F. CLARK.

1965. Length-weight relationship of northern pike, *Esox lucius*, from East Harbor, Ohio. Trans. Am. Fish. Soc. 94(4):404-405.

BROWN, EDWARD H., JR., AND CARROLL R. NORDEN.

1970. Fin degeneration of young-of-the-year *Alosa pseudoharengus* (Clupeidae) in southern Lake Michigan. Copeia 1970(4):766-769.

BUETTNER, HOWARD J.

1961. Recoveries of tagged, hatchery-reared lake trout from Lake Superior. Trans. Am. Fish. Soc. 90(4):404-412.

CABLE, LOUELLA E.

1950. A cheek tag for marking fish, with semi-automatic pliers for application of tag. J. Cons. Cons. Int. Explor. Mer 16(2):185-191.

1956. Validity of age determination from scales, and growth of marked Lake Michigan lake trout. U.S. Fish Wildl. Serv., Fish. Bull. 57:1-59.

1966. Plankton. U.S. Fish Wildl. Serv., Fish. Leafl. 583. 13 pp.

1971. Inland fisheries. Pages 324-358 in Sidney Shapiro, ed. Our changing fisheries. U.S. Department of Commerce, National Marine Fisheries Service, Washington, D.C.

CABLE, LOUELLA E., AND RICHARD H. VAN HAAGEN.

1967. Digital caliper. Copeia 1967(3):683-685.

CARR, IRA A.

1962. Distribution and seasonal movements of Saginaw Bay fishes. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 417. 13 pp.

CARR, JOHN F.

1962. Dissolved oxygen in Lake Erie, past and present. Proc. Conf. Great Lakes Res. 5 (Univ. Mich., Great Lakes Res. Div., Publ. 9):1-14.

CARR, JOHN F., VERNON C. APPLEGATE, AND MYRL KELLER.

1965. A recent occurrence of thermal stratification and low dissolved oxygen in western Lake Erie. Ohio J. Sci. 65(6):319-327.

CARR, JOHN F., AND JARL K. HILTUNEN.

1965. Changes in the bottom fauna of western Lake Erie from 1930 to 1961. Limnol. Oceanogr. 10(4): 551-569.

COLBY, PETER J.

1971. Alewife dieoffs: Why do they occur? Limnos 4(2):18-27.

1971. Review of *Fish and invertebrate culture*, by Stephen H. Spotte. Trans. Am. Fish. Soc. 100(3): 598-599.

COLBY, PETER J., AND LARRY T. BROOKE.

1969. Cisco (*Coregonus artedii*) mortalities in a southern Michigan lake, July 1968. Limnol. Oceanogr. 14(6):958-960.

1970. Survival and development of lake herring (*Coregonus artedii*) eggs at various incubation temperatures. Pages 417-428 in C.C. Lindsey and C.S. Woods, eds. Biology of coregonid fishes. University of Manitoba Press, Winnipeg.

COLBY, PETER J., AND GEORGE N. WASHBURN.

1972. Feeding behavior of lake whitefish and lake herring in Torch Lake, Michigan. Prog. Fish-Cult. 34(3):151.

CROWE, WALTER R., ERNEST KARVELIS, AND LEONARD S. JOERIS.

1963. The movement, heterogeneity, and rate of exploitation of walleyes in northern Green Bay, Lake Michigan, as determined by tagging. North Atlantic Fish Marking Symposium, Int. Comm. Northwest Atl. Fish., Spec. Publ. 4:38-41.

DAHL, FREDERICK H.

1968. A surface tow net for collection of parasitic-phase sea lampreys. Prog. Fish-Cult. 30(3):183-184.

DANIELS, STACY L., LLOYD L. KEMPE, THOMAS J. BILLY, AND ALFRED M. BEETON.

1965. Detection and measurement of organic lampricide residues. Great Lakes Fish. Comm., Tech. Rep. 9. 18 pp.

DANIELS, S. L., L. L. KEMPE, E. S. GRAHAM, AND A. M. BEETON.

1963. Quantitation of microorganic compounds in waters of the Great Lakes by adsorption on activated carbon. Proc. Conf. Great Lakes Res. 6 (Univ. Mich., Great Lakes Res. Div., Publ. 10): 118-123.

DEASON, HILARY J.

1932. A study of surface currents in Lake Michigan. The Fisherman (Grand Haven, Mich.) 1(5):3-4, 12.

1932. Scientific investigation of chubnet fishing in Lake Michigan. The Fisherman (Grand Haven, Mich.) 1(4):3-4, 11-12.

1933. Feeding adaptations in fishes. The Fisherman (Grand Haven, Mich.) 2(7):3-4, 10-11.

1933. Geological formation of Great Lakes. The Fisherman (Grand Haven, Mich.) 2(3):3-4, 10.

1933. Preliminary report on the growth rate, dominance, and maturity of the pike-perches (*Stizostedion*) of Lake Erie. Trans. Am. Fish. Soc. 63:348-360.

1934. The development of fishes: tracing the natural developments from egg to fry. The Fisherman (Grand Haven, Mich.) 3(11):1, 3.

1935. Some general considerations of plankton and plankton problems with reference to water supplies. Pages 5-14 in John Hepler and Frank R. Theroux, eds. Papers presented at ninth annual Michigan conference on water purification. Mich. State Coll. Eng. Exp. Sta., Bull. 10(4).

1936. Bottles set adrift on Lake Michigan yield information on surface currents. Mich. Conserv. 6 (6):9.

1936. Upper Peninsula once bed of great inland sea. Mich. Conserv. 6(4):7, 11.

1939. The distribution of cottid fishes in Lake Michigan. Pap. Mich. Acad. Sci. Arts Lett. 24(Part 2):105-115.

DEASON, HILARY J., AND RALPH HILE.

1947. Age and growth of the kiyi *Leucichthys kiyi* Koelz, in Lake Michigan. Trans. Am. Fish. Soc. 74:88-142.

DEGRAEVE, G. M.

1970. Three types of burrowing behavior of the brook stickleback, *Culaea inconstans*. Trans. Am. Fish. Soc. 99(2):433.

DRYER, WILLIAM R.

1963. Age and growth of the whitefish in Lake Superior. U.S. Fish Wildl. Serv., Fish. Bull. 63(1): 77-95.

1964. Movements, growth, and rate of recapture of whitefish tagged in the Apostle Islands area of Lake Superior. U.S. Fish Wildl. Serv., Fish. Bull. 63(3):611-618.

1966. Bathymetric distribution of fish in the Apostle Islands region, Lake Superior. Trans. Am. Fish. Soc. 95(3):248-259.

DRYER, WILLIAM R., AND JOSEPH BEIL.

1964. Life history of lake herring in Lake Superior. U.S. Fish Wildl. Serv., Fish. Bull. 63(3):493-530.

1968. Growth changes of the bloater (*Coregonus hoyi*) of the Apostle Islands region of Lake Superior. Trans. Am. Fish. Soc. 97(2):146-158.

DRYER, WILLIAM R., LEO F. ERKKILA, AND CLIFFORD L. TETZLOFF.

1965. Food of lake trout in Lake Superior. Trans. Am. Fish. Soc. 94(2):169-176.

DRYER, WILLIAM R., AND GEORGE R. KING.

1968. Rehabilitation of lake trout in the Apostle Islands region of Lake Superior. J. Fish. Res. Board Can. 25(7):1377-1403.

DUDEN, WILLIAM R.

1933. Recent advances in the fishing industry. The Fisherman (Grand Haven, Mich.) 2(10):3-4, 10-11; 2(12):3-4, 10.

EBEL, WESLEY J.

1962. A photoelectric amplifier as a dye detector. Great Lakes Fish. Comm., Tech. Rep. 4:19-26.

EDSALL, THOMAS A.

1960. Age and growth of the whitefish, *Coregonus clupeaformis*, of Munising Bay, Lake Superior. Trans. Am. Fish. Soc. 89(4):323-332.

1964. Feeding by three species of fishes on the eggs of spawning alewives. Copeia 1964(1):226-227.

1967. Biology of the freshwater drum in western Lake Erie. Ohio J. Sci. 67(6):321-340.

1970. A hermaphroditic coregonine from Lake Michigan. Trans. Am. Fish. Soc. 99(3):511.

1970. The effect of temperature on the rate of development and survival of alewife eggs and larvae. Trans. Am. Fish. Soc. 99(2):376-380.

EDSALL, THOMAS A., AND PETER J. COLBY.

1970. Temperature tolerance of young-of-the-year cisco, *Coregonus artedii*. Trans. Am. Fish. Soc. 99(3):526-531.

EDSALL, THOMAS A., DONALD V. ROTTIERS, AND EDWARD H. BROWN.

1970. Temperature tolerance of bloater (*Coregonus hoyi*). J. Fish. Res. Board Can. 27(11):2047-2052.

EDSALL, THOMAS A., AND MARGARET I. SAXON.

1968. Two hermaphroditic alewives from Lake Michigan. Copeia 1968(2):406-407.

ERKKILA, LEO F.

1962. Lamprey control and research in the United States. Pages 25-39 in Great Lakes Fishery Commission annual report for 1962.

1964. Lamprey control and research in the United States. Pages 30-41 in Great Lakes Fishery Commission annual report for 1963.

ERKKILA, LEO F., BERNARD R. SMITH, AND ALBERTON L. McLAIN.

1956. Sea lamprey control on the Great Lakes 1953 and 1954. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 175. 27 pp.

ESCHMEYER, PAUL H.

1953. The effect of ether anesthesia on fin-clipping rate. *Prog. Fish-Cult.* 15(2):80-82.

1955. The reproduction of lake trout in southern Lake Superior. *Trans. Am. Fish. Soc.* 84:47-74.

1956. The early life history of the lake trout in Lake Superior. *Mich. Dep. Conserv., Inst. Fish. Res., Misc. Publ.* 10. 31 pp.

1957. Note on the subpopulations of lake trout in the Great Lakes. Page 129 in *Contributions to the study of subpopulations of fishes* (John C. Marr, coordinator). U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 208.

1957. The lake trout (*Salvelinus namaycush*). U.S. Fish Wildl. Serv., Fish. Leafl. 441. 11 pp.

1957. The near extinction of lake trout in Lake Michigan. *Trans. Am. Fish. Soc.* 85:102-119.

1959. Survival and retention of tags, and growth of tagged lake trout in a rearing pond. *Prog. Fish-Cult.* 21(1):17-21.

1964. The lake trout (*Salvelinus namaycush*). U.S. Fish Wildl. Serv., Fish Leafl. 555. 8 pp.

ESCHMEYER, PAUL H., AND REEVE M. BAILEY.

1955. The pygmy whitefish, *Coregonus coulteri*, in Lake Superior. *Trans. Am. Fish. Soc.* 84:161-199.

ESCHMEYER, PAUL H., AND WALTER R. CROWE.

1955. The movement and recovery of tagged walleyes in Michigan, 1929-1953. *Mich. Dep. Conserv., Inst. Fish. Res., Misc. Publ.* 8. 32 pp.

ESCHMEYER, PAUL H., RUSSELL DALY, AND LEO F. ERKKILA.

1953. The movement of tagged lake trout in Lake Superior, 1950-1952. *Trans. Am. Fish. Soc.* 82: 68-77. Summary in *The Fisherman* (Grand Haven, Mich.) 21(3):4, 11.

ESCHMEYER, PAUL H., AND ARTHUR M. PHILLIPS, JR.

1965. Fat content of the flesh of siscowets and lake trout from Lake Superior. *Trans. Am. Fish. Soc.* 94(1):62-74.

GALLAGHER, HUBERT R., A. G. HUNTSMAN, D. J. TAYLOR, AND JOHN VAN OOSTEN.

1943. Report of the International Board of Inquiry for the Great Lakes Fisheries. Pages 1-24 in *Int. Board Inq. Great Lakes Fish., Rep. Suppl.*

GALLAGHER, HUBERT R., AND JOHN VAN OOSTEN.

1943. Supplemental report of the United States members of the International Board of Inquiry for the Great Lakes Fisheries. Pages 25-213 in *Int. Board Inq. Great Lakes Fish., Rep. Suppl.*

GAYLORD, WILLIAM E., AND BERNARD R. SMITH.

1966. Treatment of East Bay, Alger County, Michigan, with toxaphene for control of sea lampreys. *U.S. Bur. Sport Fish. Wildl. Invest. Fish Control* 7 (Resour. Publ. 11). 7 pp.

GORDON, WILLIAM G.

1961. Food of the American smelt in Saginaw Bay, Lake Huron. *Trans. Am. Fish. Soc.* 90(4):439-443.

GROSSLEIN, MARVIN D., AND LLOYD L. SMITH, JR.

1959. The goldeye, *Amphiodon alosoides* (Rafinesque), in the commercial fishery of the Red Lakes, Minnesota. *U.S. Fish Wildl. Serv., Fish. Bull.* 60:33-41.

HALL, A. E., JR., AND OLIVER R. ELLIOTT.

1954. Relationship of length of fish to incidence of sea lamprey scars on white suckers, *Catostomus commersoni*, in Lake Huron. *Copeia* 1954(1):73-74.

HARRY, GEORGE Y., JR.

1969. Pacific salmon. Pages 588-594 in *Frank E. Firth, ed. The encyclopedia of marine resources*. Van Nostrand Reinhold Co., New York.

HARTMAN, WILBUR L.

1970. Resource crises in Lake Erie. *Explorer* 12(1): 6-11.

1972. Lake Erie: effects of exploitation, environmental changes and new species on the fishery resources. *J. Fish. Res. Board Can.* 29(6):899-912.

HARTMAN, W. L., AND R. L. BURGNER.

1972. Limnology and fish ecology of sockeye salmon nursery lakes of the world. *J. Fish. Res. Board Can.* 29(6):699-715.

HIGGINS, ELMER.

1928. Conference of Lake Erie biologists. *Science* 67(1734):309-310.

1928. Cooperative fishery investigations in Lake Erie. *Sci. Mon.* 27(4):301-306.

1929. Can the Great Lakes fisheries be saved? *Outdoor Am.* 7(8):34-35.

1938. Fish outlive officials. *State Gov.* 11(3):53-54, 58.

1938. The ineffectiveness of regulation of the Great Lakes fisheries by the individual states. Pages 48-60 in *Proc. Great Lakes Fish. Conf., Counc. State Gov.*

HIGHAM, JOSEPH R., JR.

1966. Preparation of dart tags for use in the field. *Prog. Fish-Cult.* 28(4):205.

HILE, RALPH.

1932. Fish scales and commercial fisheries. *The Fisherman* (Grand Haven, Mich.) 1(10):3-4, 10.

1934. Causes of variation in the growth rates of fishes. *The Fisherman* (Grand Haven, Mich.) 3 (2):3-4, 10-11.

1935. Daily reports reveal new facts and figures. *The Fisherman* (Grand Haven, Mich.) 4(12): 1-2.

1936. Age and growth of the cisco, *Leucichthys artedi* (Le Sueur), in the lakes of the northeastern highlands, Wisconsin. *U.S. Bur. Fish. Bull.* 48: 211-317.

1936. Age determination of fish from scales; method and application to fish cultural problems. *Prog. Fish-Cult.* No. 23:1-5.

1936. Low production may not mean depletion. *The Fisherman* (Grand Haven, Mich.) 5(2):1-2.

1936. Summary of investigations on the morphometry of the cisco, *Leucichthys artedi* (Le Sueur) in the lakes of the northeastern highlands, Wisconsin. *Pap. Mich. Acad. Sci. Arts Lett.* 21:619-634.

1937. Morphometry of the cisco, *Leucichthys artedi* (Le Sueur), in the lakes of the northeastern high

**HILE, RALPH.**

lands, Wisconsin. Int. Rev. gesamten Hydrobiol. Hydrogr. 36(1/2):57-130.

1937. The increase in the abundance of the yellow pike-perch, *Stizostedion vitreum* (Mitchill), in Lakes Huron and Michigan, in relation to the artificial propagation of the species. Trans. Am. Fish. Soc. 66:143-159.

1941. Age and growth of the rock bass, *Ambloplites rupestris* (Rafinesque), in Nebish Lake, Wisconsin. Trans. Wis. Acad. Sci. Arts Lett. 33:189-337.

1942. Growth of the rock bass, *Ambloplites rupestris* (Rafinesque), in five lakes of northeastern Wisconsin. Trans. Am. Fish. Soc. 71:131-143.

1943. Mathematical relationship between the length and age of the rock bass, *Ambloplites rupestris* (Rafinesque). Pap. Mich. Acad. Sci. Arts Lett. 28:331-341.

1948. Standardization of methods of expressing lengths and weights of fish. Trans. Am. Fish. Soc. 75:157-164.

1949. Structure and senses of fish. U.S. Fish Wildl. Serv., Fish. Leafl. 132. 13 pp. Reprinted 1960 and 1963.

1949. Trends in the lake trout fishery of Lake Huron through 1946. Trans. Am. Fish. Soc. 76:121-147.

1950. A nomograph for the computation of the growth of fish from scale measurements. Trans. Am. Fish. Soc. 78:156-162.

1950. Green Bay walleyes: a report on the scientific investigation of the marked increase in abundance of walleyes in Green Bay. The Fisherman (Grand Haven, Mich.) 18(3):5-6.

1952. Changes in the lake trout fishery in the three upper lakes. The Fisherman (Grand Haven, Mich.) 20(6):5, 8.

1952. Fishing regulations. The Fisherman (Grand Haven, Mich.) 20(3):5, 12, 14.

1952. 25 years of Federal fishery research on the Great Lakes. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 85. 48 pp.

1953. Perch studies in Green Bay. Prog. Fish-Cult. 15(3):133-134.

1953. Trout fishing in Michigan waters of Lake Superior, 1952. The Fisherman (Grand Haven, Mich.) 21(5):7, 11-12, 14.

1954. Changing concepts in fishery research on the Great Lakes. Proc. Gulf Caribb. Fish. Inst. 6: 64-70.

1954. Fluctuations in growth and year-class strength of the walleye in Saginaw Bay. U.S. Fish Wildl. Serv., Fish. Bull. 56:7-59.

1954. Status and future of the American Fisheries Society. Trans. Am. Fish. Soc. 83:357-359.

1955. The walleye problem in Green Bay. Prog. Fish-Cult. 17(1):44.

1957. U.S. Federal fishery research on the Great Lakes through 1956. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 226. 46 pp.

1962. Collection and analysis of commercial fishery statistics in the Great Lakes. Great Lakes Fish. Comm., Tech. Rep. 5. 31 pp.

1966. U.S. Federal research on fisheries and limnology in the Great Lakes through 1964: an annotated bibliography. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 528. 53 pp.

1970. Body-scale relation and calculation of growth in fishes. Trans. Am. Fish. Soc. 99(3):468-474.

1971. No read—no write. Trans. Am. Fish. Soc. 100(2):394-395.

**HILE, RALPH, AND HOWARD J. BUETTNER.**

1955. Commercial fishery for chubs (ciscoes) in Lake Michigan through 1953. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 163. 49 pp.

1959. Fluctuations in the commercial fisheries of Saginaw Bay, 1885-1956. U.S. Fish Wildl. Serv., Res. Rep. 51. 38 pp.

**HILE, RALPH, AND HILARY J. DEASON.**

1934. Growth of the whitefish, *Coregonus clupeaformis* (Mitchill), in Trout Lake, northeastern highlands, Wisconsin. Trans. Am. Fish. Soc. 64: 231-237.

1947. Distribution, abundance, and spawning season and grounds of the kiyi, *Leucichthys kiyi* Koelz, in Lake Michigan. Trans. Am. Fish. Soc. 74:143-165.

**HILE, RALPH, AND WILLIAM R. DUDEN.**

1933. Methods for the investigation of the statistics of the commercial fisheries of the Great Lakes. Trans. Am. Fish. Soc. 63:292-305.

**HILE, RALPH, PAUL H. ESCHMEYER, AND GEORGE F. LUNGER.**

1951. Decline of the lake trout fishery in Lake Michigan. U.S. Fish Wildl. Serv., Fish. Bull. 52: 77-95. Summary in The Fisherman (Grand Haven, Mich.) 19(1):5, 10.

1951. Status of the lake trout fishery in Lake Superior. Trans. Am. Fish. Soc. 80:278-312. Summary in The Fisherman (Grand Haven, Mich.) 19(3):5, 13.

**HILE, RALPH, AND FRANK W. JOBES.**

1941. Age, growth, and production of the yellow perch, *Perca flavescens* (Mitchill), of Saginaw Bay. Trans. Am. Fish. Soc. 70:102-122.

1942. Age and growth of the yellow perch, *Perca flavescens* (Mitchill), in the Wisconsin waters of Green Bay and northern Lake Michigan. Pap. Mich. Acad. Sci. Arts Lett. 27:241-266.

**HILE, RALPH, AND CHANCEY JUDAY.**

1941. Bathymetric distribution of fish in lakes of the northeastern highlands, Wisconsin. Trans. Wis. Acad. Sci. Arts Lett. 33:147-187.

**HILE, RALPH, GEORGE F. LUNGER, AND HOWARD J. BUETTNER.**

1953. Fluctuations in the fisheries of State of Michigan waters of Green Bay. U.S. Fish Wildl. Serv., Fish. Bull. 54:1-34.

**HILTUNEN, JARL K.**

1965. Distribution and abundance of the polychaete *Manayunkia speciosa* Leidy, in western Lake Erie. Ohio J. Sci. 65(4):183-185.

HILTUNEN, JARL K.

- 1967. Some oligochaetes from Lake Michigan. *Trans. Am. Microsc. Soc.* 86(4):433-454.
- 1969. Distribution of oligochaetes in western Lake Erie, 1961. *Limnol. Oceanogr.* 14(2):260-264.
- 1969. Invertebrate macrobenthos of western Lake Superior. *Mich. Acad. 1(3 and 4):123-133.*
- 1969. The benthic macrofauna of Lake Ontario. Pages 39-50 in *Limnological survey of Lake Ontario, 1964. Great Lakes Fish. Comm., Tech. Rep. 14.*
- 1971. Limnological data from Lake St. Clair, 1963 and 1965. U.S. Natl. Mar. Fish. Serv., Data Rep. 54. 1 microfiche; 45 pp.

HODGES, JOHN W.

- 1972. Downstream migration of recently transformed sea lampreys before and after treatment of a Lake Michigan tributary with a lampricide. *J. Fish. Res. Board Can.* 29(8):1237-1240.

HOGMAN, WALTER J.

- 1968. Annulus formation on scales of four species of coregonids reared under artificial conditions. *J. Fish. Res. Board Can.* 25(10):2111-2122.

HOLLAND, RUTH E.

- 1965. The distribution and abundance of planktonic diatoms in Lake Superior. *Proc. Conf. Great Lakes Res.* 8 (Univ. Mich., Great Lakes Res. Div., Publ. 13):96-105.
- 1969. Seasonal fluctuations of Lake Michigan diatoms. *Limnol. Oceanogr.* 14(3):423-436.

HOWELL, JOHN H.

- 1966. The life cycle of the sea lamprey and a toxicological approach to its control. Pages 263-270 in Richard T. Smith, Peter A. Miescher, and Robert A. Goode, eds. *Phylogeny of immunity*. University of Florida Press, Gainesville.

HOWELL, JOHN H., EVERETT L. KING, JR., ALLEN J. SMITH, AND LEE H. HANSON.

- 1964. Synergism of 5,2'-dichloro-4'-nitrophenol and 3-trifluormethyl-4-nitrophenol in a selective lamprey larvicide. *Great Lakes Fish. Comm., Tech. Rep.* 8. 21 pp.

HOWELL, JOHN H., AND WILLMAN M. MARQUETTE.

- 1962. Use of mobile bioassay equipment in the chemical control of sea lamprey. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 418. 9 pp.

HOWELL, JOHN H., AND PAUL M. THOMAS.

- 1964. Anesthetic effect of 4-styrylpyridine on lamprey and fish. *Trans. Am. Fish. Soc.* 93(2):206-208.

JACOBY, CARL.

- 1961. Relative growth of fins in the fourhorn sculpin, *Myoxocephalus quadricornis*, from the upper Great Lakes. *Copeia* 1961(4):473-475.

JOBES, FRANK W.

- 1932. Deep trapnets on Lakes Huron and Michigan. *The Fisherman (Grand Haven, Mich.)* 1(3):3-4.
- 1933. Preliminary report on the age and growth of the yellow perch (*Perca flavescens* Mitchell) from Lake Erie, as determined from a study of its scales. *Pap. Mich. Acad. Sci. Arts Lett.* 17:643-652.

- 1943. The age, growth, and bathymetric distribution of Reighard's chub, *Leucichthys reighardi* Koelz, in Lake Michigan. *Trans. Am. Fish. Soc.* 72:108-135.
- 1949. The age, growth, and bathymetric distribution of the bloater, *Leucichthys hoyi* (Gill), in Lake Michigan. *Pap. Mich. Acad. Sci. Arts Lett.* 33:135-172.
- 1949. The age, growth, and distribution of the longjaw cisco, *Leucichthys alpenae* Koelz, in Lake Michigan. *Trans. Am. Fish. Soc.* 76:215-247.
- 1952. Age, growth, and production of yellow perch in Lake Erie. *U.S. Fish Wildl. Serv., Fish. Bull.* 52:205-266.

JOERIS, LEONARD S.

- 1953. Technique for the application of a streamer-type fish tag. *Trans. Am. Fish. Soc.* 82:42-47.
- 1957. Structure and growth of scales of yellow perch of Green Bay. *Trans. Am. Fish. Soc.* 86:169-194.
- 1959. Rapid measurement of fish. *Prog. Fish-Cult.* 21(4):190-191.
- 1964. A horizontal sampler for collection of water samples near the bottom. *Limnol. Oceanogr.* 9(4):595-598.
- 1965. Automatic feeder for small fish held in tanks. *Prog. Fish-Cult.* 27(3):173-174.

JOHNSON, JAMES H.

- 1958. Surface-current studies of Saginaw Bay and Lake Huron, 1956. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 267. 84 pp.
- 1960. Surface currents in Lake Michigan, 1954 and 1955. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 338. 120 pp.

KANAYAMA, RICHARD K.

- 1963. The use of alkalinity and conductivity measurements to estimate concentrations of 3-trifluoromethyl-4-nitrophenol required for treating lamprey streams. *Great Lakes Fish. Comm., Tech. Rep.* 7. 10 pp.

KARVELIS, ERNEST G.

- 1964. The true pikes. *U.S. Fish Wildl. Serv., Fish. Leafl.* 569. 11 pp.

KEMPE, L. L., STACY DANIELS, AND ALFRED M. BEETON.

- 1962. Microorganic constituents of water of the Great Lakes. *Proc. Conf. Great Lakes Res.* 5 (Univ. Mich., Great Lakes Res. Div., Publ. 9):172-173. (Abstr.)

KOELZ, WALTER.

- 1928. Fisheries of the Great Lakes: general review. Pages 660-662 in Elmer Higgins, *Progress in biological inquiries, 1926. Rep. U.S. Comm. Fish. for 1927.*
- 1929. Coregonid fishes of the Great Lakes. *U.S. Bur. Fish., Bull.* 43 (part 2):297-643.
- 1931. The coregonid fishes of northeastern America. *Pap. Mich. Acad. Sci. Arts Lett.* 13:303-432.

LENNON, ROBERT E.

- 1954. Feeding mechanism of the sea lamprey and its effect on host fishes. *U.S. Fish Wildl. Serv., Fish. Bull.* 56:247-293.

LENNON, ROBERT E.  
1955. Artificial propagation of the sea lamprey, *Petromyzon marinus*. *Copeia* 1955(3):235-236.

LOEB, HOWARD A.  
1953. Sea lamprey spawning: Wisconsin and Minnesota streams of Lake Superior. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 97. 36 pp.

LOEB, HOWARD A., AND ALBERT E. HALL, JR.  
1952. Sea lamprey spawning: Michigan streams of Lake Superior. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 70. 68 pp.

LUCAS, HENRY F., JR., DAVID N. EDGINGTON, AND PETER J. COLBY.  
1970. Concentrations of trace elements in Great Lakes fishes. *J. Fish. Res. Board Can.* 27(4):677-684.

MAGNUSON, JOHN L., AND LLOYD L. SMITH.  
1963. Some phases of the life history of the trout-perch. *Ecology* 44(1):83-95.

MANION, PATRICK J.  
1967. Diatoms as food of larval sea lampreys in a small tributary of northern Lake Michigan. *Trans. Am. Fish. Soc.* 96(2):224-226.  
1967. Morphological abnormalities among lampreys. *Copeia* 1967(3):680-681.  
1968. Production of sea lamprey larvae from nests in two Lake Superior streams. *Trans. Am. Fish. Soc.* 97(4):484-486.  
1969. Evaluation of lamprey larvicides in the Big Garlic River and Saux Head Lake. *J. Fish. Res. Board Can.* 26(11):3077-3082.  
1972. Fecundity of the sea lamprey (*Petromyzon marinus*) in Lake Superior. *Trans. Am. Fish. Soc.* 101(4):718-720.

MANION, PATRICK J., AND ALBERTON L. McLAIN.  
1971. Biology of larval sea lampreys (*Petromyzon marinus*) of the 1960 year class, isolated in the Big Garlic River, Michigan, 1960-65. *Great Lakes Fish. Comm., Tech. Rep.* 16. 35 pp.

MANION, PATRICK J., AND HAROLD A. PURVIS.  
1971. Giant American brook lampreys, *Lampetra lamottei*, in the upper Great Lakes. *J. Fish. Res. Board Can.* 28(4):616-620.

MANION, PATRICK J., AND THOMAS M. STAUFFER.  
1970. Metamorphosis of the landlocked sea lamprey, *Petromyzon marinus*. *J. Fish. Res. Board Can.* 27(10):1735-1746.

MARSHALL, J. S., A. M. BEETON, AND D. C. CHANDLER.  
1964. Role of zooplankton in the freshwater strontium cycle and influence of dissolved salts. *Int. Ver. Theor. Angew. Limnol. Verh.* 15:665-672.

McLAIN, ALBERTON L.  
1952. Diseases and parasites of the sea lamprey, *Petromyzon marinus*, in the Lake Huron basin. *Trans. Am. Fish. Soc.* 81:94-100.  
1957. The control of the upstream movement of fish with pulsated direct current. *Trans. Am. Fish. Soc.* 86:269-284.

McLAIN, ALBERTON L., AND FREDERICK H. DAHL.  
1968. An electric beam trawl for the capture of larval lampreys. *Trans. Am. Fish. Soc.* 97(3):289-293.

McLAIN, ALBERTON L., AND PATRICK J. MANION.  
1967. An all-season trap for downstream-migrating fish and other aquatic organisms. *Prog. Fish-Cult.* 29(2):114-117.

McLAIN, ALBERTON L., AND WILLIS L. NIELSEN.  
1953. Directing the movement of fish with electricity. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 93. 24 pp.

McLAIN, ALBERTON L., BERNARD R. SMITH, AND HARRY H. MOORE.  
1965. Experimental control of sea lampreys with electricity on the south shore of Lake Superior, 1953-60. *Great Lakes Fish. Comm., Tech. Rep.* 10. 48 pp.

MERNA, JAMES W.  
1962. Quantitative sampling with the orange-peel dredge. *Limnol. Oceanogr.* 7(3):432-433.

MOFFETT, JAMES W.  
1950. Progress report on the sea lamprey program. *The Fisherman* (Grand Haven, Mich.) 18(7):5, 8.  
1950. Sea lamprey control. *Mich. Conserv.* 19(4):18-20.  
1952. The study and interpretation of fish scales. *Sci. Counsel.* 15(2):40-42.  
1953. Lake fisheries need lamprey control and research. *The Fisherman* (Grand Haven, Mich.) 21(4):10-11, 14.  
1953. [Report of] Committee on Hydrobiology and Fish Culture [of the American Fisheries Society]. *Trans. Am. Fish. Soc.* 82:315-320.  
1954. A research program [for Lake Erie]. *The Fisherman* (Grand Haven, Mich.) 22(1):7, 11-12, 14.  
1954. Fisheries knowledge increased through research vessel. *The Fisherman* (Grand Haven, Mich.) 22(3):7, 13-14.  
1954. Killers of the Great Lakes. Pages 125-127 in *The book of knowledge annual, 1954*. The Grolier Society, New York and Toronto.  
1955. Fisheries of the Great Lakes. Pages 36-37 in *The Great Lakes and Michigan*. University of Michigan Great Lakes Research Institute.  
1956. Great Lakes Fishery Commission: role of the Commission in the solution of fishery problems. Pages 14-16 in *Great Lakes programs and problems*. Great Lakes Commission, Ann Arbor, Mich.  
1956. Status of sea lamprey control. *Wis. Conserv. Bull.* 21(4):14-17.  
1956. The lake trout endangered in the Great Lakes. Pages 23-24 in *Our endangered wildlife*. National Wildlife Federation, Washington, D.C.  
1957. Recent changes in the deep-water fish populations of Lake Michigan. *Trans. Am. Fish. Soc.* 86:393-408.  
1958. Attack on the sea lamprey. *Mich. Conserv.* 27(3):21-27.  
1958. Lake trout and sea lamprey. *Minn. Conserv. Volunteer* 21(126):18-23.  
1958. Trout in the Great Lakes. *U.S. Trout News* 3(3):8-10.  
1960. Attack on the sea lamprey: a report of progress. *Mich. Conserv.* 29(5):7-9.

OFFETT, JAMES W.

1960. The American Fisheries Society. U.S. Trout News 5(4):20-22.

1962. An instance of upwelling along the east shore of Lake Michigan, 1955. Proc. Conf. Great Lakes Res. 5 (Univ. Mich., Great Lakes Res. Div., Publ. 9):126. (Abstr.)

1963. Biological Laboratory, Ann Arbor, Michigan. Pages 374-375 in F. John Vernberg, ed. Field stations of the United States. Am. Zool. 3(3).

1966. The general biology of the cyclostomes with special reference to the lamprey. Pages 255-262 in Richard T. Smith, Peter A. Miescher, and Robert A. Goode, eds. Phylogeny of immunity. University of Florida Press, Gainesville.

MOORE, HARRY H., AND ROBERT A. BRAEM.

1965. Distribution of fishes in U.S. streams tributary to Lake Superior. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 516. 61 pp.

MRAZ, DONALD.

1952. Movements of yellow perch marked in southern Green Bay, Lake Michigan, in 1950. Trans. Am. Fish. Soc. 81:150-161.

1964. Age and growth of the round whitefish in Lake Michigan. Trans. Am. Fish. Soc. 93(1):46-52.

1964. Age, growth, sex ratio, and maturity of the whitefish in central Green Bay and adjacent waters of Lake Michigan. U.S. Fish Wildl. Serv., Fish. Bull. 63(3):619-634.

NORDEN, CARROLL R.

1961. The identification of larval yellow perch, *Perca flavescens* and walleye, *Stizostedion vitreum*. Copeia 1961(3):282-288.

OGAWA, ROANN E.

1969. Lake Ontario phytoplankton, September 1964. Pages 27-38 in Limnological survey of Lake Ontario, 1964. Great Lakes Fish. Comm., Tech. Rep. 14.

OGAWA, ROANN E., AND JOHN F. CARR.

1969. The influence of nitrogen on heterocyst production in bluegreen algae. Limnol. Oceanogr. 14(8):342-351.

PARKER, PHILLIP S., AND ROBERT E. LENNON.

1956. Biology of the sea lamprey in its parasitic phase. U.S. Fish Wildl. Serv., Res. Rep. 44. 32 pp.

PARSONS, JOHN W.

1958. Fishery management problems and possibilities on large southeastern reservoirs. Trans. Am. Fish. Soc. 87:333-355.

1967. Contribution of year-classes of blue pike to the commercial fishery of Lake Erie, 1943-59. J. Fish. Res. Board Can. 24(5):1035-1066.

1970. Walleye fishery of Lake Erie in 1943-62 with emphasis on contributions of the 1942-61 year-classes. J. Fish. Res. Board Can. 27(8):1475-1489.

1971. Selective food preferences of walleyes of the 1959 year class in Lake Erie. Trans. Am. Fish. Soc. 100(3):474-485.

1972. Life history and production of walleyes of the 1959 year-class in western Lake Erie, 1959-62. Trans. Am. Fish. Soc. 101(4):655-661.

PERLMUTTER, ALFRED.

1951. An aquarium experiment on the American eel as a predator on larval lampreys. Copeia 1951 (2):173-174.

PIAVIS, GEORGE W.

1961. Embryological stages in the sea lamprey and effects of temperature on development. U.S. Fish Wildl. Serv., Fish. Bull. 61:111-143.

1962. Exposure of several developmental stages of the sea lamprey, *Petromyzon marinus*, to selective larvicides. Copeia 1962(3):652-653.

PIAVIS, GEORGE W., AND JOHN H. HOWELL.

1969. Rearing of sea lamprey, *Petromyzon marinus*, embryos in distilled water. Copeia 1969(1):204-205.

PIAVIS, GEORGE W., JOHN H. HOWELL, AND ALLEN J. SMITH.

1970. Experimental hybridization among five species of lampreys from the Great Lakes. Copeia 1970 (1):29-37.

PURVIS, HAROLD A.

1970. Growth, age at metamorphosis, and sex ratio of northern brook lamprey in a tributary of southern Lake Superior. Copeia 1970(2):326-332.

PYCHA, RICHARD L.

1961. Recent changes in the walleye fishery of northern Green Bay and history of the 1943 year class. Trans. Am. Fish. Soc. 90(4):475-488.

1962. The relative efficiency of nylon and cotton gill nets for taking lake trout in Lake Superior. J. Fish. Res. Board Can. 19(6):1085-1094.

PYCHA, RICHARD L., WILLIAM R. DRYER, AND GEORGE R. KING.

1965. Movements of hatchery-reared lake trout in Lake Superior. J. Fish. Res. Board Can. 22(4):999-1024.

PYCHA, RICHARD L., AND GEORGE R. KING.

1967. Returns of hatchery-reared lake trout in southern Lake Superior, 1955-62. J. Fish. Res. Board Can. 24(2):281-298.

PYCHA, RICHARD L., AND LLOYD L. SMITH, JR.

1955. Early life history of the yellow perch, *Perca flavescens* (Mitchill), in the Red Lakes, Minnesota. Trans. Am. Fish. Soc. 84:249-260.

RAHRER, JEROLD F.

1965. Age, growth, maturity, and fecundity of "humper" lake trout, Isle Royale, Lake Superior. Trans. Am. Fish. Soc. 94(1):75-83.

1967. Growth of lake trout in Lake Superior before the maximum abundance of sea lampreys. Trans. Am. Fish. Soc. 96(3):268-277.

1968. Movements of adult lake trout in Lake Superior. Trans. Am. Fish. Soc. 97(4):481-484.

REGIER, HENRY A., VERNON C. APPLEGATE, AND RICHARD A. RYDER.

1969. The ecology and management of the walleye in western Lake Erie. Great Lakes Fish. Comm., Tech. Rep. 15. 101 pp.

REINERT, ROBERT E.

1969. Insecticides and the Great Lakes. Limnos 3(3):3-9.

REINERT, ROBERT E.

1970. Pesticide concentrations in Great Lakes fish. *Pestic. Monit. J.* 3(4):233-240.

1972. Accumulation of dieldrin in an alga (*Scenedesmus obliquus*), *Daphnia magna*, and the guppy (*Poecilia reticulata*). *J. Fish. Res. Board Can.* 29(10):1413-1418.

REINERT, ROBERT E., DONALD STEWART, AND HARRY L. SEAGRAM.

1972. Effects of dressing and cooking on DDT concentrations in certain fish from Lake Michigan. *J. Fish. Res. Board Can.* 29(5):525-529.

REINWAND, JERRY F.

1969. Planktonic diatoms of Lake Ontario. Pages 19-26 in *Limnological survey of Lake Ontario, 1964*. Great Lakes Fish. Comm., Tech. Rep. 14.

REYNOLDS, JAMES B., AND G. M. DEGRAVE.

1972. Seasonal population characteristics of the opossum shrimp, *Mysis relicta*, in southeastern Lake Michigan; 1970-71. *Proc. Conf. Great Lakes Res. (Int. Assoc. Great Lakes Res.)* 15:117-131.

REYNOLDS, JAMES B., AND DOUGLAS R. MCCLAIN.

1971. Plotting of bathythermograph transect data on a printer. *J. Fish. Res. Board Can.* 28(1):102-103.

SAKAGAWA, GARY T., AND RICHARD L. PYCHA.

1971. Population biology of lake trout (*Salvelinus namaycush*) of Lake Superior before 1950. *J. Fish. Res. Board Can.* 28(1):65-71.

SAWYER, PHILIP J.

1957. Laboratory care and feeding of larval lampreys. *Copeia* 1957(3):244.

1959. Effects of certain chemicals on mucus-producing cells of *Petromyzon marinus*. *Trans. Am. Fish. Soc.* 88(4):305-309.

1959. Burrowing activities of the larval lampreys. *Copeia* 1959(3):256-257.

SCOTT, W. B., AND STANFORD H. SMITH.

1962. The occurrence of the longjaw cisco, *Leucichthys alpenae*, in Lake Erie. *J. Fish. Res. Board Can.* 19(6):1013-1023.

SELDON, CHARLES P., AND HARRY VAN METER.

1960. Lake Erie walleyes—again on the upswing? *Ohio Conserv. Bull.* 24(1):5-7.

SELGBY, JAMES H.

1971. A basket for washing benthological samples. *Trans. Am. Fish. Soc.* 100(3):590-591.

SMITH, ALLEN J.

1967. The effect of the lamprey larvicide, 3-trifluoromethyl-4-nitrophenol, on selected aquatic invertebrates. *Trans. Am. Fish. Soc.* 96(4):410-413.

SMITH, ALLEN J., JOHN H. HOWELL, AND GEORGE W. PIAVIS.

1968. Comparative embryology of five species of lampreys of the upper Great Lakes. *Copeia* 1968 (3):461-469.

SMITH, BERNARD R.

1962. Spring and summer temperatures of streams tributary to the south shore of Lake Superior, 1950-60. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 410. 57 pp.

1966. Lamprey control and research in the United States. Pages 31-45 in *Great Lakes Fishery Commission annual report for 1964*.

1967. Lamprey control and research in the United States. Pages 18-45 in *Great Lakes Fishery Commission annual report for 1965*.

1968. Lamprey control and research in the United States. Pages 26-43 in *Great Lakes Fishery Commission annual report for 1967*.

1971. Sea lampreys in the Great Lakes of North America. Pages 207-247 in M.W. Hardisty and I.C. Potter, eds. *The biology of lampreys*. Vol. 1. Academic Press, New York.

SMITH, BERNARD R., AND OLIVER R. ELLIOTT.

1953. Movement of parasitic-phase sea lampreys in Lakes Huron and Michigan. *Trans. Am. Fish. Soc.* 82:123-128.

SMITH, BERNARD R., AND E. LOUIS KING, JR.

1969. Lamprey control in the United States. Pages 34-49 in *Great Lakes Fishery Commission annual report for 1968*.

1970. Lamprey control in the United States. Pages 29-40 in *Great Lakes Fishery Commission annual report for 1969*.

SMITH, BERNARD R., AND ALBERTON L. MCCLAIN.

1962. Estimation of the brook and sea lamprey ammocete populations of three streams. *Great Lakes Fish. Comm., Tech. Rep.* 4:1-18.

SMITH, LLOYD L., JR., AND ROBERT H. KRAMER.

1964. The spottail shiner in Lower Red Lake, Minnesota. *Trans. Am. Fish. Soc.* 93(1):35-45.

SMITH, LLOYD L., JR., AND LAURITS W. KREFTING.

1954. Fluctuations in production and abundance of commercial species in the Red Lakes, Minnesota, with special reference to changes in the walleye population. *Trans. Am. Fish. Soc.* 83:131-160.

SMITH, LLOYD L., JR., AND RICHARD L. PYCHA.

1960. First-year growth of the walleye, *Stizostedion vitreum vitreum* (Mitchill), and associated factors in the Red Lakes, Minnesota. *Limnol. Oceanogr.* 5(3):281-290.

1961. Factors related to commercial production of the walleye in Red Lakes, Minnesota. *Trans. Am. Fish. Soc.* 90(2):190-217.

SMITH, MANNING A., VERNON C. APPLEGATE, AND B. G. H. JOHNSON.

1960. Colorimetric determination of halogenated nitrophenols added to streams as sea lamprey larvicides. *Anal. Chem.* 32(12):1670-1675.

1961. Physical properties of some halo-nitrophenols. *J. Chem. Eng. Data* 6(4):607-608.

SMITH, OLIVER H., AND JOHN VAN OOSTEN.

1940. Tagging experiments with lake trout, whitefish, and other species of fish from Lake Michigan. *Trans. Am. Fish. Soc.* 69:63-84.

SMITH, STANFORD H.

1954. Method of producing plastic impressions of fish scales without using heat. *Prog. Fish-Cult.* 16(2):75-78.

1956. Life history of lake herring of Green Bay, Lake Michigan. *U.S. Fish Wildl. Serv., Fish. Bull.* 57:87-138.

SMITH, STANFORD H.

- 1956. Research vessel *Cisco* operations in 1955. *Commer. Fish. Rev.* 18(5):21-23.
- 1957. Evolution and distribution of the coregonids. *J. Fish. Res. Board Can.* 14(4):599-604.
- 1957. Limnological surveys of the Great Lakes—early and recent. *Trans. Am. Fish. Soc.* 86:409-418.
- 1960. Great Lakes research. *Wis. Conserv. Bull.* 25(2):18-19, 22-23.
- 1962. Lake Erie or Lake Eerie? *Izaak Walton Mag.* 27(4):4-5.
- 1962. Temperature correction in conductivity measurements. *Limnol. Oceanogr.* 7(3):330-334.
- 1964. Status of the deepwater cisco population of Lake Michigan. *Trans. Am. Fish. Soc.* 93(2):155-163.
- 1964. The taxonomic status of *Leucichthys macropodus*, a cisco of Lake Erie. *Copeia* 1964(1):230.
- 1966. The tullibee. *Minn. Conserv. Volunteer* 29(170):49-51.
- 1968. Species succession and fishery exploitation in the Great Lakes. *J. Fish. Res. Board Can.* 25(4):667-693. Reprinted, pages 588-611 in Thomas D. Detwyler, ed. *Man's impact on environment*. McGraw-Hill Book Company, New York, 1971.
- 1968. The alewife. *Limnos* 1(2):12-20.
- 1970. Species interactions of the alewife in the Great Lakes. *Trans. Am. Fish. Soc.* 99(4):754-765.
- 1970. Trends in fishery management of the Great Lakes. Pages 107-114 in Norman G. Benson, ed. *A century of fisheries in North America*. Am. Fish. Soc., Spec. Publ. 7.
- 1972. Destruction of the ecosystem in the Great Lakes and possibilities for its reconstruction. Pages 41-46 in Remedios W. Moore, ed. *Progress in fishery and food science*. Univ. Wash. Publ. Fish., N.S., Vol. 5.
- 1972. Factors of ecological succession in oligotrophic fish communities of the Laurentian Great Lakes. *J. Fish. Res. Board Can.* 29(6):717-730.
- 1972. The future of salmonid communities in the Laurentian Great Lakes. *J. Fish. Res. Board Can.* 29(6):951-957.

SMITH, STANFORD H., HOWARD J. BUETTNER, AND RALPH HILE.

- 1961. Fishery statistical districts of the Great Lakes. *Great Lakes Fish. Comm.*, Tech. Rep. 2. 24 pp.

SNYDER, DIANE, AND ROBERT REINERT.

- 1971. Rapid separation of polychlorinated biphenyls from DDT and its analogues on silica gel. *Bull. Environ. Contam. Toxicol.* 6(5):385-390.

STANLEY, JON G., AND PETER J. COLBY.

- 1971. Effects of temperature on electrolyte balance and osmoregulation of the alewife (*Alosa pseudoharengus*) in fresh and sea water. *Trans. Am. Fish. Soc.* 100(4):624-638.

STARKEY, ROLAND J., AND JOHN H. HOWELL.

- 1966. Substituted nitrosalicylanilides: a new class of selectively toxic sea lamprey larvicides. *Great Lakes Fish. Comm.*, Tech. Rep. 11:21-29.

TETER, HAROLD E.

- 1960. The bottom fauna of Lake Huron. *Trans. Am. Fish. Soc.* 89(2):193-197.

THARRATT, ROBERT C.

- 1959. Food of yellow perch, *Perca flavescens* (Mitchill) in Saginaw Bay, Lake Huron. *Trans. Am. Fish. Soc.* 88(4):330-331.

TORBLAA, RICHARD L.

- 1968. Effects of lamprey larvicides on invertebrates in streams. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish.* 572. 13 pp.

VAN METER, HARRY D.

- 1960. The yellow perch of Lake Erie. *Ohio Conserv. Bull.* 24(11):22-23.

VAN METER, HARRY D., AND WILLIAM F. SHEPHERD.

- 1967. Fishery picture changing in Lake Erie: pollution a major factor, survey shows. *The Conservationist* (N. Y. Conserv. Dep.) 22(2):2-3.

VAN METER, HARRY D., AND MILTON B. TRAUTMAN.

- 1970. An annotated list of the fishes of Lake Erie and its tributary waters exclusive of the Detroit River. *Ohio J. Sci.* 70(2):65-78.

VAN OOSTEN, JOHN.

- 1928. Fisheries of the Great Lakes: life histories of the Coregoninae. Pages 662-667 in Elmer Higgins, *Progress in biological inquiries*, 1926. Rep. U.S. Comm. Fish. for 1927.
- 1928. Scientific investigations of [Great Lakes fisheries by] the Bureau of Fisheries Pages 16-20 in *Second Great Lakes Fish. Conf.*, Mich. Dep. Conserv.
- 1929. Life history of the lake herring (*Leucichthys artedi* Le Sueur) of Lake Huron as revealed by its scales, with a critique of the scale method. *U.S. Bur. Fish., Bull.* 44:265-428.
- 1929. Some fisheries problems on the Great Lakes. *Trans. Am. Fish. Soc.* 59:63-85.
- 1930. Investigation of method of measuring twine in Great Lakes district. *Mich. Fisherman* (Bay City) 14(4):1, 6.
- 1930. Progress of fishery biology on the Great Lakes. Pages 710-718 in Elmer Higgins, *Progress in biological inquiries*, 1928. Rep. U.S. Comm. Fish. for 1929.
- 1930. The disappearance of the Lake Erie cisco—a preliminary report. *Trans. Am. Fish. Soc.* 60:204-214.
- 1932. Experiments on the mesh of trapnets and legislation of the commercial fisheries of Lake Erie. *Trans. Am. Fish. Soc.* 62:100-107.
- 1932. Experiments on the mesh of trapnets on Lake Erie. *The Fisherman* (Grand Haven, Mich.) 1(12):3-4, 8.
- 1932. Review of Great Lakes work conducted by the U.S. Bureau of Fisheries. *The Fisherman* (Grand Haven, Mich.) 2(1):3-4, 8.
- 1932. The maximum age of fresh-water fishes. *The Fisherman* (Grand Haven, Mich.) 1(11):3-4.
- 1933. Preliminary report on investigation of chubnet meshes in Lake Michigan. *The Fisherman* (Grand Haven, Mich.) 2(4):3-4, 8.

VAN OOSTEN, JOHN.

1933. Report of the Division of Commercial Fishing [of the American Fisheries Society]. Trans. Am. Fish. Soc. 63:31-35.

1934. On the deep trapnet in Michigan waters of the Great Lakes. Mich. Tradesman 52(2674):25.

1934. The value of questionnaires in commercial fisheries regulations and surveys. Trans. Am. Fish. Soc. 64:107-117.

1935. First record of the alewife, *Pomolobus pseudo-harengus*, for the State of Michigan. Copeia 1935(4):194-195.

1935. Lake States change fishery regulations. The Fisherman (Grand Haven, Mich.) 4(10):1-2.

1935. Logically justified deductions concerning the Great Lakes fisheries exploded by scientific research. Trans. Am. Fish. Soc. 65:71-75.

1935. Questionnaires prove valuable to fisheries. The Fisherman (Grand Haven, Mich.) 4(6):1-2; 4(7): 1-2.

1936. A new immigrant comes to Michigan. The Fisherman (Grand Haven, Mich.) 5(6):1, 3.

1936. Dr. Van Oosten reveals startling data. Gold Medal Netting News 9 (May 1936):1-2.

1936. Lake fisheries facing extermination: disappearance of valuable species causes alarm. The Fisherman (Grand Haven, Mich.) 5(11):1, 3.

1936. Net selectivity on the Great Lakes. Gold Medal Netting News 10 (July 1936):2-3.

1936. The mortality of fish in Lake Erie. Great Lakes Fisherman 1(3):2, 10; 1(4):2-3. Reprinted, pages 92-100 in Pa. Board Fish. Comm., Comb. Bienn. Rep., 1938.

1937. Artificial propagation of commercial fish of the Great Lakes. Trans. North Am. Wildl. Conf. 2:605-612. Reprinted in Prog. Fish-Cult. No. 28: 8-15.

1937. Doom of the Great Lakes fisheries. Am. For. Mag. 43(3):103-105, 144-145.

1937. First records of the smelt, *Osmerus mordax*, in Lake Erie. Copeia 1937(1):64-65.

1937. The age, growth, and sex ratio of the Lake Superior longjaw, *Leucichthys zenithicus* (Jordan and Evermann). Pap. Mich. Acad. Sci. Arts Lett. 22:691-711.

1937. The dispersal of smelt, *Osmerus mordax* (Mitchill), in the Great Lakes region. Trans. Am. Fish. Soc. 66:160-171.

1937. The Great Lakes fisheries: their proper management for sustained yields. Trans. Am. Fish. Soc. 66:131-138.

1937. The North Central States Wildlife Conference. Prog. Fish-Cult. No. 26:15-19.

1938. From cisco to perch to pike: the fish by fish account of depletion of Great Lakes fisheries. State Gov. 11(3):55-57.

1938. Michigan's commercial fisheries of the Great Lakes. Mich. Hist. Mag. 22(1):107-145.

1938. The age and growth of the Lake Erie sheepshead, *Aplodinotus grunniens* Rafinesque. Pap. Mich. Acad. Sci. Arts Lett. 23:651-668.

1938. The extent of the depletion of the Great Lakes fisheries. Pages 10-17 in Proc. Great Lakes Fish. Conf., Counc. State Gov.

1939. A common concern . . . Great Lakes fisheries for anglers and fishers. Mich. Game Trails 1(5): 1-2.

1939. Battle rages over closing Potagannissing Bay to commercial fishermen. Mich. Game Trails 1(3): 19-20.

1939. Can the Great Lakes fisheries be saved? Am. Wildl. 28(3):129-135.

1939. Save the Great Lakes fisheries! Outdoor Am. 4(3):4-5, 7.

1939. The age, growth, sexual maturity, and sex ratio of the common whitefish, *Coregonus clupeaformis* (Mitchill), of Lake Huron. Pap. Mich. Acad. Sci. Arts Lett. 24(Part 2):195-221.

1940. The smelt, *Osmerus mordax* (Mitchill). Mich. Dep. Conserv., Fish Div. Pam. 8. 13 pp. Revised 1948 and 1953.

1941. The age and growth of fresh-water fishes. Pages 196-205 in A symposium on hydrobiology. University of Wisconsin Press, Madison.

1942. Relationship between the plantings of fry and production of whitefish in Lake Erie. Trans. Am. Fish. Soc. 71:118-121.

1942. The age and growth of the Lake Erie white bass, *Lepibema chrysops* (Rafinesque). Pap. Mich. Acad. Sci. Arts Lett. 27:307-334.

1942. The Great Lakes fisheries: a review of the report of the International Board of Inquiry for the Great Lakes Fisheries. State Gov. 15(11):211-212, 219-220.

1942. The Great Lakes whitefish. Pages 216-222 in Charles Elliott, ed. Fading trails: the story of endangered American wildlife. The Macmillan Co., New York.

1943. U.S.-Canadian control urged to conserve Lake Erie fish supply. The Clevelander 17(10):9-10, 24.

1944. Factors affecting the growth of fish. Trans. North Am. Wildl. Conf. 9:177-183.

1944. Lake trout. U.S. Fish Wildl. Serv., Fish. Leafl. 15. 8 pp.

1944. The great smelt mystery. Mich. Conserv. 13 (6):8.

1945. Great Lakes production of salt (flat) lake herring, 1941-1944. Fish. Market News 7(10): 4-5.

1946. Maximum size and age of whitefish. The Fisherman (Grand Haven, Mich.) 14(8):17-18.

1946. The pikes. U.S. Fish Wildl. Serv., Fish. Leafl. 166. 6 pp.

1947. Mortality of smelt, *Osmerus mordax* (Mitchill), in Lakes Huron and Michigan during the fall and winter of 1942-1943. Trans. Am. Fish. Soc. 74: 310-337.

1948. Turbidity as a factor in the decline of Great Lakes fishes with special reference to Lake Erie. Trans. Am. Fish. Soc. 75:281-322.

1949. A definition of depletion of fish stocks. Trans. Am. Fish. Soc. 76:283-289.

VAN OOSTEN, JOHN.

1949. Progress report on the sea lamprey study. *The Fisherman* (Grand Haven, Mich.) 17(3):6, 9-10.

1949. The present status of the United States commercial fisheries of the Great Lakes. *Trans. North Am. Wildl. Conf.* 14:319-330.

1949. The sea lamprey—a threat to Great Lakes fisheries. *State Gov.* 22(12):283-284, 289.

1950. Progress report on the study of Great Lakes trout. *The Fisherman* (Grand Haven, Mich.) 18 (5):5, 8-10; 18(6):5, 8.

1953. A modification in the technique of computing average lengths from the scales of fishes. *Prog. Fish-Cult.* 15(2):85-86.

1956. The lake sturgeon. Pages 9-10 in *Our endangered wildlife*. National Wildlife Federation, Washington, D.C.

1957. Exotics and hybrids in fish management. *Proc. Assoc. Midwest Game Fish Comm.* 24:17-22.

1957. Great Lakes fauna, flora and their environment: a bibliography. Great Lakes Commission, Ann Arbor, Mich. 86 pp.

1957. The skin and scales. Pages 207-244 in Margaret E. Brown, ed. *The physiology of fishes*. Vol. 1. Academic Press, New York.

1960. Temperatures of Lake Michigan, 1930-32. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 322. 34 pp.

1960. The true pikes. U.S. Fish Wildl. Serv., Fish Leafl. 496. 9 pp.

1961. Formation of an accessory annulus on the scales of starved whitefish. *Prog. Fish-Cult.* 23 (3):135.

1961. Records, ages, and growth of the mooneye, *Hiodon tergisus*, of the Great Lakes. *Trans. Am. Fish. Soc.* 90(2):170-174.

1963. Surface currents of Lake Michigan, 1931 and 1932. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 413. 51 pp.

VAN OOSTEN, JOHN, WILLIAM C. ADAMS, WILLIAM L. FINLEY, AND FRED A. WESTERMAN.

1939. Migratory fish, a problem of interstate cooperation? *Trans. North Am. Wildl. Conf.* 4: 25-43.

VAN OOSTEN, JOHN, AND HILARY J. DEASON.

1938. The food of the lake trout (*Cristivomer namaycush namaycush*) and of the lawyer (*Lota maculosa*) of Lake Michigan. *Trans. Am. Fish. Soc.* 67:155-177.

1939. The age, growth, and feeding habits of the whitefish, *Coregonus clupeaformis* (Mitchill), of Lake Champlain. *Trans. Am. Fish. Soc.* 68:152-163.

1957. History of Red Lakes fishery, 1917-38, with observations on population status. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 229. 63 pp.

VAN OOSTEN, JOHN, H. J. DEASON, AND FRANK W. JOBES.

1934. A microprojection machine designed for the study of fish scales. *J. Cons., Cons. Int. Explor. Mer* 9(2):241-248.

VAN OOSTEN, JOHN, AND PAUL H. ESCHMEYER.

1956. Biology of young lake trout (*Salvelinus namaycush*) in Lake Michigan. U.S. Fish Wildl. Serv., Res. Rep. 42. 88 pp.

VAN OOSTEN, JOHN, AND RALPH HILE.

1949. Age and growth of the lake whitefish, *Coregonus clupeaformis* (Mitchill), in Lake Erie. *Trans. Am. Fish. Soc.* 77:178-249.

VAN OOSTEN, JOHN, RALPH HILE, AND FRANK W. JOBES.

1946. The whitefish fishery of Lakes Huron and Michigan with special reference to the deep-trap-net fishery. U.S. Fish Wildl. Serv., Fish. Bull. 50: 297-394.

WELLS, LARUE.

1960. Seasonal abundance and vertical movements of planktonic Crustacea in Lake Michigan. U.S. Fish Wildl. Serv., Fish. Bull. 60:343-369.

1966. Seasonal and depth distribution of larval bloaters (*Coregonus hoyi*) in southeastern Lake Michigan. *Trans. Am. Fish. Soc.* 95(4):388-396.

1968. Daytime distribution of *Pontoporeia affinis* off bottom in Lake Michigan. *Limnol. Oceanogr.* 13 (4):703-705.

1968. Seasonal depth distribution of fish in southeastern Lake Michigan. U.S. Fish Wildl. Serv., Fish. Bull. 67(1):1-15.

1969. Fishery survey of U.S. waters of Lake Ontario. Pages 51-59 in *Limnological survey of Lake Ontario, 1964*. Great Lakes Fish. Comm., Tech. Rep. 14.

1970. Effects of alewife predation on zooplankton populations in Lake Michigan. *Limnol. Oceanogr.* 15(4):556-565.

WELLS, LARUE, AND ALFRED M. BEETON.

1963. Food of the bloater, *Coregonus hoyi*, in Lake Michigan. *Trans. Am. Fish. Soc.* 92(3):245-255.

WELLS, LARUE, AND ALBERTON L. McLAIN.

1972. Lake Michigan: effects of exploitation, introductions, and eutrophication on the salmonid community. *J. Fish. Res. Board Can.* 29(6):889-898.

WESTERMAN, FRED A., AND JOHN VAN OOSTEN.

1939. Report to the Michigan State Senate on the fisheries of Potagannissing Bay, Michigan. Mich. Dep. Conserv. 82 pp.

WIGLEY, ROLAND L.

1952. A method of marking larval lampreys. *Copeia* 1952(3):203-204.

1959. Life history of the sea lamprey of Cayuga Lake, New York. U.S. Fish Wildl. Serv., Fish. Bull. 59:561-617.

WILLEFORD, B. R., JR.

1956. The solubility of 3-bromo-4-nitrophenol in water and acetone. *Ecology* 37(4):840.

WILLFORD, WAYNE A.

1971. Heavy metals research in the Great Lakes, 1970-71. Pages 53-65 in *Prevalence and effects of toxic metals in the environment*. Proc. Workshop Toxic Metals Water, Water Resour. Res. Inst., Univ. N.C., Raleigh, Rep. 57.

WOLFERT, DAVID R.

1963. The movements of walleyes tagged as yearlings in Lake Erie. *Trans. Am. Fish. Soc.* 92(4): 414-420.

WOLFERT, DAVID R.

1966. Food of young-of-the-year walleyes in Lake Erie. U.S. Fish Wildl. Serv., Fish. Bull. 65(2): 489-494.

1969. Maturity and fecundity of walleyes from the eastern and western basins of Lake Erie. J. Fish. Res. Board Can. 26(7):1877-1888.

WOLFERT, DAVID R., VERNON C. APPLEGATE, AND LEONARD N. ALLISON.

1967. Infection of the walleye, *Stizostedion v. vitreum*, of western Lake Erie with *Bothriocephalus cuspidatus* (Cooper). Pap. Mich. Acad. Sci. Arts Lett. 52:105-114.

WOLFERT, DAVID R., AND JARL K. HILTUNEN.

1968. Distribution and abundance of the Japanese snail, *Viviparus japonicus*, and associated macrobenthos in Sandusky Bay, Ohio. Ohio J. Sci. 68(1):32-40.

WOOD, LEONARD E.

1964. Bottom sediments of Saginaw Bay, Michigan. J. Sediment. Petrol. 34(1):173-184.

WRIGHT, STILLMAN.

1929. A preliminary report on the growth of the rock bass, *Ambloplites rupestris* (Rafinesque), in two lakes of northern Wisconsin. Trans. Wis. Acad. Sci. Arts Lett. 24:581-595.

WRIGHT, STILLMAN.

1931. Bottom temperatures in deep lakes. Science 74(1921):413.

1932. Conditions of life in lakes. The Fisherman (Grand Haven, Mich.) 1(8):3-4, 12.

1932. Plankton and the fisheries. The Fisherman (Grand Haven, Mich.) 1(7):3-4, 11.

1932. Pollution in western Lake Erie. The Fisherman (Grand Haven, Mich.) 1(6):3-4, 10.

1955. Limnological survey of western Lake Erie. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 139. 341 pp.

WRIGHT, STILLMAN, AND WILBUR M. TIDD.

1933. Summary of limnological investigations in western Lake Erie in 1929 and 1930. Trans. Am. Fish. Soc. 63:271-285.

WYDOSKI, RICHARD S., AND DAVID R. WOLFERT.

1968. An improved girthometer for studies of gill net selectivity. Prog. Fish-Cult. 30(1):62-64.

ZIMMERMAN, JEROME W.

1968. Water quality of streams tributary to Lakes Superior and Michigan. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 559. 41 pp.

**NATIONAL RESERVOIR RESEARCH PROGRAM**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Fayetteville, Arkansas 72701**

The major aims of the National Reservoir Research Program, which was begun in 1963, are to determine the factors that influence sport fish production in major types of large reservoirs and to evaluate fish management methods. In addition, the investigations provide information needed to predict the effects of proposed water development projects, as well as information on environmental requirements of fish needed to establish safe water quality standards.

Activities include (1) studies of the influence of environmental factors on fish standing crop and sport fishing effort and harvest in more than 200 reservoirs; (2) compilation of extensive data on reservoirs; (3) computer analysis of the data, involving relation to the sport fish harvest of such factors as reservoir area, nutrient content, growing season, and reservoir age; (4) estimation of fish standing crops and interspecific competition within reservoirs and prediction of the amount of sport fishing a reservoir will support; and (5) evaluation, in terms of effects on fish production and sport fishery management, of such variables as geographical location, water exchange rate, watershed characteristics, and water level fluctuation and other reservoir operational characteristics as influenced by engineering design.

The National Reservoir Research Program provides leadership and coordination of a fish management evaluation program involving analysis, by automatic data processing methods, of the effects of reservoir environmental variables on the success of stocking striped bass, walleyes, and other predators in southern reservoirs, in cooperation with 15 State and Federal agencies.

JENKINS, ROBERT M.

1964. Reservoir fishery research strategy and tactics. U.S. Fish Wildl. Serv., Circ. 196. 12 pp.

1965. Bibliography of reservoir fishery biology in North America. U.S. Bur. Sport Fish. Wildl., Res. Rep. 68. 61 pp.

1966. Managing large reservoirs for fish. Proc. Annu. Conf. Water Texas (Water Resour. Inst., Texas A & M Univ.) 11:54-59.

1968. The influence of some environmental factors on standing crop and harvest of fishes in U.S. reservoirs. Pages 298-321 in Reservoir fishery resources symposium, Athens, Ga., April 5-7, 1968. South. Div., Am. Fish. Soc.

1969. Discussion [of a paper, "Measurement of economic values in sport fishing: an economist's views on validity, usefulness, and propriety," by Joe B. Stevens.] Trans. Am. Fish. Soc. 98(2): 357-359.

1970. Large reservoirs—management possibilities.

Proc. Annu. Meet. Midwest Assoc. Game Fish Comm. 36:82-89.

1970. Reservoir fish management. Pages 173-182 in Norman S. Benson, ed. A century of fisheries in North America. Am. Fish. Soc., Spec. Publ. 7.

1970. The influence of engineering design and operation and other environmental factors on reservoir fishery resources. Water Res. Bull. 6(1): 110-119.

1971. Big reservoirs. Pages 233-244 in Michael J. Walker, ed. Sport fishing USA. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

JENKINS, ROBERT M., AND DAVID I. MORAIS.

1968. Effects of thirteen environmental variables on fish standing crop in reservoirs. Proc. Annu. Conf. West. Assoc. State Game Fish Comm. 48:488-497.

1971. Reservoir sport fishing effort and harvest in relation to environmental variables. Pages 371-384 in Gordon E. Hall, ed. Reservoir fisheries and limnology. Am. Fish. Soc., Spec. Publ. 8.

**NORTH CENTRAL RESERVOIR INVESTIGATIONS**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Yankton, South Dakota 57078**

North Central Reservoir Investigations was established in Yankton, South Dakota, in 1961. A biological station was begun at Pierre, South Dakota, in 1964, and a station established at Mobridge, South Dakota, in 1963 by the Bureau of Commercial Fisheries was transferred to the Bureau of Sport Fisheries and Wildlife in 1970.

Most research of North Central Reservoir Investigations is conducted on four main stem reservoirs of the Missouri River: Lake Oahe (350,000 acres), Lake Sharpe (56,000 acres), Lake Francis Case (82,000 acres), and Lewis and Clark Lake (27,000 acres). The four principal research objectives are: (1) to determine the relations between the fish populations (reproduction, growth, abundance, mortality) in these reservoirs and such variables as water management programs designed for flood control and power, environmental changes associated with aging, and production of fish food (plankton and benthos); (2) to improve sport fishing by either modifying the environments (changing water management programs) or recommending such fish management measures as stocking or improving fish spawning and nursery areas; (3) to provide information for water resource planning; and (4) to develop prediction models for managing the fishery resources.

The research findings are used in State fish management programs, in Federal-State planning studies with the U.S. Army Corps of Engineers to adjust water management programs for the benefit of fish, and in broad resource assessment studies.

ACKERMAN, G., AND M. S. BOUSSU.  
1968. A floating trap net for use in reservoirs. *Commer. Fish. Rev.* 30(12):62-64.

ECKMAN, LANCE G., AND JOSEPH H. ELROD.  
1971. Apparent abundance and distribution of young-of-year fishes in Lake Oahe, 1965-69. Pages 333-347 in Gordon E. Hall, ed. *Reservoir fisheries and limnology*. Am. Fish. Soc., Spec. Publ. 8.

BENSON, NORMAN G.  
1968. Review of fishery studies on Missouri River main stem reservoirs. U.S. Bur. Sport Fish. Wildl., Res. Rep. 71. 61 pp.  
1969. Reservoir fish. S.D. Conserv. Dig. 36(2):14-17.  
1969. Some effects of water management on biological production in Missouri River main stem reservoirs. Pages 307-321 in *Current research into the effects of reservoirs on water quality*. Proc. Am. Soc. Civ. Eng. Spec. Conf., Tech. Rep. 17, Dep. Environ. Water Res. Eng., Vanderbilt University.  
1970. The American Fisheries Society, 1920-1970. Pages 13-24 in Norman G. Benson, ed. *A century of fisheries in North America*. Am. Fish. Soc., Spec. Publ. 7.  
1971. Life history introduction. Pages 1-2 in Gordon E. Hall, ed. *Reservoir fisheries and limnology*. Am. Fish. Soc., Spec. Publ. 8.

BENSON, NORMAN G., editor.  
1970. *A century of fisheries in North America*. Am. Fish. Soc., Spec. Publ. 7. 330 pp.

BENSON, NORMAN G., AND BRUCE C. COWELL.  
1968. The environment and plankton density in Missouri River reservoirs. Pages 358-373 in *Reservoir fishery resources symposium*, Athens, Ga., April 5-7, 1967. South. Div., Am. Fish. Soc.

CLAFLIN, THOMAS O.  
1968. Reservoir Aufwuchs on inundated trees. *Trans. Am. Microsc. Soc.* 87(1):97-104.

COWELL, BRUCE C.  
1967. The Copepoda and Cladocera of a Missouri River reservoir: a comparison of sampling in the reservoir and the discharge. *Limnol. Oceanogr.* 12(1):125-136.  
1970. The influence of plankton discharges from an upstream reservoir on standing crops in a Missouri River reservoir. *Limnol. Oceanogr.* 15(3):427-441.

COWELL, BRUCE C., AND PATRICK L. HUDSON.  
1968. A device for determining sedimentation rates in reservoirs. *Limnol. Oceanogr.* 13(1):196-198.  
1968. Some environmental factors influencing benthic invertebrates in two Missouri River reservoirs. Pages 541-555 in *Reservoir fishery resources symposium*, Athens, Ga., April 5-7, 1967. South. Div., Am. Fish. Soc.

ELROD, JOSEPH H., AND THOMAS J. HASSSLER.

1969. Estimates of some vital statistics of northern pike, walleye, and sauger populations in Lake Sharpe, South Dakota. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 30. 17 pp.

1971. Vital statistics of seven fish species in Lake Sharpe, South Dakota, 1964-69. Pages 27-40 in Gordon E. Hall, ed. Reservoir fisheries and limnology. Am. Fish. Soc., Spec. Publ. 8.

FUCHS, EVERETT H.

1967. Life history of the emerald shiner, *Notropis atherinoides*, in Lewis and Clark Lake, South Dakota. Trans. Am. Fish. Soc. 96(3):247-256.

GASAWAY, CHARLES R.

1970. Changes in the fish population in Lake Francis Case in South Dakota in the first 16 years of impoundment. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 56. 30 pp.

GREENWOOD, M. R., AND M. S. BOUSSU.

1968. Efficient fishing systems—potential for increasing effectiveness of commercial fisheries in reservoir management and utilization. Pages 467-476 in Reservoir fishery resources symposium, Athens, Ga., April 5-7, 1967. South. Div., Am. Fish. Soc.

HASSSLER, THOMAS J.

1969. Biology of the northern pike in Oahe Reservoir, 1959 through 1965. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 29. 13 pp.

1970. Environmental influences on early development and year-class strength of northern pike in Lakes Oahe and Sharpe, South Dakota. Trans. Am. Fish. Soc. 99(2):369-375.

1971. Influence of environmental factors on larval and juvenile fish in main stem Missouri River reservoirs. Pages 27-32 in Proc. North Cent. Warmwater Fish Cult.-Manage. Workshop, Ames, Iowa.

HEIMSTRA, NORMAN W., DAVID K. DAMKOT, AND NORMAN G. BENSON.

1969. Some effects of silt turbidity on juvenile largemouth bass and green sunfish. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 20. 9 pp.

HUDSON, PATRICK L.

1970. Quantitative sampling with three benthic dredges. Trans. Am. Fish. Soc. 99(3):603-607.

1971. The Chironomidae (Diptera) of South Dakota. Proc. S.D. Acad. Sci. 50:155-174.

HUDSON, PATRICK L., AND BRUCE C. COWELL.

1966. Distribution and abundance of phytoplankton and rotifers in a main stem Missouri River reservoir. Proc. S.D. Acad. Sci. 45:84-106.

HUDSON, PATRICK L., AND GEORGE A. SWANSON.

1972. Production and standing crop of *Hexagenia* (Ephemeroptera) in a large reservoir. Stud. Nat. Sci. (Portales, N.M.) 1(4):1-42.

JUNE, FRED C.

1970. Atresia and year-class abundance of northern pike, *Esox lucius*, in two Missouri River impoundments. J. Fish. Res. Board Can. 27(3):587-591.

1971. The reproductive biology of northern pike, *Esox lucius*, in Lake Oahe, an upper Missouri River storage reservoir. Pages 53-71 in Gordon E. Hall, ed. Reservoir fisheries and limnology. Am. Fish. Soc., Spec. Publ. 8.

1972. Variations in size and length composition of Atlantic menhaden groupings. U.S. Natl. Mar. Fish. Serv., Fish. Bull. 70(3):699-713.

McCOMISH, THOMAS S.

1967. Food habits of bigmouth and smallmouth buffalo in Lewis and Clark Lake and the Missouri River. Trans. Am. Fish. Soc. 96(1):70-74.

MOEN, TOM.

1970. The occurrence of black buffalo, *Ictiobus niger* (Rafinesque), in Lake Mitchell, South Dakota. Proc. S.D. Acad. Sci. 49:42-45.

MOEN, TOM, AND DALE HENEGAR.

1971. Movement and recovery of tagged northern pike in Lake Oahe, South and North Dakota, 1964-68. Pages 85-93 in Gordon E. Hall, ed. Reservoir fisheries and limnology. Am. Fish. Soc., Spec. Publ. 8.

NELSON, WILLIAM R.

1968. Embryo and larval characteristics of sauger, walleye, and their reciprocal hybrids. Trans. Am. Fish. Soc. 97(2):167-174.

1968. Reproduction and early life history of sauger, *Stizostedion canadense*, in Lewis and Clark Lake. Trans. Am. Fish. Soc. 97(2):159-166.

1969. Biological characteristics of the sauger population in Lewis and Clark Lake. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 21. 11 pp.

NELSON, W. R., NORMAN R. HINES, AND LANCE G. BECKMAN.

1965. Artificial propagation of saugers and hybridization with walleyes. Prog. Fish-Cult. 27(4):216-218.

NELSON, W. R., R. E. SIEFERT, AND D. V. SWEDBERG.

1968. Studies of the early life history of reservoir fishes. Pages 374-385 in Reservoir fishery resources symposium, Athens, Ga., April 5-7, 1967. South. Div., Am. Fish. Soc.

RUELLE, RICHARD.

1971. Factors influencing growth of white bass in Lewis and Clark Lake. Pages 411-423 in Gordon E. Hall, ed. Reservoir fisheries and limnology. Am. Fish. Soc., Spec. Publ. 8.

1971. The fish in Lake Francis Case. S.D. Conserv. Dig. 38(6):22-23.

SIEFERT, RICHARD E.

1965. Early scale development in the white crappie. Trans. Am. Fish. Soc. 94(2):182.

1968. Reproductive behavior, incubation and mortality of eggs, and postlarval food selection in the white crappie. Trans. Am. Fish. Soc. 97(3):252-259.

1969. Biology of the white crappie in Lewis and Clark Lake. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 22. 16 pp.

1969. Characteristics for separation of white and black crappie larvae. Trans. Am. Fish. Soc. 98(2):326-328.

SULLIVAN, JOHN K., AND DONALD C. WARNICK.  
 1967. Commercial fishing costs at Oahe Reservoir, South Dakota. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 21:391-395.

SWANSON, GEORGE A.  
 1965. Automatic plankton sampling system. Limnol. Oceanogr. 10(1):149-152.  
 1967. Factors influencing the distribution and abundance of *Hexagenia* nymphs (Ephemeroptera) in a Missouri River reservoir. Ecology 48(2):216-225.

SWEDBERG, DONALD V.  
 1965. Age and rate of growth of freshwater drum, Lewis and Clark Lake, Missouri River. Proc. S.D. Acad. Sci. 44:160-168.  
 1966. Foods taken by freshwater drum. Prog. Fish-Cult. 28(4):192.  
 1967. A trawling device for small boats. Prog. Fish-Cult. 29(4):241-242.  
 1968. Food and growth of the freshwater drum in Lewis and Clark Lake, South Dakota. Trans. Am. Fish. Soc. 97(4):442-447.

SWEDBERG, DONALD V., AND CHARLES H. WALBURG.  
 1970. Spawning and early life history of the freshwater drum in Lewis and Clark Lake, Missouri River. Trans. Am. Fish. Soc. 99(3):560-570.

TASH, JERRY C., GEORGE A. SWANSON, AND RICHARD E. SIEFERT.  
 1966. A report on the occurrence and distribution of Cladocera and Copepoda in Lewis and Clark Lake, South Dakota. Univ. Kans. Sci. Bull. 46(11):425-432.

VANICEK, C. DAVID.  
 1964. Age and growth of sauger, *Stizostedion canadense* (Smith), in Lewis and Clark Lake, Iowa. State J. Sci. 38(4):481-502.

WALBURG, CHARLES H.  
 1964. Fish population studies, Lewis and Clark Lake, Missouri River, 1956 to 1962. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 482. 27 pp.  
 1969. Fish sampling and estimation of relative abundance in Lewis and Clark Lake. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 18. 15 pp.  
 1971. Loss of young fish in reservoir discharge and year-class survival, Lewis and Clark Lake, Missouri River. Pages 441-448 in Gordon E. Hall, ed. Reservoir fisheries and limnology. Am. Fish. Soc., Spec. Publ. 8.  
 1971. Zip Code H.O. Pages 22-31 in Michael J. Walker, ed. Sport fishing USA. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.  
 1972. Some factors associated with fluctuation in year-class strength of sauger, Lewis and Clark Lake, South Dakota. Trans. Am. Fish. Soc. 101(2):311-316.

WALBURG, CHARLES H., GERALD L. KAISER, AND PATRICK L. HUDSON.  
 1971. Lewis and Clark Lake tailwater biota and some relations of the tailwater and reservoir fish populations. Pages 449-467 in Gordon E. Hall, ed. Reservoir fisheries and limnology. Am. Fish. Soc., Spec. Publ. 8.

WALBURG, CHARLES H., AND WILLIAM R. NELSON.  
 1966. Carp, river carpsucker, smallmouth buffalo, and bigmouth buffalo in Lewis and Clark Lake, Missouri River. U.S. Bur. Sport Fish. Wildl., Res. Rep. 69. 30 pp.

**SOUTH CENTRAL RESERVOIR INVESTIGATIONS**  
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**Bureau of Sport Fisheries and Wildlife**  
**Fayetteville, Arkansas 72701**

South Central Reservoir Investigations was established in 1962, near the White River reservoirs and the University of Arkansas. Research has been concentrated on Beaver and Bull Shoals Reservoirs in the Ozark Mountain region of Arkansas and Missouri, but has also extended to reservoirs in other river systems, primarily in the southern United States.

Research facilities include office and laboratory space shared with the National Reservoir Research Program; a 20- x 63-foot research barge, equipped for rearing larval fish and for other experiments; and the 27-foot midwater trawler, *Threadfin II*, equipped with a diesel engine, a hydraulic winch system, and a white-line echosounder.

Investigations of the facility include (1) life history studies of the more important fishes; (2) underwater studies of the spawning and early life history of black basses and crappies; (3) development of sampling techniques for use in population dynamics studies (the unit has developed methodology for estimating young-of-the-year forage fish populations, using unique midwater trawls, sampling design, and statistical analyses); (4) estimates of the structure, abundance, and fluctuation of fish populations, especially those of forage fishes; (5) measurement of physical and chemical properties of reservoir waters; and (6) qualitative and quantitative sampling of plankton and bottom fauna. All of the work is directed toward understanding reservoir ecology and developing techniques for reservoir management that will better meet the constantly increasing sport fishing pressure.

The principal research objective is to document the aging processes in a new reservoir ecosystem and compare it simultaneously with an older reservoir on the same river. The ultimate goal is to identify significant factors that may be manipulated by managers to re-create the high abundance of sport fishes typically present during the early history of an impoundment.

**AGGUS, LARRY R.**

1971. Summer benthos in newly flooded areas of Beaver Reservoir during second and third years of filling 1965-66. Pages 139-152 in Gordon E. Hall, ed. Reservoir fisheries and limnology. Am. Fish. Soc., Spec. Publ. 8.

**AGGUS, LARRY R., AND L. O. WARREN.**

1965. Bottom organisms of the Beaver Reservoir basin: a pre-impoundment study. J. Kans. Entomol. Soc. 38(2):163-178.

**APPLEGATE, RICHARD L.**

1966. Pyloric caeca counts as a method for separating the advanced fry and fingerlings of largemouth and spotted basses. Trans. Am. Fish. Soc. 95(2):226.

1966. The use of a bryozoan, *Fredericella sultana*, as food by sunfish in Bull Shoals Reservoir. Limnol. Oceanogr. 11(1):129-130.

**APPLEGATE, RICHARD L., AND JAMES W. MULLAN.**

1967. Food of young largemouth bass, *Micropterus salmoides*, in a new and old reservoir. Trans. Am. Fish. Soc. 96(1):74-77.

1967. Food of the black bullhead (*Ictalurus melas*) in a new reservoir. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 20:288-292.

1967. Zooplankton standing crops in a new and an old Ozark reservoir. Limnol. Oceanogr. 12(4):592-599.

1968. Standing crops of dissolved organic matter, plankton, and seston in a new and an old Ozark reservoir. Pages 517-530 in Reservoir fishery resources symposium, Athens, Ga., April 5-7, 1967. South. Div., Am. Fish. Soc.

1969. Ecology of *Daphnia* in Bull Shoals Reservoir. U.S. Bur. Sport Fish. Wildl., Res. Rep. 74. 23 pp.

**APPLEGATE, RICHARD L., JAMES W. MULLAN, AND DAVID I. MORAIS.**

1967. Food and growth of six centrarchids from shoreline areas of Bull Shoals Reservoir. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 20:469-482.

BAKER, CLAUDE D., DUNCAN W. MARTIN, AND EUGENE H. SCHMITZ.  
 1971. Separation of taxonomically identifiable organisms and detritus taken from shad foregut contents using density-gradient centrifugation. *Trans. Am. Fish. Soc.* 100(1):138-139.

BAKER, CLAUDE D., AND EUGENE H. SCHMITZ.  
 1971. Food habits of adult gizzard and threadfin shad in two Ozark reservoirs. Pages 3-11 in Gordon E. Hall, ed. *Reservoir fisheries and limnology*. Am. Fish. Soc., Spec. Publ. 8.

BECKER, DAVID A., ROBERT G. HEARD, AND PERRY DON HOLMES.  
 1966. A pre-impoundment survey of the helminth and copepod parasites of *Micropterus* spp. of Beaver Reservoir in northwest Arkansas. *Trans. Am. Fish. Soc.* 95(1):23-24.

BOYER, RONALD L., AND LOUIS E. VOGELE.  
 1971. Longear sunfish behavior in two Ozark reservoirs. Pages 13-25 in Gordon E. Hall, ed. *Reservoir fisheries and limnology*. Am. Fish. Soc., Spec. Publ. 8.

BRYANT, HORACE E., AND ALFRED HOUSER.  
 1969. Growth of threadfin shad in Bull Shoals Reservoir. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 22:275-283.  
 1971. Population estimates and growth of largemouth bass in Beaver and Bull Shoals Reservoirs. Pages 349-357 in Gordon E. Hall, ed. *Reservoir fisheries and limnology*. Am. Fish. Soc., Spec. Publ. 8.

BRYANT, HORACE E., AND DAVID I. MORAIS.  
 1970. Identification of ingested gizzard shad and threadfin shad by gizzard dimensions. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 51. 5 pp.

DENDY, J. S., G. B. PARDUE, AND L. R. AGGUS.  
 1971. Disposable planchets for weighing macrobenthos. *Prog. Fish-Cult.* 33(3):184.

DUNCAN, THOMAS O.  
 1970. A technique for the photography of fish scales. *J. Biol. Photogr. Assoc.* 38(1):36-37.  
 1970. Photographing skeletal structures in small fishes. *J. Biol. Photogr. Assoc.* 38(1):34-35.

HEARD, WILLIAM R., AND LOUIS E. VOGELE.  
 1968. A flag tag for underwater recognition of individual fish by divers. *Trans. Am. Fish. Soc.* 97(1):55-57.

HOLMES, PERRY D., AND JAMES W. MULLAN.  
 1965. Infection incidence and intensity of bass tapeworm in black basses of Bull Shoals Reservoir. *Prog. Fish-Cult.* 27(3):142-146.

HOUSER, ALFRED, AND HORACE E. BRYANT.  
 1968. Sampling reservoir fish populations using midwater trawls. Pages 391-404 in *Reservoir fishery resources symposium*, Athens, Ga., April 5-7, 1967. South. Div., Am. Fish. Soc.  
 1970. Age, growth, sex composition, and maturity of white bass in Bull Shoals Reservoir. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 49. 11 pp.

HOUSER, ALFRED, AND JAMES E. DUNN.  
 1967. Estimating the size of the threadfin shad pop-ulation in Bull Shoals Reservoir from midwater trawl catches. *Trans. Am. Fish. Soc.* 96(2):176-184.

HOUSER, ALFRED, AND NORVAL F. NETSCH.  
 1971. Estimates of young-of-the-year shad production in Beaver Reservoir. Pages 359-370 in Gordon E. Hall, ed. *Reservoir fisheries and limnology*. Am. Fish. Soc., Spec. Publ. 8.

KILAMBI, RAJ V., AND RAYMOND E. BAGLIN, JR.  
 1969. Fecundity of the gizzard shad, *Dorosoma cepedianum* (LeSueur), in Beaver and Bull Shoals Reservoirs. *Am. Midl. Nat.* 82(2):444-449.  
 1969. Fecundity of the threadfin shad, *Dorosoma petenense*, in Beaver and Bull Shoals Reservoirs. *Trans. Am. Fish. Soc.* 98(2):320-322.

MULLAN, JAMES W., AND RICHARD L. APPLEGATE.  
 1966. The physical-chemical limnology of a new reservoir (Beaver) and a fourteen year old reservoir (Bull Shoals) located on the White River, Arkansas and Missouri. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 19:413-421.  
 1968. Centrarchid food habits in a new and old reservoir during and following bass spawning. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 21:332-342.  
 1969. Use of an echosounder in measuring distribution of reservoir fishes. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 19. 16 pp.  
 1970. Food habits of five centrarchids during filling of Beaver Reservoir 1965-66. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 50. 16 pp.

MULLAN, JAMES W., RICHARD L. APPLEGATE, AND WILLIAM C. RAINWATER.  
 1968. Food of logperch (*Percina caprodes*), and brook silverside (*Labidesthes sicculus*), in a new and old Ozark reservoir. *Trans. Am. Fish. Soc.* 97(3):300-305.

MULLAN, JAMES W., DAVID I. MORAIS, AND RICHARD L. APPLEGATE.  
 1970. Thermal, oxygen and conductance characteristics of a new and old Ozark reservoir. U.S. Bur. Sport Fish. Wildl., Tech. Pap. 52. 29 pp.

NETSCH, NORVAL F., ALFRED HOUSER, AND LOUIS E. VOGELE.  
 1971. Sampling gear for larval reservoir fishes. *Prog. Fish-Cult.* 33(3):175-179.

NETSCH, NORVAL F., GARLAND M. KERSH, JR., ALFRED HOUSER, AND RAJ V. KILAMBI.  
 1971. Distribution of young gizzard and threadfin shad in Beaver Reservoir. Pages 95-105 in Gordon E. Hall, ed. *Reservoir fisheries and limnology*. Am. Fish. Soc., Spec. Publ. 8.

SCHMITZ, EUGENE H., AND CLAUDE D. BAKER.  
 1969. Digestive anatomy of the gizzard shad, *Dorosoma cepedianum*, and the threadfin shad, *D. petenense*. *Trans. Am. Microsc. Soc.* 88(4):525-546.

UNZICKER, JOHN D., LARRY AGGUS, AND L. O. WARREN.  
 1970. A preliminary list of the Arkansas Trichoptera. *J. Ga. Entomol. Soc.* 5(3):167-174.

VOGELE, L. E., R. L. BOYER, AND W. R. HEARD.  
1971. A portable underwater suction device. *Prog. Fish-Cult.* 33(1):62-63.

VOGELE, LOUIS E., AND WILLIAM R. HEARD.  
1967. An experimental hatching and rearing facility  
for larval reservoir fishes. *Prog. Fish-Cult.* 29(3):  
177-179.

**CENTRAL OFFICE, DIVISION OF WILDLIFE RESEARCH**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Washington, D.C. 20240**

Activities of the Division of Wildlife Research are administered by the Division's Central Office in Washington, D.C. The Division was first established in 1934 by consolidation of the following activities: Food Habits Research, Fur Resources, Disease Control, and Biological Investigations. These activities, however, have changed through the years in response to changes in national needs with respect to wildlife.

Food habits investigations were terminated during World War II, and biological surveys of mammals and birds over extensive areas have been replaced with more intensive ecological studies on public lands. Fur farming studies remained with the Department of Agriculture when the Bureau of Biological Survey was transferred to the Department of the Interior in 1940; wild fur animal investigations have been deemphasized because most fur mammals are resident species in the State and wild furs have become less important than ranched furs in the fur trade.

On the other hand, research on ways of controlling damage and nuisance caused by birds and mammals has become more important as man has reclaimed increasing acreage of wild habitat for his own use. The effects of pesticides and pollutants on wild animals and on their food chains has increased in importance with increased public awareness of the quality of the environment. That awareness has also brought about increased efforts to stem the rate of extinction of species and subspecies of wildlife. Research to provide methods of managing waterfowl has been an involvement of the Division of Wildlife Research, and increased public interest in nongame species of migratory birds has resulted in increased emphasis in the Division's program. Investigations to ameliorate the effects of disease and parasites on wildlife have continued with emphasis on those that affect waterfowl.

The function of the staff of the Washington Office is to plan and implement the wildlife research program of the Bureau, and to establish priorities within the program. The staff exercises general supervision of the conduct and reporting of research projects, which are conducted at five main research installations and 37 field stations subsidiary to these installations. The purpose of the Bureau's research program is to provide the knowledge needed for effective and efficient management of the Nation's wildlife resources.

**ADAMS, LOWELL, MITCHELL G. HANAVAN, NEIL W. HOSLEY, AND DAVID W. JOHNSTON.**

1949. The effects on fish, birds and mammals of DDT used in the control of forest insects in Idaho and Wyoming. *J. Wildl. Manage.* 13(3):245-254.

**ALDRICH, JOHN W.**

1959. Review of *Principles of field biology and ecology*, by Allen H. Benton and William E. Werner, Jr. *Atl. Nat.* 14(3):216.

1960. Whooping cranes—fall of 1959. *Audubon Mag.* 62(1):5.

1961. Review of *Type specimens of birds in the United States National Museum*, by H. G. Deigman. *Atl. Nat.* 16(4):262.

1963. Geographic orientation of American Tetraonidae. *J. Wildl. Manage.* 27(4):529-545.  
1963. Population systematics in bird conservation. *Proc. Int. Ornithol. Congr.* 13:819-830.  
1963. Status of the whooping crane and conservation efforts. *Modern Game Breed.* 33(1):14-16.  
1963. Review of *The migration of birds* by Jean Dorst. *Atl. Nat.* 18(4):254-256.  
1964. The gooney birds of Midway. *Natl. Geogr. Mag.* 125(6):838-851.  
1964. The wood warblers. Pages 254-289 in Alexander Wetmore, ed. *Song and garden birds in North America*. National Geographic Society, Washington, D.C.

ALDRICH, JOHN W.

1964. Review of *Birds of the Labrador Peninsula*, by W. E. Clyde Todd. *Atl. Nat.* 19(3):187-189.

1965. The albatrosses, soaring nomads of the sea; and quail, partridges, and pheasants. Pages 48-55 and 278-291 in *Water, prey, and gamebirds of North America*, Alexander Wetmore, ed. National Geographic Society, Washington, D.C.

1966. Before it is too late. Pages 488-505 in Alfred Stefferud, ed. *Birds in our lives*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

1966. Review of *Birds around the world*, by Dean Amadon. *Atl. Nat.* 21(2):62.

1966. Review of *The birds of Guyana*, by Dorothy E. Snyder. *Atl. Nat.* 21(4):213-214.

1967. Historical background; and Taxonomy, distribution and present status. Pages 3-16; and 17-44 in Oliver E. Hewitt, ed. *The wild turkey and its management*. The Wildlife Society, Washington, D.C.

1967. Review of *The birds of Canada*, by W. Earl Godfrey. *Auk* 84(3):434-435.

1967. Review of *Whooping crane population dynamics on the nesting grounds, Wood Buffalo National Park, Northwest Territories, Canada*, by N. S. Novakowski. *Arctic* 20(4):276.

1968. Population characteristics and nomenclature of the hermit thrush. *Proc. U.S. Natl. Mus.* 124 (3637):1-33.

1968. Review of *The wild turkey, its history and domestication*, by A. W. Schorger. *Wilson Bull.* 80(1):114-115.

1968. Review of *The breeding biology of Ross' goose in the Perry River Region, Northwest Territories*, by J. P. Ryder. *Arctic* 21(1):54.

1970. Review of the problem of birds contaminated by oil and their rehabilitation. *U.S. Bur. Sport Fish. Wildl., Resour. Publ.* 87. 23 pp.

1971. Review of *Species taxa of North American birds, a contribution to comparative systematics*, by E. Mayr and L. L. Short. *Wilson Bull.* 83(3):320-322.

1972. A new subspecies of sandhill crane from Mississippi. *Proc. Biol. Soc. Wash.* 85(5):63-70.

1972. Review of *A field guide to the birds of Mexico and Central America*, by L. Irby Davis. *Atl. Nat.* 27(4):195-196.

ALDRICH, JOHN W., AND K. P. BAER.

1970. Status and speciation in the Mexican duck (*Anas diazi*). *Wilson Bull.* 82(1):66-73.

ALDRICH, JOHN W., AND C. S. ROBBINS.

1970. Changing abundance of migratory birds in North America. Pages 17-26 in H. K. Buechner and F. H. Buechner, eds. *Avifauna of northern Latin America*. Smithson. Contrib. Zool. no. 26.

ALDRICH, JOHN W., C. S. ROBBINS, AND W. W. DYKSTRA.

1961. Bird hazard to aircraft. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 429. 10 pp.

BASKETT, THOMAS S.

1970. Missouri Cooperative Wildlife and Fishery Units, 1938-1968. Pages 365-374 in W. O. Nagel, ed. *Conservation contrasts—three decades of non political management of wildlife and forests in Missouri*. Missouri Department of Conservation Jefferson City. 453 pp.

BEAL, F. E. L., AND W. L. MCATEE.

1941. Common birds of the southeastern United States in relation to agriculture. *U.S. Fish Wildl. Serv., Conserv. Bull.* 15. 43 pp.

BELL, W. B.

1941. Fish and Wildlife Service. *Recreation* 34(11) 660-661.

BENNETT, LOGAN J.

1949. Rural conservation education from the view point of the Fish and Wildlife Service. *Trans. North Am. Wildl. Conf.* 14:200-203.

1950. Is your rabbit hunting doomed? *Wis. Conserv. Bull.* 15(5):18-20.

BOHL, WAYNE H.

1964. A study and review of the Japanese green and the Korean ringnecked pheasants. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 83. 65 pp.

1968. Results of foreign game introduction. *Trans. North Am. Wildl. Nat. Resour. Conf.* 33:389-398

1970. A study of the crested tinamous of Argentina. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 131. 101 pp.

1970. The copper pheasants. *U.S. Bur. Sport. Fish Wildl., Foreign Game Leafl.* 12. 4 pp.

1970. The green pheasants. *U.S. Bur. Sport. Fish Wildl., Foreign Game Leafl.* 13. 4 pp.

1970. The South Korean ring-necked pheasant. *U.S. Bur. Sport. Fish. Wildl., Foreign Game Leafl.* 15 4 pp.

1971. The Kalij pheasants. *U.S. Bur. Sport. Fish Wildl., Foreign Game Leafl.* 18. 4 pp.

1971. The white-winged pheasants. *U.S. Bur. Sport. Fish. Wildl., Foreign Game Leafl.* 21. 4 pp.

1971. The imperial or black-bellied sandgrouse. *U.S. Bur. Sport. Fish. Wildl., Foreign Game Leafl.* 22 4 pp.

1971. The chukar and great partridges. *U.S. Bur. Sport. Fish. Wildl., Foreign Game Leafl.* 24. 4 pp.

1972. The Erckel's francolins. *U.S. Bur. Sport. Fish. Wildl., Foreign Game Leafl.* 26. 4 pp.

1972. The snow partridges. *U.S. Bur. Sport. Fish. Wildl., Foreign Game Leafl.* 27. 4 pp.

BOHL, WAYNE H., AND GARDINER BUMP.

1970. Summary of foreign game bird liberations 1960 to 1968 and propagation 1966 to 1968. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 130. 61 pp.

BOHL, WAYNE H., AND LOIS M. COX.

1968. The art and science of relocating birds. *Utah Sci.* 29(3):84-87.

1968. Exotic game birds in Utah's future. *Utah Sci.* 29(4):117-123.

BUCKLEY, JOHN L.

1958. The Pacific walrus. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 41. 29 pp.

1959. Effects of fire on Alaskan wildlife. Pages 123-126 in *Proceedings Society American Foresters*, 1958.

BUMP, GARDINER.

1950. Wildlife habitat changes in the Connecticut Hill game management area. Cornell Univ. Agric. Exp. Stn. Memoir 289. 75 pp.

1951. Game introductions—when, where, and how. Trans. North Am. Wildl. Conf. 16:316-325. (Also in Wyo. Wildl. 15(6):16-21, 36.)

1952. How shall foreign species be introduced? Atl. Nat. 7(3):112-117.

1958. New birds for old. Colo. Outdoors Mag. 7(2): 1-6.

1958. Red-legged partridges of Spain. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 39. 38 pp.

1963. History and analysis of Tetraonidae introductions into North America. J. Wildl. Manage. 27 (4):855-867.

1968. Foreign game investigation. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 49. 14 pp.

1968. Review of *Acclimatization of animals in the U.S.S.R.*, A. I. Yanushevich, ed. J. Wildl. Manage. 32(1):209-211.

1970. The black francolin. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 1. 4 pp.

1970. The gray francolins. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 2. 4 pp.

1970. The redwing francolins. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 3. 4 pp.

1970. The South African graywing francolins. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 4. 4 pp.

1970. The black grouse. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 5. 4 pp.

1970. The red junglefowls. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 6. 4 pp.

1970. The bearded partridges. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 7. 4 pp.

1970. The eastern gray partridges. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 8. 4 pp.

1970. The Manchurian ring-necked pheasant. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 9. 4 pp.

1970. The coturnix or Old World quails. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 10. 4 pp.

1970. The yellow-necked spurfowl. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 11. 4 pp.

1970. The Reeves pheasant. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 14. 4 pp.

1970. The red-legged partridges. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 16. 4 pp.

1970. The western gray or Hungarian partridges. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 17. 4 pp.

1971. The spotted tinamous. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 19. 4 pp.

1971. The red-winged tinamous. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 20. 4 pp.

1972. The black-necked pheasants. U.S. Bur. Sport Fish. Wildl., Foreign Game Leafl. 25. 4 pp.

BUMP, GARDINER, AND WAYNE H. BOHL.

1961. Red junglefowl and kalij pheasants. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 62. 41 pp.

1964. Summary of foreign game bird propagation and liberations, 1960 to 1963. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 80. 48 pp.

BUMP, GARDINER, AND JANET W. BUMP.

1964. A study and review of the black francolin and the gray francolin. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 81. 86 pp.

1969. A study of the spotted tinamous and the pale spotted tinamous of Argentina. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 120. 160 pp.

BUMP, GARDINER, AND CHANDLER S. ROBBINS.

1966. The newcomers. Pages 343-353 in Alfred Stefferud, ed. Birds in our lives. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

CARLSON, C. EDWARD.

1964. A red fox fatality by self-entrapment. J. Mammal. 45(2):318-319.

1966. We need to know. Pages 460-466 in Alfred Stefferud, ed. Birds in our lives. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

1966. Introductory remarks; and Objectives of the conference. Pages 1 and 7 in Proc. of the First Int. Sci. Meet. on the Polar Bear. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 16 and Univ. Alaska Int. Conf. Proc. Series 1.

CASTO, WILLIAM, AND CLIFFORD C. PRESNALL.

1944. Comparison of coyote trapping methods. J. Wildl. Manage. 8(1):65-70.

CHRISTENSEN, GLEN C., WAYNE H. BOHL, AND GARDINER BUMP.

1964. A study and review of the common Indian sandgrouse and the imperial sandgrouse. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 84. 71 pp.

COTTAM, CLARENCE.

1944. Birds and the west Tennessee River lake. Migrant 15(1):1-3, 10-11.

1944. The role of impoundments in postwar planning for waterfowl. Trans. North Am. Wildl. Conf. 9: 288-295.

1944. Starlings feeding on the backs of cattle. Migrant 15(2):24-25.

1944. Eastern lark sparrow and upland plover in western Tennessee. Migrant 15(2):29.

1944. Gulls as vegetarians. Condor 46(3):127-128.

1945. Research problems on the United States National Wildlife Refuges. Trans. North Am. Wildl. Conf. 10:347-353.

1945. Speed and endurance of the coyote. J. Mammal. 26(1):94.

1945. Diving habits of the shoveller duck. Condor 47(1):39.

1945. The ruddy turnstone in Utah. Condor 47(2): 79.

1945. Feeding habits of the Clark nutcracker. Condor 47(4):168.

1945. Some records of birds in Utah. Condor 47(4): 172-173.

1945. California gulls feeding on midges. Condor 47(5):216.

1945. The whistling swan in Maine. Auk 62(4): 634-635.

**COTTAM, CLARENCE.**

- 1945. The American eider in Delaware. *Auk* 62(4): 684.
- 1945. Eelgrass conditions along the Atlantic seaboard of North America. *Plant Disease Reporter* 29(12):302-310.
- 1946. Late nesting of Caspian tern in Utah. *Condor* 48(2):94-95.

**COTTAM, CLARENCE, JOHN J. LYNCH, AND ARNOLD NELSON.**

- 1944. Food habits and management of American sea brant. *J. Wildl. Manage.* 8(1):36-56.

**COTTAM, CLARENCE, AND CLIFFORD C. PRESNALL.**

- 1946. Partnership in conservation of renewable resources. *State Government* 19(6):153-156, 162.

**COTTAM, CLARENCE, AND F. M. UHLER.**

- 1945. Birds in relation to fishes. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 272. 16 pp.

**COUCH, LEO K.**

- 1946. Effects of DDT on wildlife in a Mississippi River bottom woodland. *The Audubon Bull. (Ill. Audubon Soc.)*, no. 58:1-7.

**COUTTS, JAMES M.**

- 1966. Review of *Face of North America*, by Peter Farb. *Atl. Nat.* 21(1):63-64.

**CRISSEY, WALTER F.**

- 1953. The use of a dictating machine to record aerial observations. *J. Wildl. Manage.* 17(4):539-540.

**CRISSEY, WALTER F., compiler.**

- 1954. 1954 Status report of waterfowl. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 26. 97 pp.
- 1958. 1958 Status report of waterfowl. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 40. 133 pp.
- 1959. 1959 Status report of waterfowl. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 45. 169 pp.
- 1960. Waterfowl status report, 1960. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 51. 192 pp.

**DALE, FRED H.**

- 1960. Review of *The enduring pattern*, by Hal Borland. *Atl. Nat.* 15(1):64.
- 1960. Management of the ring-necked pheasant. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 412. 4 pp.
- 1960. Bobwhite propagation and management. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 426. 4 pp.
- 1961. Research problems in wildlife administration. *J. Wildl. Manage.* 25(3):265-271.
- 1962. Review of *Speak to the earth*, by William A. Breyfogle. *Atl. Nat.* 17(1):73.
- 1962. Review of *Introduction to the study of animal populations*, by H. G. Andrewartha. *Atl. Nat.* 17(2):149-150.
- 1962. Review of *Birth of a national park in the Great Smoky Mountains*, by Carlos C. Campbell. *Atl. Nat.* 17(4):284.
- 1963. Review of *Birds and woods*, by W. B. Yapp. *Atl. Nat.* 18(4):268-269.
- 1964. Review of *A study in bird song*, by Edward A. Armstrong. *Atl. Nat.* 19(1):69-70.
- 1964. Review of *Biology of birds*, by Westley E. Lanyon. *Atl. Nat.* 19(1):72.

**DALE, FRED H., AND LAURITS W. KREFTING.**

- 1966. Birds and forests. Pages 404-413 in Alfred Stefferud, ed. *Birds in our lives*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

**DUSTMAN, EUGENE H.**

- 1960. Man's chemicals and natural resources. *Conserv. Volunteer* 23(133):52-56.

**DYKSTRA, WALTER W.**

- 1959. Food contamination by rodents and birds. *Cereal Sci. Today* 4(10):303-304.
- 1960. Nuisance bird control. *Audubon Mag.* 62(3): 118-119.
- 1961. Pesticides and you. *Natl. Humane Rev.* 49(3): 7, 22.
- 1962. Commensal rodents. Pages 245-249 in *Proceedings of the Vertebrate Pest Control Conference* (National Pest Control Assoc., Elizabeth, N.J.).
- 1966. Damage by rodents and other wildlife. Pages 69-73 in *Jack Hayes, ed. Yearbook of Agriculture* 1966. U.S. Government Printing Office, Washington, D.C.
- 1966. To kill a bird. Pages 446-453 in Alfred Stefferud, ed. *Birds in our lives*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.
- 1968. The rat problem in the U.S.A.; and The economic importance of rodents. Pages 31-33 and 47-52 in *Proc. Asian-Pacific Interchange, rodents as factors in disease and economic loss* (Inst. for Tech. Interchange, Center for Cultural and Technical Interchange between East and West, Honolulu, Hawaii).
- 1969. Conservation and water management problems. *Public Health News (N.J. State Dep. Health)* 50(10):231, 239.

**DYKSTRA, WALTER W., AND ROBERT E. LEMMON.**

- 1966. The role of chemicals for the control of vertebrate pests. Pages 29-34 in *Pest control by chemical, biological, genetic, and physical means; a symposium*. U.S. Dep. Agric., Publ. ARS-110.

**ERICKSON, DAVID L.**

- 1970. Attitudes and communications about wildlife. *Trans. North Am. Wildl. Nat. Resour. Conf.* 35: 372-383.

**ERICKSON, RAY C.**

- 1959. Review of *Living birds of the world*, by Thomas E. Gilliard. *Atl. Nat.* 14(1):61-62.
- 1959. Review of *The birds*, by Oskar and Katharina Heinroth. *Atl. Nat.* 14(1):64-65.
- 1960. Diving ducks, their past and future. *Atl. Nat.* 15(1):10-18.
- 1963. Oil pollution and migratory birds. *Atl. Nat.* 18(1):5-14.
- 1964. Planting and misplanting. Pages 579-591 in Joseph P. Linduska, ed. *Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

**FARUQI, SHAMIN A., GARDINER BUMP, P. C. NANADA, AND GLEN C. CHRISTENSEN.**

- 1960. A study of the seasonal foods of the black francolin [*Francolinus francolinus* (Linnaeus)], the grey francolin [*F. pondicerianus* (Gmelin)], and the common sandgrouse [*Pterocles erythros*]

FARUQI, SHAMIN A., GARDINER BUMP, P. C. NANADA, AND GLEN C. CHRISTENSEN. Temminck] in India and Pakistan. *J. Bombay Nat. Hist. Soc.* 57(2):1-8.

GABRIELSON, IRA N., AND FREDERICK C. LINCOLN. 1949. A new race of ptarmigan in Alaska. *Proc. Biol. Soc. Wash.* 62:175-176.

1951. A new Alaskan race of the winter wren. *Proc. Biol. Soc. Wash.* 64:73.

1959. The birds of Alaska. Stackpole and Co., Harrisburg, Pa., and Wildlife Management Institute, Washington, D.C. 922 pp.

GEORGE, JOHN L. 1962. Some current thoughts of wildlife biologists concerning mosquito control. *Proc. N.J. Mosq. Exterm. Assoc.* 49:93-95.

1962. Review of *Whose woods these are: the story of the National Forests*, by Michael Frome. *Atl. Nat.* 17(4):281.

1963. Review of *Our synthetic environment*, by Lewis Herber. *Atl. Nat.* 18(1):52.

1963. Nuisance birds—is control possible? *Natl. Agric. Chem. Assoc. News and Pestic. Rev.* 21(5):6-7.

1963. Review of *Whose woods these are: the story of the National Forests*, by Michael Frome. *Am. Midl. Nat.* 69(2):511-512.

1963. Review of *Conservation in the United States*, by R. M. Highsmith, J. G. Jensen, and R. D. Rudd. *Atl. Nat.* 18(4):260-262.

1966. Farmers and birds. Pages 396-403 in Alfred Stefferud, ed. *Birds in our lives*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

GOODRUM, PHIL, W. P. BALDWIN, AND J. A. ALDRICH. 1949. Effect of DDT on animal life of Bull's Island, South Carolina. *J. Wildl. Manage.* 13(1):1-10.

HARRIS, VAN T. 1964. Review of *A field guide to the mammals*, by William M. Burt and Richard P. Grossenheider, 2nd ed. *Atl. Nat.* 19(4):272-273.

1965. Review of *You, me and the animal world*, by Martin Wells. *Atl. Nat.* 20(1):65.

1965. Review of *Animals and men*, by Herman Dembeck. *Atl. Nat.* 20(4):247-248.

1966. Review of *Our National Parks in color*, by Devereux Butcher. *Atl. Nat.* 21(1):57-58.

1966. Review of *The Custer wolf*, by Roger A. Caras. *Atl. Nat.* 21(3):148-149.

1968. Review of *The life of the marsh*, by William A. Niering. *Atl. Nat.* 23(1):56-57.

1968. Review of *Bayou backwaters*, by Allan W. Eckert. *Atl. Nat.* 23(3):172, 174.

1969. Review of *Monarch of Deadman Bay*, by Roger A. Caras. *Atl. Nat.* 24(2):126-127.

HARRIS, VAN T., compiler. 1972. Wildlife Research: problems, programs, progress, 1970. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 104. 98 pp.

1972. Wildlife Research: problems, programs, progress, 1971. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 111. 106 pp.

HARRIS, VAN T., AND CLAIRE L. HARRIS. 1967. Review of *Animal appetites*, by George F. Mason and William Morrow. *Atl. Nat.* 22(3):196-197.

1967. Review of *Foxes live here*, by Irmengarde Eberle. *Atl. Nat.* 22(3):198.

HICKIE, PAUL F. 1957. The application of ecology to wildlife management. *Ecology* 38(1):53-56.

HICKIE, PAUL, compiler. 1953. Inventory of big-game animals of the United States, 1952. U.S. Fish Wildl. Serv., Wildl. Leafl. 348. 2 pp.

1954. Inventory of big-game animals of the United States, 1953. U.S. Fish Wildl. Serv., Wildl. Leafl. 364. 2 pp.

HOSLEY, N. W. 1947. Review of *Experimental modification and control of molts and changes of coatcolor in weasels by controlled lighting*, by Thomas Hume Bissonnette and Earl Elmore Bailey. *J. Mammal.* 28(3):303-304.

1949. Eager beaver trout. *Wyo. Wildl.* 13(3):34-36.

1949. The moose and its ecology. U.S. Fish Wildl. Serv., Wildl. Leafl. 312. 51 pp.

LEEDY, DANIEL L. 1949. Hunting statistics in the United States, 1936 vs. 1946. *Trans. North Am. Wildl. Conf.* 14:410-423.

1950. Ohio's status as a game and fur producing State. *Ohio J. Sci.* 50(2):88-94.

1950. Ducks continue to nest after brush fire at Castalia, Ohio. *Auk* 67(2):234.

1950. Colleges and universities offering courses in wildlife management 1949-50. U.S. Fish Wildl. Serv., Wildl. Leafl. 296. 12 pp.

1951. Review of *Gamonia: or, the art of preserving game; and an improved method of making plantations and covers*, New Edition by Lawrence Rawstorne, Esq. *J. Wildl. Manage.* 15(1):125-128.

1953. Biologists in the field of wildlife conservation. *AIBS [Am. Inst. Biol. Sci.] Bull.* 3(2):21-23.

1953. Aerial photo use and interpretation in the fields of wildlife and recreation. *Photogram. Eng.* 19(1):127-137.

1954. Utah Staters and the wildlife fraternity. *Utah Fish Game Bull.* 10(11):1-2.

1954. Wildlife training and employment. U.S. Fish Wildl. Serv., Wildl. Leafl. 352. 10 pp.

1955. Some contributions of the Cooperative Wildlife Research Units to forest wildlife management. *J. For.* 53(9):630-635.

1955. The Wildlife Society. *La. Conserv.* 7(8):24-25.

1955. Qualifications and training for wildlife research and management workers. [Proc.] Conv. Int. Assoc. Game, Fish, and Conserv. Comm. 45:56-63.

1957. Wildlife conservation: training and employment opportunities. *Sci. Counselor* 20(1):9-11, 24-25.

1959. Pesticide-wildlife problems and research needs. *Trans. North Am. Wildl. Conf.* 24:150-165.

LEEDY, DANIEL L.

- 1959. Report of Wildlife Conservation Planning Committee of IAGF and CC. [Proc.] Conv. Int. Assoc. Game, Fish and Conserv. Comm. 49:38-42.
- 1960. Review of *Wildlife of Mexico: the game birds and mammals*, by A. Starker Leopold. AIBS [Am. Inst. Biol. Sci.] Bull. 10(3):38-39.
- 1960. Photo interpretation in wildlife management. Pages 521-530 in *Manual of photographic interpretation*. Am. Soc. Photogrammetry. 868 pp.
- 1961. Some Federal contributions to bird conservation during the period 1885 to 1960. Auk 78(2): 167-175.

LEEDY, DANIEL L., compiler.

- 1961. Wildlife research progress, Fiscal Year 1960. U.S. Fish Wildl. Serv., Circ. 104. 29 pp.
- 1962. A look at the future. J. For. 60(1):47-49.
- 1962. Additional wildlife research needed. Pages 25-26 in *Effects of pesticides on fish and wildlife: a review of investigations during 1960*. U.S. Fish Wildl. Serv., Circ. 143.

LEEDY, DANIEL L., compiler

- 1963. Review of *The relationship of the Peary and Barren Ground caribou*, by T. H. Manning. AIBS [Am. Inst. Biol. Sci.] Bull. 13(1):43.

LEEDY, D. L., AND C. R. COLE.

- 1950. The effects on pheasants of corn treated with various fungicides. J. Wildl. Manage. 14(2):218-225.

LEEDY, DANIEL L., F. P. CRONEMILLER, CHARLES A. DAMBACH, JOSEPH J. HICKEY, AND NEIL W. HOSLEY.

- 1952. Professional standards and training in the wildlife field (Report by the [Wildl. Soc.] Comm. on Professional Standards). J. Wildl. Manage. 16(3):370-378.

LEEDY, DANIEL L., DAVID A. MUNRO, AND WALTER F. CRISSEY.

- 1964. Research, key to progress. Pages 667-681 in Joseph P. Linduska, ed. *Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

LEHMANN, VALGENE W.

- 1941. Attwater's prairie chicken, its life history and management. U.S. Fish Wildl. Serv., North Am. Fauna 57. 65 pp.

LINCOLN, FREDERICK C.

- 1940. When the dove travels. Outdoor Ga. 1(4): 9, 22. Sept. [August issue is also vol. 1, no. 4.]
- 1941. The waterfowl flyways. Pages 20-29 in Sportsman's guide to wild ducks. American Wildlife Institute, Washington, D.C.
- 1942. Treatment of oil-soaked birds. U.S. Fish Wildl. Serv., Wildl. Leafl. 221. 2 pp.
- 1942. Bird migration in the Western Hemisphere. Pages 8-12 in *Publicado y Distribuido por la Section Panamericana del Comite Internacional para Preservacion de Aves*. (T. Gilbert Pearson, President. 1006 Fifth Ave., New York City, N.Y.) [Pages 1-7 are a Spanish translation of this article.]
- 1942. Migration routes and flyways. Pages 47-53 in Francis H. Kortright, ed. *Ducks, geese, and swans of North America*. American Wildlife Institute, Washington, D.C.

1944. Birdbanding. U.S. Fish Wildl. Serv., Wildl. Leafl. 235 (rev.). 5 pp.

1944. Regulation by flyways. Am. Rifleman 92(11): 21-23, 26.

1944. Chimney swift's winter home discovered. Auk 61(4): 604-609.

1945. The mourning dove as a game bird. U.S. Fish Wildl. Serv., Circ. 10. 8 pp.

1945. Flyway regulations. Trans. North Am. Wildl. Conf. 10:50-51.

1946. Keeping up with the waterfowl. Audubon Mag. 48(3):194-205. (Also, U.S. Fish Wildl. Serv., Wildl. Leafl. 294, 1947, 10 pp.)

1949. The Mississippi Flyway. Pages 1-18 in Eugene V. Connett, ed. *Wildfowling in the Mississippi Flyway*. D. Van Nostrand, New York.

1950. The migration of birds. U.S. Fish Wildl. Serv., Circ. 16. 102 pp.

LLEWELLYN, LEONARD M., AND FRED H. DALE.

- 1964. Notes on the ecology of the opossum in Maryland. J. Mammal. 45(1):113-122.

MCATEE, W. L.

- 1940. A venture in song-bird management. J. Wildl. Manage. 4(1):85-89.
- 1940. Animals do not spare the rod. Nature Mag. 33(2):113-114.
- 1940. Unorthodox thoughts on migration. Auk 57(1):135-136.
- 1940. Attracting Birds. Bur. Biol. Surv., Conserv. Bull. 1. 15 pp.
- 1940. Wildlife in land planning. Bur. Biol. Surv., Wildl. Leafl. BS-160. 6 pp.
- 1940. Wildlife technology. Bur. Biol. Surv., Wildl. Leafl. BS-161. 5 pp.
- 1940. Sound-placing by birds. Nature Mag. 33(6): 357.
- 1940. On scholarly writing and critical reviewing. Sci. Mon. 51(1):77-79.
- 1940. An experiment in songbird management. Auk 57(3):333-348.
- 1940. Review of *A manual of aquatic plants*, by Norman C. Fassett. Wilson Bull. 52(3):218-219.
- 1940. Mimicry by a brown thrasher. Auk 57(4): 574.
- 1940. Eighth supplement to the flora of the District of Columbia and vicinity. Proc. Biol. Soc. Wash. 53:135-154.
- 1940. Biologic balance on the farm. Pages 319-323 in *Smithsonian Report for 1939*. (Publ. no. 3568).
- 1941. When a grass is not a grass. Nature Mag. 34(1):23, 47.
- 1941. What do you call them? Nature Mag. 34(3): 136-140.
- 1941. Wildlife of the Atlantic coast salt marshes. U.S. Fish Wildl. Serv., Circ. 11. 32 pp.
- 1941. Some local names of plants—VII. Torreya 41(2):43-55.
- 1941. Plants useful in upland wildlife management. U.S. Fish Wildl. Serv., Conserv. Bull. 7. 50 pp.
- 1941. Friendly eiders. Natl. Humane Rev. 29(7):21.

MCATEE, W. L.

1941. Thoughts on subspecies. *Sci. Mon.* 53(4): 368-371.

1941. Annotated list and index for *Wildlife Leaflets* 101 to 200. U.S. Fish Wildl. Serv., Wildl. Leafl. 200. 20 pp.

1941. Names of American plants in books on Kalm's travels. *Torreya* 41(5):151-160.

1941. Mack on the economic status of cormorants. [Review of *Cormorants and the Gippsland Lakes Fishery*, by George Mack.]. *Auk* 58(4):595-596.

1942. Propagation of aquatic game birds. U.S. Fish Wildl. Serv., Conserv. Bull. 29. 40 pp.

1942. Bartram's painted vulture. *Auk* 59(1):104.

1942. Nothing new. *J. Wildl. Manage.* 6(1):92-93.

1942. Review of *A guide to fishes of the Great Lakes and tributary waters*, by Carl L. Hubbs and Karl F. Lagler. *J. Wildl. Manage.* 6(1):96.

1942. Trade value of the beak of the ivory-billed woodpecker. *Condor* 44(1):41.

1942. Local bird refuges. U.S. Fish Wildl. Serv., Conserv. Bull. 17. 17 pp.

1942. The specimen fetish. *Sci. Mon.* 54(6):565-566.

1942. Some local names of plants—VIII. *Torreya* 42:153-168.

1942. Ornithological writings of the late Prof. Frank Smith. *Wilson Bull.* 54(4):253-254.

1943. Sassafras tea. *Nature Mag.* 36(1):14, 52, 53.

1943. One-man dogs. *Natl. Humane Rev.* 31(1):9.

1943. Eerie lights. *Nature Mag.* 36(3):135, 160.

1943. The mechanism of heredity in relation to the theory of natural selection. *Ohio J. Sci.* 43(3): 117-120.

1943. An obscure Wisconsin bird list. *Passenger Pigeon* 5(2):58-59.

1944. Popular subspecies. *Auk* 61(1):135-136.

1944. Meadowlark ranges. *Auk* 61(1):147-148.

1944. Sheld-duck in North Carolina. *Auk* 61(1): 148-149.

1944. Why say, "Don't be a goose"? *Nature Mag.* 37(2): 94-95.

1944. Nurse killers. *Nature Mag.* 37(3):146-147. (Also in *J. For.* 42: 683).

1944. Birds pickaback. *Sci. Mon.* 58(3):221-226.

1944. The possessive in vernacular names. *Auk* 61(2): 335-337.

1944. *Anser gambelli*. *Auk* 61(2): 294-295.

1944. Red-eyed towhee anting. *Auk* 61(2): 298.

1944. Timber rattlesnake in the District of Columbia region. *Proc. Biol. Soc. Wash.* 57: 33.

1944. The European migratory quail in North America. *Auk* 61(4): 652.

1944. Do birds fish with bait? *Nature Mag.* 37(8): 410.

1945. Catesby's tropic-bird. *Auk* 62(1):137-139.

1945. Wherein lies the economic value of birds? *Auk* 62(1):149-151.

1945. Some grow littler. *Nature Mag.* 38(3):136, 164.

1945. *Branta c. hutchinsi* on the Atlantic Coast. *Auk* 62(3):461-462.

1945. Interior records of brant. *Auk* 62(3):464-465.

1945. Barred tails in birds. *Ibis* 87:289.

1945. Menomin, nature's cereal. *Nature Mag.* 38(9): 465-466, 499.

1946. Georgian records in John Latham's "general history of birds" 1821-1824. *Oriole* 11(1):1-11.

1946. The economic status of flocking birds. *Condor* 48(1):29-31.

1946. Tipping and bobbing habit in birds. *Murrelet* 27(1):13.

1946. A long-standing error. *Auk* 63(2):242-243.

1947. Wild turkey anting. *Auk* 64(1):130.

1947. Correction to "Popular Subspecies." *Auk* 64(1): 147.

1947. Bird greens. *Nature Mag.* 40(3):125-126.

1947. Cuban nighthawk a species, rather than a race, additional to the check-list. *Auk* 64(3): 455-456.

1947. Hidden note on the passenger pigeon. *Auk* 64(3):461.

1947. Attracting birds. U.S. Fish Wildl. Serv., Conserv. Bull. 1. (rev.). 13 pp.

MCATEE, W. L., editor.

1945. The ring-necked pheasant and its management in North America. American Wildlife Institute, Washington, D.C. 320 pp.

MCATEE, W. L., T. D. BURLEIGH, G. H. LOWERY, AND H. L. STODDARD.

1944. Eastward migration through the Gulf States. *Wilson Bull.* 56(3):152-160.

MCATEE, W. L., AND HERBERT L. STODDARD.

1945. Wettable water birds. *Auk* 62(2):303-304.

MERRILL, HOWARD A.

1969. The present status and tasks of rat control in the U.S. *Schriftenreihe des Vereins fur Wasser-, Boden- und Lufthygiene*, no. 32:93-98.

MOFFITT, JAMES, AND CLARENCE COTTAM.

1941. Eelgrass depletion on the Pacific Coast and its effect upon black brant. U.S. Fish Wildl. Serv., Wildl. Leafl. 204. 26 pp.

PRESNALL, CLIFFORD C.

1942. Original American game conservation in present wartime economy. *Trans. North Am. Wildl. Conf.* 7:62-67.

1943. Reindeer—an Indian Service contribution to the war. *Trans. North Am. Wildl. Conf.* 8:110-116.

1943. Wildlife conservation as affected by American Indian and Caucasian concepts. *J. Mammal.* 24(4): 458-464.

1945. All flesh is grass. *Proc. North Am. Wildl. Conf.* 10:224-228.

1945. Team work in game management. *State Government* 18(10):181-183.

1946. Our wilderness heritage. *Living Wilderness* 11(18):1-11.

1947. The foundation stones of conservation. *Audubon Bull.* 60:1-4.

ROBINETTE, W. LESLIE.

1947. Deer mortality from gunshot wounds. U.S. Fish Wildl. Serv., Wildl. Leafl. 295. 8 pp.

ROGERS, JOHN P.

- 1967. Review of *Raccoons are the brightest people*, by Sterling North. *Atl. Nat.* 22(2):147-148.
- 1967. Review of *Black brant: sea goose of the Pacific Coast*, by Arthur S. Einarsen. *Atl. Nat.* 22(4):245-246.

SMITH, R. I.

- 1970. Response of pintail breeding populations to drought. *J. Wildl. Manage.* 34(4):943-946.

STEBLER, ADOLPH M.

- 1970. Man and the grizzly—coexistence? *Introduction.* *BioScience* 20(21):1141.
- 1972. Conservation of the grizzly—ecologic and cultural considerations. Pages 297-303 in *Bears—their biology and management*. IUCN [Int. Union Conserv. Nat. Resour., Morges, Switzerland] *Publ. New Ser. no. 23.* 371 pp.

SWANSON, GUSTAV.

- 1945. Minnesota's fossil mammals. *Conserv. Volunteer* 8(45):22-24.
- 1945. "Hunting by permission only." *Conserv. Volunteer* 8(48):31-32.

SWANSON, GUSTAV, AND LEE E. YEAGER.

- 1947. Colleges and universities offering courses in wildlife management. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 296. 15 pp.

U.S. FISH AND WILDLIFE SERVICE.

- 1940. The annual fur catch of the United States. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 170. 21 pp.
- 1940. Big-game inventory of the United States, 1939. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 175. 11 pp.
- 1941. Some publications of interest to waterfowl breeders. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 183 (rev.). 4 pp.
- 1941. Directions for collecting materials for food habits studies. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 193. 7 pp.
- 1941. The status of migratory game birds: 1940-41. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 196. 28 pp.
- 1941. Abstract of fur laws, 1941-42. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 199. 40 pp.
- 1941. Publications on attracting birds. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 201. 6 pp.
- 1942. Big-game inventory of the United States, 1940. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 207. 10 pp.
- 1942. The Biological Survey's mammal collection. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 211. 5 pp.
- 1942. Care of buffaloes. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 212. 8 pp.
- 1942. Raising guinea pigs. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 219. 2 pp.
- 1942. Laboratory procedure in wildlife food studies. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 222. 11 pp.
- 1942. Abstract of fur laws, 1942-43. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 226. 43 pp.
- 1943. Annual fur catch of the United States. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 232. 22 pp.
- 1943. Poisonous snakes of the United States. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 233. 17 pp.
- 1943. The status of migratory game birds: 1942-43. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 250. 11 pp.
- 1944. Annual fur catch of the United States. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 253. 21 pp.
- 1944. Control of vagrant domestic pigeons. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 254. 4 pp.
- 1944. Care of parrots. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 259. 16 pp.
- 1944. Status of migratory game birds: 1943-44. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 261. 10 pp.
- 1945. Status of migratory game birds: 1944-45. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 274. 10 pp.
- 1945. Annual fur catch of the United States. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 276. 22 pp.
- 1945. Sources of big-game animals. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 277. 2 pp.
- 1945. Dealers in amphibians and reptiles. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 280. 3 pp.
- 1945. Dealers in upland game birds. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 281. 35 pp.
- 1946. Natural plantings for attracting waterfowl to marsh and other water areas. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 223 (rev.). 4 pp.
- 1946. Big-game inventory of the United States, 1943. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 283. 11 pp.
- 1946. Suggestions for care and rearing of ferrets. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 286. 2 pp.
- 1946. Facts about 1080. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 287. 2 pp.
- 1946. Facts about ANTU. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 288. 2 pp.
- 1946. Raising deer in captivity. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 289. 9 pp.
- 1946. Annual fur catch of the United States. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 290. 22 pp.
- 1948. Aids for bird study. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 180 (rev.). 11 pp.
- 1948. Publications on fur and fur animals. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 208 (rev.). 3 pp.
- 1948. Tularemia, an animal-borne disease. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 271 (rev.). 4 pp.
- 1948. Feeding and caring for squirrels. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 302. 2 pp.
- 1948. Big-game inventory of the United States, 1946. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 303. 14 pp.
- 1948. Two home-made traps for English sparrows. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 307. 9 pp.
- 1949. Big-game inventory of the United States, 1947. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 321. 3 pp.
- 1949. Publications on fur animals and trapping. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 322. 4 pp.
- 1950. Colleges and universities offering courses in wildlife management 1949-1950. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 296 (rev.). 12 pp.
- 1950. Big-game inventory of the United States, 1948. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 321. 3 pp.
- 1951. Inventory of big-game animals of the United States, 1949. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 321. 3 pp.
- 1952. Inventory of big-game animals of the United States, 1950 and 1951. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 342. 5 pp.

**U. S. FISH AND WILDLIFE SERVICE.**

1956. Bird banding. U.S. Fish Wildl. Serv., Wildl. Leafl. 373. 9 pp.

1956. Inventory of big-game animals of the United States, 1954. U.S. Fish Wildl. Serv., Wildl. Leafl. 376. 3 pp.

1957. Big-game inventory for 1955. U.S. Fish Wildl. Serv., Wildl. Leafl. 387. 4 pp.

1957. Fur catch in the United States, 1956. U.S. Fish Wildl. Serv., Wildl. Leafl. 388. 3 pp.

1957. Nutrias in the United States. U.S. Fish Wildl. Serv., Wildl. Leafl. 389. 11 pp.

1958. Big-game inventory for 1956. U.S. Fish Wildl. Serv., Wildl. Leafl. 395. 3 pp.

1958. Fur catch in the United States, 1957. U.S. Fish Wildl. Serv., Wildl. Leafl. 398. 3 pp.

1958. Big-game inventory for 1957. U.S. Fish Wildl. Serv., Wildl. Leafl. 399. 3 pp.

1959. Fur catch in the United States, 1958. U.S. Fish Wildl. Serv., Wildl. Leafl. 410 3 pp.

1959. Big game inventory for 1958. U.S. Fish Wildl. Serv., Wildl. Leafl. 411. 4 pp.

1960. Fur catch in the United States, 1959. U.S. Fish Wildl. Serv., Wildl. Leafl. 424. 3 pp.

1960. Big game inventory for 1959. U.S. Fish Wildl. Serv., Wildl. Leafl. 425. 4 pp.

1961. Fur catch in the United States, 1960. U.S. Fish Wildl. Serv., Wildl. Leafl. 436. 3 pp.

1961. Big game inventory for 1960. U.S. Fish Wildl. Serv., Wildl. Leafl. 440. 4 pp.

1962. Effects of pesticides on fish and wildlife: a review of investigations during 1960. U.S. Fish Wildl. Serv., Circ. 143. 52 pp.

1962. Wildlife research progress, 1961. U.S. Fish Wildl. Serv., Circ. 146. 50 pp.

1962. Fur catch in the United States, 1961. U.S. Fish Wildl. Serv., Wildl. Leafl. 444. 3 pp.

1962. Big game inventory for 1961. U.S. Fish Wildl. Serv., Wildl. Leafl. 446. 4 pp.

1963. Wildlife research: problems, programs, progress, 1962. U.S. Fish Wildl. Serv., Circ. 166. 66 pp.

1963. Pesticide-wildlife studies: a review of Fish and Wildlife Service investigations during 1961 and 1962. U.S. Fish Wildl. Serv., Circ. 167. 109 pp.

1963. Fur catch in the United States, 1962. U.S. Fish Wildl. Serv., Wildl. Leafl. 452. 4 pp.

1963. Big game inventory for 1962. U.S. Fish Wildl. Serv., Wildl. Leafl. 454. 4 pp.

1964. Wildlife research: problems, programs, progress, 1963. U.S. Fish Wildl. Serv., Circ. 188. 80 pp.

1964. Pesticide-wildlife studies, 1963: a review of Fish and Wildlife Service investigations during the calendar year. U.S. Fish Wildl. Serv., Circ. 199. 130 pp.

1964. Fur catch in the United States, 1963. U.S. Fish Wildl. Serv., Wildl. Leafl. 460. 4 pp.

1964. Big game inventory for 1963. U.S. Fish Wildl. Serv., Wildl. Leafl. 461. 4 pp.

1965. Wildlife research: problems, programs, progress, 1964. U.S. Fish Wildl. Serv., Circ. 220. 86 pp.

1965. Survival or surrender for endangered wildlife. U.S. Fish Wildl. Serv., Circ. 223. 16 pp.

1965. Pesticide-wildlife studies by states, provinces, and universities: an annotated list of investigations through 1964. U.S. Fish Wildl. Serv., Circ. 224. 30 pp.

1965. The effects of pesticides on fish and wildlife. U.S. Fish Wildl. Serv., Circ. 226. 77 pp.

1965. Big game inventory for 1964. U.S. Fish Wildl. Serv., Wildl. Leafl. 470. 4 pp.

1965. Fur catch in the United States, 1964. U.S. Fish Wildl. Serv., Wildl. Leafl. 471. 4 pp.

1966. Proceedings of the First International Scientific Meeting on the Polar Bear. (Published jointly) U.S. Bur. Sport Fish. Wildl., Resour. Publ. 16, and the Univ. of Alaska, Int. Conf. Proc. Series no. 1. 72 pp.

1966. Wildlife research: problems, programs, progress, 1965. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 23. 102 pp.

1966. Big game inventory for 1965. U.S. Fish Wildl. Serv., Wildl. Leafl. 473. 4 pp.

1966. Fur catch in the United States, 1965. U.S. Fish Wildl. Serv., Wildl. Leafl. 474. 4 pp.

1967. Wildlife research: problems, programs, progress, 1966. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 43. 117 pp.

1967. Big game inventory for 1966. U.S. Fish Wildl. Serv., Wildl. Leafl. 477. 4 pp.

1967. Fur catch in the United States, 1966. U.S. Fish Wildl. Serv., Wildl. Leafl. 478. 4 pp.

1968. Big game inventory for 1967. U.S. Fish Wildl. Serv., Wildl. Leafl. 481. 4 pp.

1968. Fur catch in the United States, 1967. U.S. Fish Wildl. Serv., Wildl. Leafl. 482. 4 pp.

1969. Wildlife research: problems, programs, progress, 1967. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 74. 104 pp.

1969. Big game inventory for 1968. U.S. Fish Wildl. Serv., Wildl. Leafl. 487. 4 pp.

1969. Fur catch in the United States, 1968. U.S. Fish Wildl. Serv., Wildl. Leafl. 488. 4 pp.

1970. Wildlife research: problems, programs, progress, 1968. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 85. 112 pp.

1970. Big game inventory for 1969. U.S. Fish Wildl. Serv., Wildl. Leafl. 492. 4 pp.

1970. Fur catch in the United States, 1969. U.S. Fish Wildl. Serv., Wildl. Leafl. 493. 4 pp.

1971. Wildlife research: problems, programs, progress, 1969. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 94. 104 pp.

1971. Big game inventory for 1970. U.S. Fish Wildl. Serv., Wildl. Leafl. 497. 4 pp.

1971. Fur catch in the United States, 1970. U.S. Fish Wildl. Serv., Wildl. Leafl. 499. 4 pp.

WOODBURY, ANGUS M., AND CLARENCE COTTAM.

1944. Type locality of *Perisoreus canadensis capitatus* Ridgway. Auk 61(1):131-132.

YEAGER, LEE E.

1946. Squirrel distribution in Illinois. Ill. Conserv. 11(1-2):5, 33.

YEAGER, LEE E.

1964. *Fur and feathers*. Pages 313-322 in Joseph P. Linduska, ed. Waterfowl tomorrow. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

1965. Review of *Wildlife Biology* by Raymond F. Dasmann. *J. For.* 63(8):627-628.

1965. Thirty years of Cooperative Wildlife Research Units, 1935-1965. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 6. 34 pp.

YEAGER, LEE E., editor.

1966. The making of a wildlifer: a symposium. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 30. 64 pp.

**BIRD AND MAMMAL LABORATORIES**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Washington, D.C. 20560**

Although the name of the Bird and Mammal Laboratories (BML) is fairly recent, the history of the unit is long and complex. The functions now performed by the BML have been carried out previously by antecedent organizations and some of the early work of the BML is now assigned to other units of the Division and Bureau.

In 1951, the Section of Distribution and Migration of Birds merged with the Section of Biological Surveys to form the Section of Distribution of Birds and Mammals in the Branch of Wildlife Research. In 1957, in conjunction with sweeping reorganization of the Branch and the establishment of research centers, that Section lost much of its former responsibility relating to bird migration and distribution. At that time, it also absorbed many of the functions of the former Wild Animal Fur Investigations Section. With this reorganization the present name and responsibilities of the BML were established. In 1972 a Herpetology Section was developed in the BML to correspond to the Bird Section and the Mammal Section.

The primary function of the BML is to conduct original research on the systematics, distribution, and life history of terrestrial vertebrate species, particularly those of North America and others of interest to the Bureau. Additionally, the BML performs a wide variety of services related to identification and information that are dependent on the museum-field-systematics approach to biology. These services are for other Federal, State, and non-governmental organizations as well as for the Bureau.

Historically housed in the National Museum of Natural History of the Smithsonian Institution, the BML works in close cooperation with the Museum's Department of Vertebrate Zoology in curating the National collection of research specimens of birds and mammals. More recently reptiles and amphibians, particularly the large proportion of these collections that was amassed by the extensive field operations of the original Bureau of Biological Survey, have come under the curatorial jurisdiction of BML. Field stations are maintained in Seattle, Washington, for research work on marine mammals of the Pacific area, and in Anchorage, Alaska, for polar bear research which is coordinated internationally.

Space for offices, laboratory, and specimen storage amounts to 18,500 square feet provided by the Smithsonian Institution.

**ACKER, E., AND STANLEY YOUNG.**

1948. Review of *Mammals of North America*, by Victor H. Cahalane. *Am. Midl. Nat.* 39(1):256.

**ALDOUS, SHALES E.**

1946. Live trapping and tagging muskrats. *J. Wildl. Manage.* 10(1):42-44.

1947. Muskrat trapping on Sand Lake National Wildlife Refuge, South Dakota. *J. Wildl. Manage.* 11(1):77-90.

**ALDRICH, JOHN W.**

1942. New bobwhite from northeastern Mexico. *Proc. Biol. Soc. Wash.* 55:67-70.

1942. Specific relationships of the golden and yellow

warblers. *Auk* 59(3):447-449.

1943. Biological survey of the bogs and swamps in northeastern Ohio. *Am. Midl. Nat.* 30(2):346-402.

1943. A new fox sparrow from the northwestern United States. *Proc. Biol. Soc. Wash.* 56:163-166.

1943. Relationships of the Canada jays in the northwest. *Wilson Bull.* 55(4):217-222.

1944. Notes on the steller jays (*Cyanocitta stelleri*) of southern Mexico. *Proc. Biol. Soc. Wash.* 57:23-24.

1944. Notes on the races of the white-breasted nuthatch. *Auk* 61 (4):592-604.

**ALDRICH, JOHN W.**

- 1944. Geographic variation of bewick wrens in the eastern United States. *Occas. Pap. Mus. Zool. La. State Univ.* no. 18:305-309.
- 1945. Additional breeding and migration records of the black-backed robin. *Auk* 62(2):310-311.
- 1945. Birds of deciduous forest aquatic succession. *Wilson Bull.* 57(4):243-252.
- 1945. Notes on Panamanian birds. *Auk* 62(1):111-114.
- 1946. Significance of racial variation in birds to wildlife management. *J. Wildl. Manage.* 10(2):86-93.
- 1946. Speciation in the white-cheeked geese. *Wilson Bull.* 58(2):94-103.
- 1946. The United States races of the bob-white. *Auk* 63(4):493-508.
- 1946. New subspecies of birds from western North America. *Proc. Biol. Soc. Wash.* 59:129-136.
- 1947. Counting the birds. *Audubon Mag.* 44(4):214-220.
- 1947. The Hungarian and chukar partridges in America. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 292. 10 pp.
- 1948. The breeding distribution of the dickcissel. *Audubon Field Notes* 2(1):12-13.
- 1948. Additional light on the races of the dowitcher. *Auk* 65(2):285-286.
- 1949. A new house finch from the Palouse country of the northwestern United States. *Proc. Biol. Soc. Wash.* 62:29-30.
- 1950. Definite common names for species—and editorial policy. *Audubon Field Notes* 4(1):36-39.
- 1950. More on the subject of common names. *Audubon Field Notes* 4(4):260.
- 1951. A review of the races of the Traill's flycatcher. *Wilson Bull.* 63(3):192-197.
- 1951. Review of *Mourning dove studies in North Carolina*, by Thomas L. Quay. *J. Wildl. Manage.* 15(4):426-428.
- 1952. The source of migrant mourning doves in southern Florida. *J. Wildl. Manage.* 16(4):447-456.
- 1953. Habits and habitat differences in two races of the Traill's flycatcher. *Wilson Bull.* 65(1):8-11.
- 1954. Review of *Our wildlife legacy*, by Durward Allen. *U.S. Q. Book Rev.* 10(3):407.
- 1956. Review of *The honey-guides*, by Herbert Friedmann. *Atl. Nat.* 11(5):239.
- 1956. Summary of woodcock, snipe and rail investigations for 1955. Pages 1-6 in *Investigations of woodcock, snipe, and rails in 1955*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 31. 54 pp.
- 1957. Management of the mourning dove. Pages 187-191 in Lawrence M. Bings, ed. *Outdoor horizons*. T. S. Denison and Co., Minneapolis.
- 1957. Perspective of woodcock, snipe and rail investigations—1956. Pages 1-7 in *Investigations of woodcock, snipe, and rails in 1956*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 34.
- 1957. Woodcock breeding ground counts in the central-northern United States 1956. Pages 37-41 in *Investigations of woodcock, snipe, and rails in 1956*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 34.
- 1957. Review of *Bird ringing—the art of bird study by individual marking*, by R. M. Lockley and Rosemary Russell. *Atl. Nat.* 12(3):139-140.
- 1958. Conflict of birds and aircraft at Midway. *Audubon Mag.* 60 (1):27-29, 35, 41.
- 1959. Activities of coquina clams. *Atl. Nat.* 14(1):41-43.

**ALDRICH, JOHN W., AND ALLEN J. DUVALL.**

- 1955. Distribution of American gallinaceous game birds. *U.S. Fish Wildl. Serv., Circ.* 34. 23 pp.
- 1958. Distribution and migration of races of the mourning dove. *Condor* 60(2):108-128.

**ALDRICH, JOHN W., ALLEN J. DUVALL, AND AELRED D. GEIS.**

- 1958. Racial determination of origin of mourning doves in hunters' bags. *J. Wildl. Manage.* 22(1):71-75.

**ALDRICH, JOHN W., AND HERBERT FRIEDMANN.**

- 1943. A revision of the ruffed grouse. *Condor* 45(3):85-103.

**ALDRICH, JOHN W., AND JOHN E. STEENIS.**

- 1955. Neckbanding and other color marking of waterfowl; its merits and shortcomings. *J. Wildl. Manage.* 19(2):317-318.

**[ALDRICH, JOHN W., AND OTHERS.]**

- 1949. Migration of some North American waterfowl. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 1. 49 pp.
- 1952. Investigations of woodcock, sipe, and rails in 1951. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 14. 58 pp.
- 1953. Investigations of woodcock, sipe, and rails in 1952. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 18. 55 pp.
- 1954. Investigations of woodcock, sipe, and rails in 1953. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 24. 68 pp.
- 1955. Investigations of woodcock, sipe, and rails in 1954. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 28. 62 pp.

**ALEXANDER, MAURICE M., AND HERBERT L. DOZIER.**

- 1949. An extreme case of malocclusion in the muskrat. *Am. Midl. Nat.* 42(1):252-254.

**ASHBROOK, FRANK G.**

- 1943. Fur animals, a valuable natural resource. *Chicago Nat.* 6(4):78-83.
- 1944. Federal furs taken in 1943 sell for \$118,216. *Fur J.* 10(5):6.
- 1946. Your game on the table. *Pa. Game News* 17(8):12-13, 35.
- 1948. Fur—an important wildlife crop. *Trans. North Am. Wildl. Conf.* 13: 465-474. (Also publ. as U.S. Fish Wildl. Serv., Wildl. Leafl. 314. 6 pp., 1948; and in *Natl. Fur News* 20(3): 15, 25 and (4): 20, 24.)
- 1948. Nutrias grow in the United States. *J. Wildl. Manage.* 12(1):87-95. (Also publ. as U.S. Fish Wildl. Serv., Wildl. Leafl. 319, 14 pp., 1949.)
- 1948. The story of fur farming. *Natl. Fur News* 20(10):30-31, 94-95.

**ASHBROOK, FRANK G.**

1948. Fur farming for profit (rev. ed.). Orange Judd Publ. Co., New York. 429 pp.

1948. Fur animals, their importance and value to the farmer. *Black Fox Mag.* 31(12):16, 26.

1948. Fur an important wildlife resource. *Tex. Game Fish* 7(1):17, 23.

1951. Raising small animals for pleasure and profit. D. Van Nostrand Co., New York. 260 pp.

1951. Transcendental gastronomic art. Pages 653-659 in Alfred Stefferud ed. *Crops in peace and war*. U.S. Department of Agriculture Yearbook, 1950-1951. U.S. Government Printing Office, Washington, D.C.

1953. Muskrat-nutria. *La. Conserv.* 5(6):16-17.

1954. Furs glamorous and practical. D. Van Nostrand Co., New York. 88 pp.

1955. Fur developments in the United States. *Das Pelzgewerbe*, no. 3:73-76. (Leipzig.)

**ASHBROOK, FRANK G., compiler.**

1943. Abstract of fur laws, 1943-44. U.S. Fish Wildl. Serv., Wildl. Leafl. 249. 43 pp.

1944. Abstract of fur laws, 1944-45. U.S. Fish Wildl. Serv., Wildl. Leafl. 262. 43 pp.

1945. Abstract of fur laws, 1945-46. U.S. Fish Wildl. Serv., Wildl. Leafl. 279. 48 pp.

1946. Abstract of fur laws, 1946-47. U.S. Fish Wildl. Serv., Wildl. Leafl. 291. 49 pp.

1947. Abstract of fur laws, 1947-48. U.S. Fish Wildl. Serv., Wildl. Leafl. 297. 46 pp.

1947. Annual fur catch of the United States. U.S. Fish Wildl. Serv., Wildl. Leafl. 298. 24 pp.

1948. Annual fur catch of the United States. U.S. Fish Wildl. Serv., Wildl. Leafl. 315. 24 pp.

1948. Abstract of fur laws, 1948-49, U.S. Fish Wildl. Serv., Wildl. Leafl. 316. 42 pp.

1949. Abstract of fur laws, 1949-50. U.S. Fish Wildl. Serv., Wildl. Leafl. 326. 42 pp.

1950. Annual fur catch of the United States. U.S. Fish Wildl. Serv., Wildl. Leafl. 315. 23 pp.

1950. Abstract of fur laws, 1950-51. U.S. Fish Wildl. Serv., Wildl. Leafl. 326. 45 pp.

1951. Annual fur catch of the United States. U.S. Fish Wildl. Serv., Wildl. Leafl. 315. 25 pp.

1951. Abstract of fur laws, 1951-52. U.S. Fish Wildl. Serv., Wildl. Leafl. 326. 43 pp.

1952. Annual fur catch of the United States. U.S. Fish Wildl. Serv., Wildl. Leafl. 315. 24 pp.

1952. Abstract of fur laws, 1952-53. U.S. Fish Wildl. Serv., Wildl. Leafl. 343. 43 pp.

1953. Annual fur catch of the United States. U.S. Fish Wildl. Serv., Wildl. Leafl. 346. 24 pp.

1953. Abstract of fur laws, 1953-54. U.S. Fish Wildl. Serv., Wildl. Leafl. 347. 41 pp.

1954. Annual fur catch of the United States. U.S. Fish Wildl. Serv., Wildl. Leafl. 362. 24 pp.

1954. Abstract of fur laws, 1954-55. U.S. Fish Wildl. Serv., Wildl. Leafl. 363. 39 pp.

1955. Fur catch in the United States, 1949-54. U.S. Fish Wildl. Serv., Wildl. Leafl. 367. 24 pp.

1956. Fur catch in the United States, 1955. U.S. Fish Wildl. Serv., Wildl. Leafl. 380. 3 pp.

**ASHBROOK, FRANK G., AND EDNA N. SATER.**

1944. The increased use of game as food. *Pa. Game News* 15(8):7, 28.

[ASHBROOK, FRANK G., AND STANLEY P. YOUNG, compilers.]

1957. Fur catch in the United States, 1956. U.S. Fish Wildl. Serv., Wildl. Leafl. 388. 3 pp.

**BAILEY, VERNON.**

1942. Allies of the farmer. *Nature Mag.* 35(8):406, 408-409.

1944. Mouse plagues. *Nature Mag.* 37(2):77-79.

**BAILEY, VERNON, AND J. KENNETH DOUTT.**

1942. Two new beavers from Labrador and New Brunswick. *J. Mammal.* 23(1):86-88.

**BANKS, RICHARD C.**

1967. Some supplementary records of birds in Baja California, Mexico. *Condor* 69(3):318.

1967. The *Peromyscus guardia-interparietalis* complex. *J. Mammal.* 48(2):210-218.

1967. Recent records of water birds in the desert. *Bull. South. Calif. Acad. Sci.* 66(2):125-128.

1967. A new insular subspecies of spiny pocket mouse (Mammalia; Rodentia). *Proc. Biol. Soc. Wash.* 80:101-104.

1967. Birds and mammals of La Laguna, Baja California. *Trans. San Diego Soc. Nat. Hist.* 14(17):205-232.

1967. Review of *The birds of Canada*, by W. Earl Godfrey. *Atl. Nat.* 22(2):132-133.

1967. Review of *The life of the desert*, by Ann and Myron Sutton. *Atl. Nat.* 22(3):182-184.

1968. The black-throated sparrow. Pages 990-1004 (part 2) in Arthur Cleveland Bent and collaborators. *Life histories of North American cardinals, grosbeaks, buntings, towhees, finches, sparrows, and allies*. U.S. Natl. Mus. Bull. 237.

1968. Baird's junco. Pages 1138-1136 (part 2) in Arthur Cleveland Bent and collaborators. *Life histories of North American cardinals, grosbeaks, buntings, towhees, finches, sparrows and allies*. U.S. Natl. Mus. Bull. 237.

1968. Annotated bibliography of Nevada ornithology since 1951. *Great Basin Nat.* 28(2):49-60.

1968. Review of *Redbird: the story of a cardinal*, by Robert C. McClung. *Atl. Nat.* 23(2):126.

1968. Review of *Australian birds in color*, by Keith Hindwood. *Atl. Nat.* 23(2):122.

1968. Review of *The pictorial encyclopedia of birds*, by J. Hanzak. *Atl. Nat.* 23(3):167-169.

1968. Review of *The Audubon illustrated handbook of American birds*, by E. M. Reilly, Jr. *Atl. Nat.* 23(4):226-227.

1969. The peregrine falcon in Baja California and the Gulf of California. Pages 81-91 (chapter 6) in Joseph J. Hickey, ed. *Peregrine falcon populations, their ecology and decline*. University of Wisconsin Press, Madison.

1969. Relationships of the avifauna of San Estéban Island, Sonora. *Condor* 71(2):88-93.

1969. Review of *The preservation of natural history specimens*, by R. Wagstaffe and J. H. Fidler. *Atl. Nat.* 24(1):54.

**BANKS, RICHARD C.**

1969. Review of *Life histories of North American cardinals, grosbeaks, buntings, towhees, finches, sparrows, and allies*, by Arthur Cleveland Bent and collaborators. *Auk* 86(4):768-770.

1970. Records of the brambling in North America. *Auk* 87(1):165-167.

1970. The fox sparrow on the west slope of the Oregon Cascades. *Condor* 72(3):369-370.

1970. Molt and taxonomy of red-breasted nuthatches. *Wilson Bull.* 82(2):201-205.

1970. Re-evaluation of two supposed hybrid birds. *Wilson Bull.* 82(3):331-332.

1970. Birds imported into the United States in 1968. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 136. 64 pp.

1970. On ecotypic variation in birds. *Evolution* 24(4):829-831.

1971. Publication dates of the North American Fauna series. *Auk* 88(3):676.

1971. Review of *Animals in migration*, by Robert T. Orr. *Atl. Nat.* 26(1):54-55.

**BANKS, RICHARD C., AND WAYNE H. BOHL.**

1968. Pentland's tinamou in Argentina (Aves: Tinamidae). *Proc. Biol. Soc. Wash.* 81:485-490.

**BANKS, RICHARD C., AND ROBERT L. BROWNELL.**

1969. Taxonomy of the common dolphins of the eastern Pacific Ocean. *J. Mammal.* 50(2):262-271.

**BANKS, RICHARD C., AND ROGER B. CLAPP.**

1972. Birds imported into the United States in 1969. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 148. 99 pp.

**BANKS, RICHARD C., AND ELEY P. DENSON.**

1971. Department of the Interior's regulations on importation and shipment of scientific and zoological specimens of fish and wildlife. *J. Mammal.* 52(2):491-493. (Also publ. in *Copeia* 1971(2):384-386.)

**BANKS, RICHARD C., AND CHARLES G. HANSEN.**

1970. Bird records from southern Nevada. *Condor* 72(1):109-110.

**BANKS, RICHARD C., AND ROXIE C. LAYBOURNE.**

1968. The red-whiskered bulbul in Florida. *Auk* 85(1):141.

**BANKS, RICHARD C., AND DONALD E. LEWIS.**

1969. Bird records from Nevada. *Condor* 71(4):439-441.

**BEHLE, WILLIAM H., AND JOHN W. ALDRICH.**

1947. Description of a new yellowthroat (*Geothlypis trichas*) from the northern Rocky Mountain-Great Plains region. *Proc. Biol. Soc. Wash.* 60:69-72.

**BROOKS, JAMES W., JAMES C. BARTONEK, DAVID R. KLEIN, DAVID L. SPENCER, AND AVERILL S. THAYER.**

1971. Environmental influences of oil and gas development in the Arctic Slope and Beaufort Sea. *U.S. Bur. Sport Fish. Wildl. Resour. Publ.* 96. 24 pp.

**BURLEIGH, THOMAS D.**

1942. January 1940 in southern Mississippi. *Auk* 59(1):119-121.

1942. A new barn swallow from the Gulf Coast of the United States. *Occas. Pap. Mus. Zool. La. State Univ.* no. 11:179-183.

1942. The Arkansas kingbird *Tyrannus verticalis* in Georgia. *Oriole* 7(1):6.

1942. Random notes from Florida. *Auk* 59(3):434.

1943. Recent notes from Athens. Clarke County, Georgia. *Oriole* 8(3-4):17-18.

1944. Description of a new hybrid warbler. *Auk* 61(2):291-293.

1944. The bird life of the Gulf Coast region of Mississippi. *Occas. Pap. Mus. Zool. La. State Univ.* no. 20:329-490.

1946. Notes on the fall migration of 1945 in northeastern Georgia. *Oriole* 11(1):11-14.

1946. A spring record for the Arkansas kingbird in southern Mississippi. *Auk* 63(2):256.

1947. Notes on the fall migration of 1946 in the Atlanta, Georgia, area. *Oriole* 12(2):13-15.

1947. Notes on birds of Georgia based on recent collections made in the state. *Oriole* 12(3):25-32.

1948. Notes on the birds of Georgia based on recent collections made in the state. Part 2. *Oriole* 13(1):2-8.

1948. An early summer record for the American egret at Athens. *Oriole* 13(1):10.

1948. Geographic variation in Newfoundland birds. *Proc. Biol. Soc. Wash.* 61:111-126.

1948. A Georgia record for the Mexican ground dove. *Oriole* 13(2-3):26.

1948. Review of *Field guide to birds of the West Indies*, by James Bond. *Bird-Banding* 19(4):182-183.

1948. A further extension of the breeding range of the mountain vireo in the lower Piedmont Plateau of Georgia. *Oriole* 13(4):34.

1950. Palouse-northern Rocky Mountain region. *Audubon Field Notes* 4(4):252-253; 4(5):285-286.

1950. Give Idaho hawks a break. *Idaho Wildl. Rev.* 2(5):6-7.

1950. A record of the black and white warbler in eastern Washington. *Auk* 67(2):244.

1950. Idaho owls should be pampered, not persecuted; most species aid in controlling small rodents. *Idaho Wildl. Rev.* 2(7):4-5.

1951. Moscow, Idaho [Christmas Bird Count]. *Audubon Field Notes* 5(2):169.

1951. Palouse-northern Rocky Mountain region. *Audubon Field Notes* 5(1):29-30; 5(3):216-218; 5(4):266-268; 5(5):300-301.

1952. Lewiston, Idaho [Christmas Bird Count]. *Audubon Field Notes* 6(2):158.

1952. Review of *Distribution and populations of summer birds in southwestern Georgia*, by Robert A. Norris. *Bird-Banding* 23(2):95-96.

1952. Palouse-northern Rocky Mountain region. *Audubon Field Notes* 6(1):29-31; 6(3):206-207; 6(4):258-260; 6(5):291-292.

1953. Another record for the occurrence of the West Mexican tropical kingbird in the state of Wyoming. *Murrelet* 35(3):49.

1953. Palouse-northern Rocky Mountain region. *Audubon Field Notes* 7(1):26-28; 7(3):225-227.

**BURLEIGH, THOMAS D.**

1956. Another record for the willet in Grays Harbor County, Washington. *Murrelet* 37(2):24-25.

1957. Unusual early winter records from Oregon. *Condor* 59(3):209.

1957. A winter record for the myrtle warbler (*Dendroica coronata*) in Grays Harbor County, Washington. *Murrelet* 38(1):3.

1957. Occurrence of Bachman's warbler (*Vermivora bachmani*) in northern Mississippi in June. *Auk* 74(1):94-95.

1958. Georgia birds. University of Oklahoma Press, Norman. 746 pp.

1959. Two new subspecies of birds from western North America. *Proc. Biol. Soc. Wash.* 72:15-18.

1959. Eastern kingfisher in eastern Washington. *Murrelet* 40(2):20.

1959. Geographic variation in the catbird *Dumetella carolinensis*. *Oriole* 24(3-4):29-32.

1960. Three new subspecies of birds from western North America. *Auk* 77(2):210-215.

1960. A new subspecies of downy woodpecker from the northwest. *Murrelet* 41(3):42-44.

1960. Geographic variation in the western wood pewee (*Contopus sordidulus*). *Proc. Biol. Soc. Wash.* 73:141-146.

1961. Bird records of interest from the Mississippi Gulf Coast. *Occas. Pap. Miss. Delta Nat. Club* 1(4):1-3.

1962. Recent records of interest from northern Virginia. *Raven* 33(2):3-6.

1963. Geographic variation in the cedar waxwing (*Bombycilla cedrorum*). *Proc. Biol. Soc. Wash.* 76:177-180.

1972. Birds of Idaho. Caxton Printers Ltd., Caldwell, Idaho. 467 pp.

**BURLEIGH, THOMAS D., AND ALLEN J. DUVALL.**

1948. A new *Contopus* (*Blacicus*) from the cays of southern Cuba. *Proc. Biol. Soc. Wash.* 61:167-168.

1952. A new ovenbird from the southeastern United States. *Wilson Bull.* 64(1):39-42.

1959. A new subspecies of veery from the northwestern United States. *Proc. Biol. Soc. Wash.* 72:33-36.

**BURLEIGH, THOMAS D., AND GEORGE H. LOWERY, JR.**

1942. An inland race of *Sterna albifrons*. *Occas. Pap. Mus. Zool. La. State Univ.* no. 10:173-177.

1942. Notes on the birds of southeastern Coahuila. *Occas. Pap. Mus. Zool. La. State Univ.* no. 12:185-212.

1944. Geographical variation in the red-bellied woodpecker in the southeastern United States. *Occas. Pap. Mus. Zool. La. State Univ.* no. 17:293-301.

1945. Races of *Vireo griseus* in eastern United States. *Am. Midl. Nat.* 34(2):526-530.

**BURLEIGH, THOMAS D., AND MERRIAM L. MILES.**

1942. Tree swallows breeding in northeastern Louisiana. *Auk* 59(2):312.

**BURLEIGH, THOMAS D., LIEF VERNER, AND JERRY VERNER.**

1953. Lewiston, Idaho [Christmas Bird Count]. *Audubon Field Notes* 7(2):173.

**BURY, R. BRUCE.**

1972. The effects of diesel fuel on a stream fauna. *Calif. Fish Game* 58(4):291-295.

**CHAPMAN, JOSEPH A., AND JOHN L. PARADISO.**

1972. First records of the New England cottontail (*Sylvilagus transitionalis*) from Maryland. *Chesapeake Sci.* 13(2):148-149.

**CHARTERS, EMMA M., compiler.**

1947. Bibliography on walrus. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 293. 14 pp.

**CLARKE, IRA D., AND FRANK G. ASHBROOK.**

1953. A test of raccoon skins for suede leather. *J. Am. Leather Chem. Assoc.* 48(5):294-299.

**DAVIS, EDWARD L.**

1968. Bats and bat banding. *Atl. Nat.* 23(4):209-210.

**DOZIER, HERBERT L.**

1942. Identification of sex in live muskrats. *J. Wildl. Manage.* 6(4):292-293.

1942. Unusual pelt mutations of the muskrat. *J. Mammal.* 23(1):92-94.

1943. Recipes for cooking muskrat meat. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 229 (rev.). 5 pp.

1943. Recipes for cooking muskrat meat. *Md. Conserv.* 20(1):10-12.

1944. Muskrat investigations at the Blackwater National Wildlife Refuge, Maryland. *Md. Conserv.* 21(1):24-25.

1944. Muskrat meat recipes. *Ohio Conserv. Bull.* 8(1):4-5.

1944. Color, sex ratios and weights of Maryland muskrats, II. *J. Wildl. Manage.* 8(2):165-169.

1945. Sex ratio and weights of muskrats from the Montezuma National Wildlife Refuge. *J. Wildl. Manage.* 9(3):232-237.

1947. Resorption of embryos in the muskrat. *J. Mammal.* 28(4):398.

1947. Salinity as a factor in Atlantic Coast tide-water muskrat production. *Trans. North Am. Wildl. Conf.* 12:398-420.

1948. Estimating muskrat population by house counts. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 306. 17 pp.

1948. A new eastern marsh-inhabiting race of raccoon. *J. Mammal.* 29(3):286-290.

1948. Color mutations in the muskrat (*Ondatra z. macrondon*) and their inheritance. *J. Mammal.* 29(4):393-405.

1950. Muskrat trapping on the Montezuma National Wildlife Refuge, New York, 1943-1948. *J. Wildl. Manage.* 14(4):403-412.

1951. Air inflation as an aid in pelting muskrats. *J. Wildl. Manage.* 15(2):199-205.

1953. Muskrat production and management. *U.S. Fish Wildl. Serv., Circ.* 18. 42 pp.

**DOZIER, HERBERT L., AND ROBERT W. ALLEN.**

1942. Color, sex ratios, and weights of Maryland muskrats. *J. Wildl. Manage.* 6(4):294-300.

**DOZIER, HERBERT L., AND FRANK G. ASHBROOK.**

1950. A practical drying frame for nutria pelts. *La. Conserv.* 8(2):16-18.

DOZIER, HERBERT L., AND HAROLD E. HALL.  
1944. Observations on the Bryant fox squirrel. *Md. Conserv.* 21(1):2-7.

DOZIER, HERBERT L., THORA M. PLITT HARDY, AND MERLE H. MARKLEY.  
1948. Fur characteristics of two eastern raccoons. *J. Mammal.* 29(4):383-393.

DOZIER, HERBERT L., MERLE H. MARKLEY, AND LEONARD M. LLEWELLYN.  
1948. Muskrat investigations on the Blackwater National Wildlife Refuge, Maryland, 1941-1945. *J. Wildl. Manage.* 12(2):177-190.

DOZIER, HERBERT L., AND MERTON RADWAY.  
1948. Pelting muskrats by air inflation. *J. Wildl. Manage.* 12(3):333-334.

DUVALL, ALLEN J.  
1943. Breeding savannah sparrows of the southwestern United States. *Condor* 45(6):237-238.

1945. Variation in *Carpodacus purpureus* and *Carpodacus cassini*. *Condor* 47(5):202-205.

DUVALL, ALLEN J., AND CHANDLER S. ROBBINS.  
1952. Investigations of methods of determining abundance of breeding mourning doves in certain eastern states. Pages 15-34 in *Investigations of methods of appraising the abundance of mourning doves*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 17. 53 pp.

FINDLEY, JAMES S., E. H. STUDIER, AND DON E. WILSON.  
1972. Morphologic properties of bat wings. *J. Mammal.* 53(3):429-444.

FLEMING, T. H., EMMET T. HOOPER, AND DON E. WILSON.  
1972. Three Central American bat communities: structure, reproductive cycles, and movement patterns. *Ecology* 53(4):555-569.

FORBES, THOMAS R.  
1942. The period of gonadal activity in the Maryland muskrat. *Science* 95(2467):382-383.

GARDNER, ALFRED L., AND DON E. WILSON.  
1971. A melanized subcutaneous covering of the cranial musculature in the phyllostomid bat, *Ectophylla alba*. *J. Mammal.* 52(4):854-855.

GARDNER, MARSHALL C.  
1946. A new cotton rat from Virginia. *Proc. Biol. Soc. Wash.* 59:137-138.

1947. The type locality of *Sigmodon minimus goldmani*. *J. Mammal.* 28(2):190.

1948. Another Oklahoma armadillo. *J. Mammal.* 29(1):76.

1948. An undescribed eastern cotton rat. *Proc. Biol. Soc. Wash.* 61:97-98.

1948. Albino cotton rats. *J. Mammal.* 29(2):185.

1948. An undescribed cotton rat from New Mexico. *J. Mammal.* 29(1):65.

1950. An undescribed Washington pocket gopher. *J. Mammal.* 31(1):92-93.

1950. A list of Maryland mammals (part I. marsupials and insectivores). *Proc. Biol. Soc. Wash.* 63:65-68.

1950. A list of Maryland mammals (part II. bats). *Proc. Biol. Soc. Wash.* 63:111-114.

1950. An undescribed pika from Utah. *J. Wash. Acad. Sci.* 40(10):344.

GOLDMAN, EDWARD A.  
1942. Three new rodents from southern Utah. *Proc. Biol. Soc. Wash.* 55:75-78.

1942. Notes on the coatis of the Mexican mainland. *Proc. Biol. Soc. Wash.* 55:79-82.

1942. A new white-footed mouse from Mexico. *Proc. Biol. Soc. Wash.* 55:157-158.

1943. The systematic status of certain pocket gophers with special reference to *Thomomys monticola*. *J. Wash. Acad. Sci.* 33(5):146-147.

1943. A new skunk of the genus *Conepatus* from Mexico. *Proc. Biol. Soc. Wash.* 56:89-90.

1943. Two new races of the puma. *J. Mammal.* 24(2):228-231.

1943. The races of the ocelot and margay in Middle America. *J. Mammal.* 24(3):372-385.

1944. Status of three pocket gophers of the genus *Thomomys*. *J. Mammal.* 25(4):414.

1944. Status of *Peromyscus nuttalli aureolus*. *J. Mammal.* 25(4):414.

1945. A new pronghorn antelope from Sonora. *Proc. Biol. Soc. Wash.* 58:3-4.

1945. A new cacomistle from Guerrero. *Proc. Biol. Soc. Wash.* 58:105-106.

1947. The pocket gophers (genus *Thomomys*) of Arizona. U.S. Fish Wildl. Serv., North Am. Fauna 59. 39 pp.

1950. Raccoons of North and Middle America. U.S. Fish Wildl. Serv., North Am. Fauna 60. 153 pp.

1951. Biological investigations in Mexico. Smithsonian. Misc. Collect. 115. 476 pp.

GOLDMAN, EDWARD A., AND MARSHALL C. GARDNER.  
1947. Two new cotton rats. *J. Mammal.* 28(1):57-59.

GOLDMAN, EDWARD A., AND ROBERT T. MOORE.  
1945. The biotic provinces of Mexico. *J. Mammal.* 26(4):347-360.

GREENHALL, ARTHUR M.  
1963. A bamboo mongoose trap. U.S. Fish Wildl. Serv., Wildl. Leafl. 453. 4 pp.

1964. Bats: their public health importance and control with special reference to Trinidad. *Proc. Vertebr. Pest Control Conf.* 2:108-116.

1965. La importancia de los murciélagos y de su control en la salud publica, con especial referencia a Trinidad. *Bol. Ofic. Sanit. Paramer.* 58(4):294-302.

1965. Technique for the removal of the brain in bats. *Nature (London)* 208(5014):1014-1015.

1965. Notes on behavior of captive vampire bats. *Mammalia* 29(4):441-451.

1965. Sapucaia nut dispersal by greater spear-nosed bats in Trinidad. *Caribb. J. Sci.* 5(3-4):167-171.

1966. Oranges eaten by spear-nosed bats. *J. Mammal.* 47(1):125.

1968. Notes on the behavior of the false vampire bat. *J. Mammal.* 49(2):337-340.

1968. Bats, rabies and control problems. *Oryx* 9(4):263-266.

GREENHALL, ARTHUR M., AND JOHN L. PARADISO.  
1968. Bats and bat banding. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 72. 48 pp.

GREENHALL, ARTHUR M., AND GERALD STELL.  
1960. Economics and chemical control of free-tailed house bats (*Molossus*) in Trinidad. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 53. 20 pp.

HARRIS, VAN T.  
1956. The nutria as a wild fur mammal in Louisiana. Trans. North Am. Wildl. Conf. 21:474-486.

HARRIS, VAN T., AND R. H. CHABRECK.  
1958. Some effects of hurricane Audrey on the marsh at Marsh Island, Louisiana. Proc. La. Acad. Sci. 21:47-50.

HARRIS, VAN T., AND FRED WEBERT.  
1962. Nutria feeding activity and its effect on marsh vegetation in southwestern Louisiana. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 64. 53 pp.

HOWELL, ARTHUR H.  
1942. A new red squirrel from North Dakota. Proc. Biol. Soc. Wash. 55:13-14.  
1943. A new red squirrel from Minnesota. Proc. Biol. Soc. Wash. 56:67-68.  
1943. Two new cotton rats from Florida. Proc. Biol. Soc. Wash. 56:73-76.

HUBBARD, JOHN P., AND RICHARD C. BANKS.  
1970. The types and taxa of Harold H. Bailey. Proc. Biol. Soc. Wash. 83(30):321-332.

HUBBS, CARL L., AND RICHARD C. BANKS.  
1966. Wandering onto the eastern Pacific Ocean of an eastern North American land bird, the bay-breasted warbler. Auk 83(4):680-682.

JACKSON, HARTLEY H. T.  
1941-43. Summer birds of northwestern Wisconsin, parts 1-7. Passenger Pigeon: part 1, 3(10):87-90, 1941; part 2, 3(11):95-98, 1941; part 3, 3(12):103-106, 1941; part 4, 4(2):9-12, 1942; part 5, 4(4, 5, 6):37-40, 1942; part 6, 4(4):91-95, 1943; part 7, 5(2):24-35, 1943.  
1944. Conserving endangered wildlife species. Trans. Wis. Acad. Sci. Arts Lett. 35:61-89. (Also publ. pages 247-272 in Smithson. Rep. 1945 [Publ. 3826].)  
1944. Big game resources of the United States 1937-1942. U.S. Fish Wildl. Serv., Res. Rep. 8. 56 pp.  
1947. Attitude in conservation. Pages 19-24 in Silent wings. Wisconsin Society of Ornithology, Madison.  
1947. Association and correspondence with Goldman. J. Mammal. 28(2):109-113.  
1947. A new shrew (genus *Sorex*) from Coahuila. Proc. Biol. Soc. Wash. 60:131-132.  
1948. An earlier American mammal society. J. Mammal. 29(1):1-4.  
1948. Review of *Mammals of USSR*, by N. Bobrinskoy, B. Kuznetsov, and A. Kuzyakin. J. Mammal. 29(3):303.  
1948. Review of *Fur farming for profit*, by Frank G. Ashbrook. J. Mammal. 29(3):304.  
1949. Two new coyotes from the United States. Proc. Biol. Soc. Wash. 62:31-32.  
1949. Review of *The wise one*, by Frank Conibear and J. L. Blundell. Wood Thrush 5(2):88-89.

1950. Review of *The way to game abundance*, by Wallace Byron Grange. J. Mammal. 31(4):467-468.  
1953. Our flying mammals of the night. Audubon Mag. 55(2):74-77.  
1954. Wolverine (*Gulo luscus*) specimens from Wisconsin. J. Mammal. 35(2):254.  
1955. The Wisconsin puma. Proc. Biol. Soc. Wash. 68:149-150.  
1956. The return of the vanishing musk oxen. Audubon Mag. 58(6):262-265, 289.  
1957. An unrecognized pocket gopher from Wisconsin. Proc. Biol. Soc. Wash. 70:33-34.  
1957. The status of *Eutamias minimus jacksoni*. J. Mammal. 38(4):518-519.  
1957. The return of the vanishing musk oxen, part 2. Audubon Mag. 59(1):26-29.  
1958. The return of the vanishing musk oxen. Pages 381-389 in Smithson. Rep. 1957. (Publ. 4327.)  
1959. Wild mammal chase. Wisc. Acad. Rev. 6(1): 6-7.  
1959. *Sorex arcticus* at Maugerville, New Brunswick. J. Mammal. 40(4):609.  
1961. Mammals of Wisconsin. University of Wisconsin Press, Madison. 504 pp.  
1961. Review of *The cougar or mountain lion*, by Claude T. Barnes. J. Mammal. 42(3):430.  
1967. Published writings of Arthur Holmes Howell (1872-1940). Univ. Kans. Mus. Nat. Hist. Misc. Pap. 47. 15 pp.

JACKSON, HARTLEY H. T., EMMA M. CHARTERS, A. J. DUVALL, AND S. F. HILDEBRAND.  
1949. Literature on the natural history of the Arctic region with special reference to Alaska and Canada. U.S. Fish Wildl. Serv., Wildl. Leafl. 317. 48 pp.

JEWETT, STANLEY G., WALTER P. TAYLOR, WILLIAM T. SHAW, AND JOHN W. ALDRICH.  
1953. Birds of Washington State. University of Washington Press, Seattle. 768 pp.

JOHNSON, MURRAY L., KARL W. KENYON, AND C. BROSSEAU.  
1967. Notes on a captive sea otter. Pages 208-209 in C. Jarvis and R. Biegler, eds. International Zoo Yearbook. (Zool. Soc. London) 7:208-209.

JONES, CLYDE.  
1970. Stomach contents and gastro-intestinal relationships of monkeys collected in Rio Muni, West Africa. Mammalia 34(1):107-117.  
1971. Notes on hairy frogs (*Trichobatrachus robustus* Boulenger) collected in Rio Muni, West Africa. Herpetologica 27(1):51-54.  
1971. The bats of Rio Muni, West Africa. J. Mammal. 52(1):121-140.  
1971. Notes on the anomalurids of Rio Muni and adjacent areas. J. Mammal. 52(3):568-572.  
1972. Comparative ecology of three pteropid bats in Rio Muni, West Africa. J. Zool. (London) 167:353-370.  
1972. Natural diets of wild primates. Pages 58-77 in R. Fiennes, ed. Pathology of simian primates. Part 1: general pathology. S. Karger, Basel, Switzerland.

**JONES, CLYDE.**

1972. Observations on dental deposits and deficiencies of wild talapoin monkeys (*Cercopithecus talapoin*) collected in Rio Muni, West Africa. *Lab. Primate Newsl.* 11(2):28-34.

**JONES, CLYDE, T. MARTIN, AND W. MASON.**

1970. Survival of an escaped *Calicebus moloch* in southern Louisiana. *Lab. Primate Newsl.* 9(1): 6-7.

**JONES, CLYDE, AND JOHN L. PARADISO.**

1972. Mammals imported into the United States in 1969. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 147. 33 pp.

**JONES, CLYDE, AND J. SABATER PI.**

1971. Comparative ecology of *Gorilla gorilla* (Savage and Wyman) and *Pan troglodytes* (Blumenbach) in Rio Muni, West Africa. *Bibl. Primatol.* no. 13. 96 pp.

**JONES, CLYDE, AND HENRY W. SETZER.**

1970. Comments on *Myosciurus pumilio*. *J. Mammal.* 51(4):813-814.

1971. The designation of a holotype of the West African pygmy squirrel, *Myosciurus pumilio* (Leconte, 1857) (Mammalia: Rodentia). *Proc. Biol. Soc. Wash.* 84(8):59-64.

**JONES, CLYDE, AND ROYAL D. SUTTKUS.**

1971. Wing loading in *Plecotus rafinesquii*. *J. Mammal.* 52(2):458-460.

1972. Notes on netting bats for eleven years in western New Mexico. *Southwest. Nat.* 16(3-4): 261-266.

**JONES, J. KNOX, JR., AND CLYDE JONES.**

1970. Dates of publication of numbers in the North American Fauna series. *J. Mammal.* 51(4):845.

**KENYON, KARL W.**

1948. Capturing fur seals for the San Diego Zoo. *Zoonooz* 21(12):3-4.

1949. Murres, mariners of the north. *Nat. Hist.* 58(1):24-28.

1949. Distribution of the Pacific kittiwake in November and December of 1948. *Condor* 51(4):188.

1949. Observations on behavior and populations of oyster-catchers in Lower California. *Condor* 51(5): 193-199.

1949. Coochies. *Nat. Hist.* 58(7):322-324.

1949. The osprey. Pages 180-182 in M. Burton, ed. *The story of animal life*. Elsevier Publ. Co., Ltd., London.

1949. Fur seals and murre chicks. *Condor* 51(6): 273-274.

1950. Sea parrots. *Nat. Hist.* 59(3):114-119.

1950. Distribution of albatrosses in the North Pacific and adjacent waters. *Condor* 52(3):97-103.

1952. Diving depths of the Steller sea lion and Alaska fur seal. *J. Mammal.* 33(2):245-246.

1952. A bottlenose dolphin from the California coast. *J. Mammal.* 33(3):385-387.

1952. The Steller sea lion. *Pac. Discovery* 5(4):4-13.

1955. The Pribilof Islands. *Zoonooz* 28(2):18-21.

1955. Last of the Tlingit sealers. *Nat. Hist.* 64(6): 294-298.

1956. Food of fur seals taken on St. Paul Island, Alaska, 1954. *J. Wildl. Manage.* 20(2):214-215.

1956. The circus seal at home. *Nat. Hist.* 65(4): 196-201.

1957. The situation on Midway. *Elepaio* 18(1):1-2.

1957. Harem master supreme. *Pac. Discovery* 10(5): 24-28.

1957. The sea otter. *Oryx* 4(3):153-158.

1959. The sea otter. Pages 399-407 in *Smithsonian Report for 1958*. (Publ. 4364).

1959. A 15-foot maneater from San Miguel Island, California. *Calif. Fish and Game* 45(1):58-59.

1959. Behavior of murres during fledging. *Murrelet* 40(1):5-6.

1960. Territorial behavior and homing in the Alaska fur seal. *Mammalia* 24(3):431-444.

1960. A ringed seal from the Pribilof Islands, Alaska. *J. Mammal.* 41(4):520-521.

1960. The Pacific walrus. *Oryx* 5(6):332-340.

1961. Cuvier beaked whales stranded in the Aleutian Islands. *J. Mammal.* 42(1):71-76.

1961. The sea otter in Alaska. *Alaska Sportsman* 27(2):16-18.

1961. Sleep . . . on the deep. *Pac. Discovery* 14(3): 22-24.

1961. Birds of Amchitka Island, Alaska. *Auk* 78(3): 305-326.

1961. Isolation protects the bald eagle in Alaska. *Audubon Mag.* 63(5):272-274.

1962. History of the Steller sea lion at the Pribilof Islands, Alaska. *J. Mammal.* 43(1):68-75.

1962. Notes on phocid seals at Little Diomede Island, Alaska. *J. Wildl. Manage.* 26(4):380-387.

1963. Recovery of a fur bearer: coveted pelt caused sea otter decimation. *Nat. Hist.* 72(9):12-21.

1963. Further observations of whooper swans in the Aleutian Islands, Alaska. *Auk* 80(4):540-542.

1963. Review of *Fauna of the Aleutian Islands and Alaska Peninsula*, by O. Murie and V. B. Scheffer. *J. Wildl. Manage.* 27(2):306.

1964. Wildlife and historical notes on Simeonof Island, Alaska. *Murrelet* 45(1):1-8.

1964. Die Seaoetter. *Das Tier* 4(9):12-17. [German translation of "Recovery of a Fur Bearer," 1963.]

1964. Havoddern. *Naturens Verdens*, Nov., pp. 336-349. [Danish translation of "Recovery of a Fur Bearer," 1963.]

1965. Food of harbor seals at Amchitka Island, Alaska. *J. Mammal.* 46(1):103-104.

1965. The Aleutians. Pages 155-163 in Olin Sewall Pettingill, ed. *The bird watcher's America*. McGraw-Hill, New York.

1965. Havsuttern. *Naturens Varld* 6(4):111-124. [Swedish translation of "Recovery of a Fur Bearer," 1963.]

1967. Review of *Black brant: sea goose of the Pacific Coast*, by Arthur S. Einarsen. *Wilson Bull.* 79(1):126-127.

1969. Review of *Seals of the world*, by Gavin Maxwell. *J. Wildl. Manage.* 33(1):226.

KENYON, KARL W.

1969. The sea otter in the eastern Pacific Ocean. U.S. Fish Wildl. Serv., North Am. Fauna 68. 352 pp.

1970. The sea otter. Pages 199-205 in Victor H. Cahalane, ed. *Alive in the wild*. Prentice-Hall, Englewood Cliffs, N.J.

1971. Review of *The albatross of Midway Island: A natural history of the Laysan albatross*, by Mildred L. Fisher. Wilson Bull. 83(2):210-211.

1971. The return of the vanishing sea otter: a unique animal. Pac. Search 5(4):1-2.

1971. The return of the vanishing sea otter: a stormy history. Pac. Search 5(5):1-2.

1971. Return of the sea otter. Natl. Geogr. Mag. 140(4):520-539.

1972. The sea otter. Pages 205-214 (chapter 2) in Sam H. Ridgeway, ed. *Mammals of the sea: biology and medicine*. Charles C. Thomas, Fort Lauderdale, Fla. and Springfield, Ill.

1972. The return of the vanishing sea otter. Pages 25-37 in Alice Seed, compiler. *Sea otter in eastern North Pacific waters*. Pacific Search Books, Seattle.

1972. Pacific walrus. Pages 32-38 in Alice Seed, compiler. *Seals, sea lions, walruses in eastern North Pacific and Arctic waters*. Pacific Search Books, Seattle.

1972. Man versus the monk seal. J. Mammal. 53(4): 687-696.

1972. Status of marine mammals. BioScience 22 (12):691.

KENYON, KARL W. (as told by INNOKENTY GOLODOFF). 1966. The last days of Attu Village. Alaska Sportsman 32(12):8-9.

KENYON, KARL W., AND JAMES W. BROOKS. 1960. Birds of Little Diomede Island, Alaska. Condor 62(6):457-463.

KENYON, KARL W., AND CLIFFORD H. FISCUS. 1963. Age determination in the Hawaiian monk seal. J. Mammal. 44(2):280-282.

KENYON, KARL W., AND RICHARD E. PHILLIPS. 1965. Birds from the Pribilof Islands and vicinity. Auk 82(4):624-635.

KENYON, KARL W., AND DALE W. RICE. 1957. Bird observations at Midway Atoll. Elepaio 18(1):2-4.

1958. Homing of Laysan albatrosses. Condor 60(1): 3-6.

1958. Birds of Kure Atoll, Hawaii. Condor 60(3): 188-190.

1959. Life history of the Hawaiian monk seal. Pac. Sci. 13:215-252.

1961. Abundance and distribution of the Steller sea lion. J. Mammal. 42(2):223-234.

1961. The sooty shearwater in the Hawaiian Islands. Murrelet 41(3):46.

1971. Review of *The biology of marine mammals*, Harald T. Andersen, ed. J. Mammal. 52(1):253-255.

KENYON, KARL W., DALE W. RICE, CHANDLER S. ROBBINS, AND JOHN W. ALDRICH.

1958. Birds and aircraft on Midway Island: 1956-57 investigations. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 38. 51 pp.

KENYON, KARL W., AND DAVID L. SPENCER. 1960. Sea otter population and transplant studies in Alaska, 1959. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 48. 29 pp.

KENYON, KARL W., AND VICTOR B. SCHEFFER. 1949. A long-snouted dolphin from the Washington coast. J. Mammal. 30(3):267-268.

1953. The seals, sea-lions, and sea otters of the Pacific Coast. U.S. Fish Wildl. Serv., Wildl. Leafl. 344. 28 pp.

1953. The seals, sea-lions, and sea otters of the Pacific Coast. U.S. Fish Wildl. Serv., Circ. 32. 34 pp. [Rev. of Wildl. Leafl. 344.]

1962. Wildlife surveys along the northwest coast of Washington. Murrelet 42(1):29-37.

KENYON, KARL W., VICTOR B. SCHEFFER, AND DOUGLAS G. CHAPMAN. 1954. A population study of the Alaska fur seal herd. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 12. 77 pp.

KENYON, KARL W., AND FORD WILKE. 1953. Migration of the northern fur seal, *Callorhinus ursinus*. J. Mammal. 34(1):86-98.

KENYON, KARL W., C. E. YUNKER, AND I. M. NEWELL. 1965. Nasal mites (Halarachnidae) in the sea otter. J. Parasitol. 51(6):960.

LABOURNE, ROXIE C. 1967. Bilateral gynandromism in an evening grosbeak. Auk 84 (2):267-272.

MANVILLE, RICHARD H. 1958. Odd items in bobcat stomachs. J. Mammal. 39(3):439.

1958. Concerning platypuses. J. Mammal. 39(4): 582-583.

1958. Review of *Zoogeography: the geographical distribution of animals*, by Phillip J. Darlington, Jr. J. Mammal. 39(2):311-313.

1959. Bregmatic bones in North American lynx. Science 130(3384):1254.

1959. Nomenclature of mammals. J. Mammal. 40 (3):477.

1959. The Columbian ground squirrel in northwestern Montana. J. Mammal. 40(1):26-45.

1959. A chronological history of the American Society of Mammalogists. J. Mammal. 40(2):276-277.

1960. Recent changes in the mammal fauna of Mount Desert Island, Maine. J. Mammal. 41(3):415-416.

1960. Birds breeding at Cap des Rosiers, Québec. Wilson Bull. 72(4):406-407.

1960. Review of *Wildlife of Mexico*, by A. Starker Leopold. J. Mammal. 41(2):288-289.

1960. Review of *The wild mammals of Missouri*, by Charles W. Schwartz and Elizabeth R. Schwartz. Atl. Nat. 15(3):216-217.

1960. Review of *The road to man*, by Herbert Wendt, and *Out of Noah's ark*, by Herbert Wendt. Atl. Nat. 15(3):219-220.

1960. Review of *The Galápagos Islands*, by Joseph R. Slevin. J. Mammal. 41(3):417.

MANVILLE, RICHARD H.

1960. Review of *Manual of game investigational techniques*, Henry S. Mosby, ed. *J. Mammal.* 41 (4):528-529.

1960. *Review of Wildlife in America*, by Peter Matthiessen. *J. Mammal.* 41(2):289-290.

1961. Review of *The wonders I see*, by John K. Terres. *J. Mammal.* 41(1):129-130.

1961. The entepicondylar foramen and *Ochrotomys*. *J. Mammal.* 42(1):103-104.

1961. Notes on behavior of marten. *J. Mammal.* 42(1):112.

1961. Review of *The jaws and teeth of primates*, by W. James. *J. Mammal.* 42(1):128.

1961. Review of *Wild animals of North America*, National Geographic Society. *J. Mammal.* 42(1):128-129.

1961. Angora cottontail from Georgia. *J. Mammal.* 42(2):255.

1961. Notes on some mammals of the Gaspé Peninsula, Quebec. *Can. Field-Nat.* 75(2):108-109.

1961. Cutaneous myiasis in small mammals. *J. Parasitol.* 47(4):646.

1961. Review of *Iceland summer*, by George Miksch Sutton. *Science* 133 (3460):1238-1239.

1961. Review of *Mammals of Wisconsin*, by H. H. T. Jackson. *J. Mammal.* 42(2):284-285.

1961. Review of *The recent mammals of Arizona: their taxonomy and distribution*, by E. Lendell Cockrum. *J. Mammal.* 42(3):431.

1961. Review of *The natural history of the Lewis and Clark Expedition*, Raymond D. Burroughs, ed. *J. Mammal.* 42(4):557-558.

1961. Review of *Vertebrate biology*, by Robert T. Orr. *J. Mammal.* 42(4):560.

1961. Review of *Principles of animal taxonomy*, by George Gaylord Simpson. *J. Mammal.* 42(3):431-432.

1962. A plea for bat conservation. *J. Mammal.* 43 (4):571.

1962. Specialized mammalian terminology. *Turtox News* 40(10):242-247.

1962. The nutria in the United States. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 445. 4 pp.

1962. Review of *Discovery: Great moments in the lives of outstanding naturalists*, J. K. Terres, ed. *J. Mammal.* 43(1):115-116.

1962. Review of *The world of animals*, J. W. Krutch, ed. *Atl. Nat.* 17(3):206-207.

1962. Review of *Animals as social beings*, by A. Portmann. *Atl. Nat.* 17(3):200.

1963. Altitude record for mallard. *Wilson Bull.* 75 (1):92.

1963. Review of *International zoo yearbook*, volume 3, Caroline Jarvis and Desmond Morris, eds. *J. Mammal.* 44(2):286-287.

1963. Dental anomalies in North American lynx. *Z. Saegetierkd.* 28(3):166-169.

1963. Accidental mortality in bats. *Mammalia* 27 (3):361-366.

1964. Nutria: a possible pest on ditchbanks. *Reclamation Era* 50(3):66-67, 74.

1964. The vertebrate fauna of Isle au Haut, Maine. *Am. Midl. Nat.* 72(2):396-407.

1964. History of the Corbin Preserve. Pages 427-446 in *Smithsonian Report for 1963*. (Publ. 4581).

1964. Arizona faunistics. Review of *The vertebrates of Arizona*, C. H. Lowe, ed. *Science* 145(3629):258.

1964. Aardvark to zorilla. Review of *The management of wild mammals in captivity*, by L. S. Crandall. *Science* 145(3636):1039.

1964. Mammals in review. Review of *Mammals of the world*, by E. P. Walker. *Science* 146(3649):1285-1286.

1964. Review of *The world of the bobcat*, by Joe Van Wormer. *Atl. Nat.* 19(3):189.

1964. Review of *The senses of animals*, by L. H. Matthews and M. Knight. *Atl. Nat.* 19(3):189-190.

1964. Review of *A herd of red deer*, by F. F. Darling, and *The singing forest*, by H. M. Batten. *Atl. Nat.* 19(4):278.

1965. You and wildlife. Pages 307-313 in *Consumers all*, U.S. Department of Agriculture Yearbook, 1965. U.S. Government Printing Office, Washington, D.C.

1965. For western naturalists. Review of *Mammals of the Pacific States: California, Oregon, and Washington*, by Lloyd G. Ingles. *Science* 150 (3697):732-733.

1965. Review of *The Lemming cycle at Baker Lake, Northwest Territories during 1959-1962*, by Charles J. Krebs. *J. Mammal.* 46(2):357-358.

1965. Review of *Cats of the world*, by Denis Armand. *Atl. Nat.* 20(1):61-62.

1966. Roadside abundance of woodchucks. *Am. Midl. Nat.* 75(2):537-538.

1966. The extinct sea mink, with taxonomic notes. *Proc. U. S. Natl. Mus.* 122(3584):1-12.

1966. Review of *Wild lives of Africa*, by Juliette Huxley. *Atl. Nat.* 21(2):110, 112.

1966. Review of *Mammals of the Pacific States: California, Oregon, and Washington*, by Lloyd G. Ingles. *Atl. Nat.* 21(2):113-114.

1966. Mammals on display. Review of *A zoo man's notebook*, by Lee S. Crandall. *Science* 152(3730):1734. (Also in *Animal Kingdom* 69(4):129.)

1967. Review of *The international zoo yearbook*, vol. 6, Caroline Jarvis and Ruth Biegler, eds. *J. Mammal.* 48(2):332-333.

1967. Review of *The world of the porcupine*, by David F. Costello. *J. Mammal.* 48(1):150.

1967. The families of mammals. Review of *Recent mammals of the world*, Sydney Anderson and J. Knox Jones, Jr., eds. *Science* 157(3795):1421-1422.

1967. Arctic ecology. Review of *Animals of the North*, by William O. Pruitt, Jr. *Science* 158 (3802):764.

1968. Natural history of Plummers Island, Maryland: 20. Annotated list of vertebrates. *Spec. Publ. Wash. Biol. Field Club.* 44 pp.

MANVILLE, RICHARD H.

1968. Carnivores of consequence. Review of *Mon-gosse. Their natural history and behaviour*, by H. E. Hinton and A.M.S. Dunn, and *The Biology of the Striped Skunk*, by B. J. Verts. *Science* 159(3816):725.

1968. Review of *The imperial collection of Audubon animals*, by John J. Audubon, John Bachman, and V. H. Cahalane. *Atl. Nat.* 23(1):44-45.

1968. On reading sign. Review of *Tracks*, by E. A. R. Ennion and N. Tinbergen. *Science* 160(3828):658-659.

1968. Review of *Marsupials and monotremes of Australia*, by Gordon Lyne. *Atl. Nat.* 23(2):122.

1968. Review of *The world of the wolf*, by R. J. Rutter and D. H. Pimlott, and *The world of the walrus*, by R. Perry. *Atl. Nat.* 23(3):174.

1968. Review of *A field guide to the mammals of Britain and Europe*, by F. H. Van den Brink. *Atl. Nat.* 23(3):176.

1968. The zoo world. Review of *International zoo yearbook*, vol. 8, Caroline Jarvis and Ruth Bieler, eds. *Science* 162(3854):659-660.

1968. Meet the mammals at Woodend. *Atl. Nat.* 23(4):204-208.

1969. Review of *The world of the grizzly bear*, by W. J. Schoonmaker. *Atl. Nat.* 24(1):44-45.

1969. Review of *Animals in danger*, by Frances and Dorothy Wood. *Atl. Nat.* 24(1):46-47.

1969. A Victorian naturalist. Review of *The eccentric ark*, by G. H. O. Burgess. *Science* 164(3880):688-689.

1969. Primitive mammals. Review of *Echidnas*, by M. Griffiths. *BioScience* 19(8):754.

1969. Further notes on Maine mammals. *Maine Field Nat.* 25(4):45.

1970. Review of *Panther!*, by Roger Caras. *Atl. Nat.* 25(2):104.

1970. Island faunas. Review of *Mammals in Hawaii*, by P. Quentin Tomich. *Science* 169(3940):45-46.

1971. Ecological perspective. Review of *Biological conservation*, by David W. Ehrenfeld. *BioScience* 21(5):246, 248.

1971. Review of *Alive in the wild*, Victor H. Cahalane, ed. *Explorers J.* 49(2):130.

1971. Review of *On the shred of a cloud*, by Rolf Edberg. *Living Wilderness* 35(114):45-46.

MANVILLE, RICHARD H., AND PAUL G. FAVOUR, JR.

1960. Southern distribution of the Atlantic walrus. *J. Mammal.* 41(4):499-503.

MANVILLE, RICHARD H., AND ROBERT P. SHANAHAN.

1961. *Kogia* stranded in Maryland. *J. Mammal.* 42(2):269-270.

MANVILLE, RICHARD H., AND WILLIAM C. STURTEVANT.

1966. Early specimens of the eastern wolf, *Canis lupus lycaon*. *Chesapeake Sci.* 7(4):218-220.

MANVILLE, RICHARD H., AND JERALD J. WILSON.

1970. Fossil walrus from Virginia waters. *J. Mammal.* 51(4):810-811.

MANVILLE, RICHARD H., AND STANLEY P. YOUNG.

1965. Distribution of Alaskan mammals. *U.S. Fish Wildl. Serv., Circ.* 211. 74 pp.

MARKLEY, MERLE H.

1945. Seasonal fur primeness of the coyote in the western States. *J. Wildl. Manage.* 9(3):227-231.

MARKLEY, MERLE H., AND CHARLES F. BASSETT.

1942. Habits of captive marten. *Am. Midl. Nat.* 28(3):604-616.

MURIE, OLAUS J., AND VICTOR B. SCHEFFER.

1959. Fauna of the Aleutian Islands and Alaska Peninsula: with notes on invertebrates and fishes collected in the Aleutians, 1936-38. *U.S. Fish Wildl. Serv., North Am. Fauna* 61. 406 pp.

OBERHOLSER, HARRY C.

1943. Organizations and officials concerned with wildlife protection: 1942. *U.S. Fish Wildl. Serv., Circ.* 5. 25 pp.

ODUM, EUGENE P., AND THOMAS D. BURLEIGH.

1946. Southward invasion in Georgia. *Auk* 63(3):388-401.

ORR, ROBERT T., JACQUELINE SCHONEWALD, AND KARL W. KENYON.

1970. The California sea lion: skull growth and a comparison of two populations. *Proc. Calif. Acad. Sci.* 37(11):381-394.

PAGE, CALVIN A., VAN T. HARRIS, AND JOANNE DURAND.

1957. A survey of virus in nutria. *Southwest. La. J.* 1(3):207-210.

PALMER, L. J.

1941. Animal and plant resources of Alaska. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 176. 12 pp.

PALMER, LAWRENCE J., AND CHARLES H. ROUSE.

1945. Study of the Alaska tundra with reference to its reactions to reindeer and other grazing. *U.S. Fish Wildl. Serv., Res. Rep.* 10. 48 pp.

PARADISO, JOHN L.

1958. Notes on mammals of Calvert County, Maryland. *Md. Tidewater News* 14(2):6-7.

1959. A new star-nosed mole (*Condylura*) from the southeastern United States. *Proc. Biol. Soc. Wash.* 72:103-108.

1959. Maryland shrews. *Md. Nat.* 29(1-4):9-11.

1960. A new white-footed mouse (*Peromyscus leucopus*) from southeastern Virginia. *Proc. Biol. Soc. Wash.* 73:21-23.

1960. Size variation in the rice rat. *J. Mammal.* 41(4):516-517.

1961. Review of *The bats of Trinidad and Tobago*, by George G. Goodwin and Arthur M. Greenhall. *J. Mammal.* 42(4):559.

1962. Review of *The elephants*, by G. Blond. *Atl. Nat.* 17(1):69-70.

1963. The type locality of *Tamias striatus fisheri*. *J. Mammal.* 44(4):579-580.

1965. Recent records of red wolves from the Gulf Coast of Texas. *Southwest. Nat.* 10(4):318-319.

1965. Review of *Mammals of the world*, (3 vols.), by Ernest P. Walker and associates. *Atl. Nat.* 20(1):58-60.

1966. Recent records of coyotes, *Canis latrans*, from the southeastern United States. *Southwest. Nat.* 11(4):500-501.

1966. Notes on supernumerary and missing teeth in the coyote. *Mammalia* 30(1):120-128.

**PARADISO, JOHN L.**

- 1967. A review of the wrinkle-faced bats *Centurio senex* Gray), with description of a new subspecies. *Mammalia* 31(4):595-604.
- 1967. Review of *The world of the porcupine*, by David F. Costello. *Atl. Nat.* 22(1):57-58.
- 1967. Review of *The world of the opossum*, by James F. Keefe. *Atl. Nat.* 22(4):244-245.
- 1968. Canids recently collected in east Texas, with comments on the taxonomy of the red wolf. *Am. Midl. Nat.*, 80(2):529-534.
- 1968. Review of *Seals of the world*, by Gavin Maxwell. *Atl. Nat.* 23(3):176-177.
- 1969. Review of *The international zoo yearbook*, vol. 8. Caroline Jarvis and Ruth Biegler, eds. *J. Mammal.* 50(1):168.
- 1969. Review of *Wild fox*, by Roger Burrows. *Atl. Nat.* 24(1):45-46.
- 1969. Mammals of Maryland. *U.S. Fish Wildl. Serv., North Am. Fauna* 66. 193 pp.
- 1971. A new subspecies of *Cynopterus sphinx* (Chiroptera: Pteropodidae) from Serasan (South Natuna) Island, Indonesia. *Proc. Biol. Soc. Wash.* 84:293-300.
- 1972. Status report on cats (Felidae) of the world, 1971. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 157. 43 pp.

**PARADISO, JOHN L., AND ROBERT D. FISHER.**

- 1972. Mammals imported into the United States in 1970. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 161. 62 pp.

**PARADISO, JOHN L., AND ARTHUR M. GREENHALL.**

- 1967. Longevity records for American bats. *Am. Midl. Nat.* 78(1):251-252.

**PARADISO, JOHN L., AND CHARLES O. HANDLEY, JR.**

- 1965. Checklist of mammals of Assateague Island. *Chesapeake Sci.* 6(3):167-171.

**PARADISO, JOHN L., AND RONALD M. NOWAK.**

- 1971. Taxonomic status of the Sonoran pronghorn. *J. Mammal.* 52(4):855-858.
- 1972. A report on the taxonomic status and distribution of the red wolf. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 145. 36 pp.
- 1972. *Canis rufus*. *Mammalian Species* No. 22. *Am. Soc. Mammal.* 4 pp.

**PARADISO, JOHN L., AND R. H. MANVILLE.**

- 1961. Taxonomic notes on the tundra vole (*Microtus oeconomus*) in Alaska. *Proc. Biol. Soc. Wash.* 74: 77-92.

**PARADISO, JOHN L., AND DONALD SCHIERBAUM.**

- 1969. Recent wolf record from New York. *J. Mammal.* 50(2):384-385.

**PETERS, HAROLD S., AND THOMAS D. BURLEIGH.**

- 1944. Two new records from Newfoundland Labrador. *Auk* 61(3):472-473.
- 1949. New avian records from Newfoundland. *Auk* 66(2):172-176.
- 1951. Birds of the St. Pierre and Miquelon Islands. *Can. Field-Nat.* 65(5):170-172.
- 1951. The birds of Newfoundland. Department of Natural Resources, St. John's, Newfoundland,

**Canada, and Houghton Mifflin Co., Boston, Mass.**  
429 pp.

**POOLE, ARTHUR J., AND VIOLA S. SCHANTZ.**

- 1942. Catalog of the type specimens of mammals in the United States National Museum, including the Biological Surveys collection. *U.S. Natl. Mus. Bull.* 178. 705 pp.

**RICE, DALE W., AND KARL W. KENYON.**

- 1962. Breeding distribution, history and populations of North Pacific albatrosses. *Auk* 79(3):365-386.
- 1962. Breeding cycles and behavior of Laysan and black-footed albatrosses. *Auk* 79(4):517-567.

**RICE, DALE W., KARL W. KENYON, AND DANIEL LLUCH B.**

- 1965. Pinniped populations at Islas Guadalupe, San Benito, and Cedros, Baja California, in 1965. *Trans. San Diego Soc. Nat. Hist.* 14(7):73-84.

**SCHANTZ, VIOLA S.**

- 1942. Weasel record from Mississippi. *J. Mammal.* 23(2):218.
- 1943. The rice rat, *Oryzomys palustris palustris*, in Delaware. *J. Mammal.* 24(1):103-104.
- 1945. Mrs. Wallihan: A pioneer photographer of wildlife. *J. Mammal.* 26(2):133-135.
- 1945. A new badger from Wisconsin. *J. Mammal.* 26(4):431.
- 1946. A new badger from South Dakota. *Proc. Biol. Soc. Wash.* 59:81-82.
- 1947. Extension of the range of *Brachylagus idahoensis*. *J. Mammal.* 28(2):187-188.
- 1947. Record of *Lynx canadensis canadensis* in Nevada. *J. Mammal.* 28(3):292-293.
- 1947. A new subspecies of badger from the state of Iowa. *J. Mammal.* 28(3):287-288.
- 1948. A new badger from Mexico-United States boundary. *Proc. Biol. Soc. Wash.* 61:175-176.
- 1949. Three new races of badgers (*Taxidea*) from southwestern United States. *J. Mammal.* 30(3): 301-305.
- 1950. A new badger from Montana. *J. Mammal.* 31(1):90-92.
- 1950. A new race of badger (*Taxidea*) from eastern Kansas. *J. Mammal.* 31(3):346-347.
- 1950. A new race of badger (*Taxidea*) from Kansas. *J. Wash. Acad. Sci.* 40(3):92-93.
- 1950. The gray fox in North Dakota. *J. Mammal.* 31(2):197-198.
- 1951. Records of the least weasel, *Mustela rixosa* in South Dakota. *J. Mammal.* 32(2):225-226.
- 1951. A substitute name for *Taxidea taxus nevadensis* Schantz. *J. Mammal.* 32(1):127-127.
- 1953. Additional information on distribution and variation of eastern badgers. *J. Mammal.* 34(3): 388-389.
- 1953. Additional records of the spotted skunk in South Dakota. *J. Mammal.* 34(1):124-125.
- 1957. *Lepus californicus melanotis* record from southeastern South Dakota. *J. Mammal.* 38(3): 419.
- 1960. Record of an albino pine vole. *J. Mammal.* 41(1):129.

SCHANTZ, VIOLA S., AND ARTHUR F. HALLORAN.  
1948. Extension of range of *Taxidea taxus sonoriensis*. J. Mammal. 29(1):75.

SCHANTZ, VIOLA S., AND JAMES H. JENKINS.  
1950. Extension of range of the round-tailed muskrat *Neofiber alleni*. J. Mammal. 31(4):460-461.

SCHEFFER, VICTOR B.  
1950. The food of the Alaska fur seal. U.S. Fish Wildl. Serv., Wildl. Leafl. 329. 16 pp.

SCHEFFER, VICTOR B., AND FRANK G. ASHBROOK.  
1949. Conserving the Alaska fur seals. Trans. North Am. Wildl. Conf. 14:440-450.

SCHEFFER, VICTOR B., AND KARL W. KENYON.  
1963. Baculum size in pinnipeds. Z. Saeugertierkd. 28(1):38-41.

1963. Elephant seal in Puget Sound, Washington. Murrelet 44(2):23-24.

SCHEVILL, W. E., CARLTON RAY, KARL W. KENYON, ROBERT T. ORR, AND RICHARD G. VAN GELDER.  
1967. Immobilizing drugs lethal to swimming mammals. Science 157(3789):630-631.

SCOTT, ROBERT F., KARL W. KENYON, JOHN L. BUCKLEY, AND SIGURD T. OLSON.  
1959. Status and management of the polar bear and Pacific walrus. Trans. North Am. Wildl. Conf. 24:366-374.

SHAW, JAMES H.  
1962. The bushy-tailed wood rat in southeastern Alaska. J. Mammal. 43(3):431-432.

SHORT, LESTER L., JR.  
1963. Hybridization in the wood warblers *Vermivora pinus* and *V. chrysoptera*. Proc. Int. Ornithol. Congr. 13:147-160.

1963. Review of *Birds and woods*, by W. B. Yapp. Ecology 44(4):829.

1964. Notes on the behavior of the bulbuls, *Pycnonotus cafer* (Linnaeus) and *P. leucogenys* (Gray) in captivity. Pavo (Indian J. Ornithol.) 2(1):26-36.

1964. Extra helpers feeding young of blue-winged and golden-winged warblers. Auk 81(3):428-430.

1964. Review of *Species limits in the woodpecker genus Centurus* (Aves), by Robert K. Selander and Donald R. Giller. Auk 81(1):103-105.

1965. Hybridization in the flickers (*Colaptes*) of North America. Bull. Am. Mus. Nat. Hist. 129(4):307-428.

1965. Variation in West Indian flickers (Aves, *Colaptes*). Bull. Fla. State Mus. 10(1):1-42.

1965. Bird records from northern Nebraska during the breeding season. Nebr. Bird Rev. 33(1):2-5.

1965. Specimens of Nuttall woodpecker from Oregon. Condor 67(3):269-270.

1965. A melanistic pileated woodpecker specimen from Georgia. Wilson Bull. 77(4):404-405.

1965. Review of *The silent sky: The incredible extinction of the passenger pigeon*, by Allan W. Eckert. Atl. Nat. 20(4):245-246.

1965. Review of *Bird migration*, by Donald R. Griffin. Atl. Nat. 20(1):60-61.

1966. Some spring migrant and breeding records from northern Nebraska. Nebr. Bird Rev. 34(1):18-20.

1966. A new Pliocene stork from Nebraska. Smithson. Misc. Collect. 149(9):1-11. (Publ. 4661.)

1966. Review of *Speciation in wrens of the Genus Campylorhynchus*, by Robert K. Selander. Wilson Bull. 78(2):243-245.

1966. Field sparrow sings chipping sparrow song. Auk 83(4):665.

1967. Variation in Central American flickers. Wilson Bull. 79(1):5-21.

1967. A review of the genera of grouse (Aves, *Tetraoninae*). Am. Mus. Novit. no. 2289. 39 pp.

1968. Variation in ladder-backed woodpeckers in southwestern North America. Proc. Biol. Soc. Wash. 81:1-9.

SHORT, LESTER L., JR., AND RICHARD C. BANKS.  
1965. Louisiana waterthrush in Baja California. Condor 67(2):188.

1965. Notes on the birds of northwestern Baja California. Trans. San Diego Soc. Nat. Hist. 14(3):41-52.

SHORT, LESTER L., JR., AND THOMAS D. BURLEIGH.  
1965. An intergeneric hybrid flycatcher (*Contopus* x *Empidonax*) from Idaho. Proc. Biol. Soc. Wash. 78:33-37.

SHORT, LESTER L., JR., AND ROXIE C. LAYBOURNE.  
1967. An instance of "white wing-barring" in the common crow. Wilson Bull. 79(1):113-114.

SHORT, LESTER L., JR., AND ALLAN R. PHILLIPS.  
1966. More hybrid humming birds from the United States. Auk 83(2):253-265.

SHORT, LESTER L., JR., AND CHANDLER S. ROBBINS.  
1967. An intergeneric hybrid wood warbler (*Seiurus* x *Dendroica*). Auk 84(4):534-543.

SHORT, LESTER L., JR., AND STEPHEN W. SIMON.  
1965. Additional hybrids of the slate-colored junco and the white-throated sparrow. Condor 67(5):438-442.

SIBLEY, CHARLES G., AND LESTER L. SHORT, JR.  
1964. Hybridization in the orioles of the Great Plains. Condor 66(2):130-150.

SINHA, A. A., C. H. CONAWAY, AND K. W. KENYON.  
1966. Reproduction in the female sea otter. J. Wildl. Manage. 30(1):121-130.

SUTTON, GEORGE MIKSCH, AND THOMAS D. BURLEIGH.  
1942. Birds recorded in the Federal District and States of Puebla and Mexico by the 1939 Semple expedition. Auk 59(3):418-423.

TERBORGH, J., AND JOHN S. WESKE.  
1972. Rediscovery of the imperial snipe in Peru. Auk 89(3):497-505.

TODD, E. I., AND K. W. KENYON.  
1972. Selected bibliography on the sea otter. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 149. 40 pp.

WILDER, C. D., JR., AND ROBERT D. FISHER.  
1972. Occurrence of the golden mouse in southwestern Virginia. Chesapeake Sci. 13(4):326-327.

WILLIAMS, M. WOODBRIDGE, AND KARL W. KENYON.  
1949. "Seven Seas" to Cedros. Pac. Discovery 2(5):4-13.

WILLIAMS, M. WOODBRIDGE, AND KARL W. KENYON.

1950. "Seven Seas" to Cedros, part 2: Treasures and tricks of the tides. *Pac. Discovery* 3(1): 18-28.

1950. "Seven Seas" to Cedros, part 3: The turtle hunters of Scammon Lagoon. *Pac. Discovery* 3(4): 4-16.

WILSON, DON E.

1972. Review of *About bats*, Bob H. Slaughter and Dan W. Walton, eds. *Southwest. Nat.* 17(1): 109-111.

WILSON, DON E., AND J. S. FINDLEY.

1972. Randomness in bat homing. *Am. Nat.* 106(949): 418-424.

WILSON, DON E., AND D. H. JANZEN.

1972. Predation on *Scheelea* palm seeds by bruchid beetles: seed density and distance from the parent palm. *Ecology* 53(5):954-959.

YOUNG, STANLEY P.

1942. The war on the wolf. *Am. For.* 48(11):492-495, 526.

1942. The war on the wolf [concluded]. *Am. For.* 48(12):552-555, 572-574.

1943. Little known facts about fur. *Am. For.* 49(4):166-167, 189-190.

1943. Early wildlife Americana. *Am. For.* 49(8): 387-389, 414.

1943. What was the early Indian dog? [part 1]. *Am. For.* 49(12):571-573, 594, 603.

1943. The return of the musk ox. Pages 317-322 in *Smithsonian Report for 1942* (Publ. 3720).

1944. Wolf. *Am. Rifleman* 92(6):10-11.

1944. What was the early Indian dog? [part 2]. *Am. For.* 50(1):26-28, 32, 45.

1944. Longevity and other data on a male and a female prairie dog kept as pets. *J. Mammal.* 25(3):317-319.

1944. Other working dogs and the wild species. *Natl. Geogr. Mag.* 86(3):363-384.

1945. Mountain lion trapping. *U.S. Fish Wildl. Serv., Circ.* 6. 7 pp.

1946. On the scream of the puma. *Am. For.* 52(9): 408-409, 442.

1946. Sketches of American wildlife. *Monumental Press*, Baltimore. 143 pp.

1946. The wolf in North American history. *Caxton Printers Ltd.*, Caldwell, Ida. 149 pp.

1947. The case against the bounty. *Northwest Sportsman* 2(4):11.

1948. Datos utiles para el trampeo del puma. *Coza, Tiro y Pesca* (Mexico City) 18:182-183.

1950. Rabies in the wild. *Am. For.* 56(8):26, 30, 42.

1952. The bounty system. *Atl. Nat.* 8(1):10-17.

1952. Review of *Alaskan adventure*, by Jay P. Williams. *J. Mammal.* 33(4):505-506.

1953. American mountain lion or puma. *Felis concolor*. Pages 91-96 in *Rueben E. Trippensee, Wildlife management*, vol. 2. *McGraw Hill Book Co., Inc.*, New York.

1953. Coyotes *Canis latrans*. Pages 97-102 in *Rueben E. Trippensee, Wildlife management*, vol. 2. *McGraw Hill Book Co., Inc.*, New York.

1954. Black-footed ferret (*Mustela nigripes*) in South Dakota. *J. Mammal.* 35(3):443.

1954. The return of the Indian devil. *Pa. Game News* 25(12):8-14.

1955. Texas longhorns. *Zoonozz* 28(4):3-5.

1955. It could live in Pennsylvania. *Pa. Game News* 26(7):18-24.

1956. The deer, the Indians and the American pioneers. Pages 1-27 in *Walter P. Taylor, ed. The deer of North America*. *The Stackpole Co.*, Harrisburg, and *Wildlife Management Institute*, Washington, D.C. 668 pp.

1956. Review of *Tracking the big cats*, by Carl Hert with C. C. Presnall. *Oreg. Hist. Q.* 57(2):175-176.

1958. The bobcat of North America. Its history, life habits, economic status and control, with list of currently recognized subspecies. *The Stackpole Co.*, Harrisburg, and *Wildlife Management Institute*, Washington, D.C. 193 pp.

1960. Wolves, coyotes, and foxes. Pages 120-127 in *Wild Animals of North America*. *National Geographic Society*, Washington, D.C.

1961. The wolves of Caneo. Pages 104-112 in *John K. Terres. Discovery: Great moments in the lives of outstanding naturalists*. *J. B. Lippincott*, Philadelphia.

YOUNG, STANLEY P., AND HAROLD W. DOBYNS.

1945. Coyote control by means of den hunting. *U.S. Fish Wildl. Serv., Circ.* 7. 8 pp.

YOUNG, STANLEY P., AND EDWARD A. GOLDMAN.

1944. The wolves of North America. *American Wildlife Institute*, Washington, D.C. 636 pp.

1946. The puma. *Mysterious American cat*. *American Wildlife Institute*, Washington, D.C. 358 pp.

YOUNG, STANLEY P., AND A. F. HALLORAN.

1952. Arizona specimens of the black-footed ferret. *J. Mammal.* 33(2):251.

YOUNG, STANLEY P., AND HARTLEY H. T. JACKSON.

1951. The clever coyote. *The Stackpole Co.*, Harrisburg, and *Wildlife Management Institute*, Washington, D.C. 411 pp.

YOUNG, STANLEY P., AND RICHARD H. MANVILLE.

1960. Records of bighorn hybrids. *J. Mammal.* 41 (4):523-525.

**DENVER WILDLIFE RESEARCH CENTER**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Denver, Colorado 80225**

Research at the Denver Wildlife Research Center is focused on the need to better understand both the relationship between wildlife and man's interests and the impact of man's activities on wildlife. Investigations of these relationships are categorized as animal damage control, pesticide-wildlife relationships, wildlife ecology on public lands, and basic biological studies. Most of the laboratory-oriented studies, i.e., chemical, toxicological, physiological, and behavioral, are carried out at the Center, while field studies are conducted at some 20 satellite stations located in many States and several foreign countries.

The Denver facilities occupy more than 20 acres, and include two office buildings, laboratories in six different buildings, nine animal holding facilities, and six storage buildings. The buildings and holding facilities total about 54,000 square feet of space. Many items of specialized laboratory equipment complete the Center's facilities.

The history of the Center reflects a coordination of many earlier U.S. Biological Survey programs. In 1940, the Control Methods Laboratory of the Division of Predator and Rodent Control was combined with the Denver Unit of Food Habits Research to become the Denver Wildlife Research Laboratory, performing research on the food habits of predators and other wildlife, and on the control of troublesome animals. At this time the Biological Survey was transferred from the Department of Agriculture to the Department of the Interior, and became a Bureau of the U.S. Fish and Wildlife Service.

Research continued on control methods and the management of injurious and nuisance species, as well as on wildlife ecology and biology. The areas of investigation were expanded to include wildlife on public lands research in 1953. Later in that decade research in wetland ecology and other migratory bird studies were initiated. These two areas were transferred to other stations in 1963 and 1964. By the mid-1960s, the Laboratory's staff had increased to more than 100 persons. Congressional appropriations under the Pesticide-Wildlife Program added research in pesticides and ecology to the existing programs. As a result of this expanded field of research, the Laboratory was renamed the Denver Wildlife Research Center in 1959. Increases in staff created the necessity for a larger facility, and, in 1965, many of the staff moved into a new building at the Denver Federal Center.

A cooperative international research program on the control of vertebrate pests became a reality in 1967, when an agreement was signed between the Department of the Interior and the Agency for International Development in the Department of State. Studies have been conducted in four foreign countries.

ABBOTT, HERSCHEL G., AND WENDELL E. DODGE.  
1961. Photographic observations of white pine seed destruction by birds and mammals. *J. For.* 59(4): 292-294.

ALDOUS, SHALER E.  
1942. The white-necked raven in relation to agricul-  
ture. U.S. Fish Wildl. Serv., Res. Rep. 5. 56 pp.  
1944. Winter habits of crows in Oklahoma. *J. Wildl. Manage.* 8(4):290-295.

ALDOUS, SHALER E., AND LAURITS W. KREFTING.  
1946. The present status of moose on Isle Royale. *Trans. North Am. Wildl. Conf.* 11:296-308.

ANDERSON, DEBORAH.

1971. Summation from the field. Proc. Departmental Library Workshop, 1970. (U.S. Dep. of the Inter., Washington, D.C.) 5:50-51.

1971. Bureau of Sport Fisheries and Wildlife. Proc. Departmental Library Workshop, 1970. (U.S. Dep. of the Inter., Washington, D.C.) 5:206. (Abstr.)

ANTHONY, C., JR., AND J. R. TIGNER.

1968. Rodent repellent cable coating development. Wire and Wire Products 43(2):72-74, 155-157.

ARNOLD, LEE W.

1948. Observations on populations of North Pacific pelagic birds. Auk 65(4):553-558.

1954. The golden eagle and its economic status. U.S. Fish Wildl. Serv., Circ. 27. 35 pp.

BAIRD, CRAIG R., AND KENNETH J. CAPELLE.

1969. Successful laboratory mating of two species of jackrabbit bot flies. J. Med. Entomol. 6(2):196.

BAKER, MAURICE F., AND WILLIAM F. KELLY.

1968. A rare tooth anomaly in an Alabama white-tailed deer. J. Ala. Acad. Sci. 39(3):186-187.

BALSER, DONALD S.

1964. Antifertility agents in vertebrate pest control. Proc. Vertebr. Pest Control Conf. 2:133-137.

1964. Management of predator populations with antifertility agents. J. Wildl. Manage. 28(2):352-358.

1965. Tranquilizer tabs for capturing wild carnivores. J. Wildl. Manage. 29(3):438-442.

1968. Agricultural bird problems in the west. Proc. Bird Control Seminar, 1966 (Bowling Green State Univ., Dep. Biol.) 3:77-79.

1968. Blackbird depredations in animal industry: feedlots. Proc. Bird Control Seminar, 1966 (Bowling Green State Univ., Dep. Biol.) 3:107-109.

1968. New materials from research. Proc. Bird Control Seminar, 1966 (Bowling Green State Univ., Dep. Biol.) 3:125-133.

1970. Balancing nature. Transcript Annu. Meeting Am. Humane Assoc. 94:63-71.

1971. Tuning in wildlife! Telemetry . . . tool of wildlife research. Communi. News 8(2):16.

BARNES, VICTOR G., JR., PAUL MARTIN, AND HOWARD P. TIETGEN.

1970. Pocket gopher control on Oregon ponderosa pine plantations. J. For. 68(7):433-435.

BEITER, CHARLES B., MORTON SCHWARCZ, AND GLEN CRABTREE.

1970. New, single-dose rodenticide. Soap Chem. Spec. 46(4):38, 40, 42, 44, 46.

BELL, J. FREDERICK, GEORGE W. SCIPLE, AND A. A. HUBERT.

1955. A microenvironment concept of the epizootiology of avian botulism. J. Wildl. Manage. 19(3):352-357.

BESSER, JEROME F., JOHN W. DEGRAZIO, AND JOSEPH L. GUARINO.

1968. Costs of wintering starlings and red-winged blackbirds at feedlots. J. Wildl. Manage. 32(1):179-180.

BESSER, JEROME F., WILLIS C. ROYALL, JR., AND JOHN W. DEGRAZIO.

1967. Baiting starlings with DRC-1339 at a cattle feedlot. J. Wildl. Manage. 31(1):48-51.

BESSER, JEROME F., JOHN W. DEGRAZIO, AND KENNETH H. LARSEN.

[1972.] The dickeissel: a problem in ripening grains in Latin America. Proc. Bird Control Semin., 1970. (Bowling Green State Univ., Dep. Biol.) 5:141-143.

BESSER, JEROME F., AND JACK F. WELCH.

1959. Chemical repellents for the control of mammal damage to plants. Trans. North Am. Wildl. Conf. 24:166-173.

BLACK, HUGH C., EDWARD J. DIMROCF, II, WENDELL E. DODGE, AND WILLIAM H. LAWRENCE.

1969. Survey of animal damage on forest plantations in Oregon and Washington. Trans. North Am. Wildl. Nat. Resour. Conf. 34:388-408.

BOEKER, ERWIN L.

1959. Whooping crane. Naturalist (Minn.) 10(1):43-44.

1968. Review of *The wild turkey and its management*, by Oliver H. Hewitt, ed. J. For. 66(1):73.

1970. Use of aircraft to determine golden eagle, *Aquila* [sic] *chrysaetos*, nesting activity. Southwest. Nat. 15(1):136-137.

1972. A survey of white pelican nesting colonies in 1971. Am. Birds 26(1):24, 125.

BOEKER, ERWIN L., AND ERIC B. BOLEN.

1972. Winter golden eagle populations in the southwest. J. Wildl. Mange. 36(2):477-483.

BOEKER, ERWIN L., JOHN W. ALDRICH, AND WILLIAM S. HUEY.

1961. Study of experimental sandhill crane hunting season in New Mexico during January 1961. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 63. 24 pp.

BOEKER, ERWIN L., AND THOMAS D. RAY.

1971. Golden eagle population studies in the southwest. Condor 73(4):463-467.

BOEKER, ERWIN L., AND VIRGIL E. SCOTT.

1969. Roost tree characteristics for *T*urriam's turkey. J. Wildl. Manage. 33(1):121-124.

BOEKER, ERWIN L., VIRGIL E. SCOTT, HUDSON G. REYNOLDS, AND BYRON A. DONALDSON.

1972. Seasonal food habits of mule deer in southwestern New Mexico. J. Wildl. Manage. 36(1):56-63.

BRAY, OLIN E., AND GEORGE W. CORNER.

1972. A tail clip for attaching transmitters to birds. J. Wildl. Manage. 36(2):640-642.

BRUSMAN, HERBERT H., SAMUEL B. LINHART, DONALD S. BALSER, AND LEWIS H. SPARKS.

1968. A technique for producing artifertility tallow baits for predatory mammals. J. Wildl. Manage. 32(1):183-184.

BULLARD, ROGER W.

1966. Determination of translocated tetramine in foliage by hydrogen-flame gas chromatography. J. Agric. Food Chem. 14(2):137-139.

1970. Variation of chemical concentration in surface-coated and tableted grain baits. J. Wildl. Manage. 34(4):925-929.

BULLARD, ROGER W., AND DAN L. CAMPBELL. 1968. Evaluation of adhesives for foliar application of chemicals. *For. Sci.* 14(1):39-44.

BURNS, RICHARD J. 1970. Twin vampire bats born in captivity. *J. Mamm.* 51(2):391-392.

CAMPBELL, DAN L. 1969. Plastic fabric to protect seedlings from animal damage. Pages 87-88 in Hugh C. Black, ed. *Proceedings Symposium on Wildlife and reforestation in the Pacific Northwest, 1968* (Oregon State Univ., School of Forestry, Corvallis).

CAMPBELL, DAN L., AND ROGER W. BULLARD. 1972. A preference-testing system for evaluating repellents for black-tailed deer. *Proc. Vertebr. Pest Conf.* 5:56-63.

CAPELLE, KENNETH J. 1966. Observations on the life history of *Ogcodes rufoabdominalis* in northern Utah (Diptera: Acroceridae). *J. Kans. Entomol. Soc.* 39(4):641-649.

1966. The occurrence of *Oestrus ovis* L. (Diptera: Oestridae) in the bighorn sheep from Wyoming and Montana. *J. Parasitol.* 52(3):618-621.

1970. Studies on the life history and development of *Cuterebra polita* (Diptera: Cuterebridae) in four species of rodents. *J. Med. Entomol.* 7(3):320-327.

CARLEY, CURTIS J., AND FREDERICK F. KNOWLTON. 1971. Trapping wood rats: effectiveness of several techniques and differential catch by sex and age. *Tex. J. Sci.* 22(2 & 3):248-251.

CASLICK, JAMES W. 1956. Color phases of the roof rat, *Rattus rattus*. *J. Mamm.* 37(2):255-257.

COLORADO COOPERATIVE POCKET GOPHER PROJECT TECHNICAL COMMITTEE (RICHARD M. HANSEN [chairman], TERRY A. VAUGHAN, DONALD F. HERVEY, VAN T. HARRIS, PAUL L. HEGDAL, ANCEL M. JOHNSON, A. LORIN WARD, ELBERT H. REID, AND JAMES O. KEITH.) 1960. Pocket gophers in Colorado. Colorado State University, [Agric.] Experiment Station (Fort Collins), Bull. 508-S, 26 pp.

CONNOLLY, R. A., AND R. E. LANDSTROM. 1969. Gopher damage to buried cable materials. *Mater. Res. Stand.* 9(12):13-16, 43, 46.

CORNER, GEORGE W., AND ERWIN W. PEARSON. 1972. A miniature 30-MHz collar transmitter for small animals. *J. Wildl. Manage.* 36(2):657-661.

CRABTREE, D. GLEN. 1944. Fortified red squill: its development and application in rat control. *Pests and Their Control* 12(12):24, 26, 28.

1945. Rodenticides, including "1080." Calif. Dep. Agric. (Sacramento), Rodent Circ. 105. 8 pp.

1947. Red squill—most specific of the raticides. *Econ. Bot.* L(4):394-401.

1950. Raticidal potentialities of WARF-42. *Soap Sanit. Chem.* 26(2):131-135.

1962. Review of current vertebrate pesticides. *Proc. Vertebr. Pest Control Conf.* (National Pest Con-

trol Association, Elizabeth, New Jersey), [1]:327-362.

1964. Summary of rodent control methods and materials. Pages 20-25 in WHO Information Circular on Vector Control No. 4 (World Health Organization, Geneva).

CRABTREE, D. GLEN, AND WILLIAM H. ROBISON. 1952. Warfarin and its effect on some wildlife species. *Trans. North Am. Wildl. Conf.*, 17:167-173.

1973. Pivalyl, the new insecticidal rodenticide. *Pest Control* 21(7):7, 22, 24, 58.

CRABTREE, D. GLEN, W. H. ROBISON, AND V. A. PERRY. 1964. Compound S-6999 (McN-1025); new concept in rodent control. *Pest Control* 32(5):26, 28, 30, 32.

CRABTREE, D. GLEN, JUSTUS C. WARD, AND F. E. GARLOUGH. 1942. The fortification of red squill (*Urginea maritima*) by means of an extract of red squill. *J. Am. Pharm. Assoc. (Sci. Ed.)* 31(5):142-144.

CRASE, FREDERICK T., RICHARD W. DEHAVEN, AND PAUL P. WORONECKI. 1972. Movements of brown-headed cowbirds banded in the Sacramento Valley, California. *Bird-Banding* 43(3):197-204.

CRIER, JOHN K. 1970. Tetracyclines as a fluorescent marker in bones and teeth of rodents. *J. Wildl. Manage.* 34(4):829-834.

CULBREATH, JACK C., AND JOHNSON NEFF. 1946. Colorado's band-tailed pigeons. *Colo. Conserv. Comments* 9(3):24-25.

CUSHWA, CHARLES T., ROBERT L. DOWNING, RICHARD F. HARLOW, AND DAVID F. URBSTON. 1970. The importance of woody twig ends to deer in the southeast. *U.S. For. Serv. Res. Pap. SE-67* (Southeast. For. Exp. Stn.). 12 pp.

DECINO, THOMAS J., DONALD J. CUNNINGHAM, AND EDWARD W. SCHAFER. 1966. Toxicity of DRC-1339 to starlings. *J. Wildl. Manage.* 30(2):249-253.

DEGRAZIO, JOHN W. 1964. Methods of controlling blackbird damage to field corn in South Dakota. [Proc.] *Vertebr. Pest Control Conf.* 2:43-49.

1967. What is being done about blackbird research at the Denver Wildlife Research Center. Pages 51-55 in *Proceedings North American Conference on Blackbird Depredation in Agriculture* (Ohio State University, Columbus).

[1970.] DRC-1339 in feedlots. *Proc. Bird Control Seminar, 1968* (Bowling Green State Univ., Dep. Biol.), 4:109.

[1970.] New materials for bird control. *Proc. Bird Control Seminar, 1968* (Bowling Green State Univ., Dep. Biol.), 4:164-167.

1970. Review of *The problems of birds as pests*, R. K. Murton and E. N. Wright, eds. *J. Wildl. Manage.* 34(2):479-480.

DEGRAZIO, JOHN W., AND JEROME F. BESSER. 1970. Bird damage problems in Latin America. *Proc. Vertebr. Pest Conf.* 4:162-167.

DEGRAZIO, JOHN W., JEROME F. BESSER, THOMAS J. DECINO, JOSEPH L. GUARINO, AND ROBERT I. STARR. 1971. Use of 4-aminopyridine to protect ripening corn from blackbirds. *J. Wildl. Manage.* 35(3): 565-569.

DEGRAZIO, JOHN W., JEROME F. BESSER, THOMAS J. DECINO, JOSEPH L. GUARINO, AND EDWARD W. SCHAFER, JR. 1972. Protecting ripening corn from blackbirds by broadcasting 4-aminopyridine baits. *J. Wildl. Manage.* 36(4):1316-1320.

DEGRAZIO, JOHN W., JEROME F. BESSER, AND JOSEPH L. GUARINO. 1969. Winter distribution of blackbirds as related to corn damage control in Brown County, South Dakota. *Trans. North Am. Wildl. Nat. Resour. Conf.* 34:131-136.

DEGRAZIO, JOHN W., JEROME F. BESSER, JOSEPH L. GUARINO, CHARLES M. LOVELESS, AND JOHN L. OLDEMEYER. 1969. A method for appraising blackbird damage to corn. *J. Wildl. Manage.* 33(4):988-994.

DEHAVEN, RICHARD W. 1969. Curve-billed thrasher (*Toxostoma curvirostre*) in Colorado. *Colo. Field Ornithol.* no. 6:27.

1969. Telescoping mist-net poles. *Inland Bird-Banding News*, 41(3):84-85. (Reprinted in *Western Bird Bander*, 1969, 44(4):44-45.)

1971. Blackbirds and the California rice crop. *Rice J.* 74(8):7-8, 11-12, 14.

DEHAVEN, RICHARD W., AND JOSEPH L. GUARINO. 1969. A nest-box trap for starlings. *Bird-Banding* 40(1):48-50.

1970. Breeding of starlings using nest-boxes at Denver, Colorado. *Colo. Field Ornithol.* no. 8:1-10.

DEHAVEN, RICHARD W., JOSEPH L. GUARINO, FREDERICK T. CRASE, AND EDWARD W. SCHAFER, JR. 1971. Methiocarb for repelling blackbirds from ripening rice. *Int. Rice Comm. News*l. 20(4):25-30.

DELLA-BIANCA, LINO, AND FRANK M. JOHNSON. 1965. Effect of an intensive cleaning on deer-browse production in the southern Appalachians. *J. Wildl. Manage.* 29(4):729-733.

DEWEENE, LAWRENCE R., AND RICHARD E. PILLMORE. 1972. Bird nests in an aspen tree robbed by a black bear. *Condor* 74(4):488.

DICK, JAMES, J. M. FINNIS, LEE O. HUNT, AND NELSON B. KVERNO. 1958. Treatment of Douglas-fir seed to reduce loss to rodents. *J. For.* 56(9):660-661.

DIETZ, DONALD R., AND JAMES R. TIGNER. 1968. Evaluation of two mammal repellents applied to browse species in the Black Hills. *J. Wildl. Manage.* 32(1):109-114.

DODGE, WENDELL E. 1966. Status of the porcupine (*Erethizon dorsatum*) in western Washington. Washington Forest Protection Association, Seattle. 6 pp. +10 unpage maps.

1967. Biotelemetry—its use in vertebrate control studies. *Proc. Vertebr. Pest Conf.* 3:126-127.

1969. Protective measures—a review of chemical, mechanical and other means of controlling damage by animals. Pages 60-62 in Hugh C. Black, ed. *Proceedings symposium on wildlife and reforestation in the Pacific Northwest, 1968* (Oregon State University, School of Forestry, Corvallis).

DODGE, WENDELL E., AND DAN L. CAMPBELL. 1965. Two techniques to reduce capture mortality. *J. Mammal.* 46(4):707.

DODGE, WENDELL E., AND PAUL R. CANUTT. 1969. A review of the status of the porcupine (*Erethizon dorsatum epixanthum*) in western Oregon. U.S. Bur. Sport Fish. Wildl., Olympia, Washington, and U.S. For. Serv., Portland, Oregon. 25 pp.

DODGE, WENDELL E., AND M. BOYD C'URCH. 1965. Construction of transmitters for radio-tracking hares and mountain beavers. *Northwest Sci.* 39(3): 118-122.

DODGE, W. E., C. M. LOVELESS, AND N. B. KVERNO. 1967. Design and analysis of forest-mammal repellent tests. *For. Sci.* 13(3):333-336.

DOWNING, ROBERT L. 1972. Comparison of crippling losses of white-tailed deer caused by archery, buckshot, and shotgun slugs. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 25:77-82.

DOWNING, ROBERT L., AND BURD S. McGINNES. 1969. Capturing and marking white-tailed deer fawns. *J. Wildl. Manage.* 33(3):711-714.

DOWNING, ROBERT L., BURD S. McGINNES, RALPH L. PETCHER, AND JOSHUA L. SANDT. 1969. Seasonal changes in movements of white-tailed deer. Pages 19-24 in *Proceedings of a symposium: White-tailed deer in the southern forest habitat, 1969* (U.S. For. Serv., South. For. Exp. Stn.).

DOWNING, ROBERT L., WILLIAM H. MOORE, AND JOE KIGHT. 1966. Comparison of deer census techniques applied to a known population in a Georgia enclosure. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 19:26-30.

EVANS, JAMES. 1970. About nutria and their control. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 86. 65 pp.

EVANS, JAMES, JAMES O. ELLIS [ELLS], ROGER D. NASS, AND A. LORIN WARD. 1972. Techniques for capturing, handling, and marking nutria. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 25:295-315.

EVANS, JAMES, AND RICHARD E. GRIFFITH, JR. 1972. Reproductive anomalies in black-tailed jackrabbits. *J. Mammal.* 53(1):192-194.

EVANS, JAMES, PAUL L. HEGDAL, AND RICHARD E. GRIFFITH, JR. 1970. Methods of controlling jackrabbits. *Proc. Verebr. Pest Control Conf.* 4:109-116.

EVANS, JAMES, AND R. P. MATTHEWS. 1972. Porcupine survey in western Washington, 1970-71. Washington Forest Protection Association, Seattle. 14 pp.

EVANS, JAMES, AND A. LORIN WARD.

1967. Secondary poisoning associated with anticoagulant-killed nutria. *J. Am. Vet. Med. Assoc.* 151(7):856-861.

FINLEY, ROBERT B., JR.

1960. Direct and indirect effects of some insecticides on western wildlife. *Proc. Annu. Conf. Western Assoc. State Fish Game Comm.* 40:121-127.

1965. Adverse effects on birds of phosphamidon applied to a Montana forest. *J. Wildl. Manage.* 29(3):580-591.

1969. Cone caches and middens of *Tamiasciurus* in the Rocky Mountain region. Pages 233-273 in J. Knox Jones, Jr., ed. *Contributions in Mammalogy*. Univ. Kans. Mus. Nat. Hist., Misc. Publ. no. 51.

1970. Ecological aspects of pesticides in the environment. *N. D. Outdoors* 17(9):10-11, 22.

1970. The ecology of pesticides. *Trail and Timberline*, no. 614:37-40.

FINLEY, ROBERT B., JR., AND RICHARD E. PILLMORE.

1963. Conversion of DDT to DDD in animal tissue. *AIBS (Am. Inst. Biol. Sci.) Bull.* 13(3):41-42.

FLICKINGER, EDWARD L., AND KIRKE A. KING.

1972. Some effects of aldrin-treated rice on Gulf Coast wildlife. *J. Wildl. Manage.* 36(3):706-727.

FLICKINGER, EDWARD L., AND DENNIS L. MEEKER.

1972. Pesticide mortality of young white-faced ibis in Texas. *Bull. Environ. Contam. Toxicol.* 8(3):165-168.

FLORES CRESPO, RAÚL, RICHARD J. BURNS, AND SAMUEL B. LINHART.

1970. Load-lifting capacity of the vampire bat. *J. Mammal.* 51(3):627-629.

1971. Comportamiento del vampiro (*Desmodus rotundus*) durante su alimentación en ganado bovino en cautiverio. *Técnica Pecuaria en México (Secretaría de Agricultura y Ganadería, México, D.F. México)* no. 18:40-44.

FLORES CRESPO, RAÚL, SAMUEL B. LINHART, AND RICHARD J. BURNS.

1972. Comportamiento del vampiro (*Desmodus rotundus*) en cautiverio. *Southwest. Nat.* 17(2):139-143.

FRANK, F. R., E. W. SCHAFER, JR., AND J. L. GUARINO.

[1972.] Laboratory and field studies with an avian repellent for sprouting seeds. *Proc. Bird Control Semin. (Bowling Green State Univ., Dep. Biol.)* 5:86-89.

FRIEND, M.

1972. Review of *A bibliography of avian mycosis*, by E. S. Barden, H. L. Chute, D. C. O'Meara, and H. Wheelwright, eds. *J. Wildl. Dis.* 8(3): 301-302.

FRIEND, M., AND D. O. TRAINER.

1972. Duck hepatitis interactions with DDT and dieldrin in adult mallards. *Bull. Environ. Contam. Toxicol.* 7(4):202-206.

1972. Experimental duck hepatitis in the mallard. *Avian Dis.* 16(4):692-699.

1972. Experimental Newcastle disease studies in the mallard. *Avian Dis.* 16(4):700-713.

FRISCHKNECHT, NEIL C., AND MAURICE F. BAKER.

1972. Voles can improve sagebrush rangelands. *J. Range Manage.* 25(6):466-468.

GARG, S. P., A. ZAJANC, AND R. A. BANKOWSKI.

1964. The effect of cobalt-60 on starlings (*Sturnus vulgaris vulgaris*). *Avian Dis.* 8(4):555-561.

GARLOUGH, F. E., AND DONALD A. SPENCER.

[1944.] Control of destructive mice. *U.S. Fish Wildl. Serv., Conserv. Bull.* 36. 37 pp.

GARLOUGH, F. E., J. F. WELCH, AND H. J. SPENCER.

1942. Rabbits in relation to crops. *U.S. Fish Wildl. Serv., Conserv. Bull.* 11. 20 pp.

GARRISON, MELVYN V., AND CHARLES P. BREIDENSTEIN.

1970. Digestion of sugarcane by the Polynesian rat. *J. Wildl. Manage.* 34(3):520-522.

GASHWILER, JAY S.

1959. Small mammal study in west-central Oregon. *J. Mammal.* 40(1):128-139.

1960. Hunting behavior of a pygmy owl. *Murrelet* 41(1):12-13.

1960. Longevity of a wild deer mouse. *Murrelet* 41(2):27.

1961. Notes on the harlequin duck. *Murrelet* 42(1):4-5.

1963. Pouch capacity of Cooper's chipmunks. *Murrelet* 44(1):7-8.

1965. Longevity and home range of a Townsend chipmunk. *J. Mammal.* 46(4):693.

1966. Tree seed abundance vs. deer mouse populations in Douglas-fir clearcuts. Pages 219-222 in *Proceedings Society of American Foresters*, 1965.

1967. Conifer seed survival in a western Oregon clearcut. *Ecology* 48(3):431-438.

1969. Deer mouse repopulation of a poisoned Douglas-fir clearcut. *J. For.* 67(7):494-497.

1969. Seed fall of three conifers in west-central Oregon. *For. Sci.* 15(3):290-295.

1970. Further study of conifer seed survival in a western Oregon clearcut. *Ecology* 51(5):849-854.

1970. Plant and mammal changes on a clearcut in west-central Oregon. *Ecology* 51(6):1018-1026.

1971. Deer mouse movement in forest habitat. *Northwest Sci.* 45(3):163-170.

1971. Emergence and mortality of Douglas-fir, western hemlock, and western redcedar seedlings. *For. Sci.* 17(2):230-237.

1972. Life history notes on the Oregon vole, *Microtus oregoni*. *J. Mammal.* 53(3):558-569.

GASHWILER, JAY S., AND W. LESLIE ROBINETTE.

1957. Accidental fatalities of the Utah cougar. *J. Mammal.* 38(1):123-126.

GASHWILER, JAY S., W. LESLIE ROBINETTE, AND OWEN W. MORRIS.

1960. Foods of bobcats in Utah and eastern Nevada. *J. Wildl. Manage.* 24(2):226-229.

1961. Breeding habits of bobcats in Utah. *J. Mammal.* 42(1):76-84.

GASHWILER, JAY S., AND A. LORIN WARD.

1966. Western redcedar seed, a food of pine siskins. *Murrelet* 47(3):73-75.

1968. Oregon junco foods in coniferous forest. *Murrelet* 49(3):29-36.

**GODMAN, RICHARD M., AND LAURITS W. KREFTING.**  
 1960. Factors important to yellow birch establishment in upper Michigan. *Ecology* 41(1):18-28.

**GOODRUM, PHIL D.**  
 1959. Acorns in the diet of wildlife. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 13:54-61.  
 1961. The gray squirrel in Texas. *Texas Game and Fish Comm., Bull.* 42. 44 pp.  
 1961. Greenbriers; *Smilax* spp. Pages 62-67 in Lowell K. Halls and Thomas H. Ripley, eds. Deer browse plants of southern forests. U.S. For. Serv. Southern and Southeast. For. Exp. Stns., and Southeast. Sec. Wildl. Soc.  
 1961. Redbay; *Persea borbonia* (L) Spreng. Pages 46-47 in Lowell K. Halls and Thomas H. Ripley, eds. Deer browse plants of southern forests. U.S. For. Serv., Southern and Southeast. For. Exp. Stns., and Southeast. Sec. Wildl. Soc.  
 [1962]. Herbicides in relation to forest wildlife management in the southern United States. Pages 1816-1819 in [Proc.] 5th World Forestry Congress, 1960 (University of Washington, Seattle), vol. 3.  
 1969. Short and long rotations in relation to deer management in southern forests. Pages 71-73 in Proceedings of a symposium: white-tailed deer in the southern forest habitat, 1969 (U.S. For. Serv., South. For. Exp. Stn.).  
 1972. Adult fox squirrel weights in eastern Texas. *J. Wildl. Manage.* 36(1):159-161.

**GOODRUM, PHIL D., AND CHARLES E. GRAY.**  
 1958. Experimental control of giant cutgrass in eastern Texas. *Down to Earth* 14(3):10-12.

**GOODRUM, PHIL D., AND LOWELL K. HALLS.**  
 1961. Fringetree; *Chionanthus virginicus* L. Pages 10-11 in Lowell K. Halls and Thomas H. Ripley, eds. Deer browse plants of southern forests. U.S. For. Serv., Southern and Southeast. For. Exp. Stns., and Southeast. Sec. Wildl. Soc.

**GOODRUM, PHIL, AND VINCENT H. REID.**  
 1952. Wintering woodcock populations in west-central Louisiana 1950-1951. Pages 10-14 in John W. Aldrich and others. Investigations of woodcock, snipe and rails in 1951. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 14.  
 1954. Quail management on forested land. *J. For.* 52(7):518-520.  
 [1955]. Deer versus livestock on Gulf Coast range. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.*, 1954. [8]:88-85.  
 1956. Wildlife implications of hardwood and brush controls. *Trans. North Am. Wildl. Conf.*, 21:127-141.  
 1959. Deer browsing in the longleaf pine belt. Pages 139-143 in Proceedings Society American Foresters, 1958.  
 1962. Browsing habits of white-tailed deer in the western Gulf region. Pages 9-14 in Proceedings 1st National White-tailed Deer Disease Symposium, University of Georgia, Athens.

**GOODRUM, P. D., V. H. REID, AND C. E. BOYD.**  
 1971. Acorn yields, characteristics, and management criteria of oaks for wildlife. *J. Wildl. Manage.* 35(3):520-532.

**GRAHAM, CHARLES L., AND KENNETH J. CAPELLE.**  
 1970. Redescription of *Cuterebra polita* (Diptera: Cuterebridae) with notes on its taxonomy and biology. *Ann. Entomol. Soc. Am.* 63(6):1569-1573.

**GRANT, C. VAL.**  
 1967. Breeding behavior of an uniquely marked starling. *Wilson Bull.* 79(2):243-244.

**GRANT, C. V., R. D. THOMPSON, AND G. W. CORNER.**  
 1971. Determining avian ECG and respiration with a single-channel radio transmitter. *J. Appl. Physiol.* 30(2):302-303.

**GRIFFITH, RICHARD E., JR.**  
 1969. A method for filing black and white photographs. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 490. 4 pp.  
 1970. Capturing jackrabbits by night-lighting. *J. Wildl. Manage.* 34(3):637-639.  
 1970. A vehicle mounted bait dispenser. *Proc. Vertebr. Pest Conf.* 4:117-119.

**GRITMAN, R. B., AND W. I. JENSEN.**  
 1965. Avian cholera in a trumpeter swan (*Olor buccinator*). *Bull. Wildl. Dis. Assoc.* 1(4):54-55.

**GUARINO, JOSEPH L.**  
 1965. Blackbird and starling movements traced by banding and color marking. *Inland Bird-Banding News* 37(4):73.  
 1967. Dakota-banded yellowhead recovered in Florida. *Inland Bird-Banding News* 39(6):160.  
 1968. Evaluation of a colored leg tag for starlings and blackbirds. *Bird-Banding* 39(1):6-13.  
 [1970.] Bird movements in relation to control. *Proc. Bird Control Seminar.* (Bowling Green State Univ., Dep. Biol.) 4:153-156.  
 1972. Methiocarb, a chemical bird repellent: a review of its effectiveness on crops. *Proc. Vertebr. Pest Conf.* 5:108-111.

**GUARINO, JOSEPH L., AND JAMES E. FORBES.**  
 1970. Preventing bird damage to sprouting corn with a carbamate repellent. *N.Y. Fish Game J.* 17(2):117-120.

**GUARINO, JOSEPH L., AND EDWARD W. SCHAFER.**  
 1967. Magpie reduction in an urban roost. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 104. 5 pp.

**GUARINO, JOSEPH L., AND PAUL P. WORONECKI.**  
 1967. Color marking to trace blackbird and starling movements. *Western Bird Fander* 42(2):26-27.

**HALLS, L. K., C. E. BOYD, D. W. LAY, AND P. D. GOODRUM.**  
 1965. Deer fence construction and costs. *J. Wildl. Manage.* 29(4):885-888.  
 1964. High hopes for hardwoods. *Texas Game and Fish* 22(11):4-5, 21.

HALLS, LOWELL K., AND PHIL D. GOODRUM.  
 1961. Japanese honeysuckle; *Lonicera japonica* Thunb. Pages 38-39 in Lowell K. Halls and Thomas H. Ripley, eds. Deer browse plants of southern forests. U.S. For. Serv., Southern and Southeast. For. Exp. Stns., and Southeast. Sec. Wildl. Soc.

HALVORSON, CURTIS H.  
 1961. Curiosity of a marten. *J. Mammal.* 42(1): 111-112.  
 1972. Device and technique for handling red squirrels. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 159. 10 pp.

HANSEN, H. L., AND L. W. KREFTING.  
 1957. Modern sprays increase browse. *Conserv. Volunteer* 20(117):21-25.

HANSEN, R. M., AND A. L. WARD.  
 1966. Some relations of pocket gophers to range-lands on Grand Mesa, Colorado. Colorado State Univ., Agric. Exp. Stn. Tech. Bull. 88. 20 pp.

HARLOW, RICHARD F., AND ROBERT L. DOWNING.  
 1968. Evaluating the deer track census method used in the southeast. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.*, 21:39-41.  
 1969. The effects of size and intensity of cut on production and utilization of some deer foods in the southern Appalachians. *Trans. Northeast Fish Wildl. Conf.* 26:45-55.

HARLOW, RICHARD F., AND ROBERT L. DOWNING.  
 1970. Deer browsing and hardwood regeneration in the southern Appalachians. *J. For.* 68(5):298-300.

HAWKINS, K. I.  
 1972. Fluorometric determination of demethylchlorotetracycline and tetracycline in mammalian bone. *Anal. Biochem.* 45(1):128-136.

HAWKINS, KENNETH I., AND C. EDWARD KNITTLE.  
 1972. Comparison of acetylcholinesterase determinations by the Michel and Ellman methods. *Anal. Chem.* 44(2):416-417.

HEGDAL, PAUL L., A. LORIN WARD, ANCEL M. JOHNSON, AND HOWARD P. TIETJEN.  
 1965. Notes on the life history of the Mexican pocket gopher (*Cratogeomys castanops*). *J. Mammal.* 46(2):334-335.

HILTON, H. WAYNE, AND WILLIAM ROBISON.  
 1972. Fate of zinc phosphide and phosphine in the soil-water environment. *J. Agric. Food Chem.* 20(6):1209-1213.

HOOD, GLENN A.  
 1967. A rodent control research program in Hawaii. *Proc. Annu. Conf., West. Assoc. State Game Fish Comm.* 47:272-281.  
 1968. Estimating rat damage to sugarcane. Pages 40-44 in Rep. 27th Annu. Conf., Hawaiian Sugar Technologists. (Honolulu).  
 1968. Rat control research in Hawaiian sugarcane. Pages 88-94 in Proceedings Asian-Pacific Interchange, rodents as factors in disease and economic loss (Inst. for Tech. Interchange, Center for Cultural and Technical Interchange between East and West, Honolulu, Hawaii).

1972. Zinc phosphide—a new look at an old rodenticide for field rodents. *Proc. Vertebr. Pest Conf.* 5:85-92.

HOOD, GLENN A., ROGER D. NASS, AND GERALD D. LINDSEY.  
 1970. The rat in Hawaiian sugarcane. *Proc. Vertebr. Pest Conf.* 4:34-37.  
 1971. Distribution and accumulation of rat damage in Hawaiian sugarcane. *J. Wildl. Manage.* 35(4): 613-618.

HOWARD, WALTER E., MAYNARD W. CUMMINGS, AND ADOLPH ZAJANC.  
 1961. Comments on bird problems in California. *Calif. Vector News* 8(3):13-17.

HUDSON, RICK H., RICHARD K. TUCKER, AND M. A. HAEGELE.  
 1972. Effect of age on sensitivity: acute oral toxicity of 14 pesticides to mallard ducks of several ages. *Toxicol. Appl. Pharmacol.* 22(4):556-561.

HUNT, ELDREDGE C., AND JAMES O. KEITH.  
 1967. Pesticide analysis in fish and wildlife. Pages 147-189 in Gunter Zweig ed. *Analytical methods for pesticides, plant growth regulators, and food additives*, vol. 5. Academic Press, New York.

HURLBERT, STUART H., MIR S. MULLA, JAMES O. KEITH, WILLIAM E. WESTLAKE, AND MARGARET D. DUSCH.  
 1970. Biological effects and persistence of Dursban in freshwater ponds. *J. Econ. Entomol.* 63(1): 43-52.

IMLER, RALPH H.  
 1944. Electric beacons used to frighten wild ducks from grainfields. U.S. Fish Wildl. Serv., Wildl. Leafl. 256. 5 pp.  
 1945. Bullsnakes and their control on a Nebraska wildlife refuge. *J. Wildl. Manage.* 9(4):265-273.

IMLER, RALPH H., AND E. R. KALMBACH.  
 1955. The bald eagle and its economic status. U.S. Fish Wildl. Serv., Circ. 30. 51 pp.

IMLER, RALPH H., AND HOSEA R. SARBER.  
 1947. Harbor seals and sea lions in Alaska. U.S. Fish Wildl. Serv., Spec. Sci. Rep. 28. 23 pp.

JACKSON, RODNEY M., MARSHALL WHITE, AND FREDERICK F. KNOWLTON.  
 1972. Activity patterns of young white-tailed deer fawns in south Texas. *Ecology* 53(2):262-270.

JAMES, GEORGE A., HAROLD K. CORDELL, FRANK B. BARICK, AND ROBERT L. DOWNING.  
 1969. Small-game hunting on western North Carolina wildlife management areas: part 1, characteristics of hunters. *Wildl. N. C.* 33(10):8-10.

1969. Small-game hunting on western North Carolina wildlife management areas: part 2, importance and use of forest roads and trails. *Wildl. N. C.* 33(11):10-12.

JENSEN, RUE, J. W. TOBISKA, AND JUSTUS C. WARD.  
 1948. Sodium fluoroacetate (compound 1080) poisoning in sheep. *Am. J. Vet. Res.* 9(33):370-372.

JENSEN, W. I., AND R. B. GRITMAN.  
 1967. An adjuvant effect between *Clostridium botulinum* types C and E toxins in the mallard duck (*Anas*

JENSEN, W. I., AND R. B. GRITMAN.  
*platyrhynchos*). Pages 407-413 in M. Ingram and T. A. Roberts, eds. Botulism, 1966. Chapman and Hall, Ltd., London.

JENSEN, WALLACE, AND W. LESLIE ROBINETTE.  
1955. A high reproductive rate for Rocky Mountain mule deer. *J. Wildl. Manage.* 19(4):503.

JENSEN, WAYNE I.  
1963. Populations of aquatic insects in relation to botulism at the Bear River Bird Refuge, Boxelder County, Utah. *Proc. Annu. Meet., Utah Mosq. Abatement Assoc.* 16:13-14.  
1968. Perosis in Canada geese (*Branta canadensis*). *Bull. Wildl. Dis. Assoc.* 4(3):95-99.

JENSEN, WAYNE I., AND JACK P. ALLEN.  
1960. A possible relationship between aquatic invertebrates and avian botulism. *Trans. North Am. Wildl. Nat. Resour. Conf.* 25:171-180.

JENSEN, WAYNE I., AND JAMES M. MICUDA.  
1970. The effect of malathion on the susceptibility of the mallard duck (*Anas platyrhynchos*) to *Clostridium botulinum* type C toxin. Pages 372-375 in Mendel Herzberg, ed. Proceedings 1st U.S.-Japan Conf. on toxic micro-organisms; mycotoxins, botulism, 1968. UJNR [United States—Japan Cooperative Program in Natural Resources] Joint Panels on Toxic Micro-organisms and the U.S. Department of the Interior.

JENSEN, WAYNE I., CORA R. OWEN, AND WILLIAM L. JELLISON.  
1969. *Yersinia philomiragia* sp. n., a new member of the *Pasteurella* group of bacteria, naturally pathogenic for the muskrat (*Ondatra zibethica*). *J. Bacteriol.* 100(3):1237-1241.

JENSEN, WAYNE I., AND CECIL S. WILLIAMS.  
1964. Botulism and fowl cholera. Pages 333-341 in Joseph P. Linduska, ed. Waterfowl tomorrow. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

JOHNSON, NORMAN E., AND PAUL MARTIN.  
1969. *Amydria effrentella* from nests of mountain beaver, *Apoldontia rufa*. *Ann. Entomol. Soc. Am.* 62(2):396-399.

JOHNSON, RICHARD E., AND ROBERT I. STARR.  
1972. Ultrarapid extraction of insecticides from soil using a new ultrasonic technique. *J. Agric. Food Chem.* 20(1):48-51.

JORDAN, JAMES S., AND WARD M. SHARP.  
1967. Seeding and planting hemlock for ruffed grouse cover. U.S. For. Serv., Res. Pap. NE (Northeast. For. Exp. Stn.) 83. 17 pp.

JULANDER, ODELL, W. LESLIE ROBINETTE, AND DALE A. JONES.  
1961. Relation of summer range condition to mule deer herd productivity. *J. Wildl. Manage.* 25(1): 54-60.

KALMBACH, E. R.  
1942. Blackbirds and grain crops in the eastern United States. U.S. Fish Wildl. Serv., Wildl. Leafl. 220. 5 pp.  
1942. Whooping cranes in eastern Colorado. *Auk* 59(2):307.

1943. The armadillo: its relation to agriculture and game. *Tex. Game, Fish Oyster Comm.*, Austin. 61 pp.

1943. Birds, rodents and colored lethal baits. *Trans. North Am. Wildl. Conf.* 8:408-416.

1944. Crow-waterfowl relationships. *Minn. Sportsmen's Digest* 4(5):2-12; 4(6):6.

1944. Local control of magpies through destroying nests and roosts and through trapping. U.S. Fish Wildl. Serv., Wildl. Leafl. 252. 4 pp.

1945. Suggestions for combatting objectionable roosts of birds with special reference to those of starlings. U.S. Fish Wildl. Serv., Wildl. Leafl. 172 (rev.). 19 pp.

1945. "Ten-eighty," a war-produced rodenticide. *Science* 102(2644):232-233.

1947. Advances in rodent control. Pages 890-896 in *Yearbook of Agriculture 1943-1947*. U.S. Department of Agriculture, Washington, D.C.

1948. Observations on new rodenticides. *Bol. Ofic. Sanit. Panamer.* 27(12):1138-1147.

1948. Rodents and rodent control in the United States of America. Pages 140-160 in Stephen S. Easter, ed. *Preservation of grains in storage; papers presented at the International Meeting on Infestation of Foodstuffs*, London, 1947. Food and Agricultural Organization of the United Nations, Wash., D.C. (FAO Agric. Studies, 2).

1948. Rodents, rabbits, and grasslands. Pages 248-256 in *Yearbook of Agriculture, 1948*. U.S. Department of Agriculture, Washington, D.C.

1948. Wildlife in a developing hemisphere. Pages 466-470 in *Proc. Inter-American Conference on Conservation of Renewable Natural Resources*, Washington, D.C. (U.S. Dep. State Publ. 3382).

1949. A scanning device, useful in wildlife work. *J. Wildl. Manage.* 13(2):226-227.

1949. Why not? *Colo. Conservation Comments* 10(12):20-21, 25.

1950. Observations on new rodenticides. *Ofic. Sanit. Panamer. Publ. no. 243*:318-327.

1950. Wildlife in the mails. *Nature Mag.* 43(6): 317-320, 332.

1952. Birds, beasts, and bugs. Pages 724-731 in *Yearbook of Agriculture, 1952*. U.S. Department of Agriculture, Washington, D.C.

1952. How to control crows. *Pest Control* 20(10): 13-14, 78, 80.

1954. Pigeon, sparrow and starling control. *Pest Control* 22(5):9-10, 12, 30-32, 54.

1968. Type C botulism among wild birds—a historical sketch. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 110. 8 pp.

KALMBACH, E. R., AND RALPH H. IMLER.  
1945. Where do the winter ducks of the San Luis Valley breed? *Colo. Conservation Comments* 8(4): 23-25.

KALMBACH, E. R., AND J. P. LINDUSKA.  
1948. Controls beyond control. *Proc. North Am. Wildl. Conf.* 13:112-128.

**KALMBACH, E. R., AND W. L. MCATEE.**

1942. Homes for birds. U.S. Fish Wildl. Serv., Conserv. Bull. 14. 24 pp. [Revised and reprinted in 1969.]

**KALMBACH, E. R., AND J. F. WELCH.**

1946. Colored rodent baits and their value in safeguarding birds. J. Wildl. Manage. 10(4):353-360.

**KEITH, J. O.**

1968. Considérations sur les résidus d'insecticides chez les oiseaux piscivores et dans leurs biotopes [Insecticide residues in fisheating birds and their environments] (French). Aves 5(1):28-41.

1964. An approach to the solution of pesticide-wildlife problems. Proc. Annu. Conf. West. Assoc. State Game Fish Comm. 44:353-356.

1964. Wildlife problems resulting from the use of rodenticides in California. Pages 113-115 in Rep. 4th Agric. Aviation Conf., 1962. (U.S. Agric. Res. Serv.)

1965. The Abert squirrel and its dependence on ponderosa pine. Ecology 46(1-2):150-163.

1965. Insecticides and wildlife. Bull. Entomol. Soc. Am. 11(2):76.

1966. Insecticide contaminations in wetland habitats and their effects on fish-eating birds. J. Appl. Ecol. 3 (suppl.):71-85.

1968. Observations on the effects of low-volume spraying on wildlife. Proc. and Pap. Annu. Conf., Calif. Mosq. Control Assoc. 36:15-17.

**KEITH, JAMES O., AND MIR S. MULLA.**

1966. Relative toxicity of five organophosphorus mosquito larvicides to mallard ducks. J. Wildl. Manage. 30(3):553-563.

**KEITH, JAMES O., LEON A. WOODS, JR., AND ELDRIDGE G. HUNT.**

1970. Reproductive failure in brown pelicans on the Pacific coast. Trans. North Am. Wildl. Nat. Resour. Conf. 35:56-63.

**KENNELLY, JAMES J.**

1969. The effect of mestranol on canine reproduction. Biol. Reprod. 1(3):282-288.

1971. Chemosterilants and wildlife. Transcript Annu. Meeting Am. Humane Assoc. 95:138-144.

1972. Coyote reproduction. I. The duration of the spermatogenic cycle and epididymal sperm transport. J. Reprod. Fertil. 31:163-170.

**KENNELLY, JAMES J., MELVYN V. GARRISON, AND BRAD E. JOHNS.**

1970. Laboratory studies of the effect of U-5897 on the reproduction of wild male rats. J. Wildl. Manage. 34(3):508-513.

**KENNELLY, JAMES J., BRAD E. JOHNS, AND MELVYN V. GARRISON.**

1972. Influence of sterile males on fecundity of a rat colony. J. Wildl. Manage. 36(1):161-165.

**KENNELLY, JAMES J. AND JERRY D. ROBERTS.**

1969. Fertility of coyote-dog hybrids. J. Mammal. 50(4):830-831.

**KEYES, JOSEPH, AND CLARENCE F. SMITH.**

1943. Pine seed-spot protection with screens in California. J. For. 41(4):259-264.

**KILPACK, MERLIN L.**

1970. Notes on sage thrasher nestlings in Colorado. Condor 72(4):486-488.

**KLAWITTER, RALPH A., JACK STUBBS, AND FRANK M. JOHNSON.**

1963. Tests of Arasan 75-Endrin 50W rodent repellent on Shumard and swamp chestnut oak acorns. U.S. For. Serv. Res. Notes SE (Southeast. For. Exp. Stn.) 4. 2 pp.

**KNITTLE, C. EDWARD.**

1971. Blue-winged warbler sightings in Colorado. Colo. Field Ornithol. no. 9:31.

**KNODER, C. EUGENE.**

1965. Young whooping crane rescued. Modern Game Breeding 1(3):45-47.

1965. A research program for endangered wildlife. Game Bird Breeders, Pheasant Fancier's, and Avic. Gaz. 14(10):11-14.

1964. Propagation of sandhill cranes in captivity. Modern Game Breeding 1(1):14-16, 30.

**KNOWLTON, FREDERICK F.**

1972. Preliminary interpretations of coyote population mechanics with some management implications. J. Wildl. Manage. 36(2):369-382.

**KNOWLTON, FREDERICK F., PAUL E. MARTIN, AND JOSEPH C. HAUG.**

1968. A telemetric monitor for determining animal activity. J. Wildl. Manage. 32(4):943-948.

**KOLTZ, A. L., G. W. CORNER, AND H. P. TIETJEN.**

1972. A radio-frequency beacon transmitter for small mammals. J. Wildl. Manage. 36(1):177-179.

**KREFTING, LAURITS W.**

1951. Construction of the Lake States deer enclosure. U.S. For. Serv., Lake States For. Exp. Stn. [now North Cent. For. Exp. Stn.], Tech. Notes 361. 2 pp.

1951. What is the future of the Isle Royale moose herd? Trans. North Am. Wildl. Conf. 16:461-472.

1953. Deer damage to a jack pine plantation in Michigan. U.S. For. Serv., Lake States For. Exp. Stn. [now North Cent. For. Exp. Stn.], Tech. Notes 387. 1 p.

1953. Effect of cutting mountain maple on the production of deer browse. Minn. For. Notes 21 (Univ. Minn., School of For., St. Paul). 2 pp.

1953. Snowshoe hare damage to a jack pine plantation in Minnesota. U.S. For. Serv., Lake States For. Exp. Stn. [now North Cent. For. Exp. Stn.], Tech. Notes 402. 1 p.

1959. Survival and growth of some wildlife cover plantings in Minnesota. Minn. For. Notes 79 (Univ. Minn. School of For., St. Paul). 2 pp.

1962. Use of silvicultural techniques for improving deer habitat in the Lake States. J. For. 60(1):40-42.

1963. Beaver of Isle Royale. Naturalist (Minn.) 14(2):2-11.

1969. The rise and fall of the coyote on Isle Royale. Naturalist (Minn.) 20(4):24-31.

1970. Review of *Wildlife management techniques*, Robert H. Giles, ed. J. For. 68(9):582, 584.

KREFTING, LAURITS W., AND JOHN L. AREND.  
 1960. Effect of deer browsing on a young jack pine plantation in northern lower Michigan. U.S. For. Serv., Lake States For. Exper. Stn. [now North Cent. For. Exp. Stn.], Tech. Notes 586. 2 pp.

KREFTING, LAURITS W., AND ARNOLD B. ERICKSON.  
 1956. Results of special deer hunts on the Mud Lake National Wildlife Refuge, Minnesota. *J. Wildl. Manage.* 20(3):297-302.

KREFTING, L. W., A. B. ERICKSON, AND V. E. GUNVALSON.  
 1955. Results of controlled deer hunts on the Tamarac National Wildlife Refuge. *J. Wildl. Manage.* 19(3):346-352.

KREFTING, L. W., AND H. L. HANSEN.  
 1958. Comparison of winter and spring applications of 2,4-D to induce regrowth of mountain maple for deer browse. *Minn. For. Notes* 66 (Univ. Minn., School For., St. Paul). 2 pp.

1969. Increasing browse for deer by aerial applications of 2,4-D. *J. Wildl. Manage.* 33(4):784-790.

KREFTING, L. W., H. L. HANSEN, AND R. W. HUNT.  
 1960. Improving the browse supply for deer with aerial applications of 2,4-D. *Minn. For. Notes* 95 (Univ. Minn., School For., St. Paul). 2 pp.

1961. Aerial applications of 2,4-D to improve the browse supply for deer. Pages 103-106 in *Proceedings Society American Foresters*, 1960.

KREFTING, L. W., H. L. HANSEN, AND M. P. MEYER.  
 1970. Vegetation type map of Isle Royale National Park (map). U.S. Bur. Sport Fish. Wildl., Denver, Colorado. 1 p.

KREFTING, L. W., H. L. HANSEN, AND M. H. STENLUND.  
 1955. Use of herbicides in inducing regrowth of mountain maple for deer browse. *Minn. For. Notes* 42 (Univ. Minn., School For., St. Paul). 2 pp.

1956. Stimulating regrowth of mountain maple for deer browse by herbicides, cutting, and fire. *J. Wildl. Manage.* 20(4):434-441.

KREFTING, LAURITS W., FORREST B. LEE, PHILIP C. SHELTON, AND KARL T. GILBERT.  
 1966. Birds of Isle Royale in Lake Superior. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 94. 56 pp.

KREFTING, L. W., AND R. L. PHILLIPS.  
 1970. Improving deer habitat in upper Michigan by cutting mixed-conifer swamps. *J. For.* 68(11):701-704.

KREFTING, L. W., AND C. J. SHIUE.  
 1960. Counting deer pellet groups with a multiple-random-start systematic sample. *Minn. For. Notes* 89 (Univ. Minn. School For., St. Paul). 2 pp.

KREFTING, L. W., AND M. H. STENLUND.  
 1951. Poor winter yards = fewer deer. *Conserv. Volunteer* 14(80):16-20.

KREFTING, L. W., M. H. STENLUND, AND R. K. SEEMEL.  
 1966. Effect of simulated and natural deer browsing on mountain maple. *J. Wildl. Manage.* 30(3):481-488.

KREFTING, L. W., AND MILT STENLUND.  
 1967. Mountain maple . . . the miracle deer browse. *Conserv. Volunteer* 30(176):48-51.

KREFTING, LAURITS W., AND JOSEPH H. STOECKELER.  
 1953. Effect of simulated snowshoe hare and deer damage on planted conifers in the Lake States. *J. Wildl. Manage.* 17(4):487-494.

KREFTING, L. W., J. H. STOECKELER, E. J. BRADLE, AND W. D. FITZWATER.  
 1962. Porcupine-timber relationships in the Lake States. *J. For.* 60(5):325-330.

KVERNO, NELSON B.  
 1954. Development of better seed protectants. *J. For.* 52(11):826-827.

1960. The problems in the use of systemic rodenticides. Pages 97-98 in *Proceedings Society American Foresters*, 1959.

1964. Forest animal damage control. [Proc.] *Vertebr. Pest Control Conf.* 2:81-89.

1970. Standardization of procedures for developing vertebrate control agents. *Proc. Vertebr. Pest Conf.* 4:138-139.

KVERNO, NELSON B., GLENN A. HOOD, AND WENDELL E. DODGE.  
 1966. Development of chemicals to control forest wildlife damage. Pages 222-226 in *Proceedings Society American Foresters*, 1965.

LANDSTROM, ROY E.  
 1971. Longevity of white-throated wood rat. *J. Mammal.* 52(3):623.

LARSEN, KENNETH H.  
 1968. Banding pliers for pre-opened bands. *J. Wildl. Manage.* 32(2):425-426.

1970. Glaucous-winged gulls color-marked in Alaska. *West. Bird Bander* 45(4):60.

1970. A hoop-net trap for passerine birds. *Bird-Banding* 4(2):92-96.

1971. Bird control in orchards. *Annu. Rep. Proc. Oregon Horticultural Soc.* 62:64-68.

LARSEN, KENNETH H., AND JOHN H. DIETRICH.  
 1970. Reduction of a raven population on lambing grounds with DRC-1339. *J. Wildl. Manage.* 34(1):200-204.

LARSEN, KENNETH H., AND DONALD F. MOTT.  
 1970. House finch removal from a western Oregon blueberry planting. *Murrelet* 51(2):15-16.

LAVOIE, G. K., F. N. SWINK, AND J. P. SUMANGIL.  
 1971. Destruction of rice tillers by rats in relation to stages of rice. *Philipp. Agric.* 54:171-181.

LAVOIE, G. K., G. C. ATWELL, F. N. SWINK, J. P. SUMANGIL, AND J. LIBAY.  
 1971. Movement of the ricefield rat, *Rattus rattus mindanensis*, in response to flooding and plowing as shown by fluorescent bone labeling. *Philipp. Agric.* 54:325-330.

LAVOIE, G. KEITH, HOWARD P. TIETJEN, AND MICHAEL W. FALL.  
 1971. Albinism in *Thomomys talpoides* from Colorado. *Great Basin Nat.* 31(3):181.

LAWRENCE, WILLIAM H., NELSON B. KVERNO, AND HARRY D. HARTWELL.  
 1961. Guide to wildlife feeding injuries on conifers in the Pacific Northwest. *West. For. Conserv. Assoc.*, Portland, Oregon. 44 pp.

[LINDSEY, GERALD D.]

1969. Characteristics of sugarcane damage caused by rodents, in Hawaii. *Sugar J.* 31(9):22-24.

LINDSEY, GERALD D., ROGER D. NASS, AND GLENN A. HOOD.

1971. An evaluation of bait stations for controlling rats in sugarcane. *J. Wildl. Manage.* 35(3):440-444.

LINHART, SAMUEL B., HERBERT H. BRUSMAN, AND DONALD S. BALSER.

1968. Field evaluation of an antifertility agent, stilbestrol, for inhibiting coyote reproduction. *Trans. North Am. Wildl. Nat. Resour. Conf.* 33: 316-327.

LINHART, SAMUEL B., RAÚL FLORES CRESPO, AND G. CLAY MITCHELL.

1972. Control de murciélagos vampiros por medio de un anticoagulante. *Bol. Ofic. Sanit. Panamer.* 73(2):100-109.

LINHART, SAMUEL B., AND JAMES J. KENNELLY.

1967. Fluorescent bone labeling of coyotes with demethylchlortetracycline. *J. Wildl. Manage.* 31 (2):317-321.

LINHART, SAMUEL B., AND FREDERICK F. KNOWLTON.

1967. Determining age of coyotes by tooth cementum layers. *J. Wildl. Manage.* 31(2):362-365.

LINHART, SAMUEL B., AND WELDON B. ROBINSON.

1972. Some relative carnivore densities in areas under sustained coyote control. *J. Mammal.* 53(4): 880-884.

LITTLE, JOHN W., J. P. SMITH, F. F. KNOWLTON, AND R. R. BELL.

1971. Incidence and geographic distribution of some nematodes in Texas bobcats. *Tex. J. Sci.* 22(4): 403-407.

LOVELESS, C. M., G. N. SARCONI, J. W. DEGRAZIO, AND C. H. HALVORSON.

1966. A simplified data-recording method. *J. Wildl. Manage.* 30(3):519-522.

LUSBY, GREGG C., GEORGE T. TURNER, J. R. THOMPSON, AND VINCENT H. REID.

1963. Hydrolic and biotic characteristics of grazed and ungrazed watersheds of the Badger Wash Basin in western Colorado, 1953-58. *U.S. Geol. Surv., Water-Supply Pap.* 1532-B. 73 pp.

LUSBY, GREGG C., VINCENT H. REID, AND O. D. KNIPE.

1971. Effects of grazing on the hydrology and biology of the Badger Wash Basin in western Colorado, 1953-66. *U.S. Geol. Surv. Water-Supply Pap.* 1532-D. 90 pp.

MANN, WILLIAM F., JR., HAROLD J. DERR, AND BROOKE MEANLEY.

1955. A bird repellent for longleaf seeding. *U.S. For. Serv., South. For. Notes* 99 (South. For. Exp. Stn.). [2 pp.]

1956. Bird repellents for direct seeding longleaf pine. *Forests and People* 6(3):16-17, 48.

MARTIN, F. R., AND L. W. KREFTING.

1953. The Necedah Refuge deer irruption. *J. Wildl. Manage.* 17(2):166-176.

MARTIN, PAUL.

1969. Development and use of toxic foam to control

mountain beavers; part I. Field evaluation of lethal agents by radio-tracking. Pages 82-83 in Hugh C. Black, ed. *Proceedings symposium on wildlife and reforestation in the Pacific Northwest, 1968.* (Oreg. State Univ., School of For., Corvallis).

1971. Movements and activities of the mountain beaver (*Apodemus rufa*). *J. Mammal.* 52(4): 717-723.

McDONALD, MALCOLM E.

1969. Annotated bibliography of helminths of waterfowl (Anatidae). *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 125. 333 pp. (Originally published in Wildl. Dis. 45, 3 microfiche, 117 pp. 1965.)

1969. Catalog of helminths of waterfowl (Anatidae). *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 125. 692 pp. (Originally published in Wildl. Dis. 46, 7 microfiche, 392 pp., 1965.)

MC EWEN, LOWELL C., AND ROBERT L. BROWN.

1966. Acute toxicity of dieldrin and malathion to wild sharp-tailed grouse. *J. Wildl. Manage.* 30(3): 604-611.

MC EWEN, LOWELL C., AND TRUMAN J. FERGIN.

1970. Propagation of prairie grouse in captivity. *Game Bird Breeders, Avic. Zool. and Conserv. Gaz.* 19(7):28-32.

MC EWEN, LOWELL C., DONALD B. KNAPP, AND EUGENE A. HILLIARD.

1969. Propagation of prairie grouse in captivity. *J. Wildl. Manage.* 33(2):276-283.

MC EWEN, LOWELL C., C. EDWARD KNITTLE, AND MERLE L. RICHMOND.

1972. Wildlife effects from grasshopper insecticides sprayed on shortgrass range. *J. Range Manage.* 25(3):188-194.

McGINNES, BURD S., AND ROBERT L. DOWNING.

1970. Fawn mortality in a confined Virginia deer herd. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.*, 1969. 23:188-191.

MC MURRY, FRANK B., AND CHARLES C. SPERRY.

1941. Food of feral house cats in Oklahoma, a progress report. *J. Mammal.* 22(2):185-190.

MEANLEY, BROOKE.

1951. Vermillion flycatcher in Arkansas rice district. *Wilson Bull.* 63(3):203-204.

1952. Notes on the ecology of the short-billed marsh wren in the lower Arkansas rice fields. *Wilson Bull.* 64(1):22-25.

1952. Notes on nesting Traill's flycatcher in eastern Arkansas. *Wilson Bull.* 64(2):111-112.

1953. Nesting of the king rail in the Arkansas rice fields. *Auk* 70(3):261-269.

1954. Nesting of the water-turkey in eastern Arkansas. *Wilson Bull.* 66(2):80-88.

1955. A nesting study of the little blue heron in eastern Arkansas. *Wilson Bull.* 67(2):84-99.

1956. Banding blackbirds in a rice field reservoir roost. *Bird-Banding* 27(4):170-171.

1956. Foods of the wild turkey in the White River bottomlands of southeastern Arkansas. *Wilson Bull.* 68(4):305-311.

MEANLEY, BROOKE.

- 1956. Food habits of the king rail in the Arkansas rice fields. *Auk* 73(2):252-258.
- 1956. The fulvous tree duck . . . a product of the rice fields. *La. Conserv.* 8(7):22, 26.
- 1957. Banding blackbirds in a rice field reservoir roost. *Md. Conserv.* 34(3):21-23.
- 1957. Notes on the courtship behavior of the king rail. *Auk* 74(4):433-440.

MEANLEY, BROOKE, AND ROBERT M. BLAIR.

- 1957. Damage to longleaf pine seedlings by cotton rats. *J. For.* 55(1):35.

MEANLEY, BROOKE, W. F. MANN, JR., AND H. J. DERR.

- 1956. New bird repellents for longleaf seed. *U.S. For. Serv., South. For. Notes* 105 (South. For. Exp. Stn.). [2 pp.]
- 1956. Cotton rats damage longleaf seedlings. *Forests and People* 6(4):42-43.

MEANLEY, BROOKE, AND JOHNSON A. NEFF.

- 1953. Bird notes from the Grand Prairie of Arkansas. *Wilson Bull.* 65(3):200-201.
- 1953. Food habits of the bobolink in Arkansas rice fields. *Auk* 70(2):211-212.

MERRILL, HOWARD A.

- 1967. Control of nuisance pests in suburbia. *Proc. Vertebr. Pest Conf.* 3:65-69.

METZER, ROBERT, AND WILLIS C. ROYALL, JR.

- 1961. Field tests of three chemicals as bird repellents on mature sorghum. *Texas Agric. Exp. Stn., Agricultural and Mechanical College of Texas, MP-524.* 6 pp.

MILES, W. R., L. W. KREFTING, AND H. L. HANSEN.

- 1961. Pocket gopher damage in red and Scotch pine Christmas tree plantations in central Minnesota. *Minn. For. Notes* 110 (Univ. Minn., School For., St. Paul). 2 pp.

MITCHELL, G. CLAY, AND JAMES R. TIGNER.

- 1970. The route of ingested blood in the vampire bat (*Desmodus rotundus*). *J. Mammal.* 51(4): 814-817.

MOODY, RAYMOND D., JACK O. COLLINS, AND VINCENT H. REID.

- 1954. Oak production study under way. *La. Conserv.* 6(9):6-8.

MOORE, WILLIAM H., AND ROBERT L. DOWNING.

- 1966. Some multiple-use benefits of even-aged management in the southern Appalachians. Pages 227-229 in *Proceedings Society American Foresters*, 1965.

MOTT, DONALD F.

- 1970. Ageing house finches by wing covert wear. *Western Bird Bander* 45(3):36-37.

MOTT, DONALD F., JEROME F. BESSER, RICHARD R. WEST, AND JOHN W. DEGRAZIO.

- 1972. Bird damage to peanuts and methods for alleviating the problem. *Proc. Vertebr. Pest Conf.* 5:118-120.

MOTT, DONALD F., JOSEPH L. GUARINO, PAUL P. WORONECKI, AND WILLIS C. ROYALL, JR.

- 1972. Long distance recoveries of common grackles banded in northcentral Colorado. *Colo. Field Ornithol. no.* 12:16-17.

MOTT, DONALD F., RICHARD R. WEST, JOHN W. DEGRAZIO, AND JOSEPH L. GUARINO.

- 1972. Foods of the red-winged blackbird in Brown County, South Dakota. *J. Wildl. Manage.* 36(3): 983-987.

MULLA, M. S., J. O. KEITH, AND F. A. GUNTHER.

- 1966. Persistence and biological effects of parathion residues in waterfowl habitats. *J. Econ. Entomol.* 59(5):1085-1090.

MULLINS, DONALD E., RICHARD E. JOHNSEN, AND ROBERT I. STARR.

- 1971. Persistence of organochlorine insecticide residues in agricultural soils of Colorado. *Pestic. Monit. J.* 5(3):268-271.

MUSSEHL, THOMAS W., AND ROBERT B. FINLEY, JR.

- 1967. Residues of DDT in forest grouse following spruce budworm spraying. *J. Wildl. Manage.* 31(2): 270-287.

NASS, ROGER D., AND GLENN A. HOOD.

- 1969. Time-specific tracer to indicate bait acceptance by small mammals. *J. Wildl. Manage.* 33(3): 584-588.

NASS, ROGER D., GLENN A. HOOD, AND GERALD D. LINDSEY.

- 1970. Distribution of aerially applied ratbait in Hawaiian sugarcane. *Sugar J.* 33(1):34-35.
- 1971. Fate of Polynesian rats in Hawaiian sugarcane fields during harvest. *J. Wildl. Manage.* 35(2): 353-356.
- 1971. Influence of gulch-baiting on rats in adjacent sugarcane fields. *J. Wildl. Manage.* 35(2): 357-360.

NEFF, JOHNSON A.

- 1941. Arboreal nests of the Gambel quail in Arizona. *Condor* 43(2):117-118.
- 1941. A note on the food of burrowing owls. *Condor* 43(4):197-198.
- 1942. Comments on birds and codling moth control in the Ozarks. *Wilson Bull.* 54(1):21-24.
- 1942. Migration of the tricolored red-wing in central California. *Condor* 44(2):45-53.
- 1943. Homing instinct in the dwarf cowbird in Arizona. *Bird-Banding* 14(1&2):1-6.
- 1944. Banding western doves. News from the Bird-Banders (West. Bird-Banding Assoc.) 19(3): 27-30.
- 1944. A protracted incubation period in the mourning dove. *Condor* 46(5):243.
- 1944. Seeds of legumes eaten by birds. *Condor* 46(4): 207.
- 1945. Foster parentage of a mourning dove in the wild. *Condor* 47(1):39-40.
- 1945. Maggot infestation of nestling mourning doves. *Condor* 47(2):73-76.
- 1945. Protecting home gardens and small fruits from attack by birds. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 268. 14 pp.
- 1947. Habits, food, and economic status of the band-tailed pigeon. *U.S. Fish Wildl. Serv., North Am. Fauna* 58. 76 pp.
- 1947. Notes on some birds of Sonora, Mexico. *Condor* 49(1):32-34.

NEFF, JOHNSON A.

- 1948. Colorado's mallards come home. *Colo. Conserv. Comments* 10(8):5-8, 27, 28.
- 1948. Protecting crops from damage by horned larks in California. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 308. 11 pp.
- 1948. Russian-banded emperor goose killed in California. *Condor* 50(6):271.
- 1949. Blackbird depredations on Arkansas rice fields. *Trans. North Am. Wildl. Conf.* 14:556-566.
- [1949.] Frightening blackbirds from rice fields. *Univ. Ark., College Agric. Ext. Serv., Misc. Publ.* 30. 8 pp.
- 1955. An outbreak of aspergillosis in mallards. *J. Wildl. Manage.* 19(3):415-416.
- 1956. The band-tailed pigeon. Pages III-H-1 to III-H-3 in U.S. For. Serv., Region 2, Wildlife handbook [Denver; Colo.]
- 1956. The western mourning dove. Pages III-I-1 to III-I-3 in U.S. For. Serv., Region 2, Wildlife handbook [Denver, Colo.]
- 1961. The bird repellent—bird toxicant basic screening program, Denver Wildlife Research Center. Pages 92-95 in Bird Depredation Conference (Rutgers—The State University, College of Agriculture, New Brunswick, N. J.)

NEFF, JOHNSON A., AND JACK C. CULBREATH.

- 1947. Band-tailed pigeon trapping in Colorado. *News from the Bird-Banders (West. Bird-Banding Assoc.)* 22(1):2-4.

NEFF, JOHNSON A., AND PHILIP A. DUMONT.

- 1955. A partial list of the plants of the Midway Islands. *Atoll Res. Bull.* 45 (Natl. Acad. Sci., Natl. Res. Counc., Pacific Sci. Board, Wash., D.C.). 11 pp.

NEFF, JOHNSON A., AND BROOKE MEANLEY.

- 1952. Experiences in banding blackbirds in eastern Arkansas. *Bird-Banding* 23(4):5-157.
- 1957. Blackbirds and the Arkansas rice crop. *Univ. Arkansas, Agric. Exp. Stn. Bull.* 584. 89 pp.
- 1957. Status of Brewer's blackbird on the Grand Prairie of eastern Arkansas. *Wilson Bull.* 69(1):102-105.

NEFF, JOHNSON A., AND ROBERT T. MITCHELL.

- 1955. The rope firecracker: a device to protect crops from bird damage. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 365. 8 pp.

NEFF, JOHNSON A., AND R. J. NIEDRACH.

- 1946. Nesting of the band-tailed pigeon in Colorado. *Condor* 48(2):72-74.

OKUNO, IWAO, RICHARD A. WILSON, AND ROBERT E. WHITE.

- 1972. Determination of mercury in biological samples by flameless atomic absorption after combustion and mercury-silver amalgamation. *J. Assoc. Anal. Chem.* 55(1):96-100.

OLDEMEYER, JOHN L.

- 1970. Biometrics in wildlife research. Pages 199-201 in Proceedings symposium on the development and implementation of courses and curricula in natural resources biometry (Colo. State Univ., Fort Collins).

PANK, LARRY F., AND GEORGE H. MATSCHKE.

- 1972. Decline and reinvasion of deer mouse populations after baiting Douglas-fir clearcuts with 6-aminonicotinamide. *J. For.* 70(11):678-680.

PATTON, DAVID R., ROBERT T. DICKIE, ERWIN L. BOEKER, AND VIRGIL E. SCOTT.

- 1968. A transmitter for tracking wildlife. *U.S. For. Serv. Res. Note RM-114 (Rocky Mt. For. Range Exp. Stn.)*. 4 pp.

PATTON, DAVID R., VIRGIL E. SCOTT, AND ERWIN L. BOEKER.

- 1972. Construction of an 8-mm time-lapse camera for biological research. *U.S. For. Serv. Res. Pap. RM-88 (Rocky Mt. For. Range Exp. Stn.)*. 8 pp.

PEARSON, ERWIN W.

- 1967. Birds and airports. *Proc. Vertebr. Pest Conf.* 3:79-86.

PEARSON, ERWIN W., PAUL R. SKON, AND GEORGE W. CORNER.

- 1967. Dispersal of urban roosts with records of starling distress calls. *J. Wildl. Manage.* 31(3):502-506.

PEEK, JAMES M., LAURITS W. KREFTING, AND JOHN C. TAPPEINER, II.

- 1971. Variation in twig diameter-weight relationships in northern Minnesota. *J. Wildl. Manage.* 35(3):501-507.

PERRY, VERNON A.

- 1970. Thin layer chromatographic determination of sodium monofluoroacetate. *J. Assoc. Off. Anal. Chem.* 53(4):737-741.

PETERSON, JAMES E.

- 1971. A mircoanalytical [sic] method for 4-amino-pyridine in corn plant tissues. *Bull. Environ. Contam. Toxicol.* 6(1):72-80.

PETERSON, JAMES E., AND WILLIAM H. ROBISON.

- 1964. Metabolic products of p,p'-DDT in the rat. *Toxicol. Appl. Pharmacol.* 6(3):321-327.

PHILLIPS, ROBERT L.

- 1971. Notes on the behavior of red foxes in a large enclosure. *Proc. Iowa Acad. Sci.* 78(1 & 2):36-37.

PHILLIPS, ROBERT L., AND WILLIAM E. BERG.

- 1972. Farm country moose. *Minn. Volunteer* 35(204):59-63.

PHILLIPS, ROBERT L., AND L. DAVID MECH.

- 1970. Homing behavior of a red fox. *J. Mammal.* 51(3):621.

PHILLIPS, ROBERT L., AND THOMAS H. NICHOLLS.

- 1970. A collar for marking big game animals. *U.S. For. Serv. Res. Note NC-103 (North Central For. Exp. Stn.)*. 4 pp.

PILLMORE, RICHARD E., AND ROBERT B. FINLEY, JR.

- 1963. Residues in game animals resulting from forest and range insecticide applications. *Trans. North Am. Wildl. Nat. Resour. Conf.* 28:409-422.

PILLMORE, R. E., E. L. FLICKINGER, AND M. L. RICHMOND.

- 1971. Forest spraying of Zectran and its safety to wildlife. *J. For.* 69(10):721-727.

POSPICHAL, C. E., AND L. W. KREFTING.  
1960. The Necedah Wildlife Refuge deer situation in 1960. *National Bowhunter*, August. p. 24.

RADWAN, M. A., AND D. L. CAMPBELL.  
1968. Snowshoe hare preference for spotted catsear flowers in western Washington. *J. Wildl. Manage.* 32(1):104-108.

RADWAN, M. A., AND WENDELL E. DODGE.  
1965. Effective application rates of TMTD rabbit repellent to Douglas-fir seedlings in the nursery. *Tree Planters' Notes* no. 72:7-9.

1970. Fate of radioactive tetramine in small animals and its possible use as a seedling protectant. *Northwest Sci.* 44(1):25-30.

RADWAN, M. A., W. E. DODGE, AND H. S. WARD.  
1967. Effect of storage on subsequent growth and repellency of Douglas-fir seedlings sprayed with TMTD. *Tree Planters' Notes* 18(4):10-13.

RAMSEY, PAUL R., AND CURTIS J. CARLEY.  
1970. Additions to the known range and ecology of three species of *Dipodomys*. *Southwest. Nat.* 14(3):351-353.

REID, VINCENT H.  
1960. Too hot for Bob. *Tex. Game and Fish* 18(11): 20-21.

REID, VINCENT H., AND PHIL GOODRUM.  
[1952.] Wintering woodcock populations in west-central Louisiana, 1951-1952. Pages 4-10 in *Investigations of woodcock, snipe, and rails in 1952*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 18.

1954. Observations of woodcock breeding in certain southeastern states. Pages 17-18 in *Investigations of woodcock, snipe, and rails in 1953*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 24.

1954. Wintering woodcock populations in west-central Louisiana, 1952-1953. Pages 9-16 in *Investigations of woodcock, snipe, and rails in 1953*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 24.

1955. Wintering woodcock populations in west-central Louisiana, 1953-1954. Pages 7-10 in *Investigations of woodcock, snipe, and rails in 1954*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 28.

1956. Wintering woodcock populations in west-central Louisiana, 1954-1955. Pages 11-14 in *Investigations of woodcock, snipe, and rails in 1955*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 31.

1957. Factors influencing the yield and wildlife use of acorns. *Proc. Annu. La. State Univ. For. Symp.* 6:47-79.

1957. Wintering woodcock observations in west-central Louisiana, 1955-56. Pages 11-15 in *Investigations of woodcock, snipe, and rails in 1956*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 34.

1958. The effect of hardwood removal on wildlife. Pages 141-147 in *Proc. Soc. Am. For.*, 1957.

1960. Bobwhite quail: a product of longleaf pine forests. *Trans. North Am. Wildl. Nat. Resour. Conf.* 25:241-252.

REID, V. H., R. M. HANSEN, AND A. L. WARD.  
1966. Counting mounds and earth plugs to census mountain pocket gophers. *J. Wildl. Manage.* 30(2): 327-334.

RICE, DALE W.  
1959. Birds and aircraft on Midway Islands: 1957-58 investigations. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 44. 49 pp.

RICHENS, V. B.  
1965. An evaluation of control on the Wasatch pocket gopher. *J. Wildl. Manage.* 29(3):413-425.

1967. The status and use of Gophacide. *Proc. Vertebr. Pest Conf.* 3:118-125.

RICHMOND, MERLE L.  
1972. Duped by a raven. *Colo. Field Nat.* no. 12:15.

RICHMOND, MERLE, RICHARD E. PILLMORE, AND C. EDWARD KNITTLE.  
1969. A urine-collection device for male mule deer. *J. Am. Vet. Med. Assoc.* 155(7):1085.

ROBERTS, I. H., W. P. MELENEY, AND R. E. PILLMORE.  
1970. Ear-scab mites, *Psoroptes cuniculi* (Acarina: Psoroptidae) in captive mule deer. *J. Parasitol.* 56(5):1039-1040.

ROBINETTE, W. LESLIE.  
1956. Productivity—the annual crop of mule deer. Pages 415-429 in Walter P. Taylor, ed. *The deer of North America*. Stackpole Publishing Company, Harrisburg, Pa. and Wildlife Management Institute, Washington, D.C.

1958. Unusual dentition in mule deer. *J. Mammal.* 39(1):156-157.

1960. Mule deer facts. Pages 63-84 in Jim Bond, ed. *The mule deer*. Conger Press, Portland, Oregon.

1966. Mule deer home range and dispersal in Utah. *J. Wildl. Manage.* 30(2):335-349.

1972. Review of *The biology and behavior of the reedbuck* (*Redunca arundinum Boddaert 1785*) in the Kruger National Park, by Furtmut Jungius. *J. Wildl. Manage.* 36(3):1006.

1972. Browse and cover for wildlife. Pages 69-76 in Cyrus M. McKell, James P. Blaisdell, and Joe R. Goodin, eds. *Woodland shrubs—their biology and utilization, an international symposium*, 1971. U.S. For. Serv., Gen. Tech. Rep. INT-1.

ROBINETTE, W. L., AND A. L. ARCHER.  
1971. Notes on ageing criteria and reproduction of Thompson's gazelle. *East Afr. Wildl. J.* 9:83-98.

ROBINETTE, W. LESLIE, ROBERT B. FEGUSON, AND JAY S. GASHWILER.  
1958. Problems involved in the use of deer pellet group counts. *Trans. North Am. Wildl. Conf.* 23: 411-425.

ROBINETTE, W. LESLIE, AND JAY S. GASHWILER.  
1950. Breeding season, productivity, and fawning period of the mule deer in Utah. *J. Wildl. Manage.* 14(4):457-469.

ROBINETTE, W. LESLIE, JAY S. GASHWILER, JESSOP B. LOW, AND DALE A. JONES.  
1957. Differential mortality by sex and age among mule deer. *J. Wildl. Manage.* 21(1):1-16.

ROBINETTE, W. LESLIE, JAY S. GASHWILER, AND OWEN W. MORRIS.  
 1961. Notes on cougar productivity and life history. *J. Mammal.* 42(2):204-217.  
 1959. Food habits of the cougar in Utah and Nevada. *J. Wildl. Manage.* 23(3):261-273.

ROBINETTE, W. LESLIE, AND DALE A. JONES.  
 1959. Antler anomalies of mule deer. *J. Mammal.* 40(1):96-108.

ROBINETTE, W. LESLIE, DALE A. JONES, GLENN ROGERS, AND JAY S. GASHWILER.  
 1957. Notes on tooth development and wear for Rocky Mountain mule deer. *J. Wildl. Manage.* 21(2):134-153.

ROBINSON, WELDON B.  
 1943. The "humane coyote-getter" vs. the steel trap in control of predatory animals. *J. Wildl. Manage.* 7(2):179-189.  
 1948. Thallium and compound 1080 impregnated stations in coyote control. *J. Wildl. Manage.* 12(3):279-295.  
 1952. Some observations on coyote predation in Yellowstone National Park. *J. Mammal.* 33(4):470-476.  
 1953. Coyote control with compound 1080 stations in national forests. *J. For.* 51(12):880-885.  
 1953. Fur bearers and coyote poisons. *Natl. Wool Grow.* 43: 14, 37.  
 1953. Population trends of predators and fur animals in 1080 station areas. *J. Mammal.* 34(2):220-227.  
 1956. Does the coyote control rodents, or doesn't he? *Am. Cattle Producer* 38(4):8-12.  
 1959. The search for a humane trap. *Natl. Humane Rev.* 47(6):14-15, 25.  
 1961. Population changes of carnivores in some coyote-control areas. *J. Mammal.* 42(4):510-515.  
 1962. Methods of controlling coyotes, bobcats, and foxes. Pages 32-56 in *Proceedings Vertebrate Pest Control Conference* (National Pest Control Association, Elizabeth, New Jersey).  
 1968. Importance of research in rodent control. Pages 203-206 in *Proceedings Asian-Pacific Interchange, rodents as factors in disease and economic loss*. (Inst. Tech. Interchange, Cent. Cult. Techn. Interchange between East and West, Honolulu, Hawaii).

ROBINSON, WELDON B., AND MAYNARD W. CUMMINGS.  
 1947. Notes on behavior of coyotes. *J. Mammal.* 28(1):68-65.  
 1951. Movements of coyotes from and to Yellowstone National Park. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 11. 17 pp.

ROBINSON, WELDON B., AND EUGENE F. GRAND.  
 1958. Comparative movements of bobcats and coyotes as disclosed by tagging. *J. Wildl. Manage.* 22(2):117-122.

ROBINSON, WELDON B., AND VAN T. HARRIS.  
 1960. Of gophers and coyotes. *Am. Cattle Producer* 42(5):6-7.

ROBISON, WILLIAM H.  
 1970. Acute toxicity of sodium monofluoracetate to cattle. *J. Wildl. Manage.* 34(3):647-648.

ROBISON, WILLIAM H., AND D. GLEN CRABTREE.  
 1956. Fumarin, a new 4-hydroxycoumarin anti-coagulant rodenticide. *Agric. Chem.* 11(5):31, 127.

ROGERS, GLENN, ODELL JULANDER, AND W. LESLIE ROBINETTE.  
 1958. Pellet-group counts for deer census and range-use index. *J. Wildl. Manage.* 22(2):193-199.

ROUGHTON, ROBERT D.  
 1972. Shrub age structures on a mule deer winter range in Colorado. *Ecology* 5(4):615-625.

ROYALL, W. C., JR.  
 1962. Bird's deportment subject of study. *Prog. Agric. Ariz.* 14(2):3.  
 1962. Starlings do damage to crops in Arizona. *Prog. Agric. Ariz.* 14(3):14-16.  
 1966. Breeding of the starling in central Arizona. *Condor* 68(2):196-205.  
 1968. Cowbirds at a Phoenix, Arizona, cattle feed-lot. *West. Bird Bander* 43(3):41-42.  
 1969. Trapping house sparrows to protect experimental grain crops. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 484. 4 pp.  
 1969. Blackbird banding. *Western Bird Bander* 44(4):47.

ROYALL, W. C., T. J. DECINO, AND J. F. BESSER.  
 1967. Reduction of a starling population at a turkey farm. *Poult. Sci.* 46(6):1494-1495.

ROYALL, W. C., JR., AND E. R. FERGUSON.  
 1962. Controlling bird and animal damage in direct seeding loblolly pine in east Texas. *J. For.* 60(1):37-39.

ROYALL, W. C., JR., J. L. GUARINO, J. W. DEGRAZIO, AND A. GAMMELL.  
 1971. Migration of banded yellow-headed blackbirds. *Condor* 73(1):100-106.

ROYALL, WILLIS C., JR., JOSEPH L. GUARINO, AND JEROME F. BESSER.  
 1972. Movements of redwings color-marked in north-central Colorado in 1971. *Colo. Field Ornithol. no.* 14:20-23.

ROYALL, W. C., JR., J. L. GUARINO, A. ZAJANC, AND C. C. SIEBE.  
 1972. Movements of starlings banded in California. *Bird-Banding* 43(1):26-37.

ROYALL, WILLIS C., JR., AND JOHNSON A. NEFF.  
 1961. Bird repellents for pine seeds in the mid-southern states. *Trans. North Am. Wildl. Nat. Resour. Conf.* 26:234-238.

ROYALL, WILLIS C., JR., AND RICHARD E. PILLMORE.  
 1968. House wren feeds red-shafted flicker nestlings. *Murrelet* 49(1):4-6.

RUSSELL, T. E., AND BROOKE MEANLEY.  
 1957. Listen for the crickets. *U.S. For. Serv., South. For. Notes* 110 (South. For. Exp. Stn.). [2 pp.]

SCHAFER, EDWARD W.  
 1972. The acute oral toxicity of 369 pesticidal, pharmaceutical and other chemicals to wild birds. *Toxicol. Appl. Pharmacol.* 21(3):315-330.

SCHAFER, EDWARD W., JR., AND RONALD B. BRUNTON.  
 1971. Chemicals as bird repellents: two promising agents. *J. Wildl. Manage.* 35(3):569-572.

SCHAFER, EDWARD W., JR., AND DONALD J. CUNNINGHAM.  
 1972. An evaluation of 148 compounds as avian immobilizing agents. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 150. 30 pp.

SCHAFER, EDWARD W., JR., AND JOSEPH L. GUARINO.  
 [1972.] Problems in developing new chemicals for bird control. *Proc. Bird Control Sem. (Bowling Green State Univ., Dep. Biol.)* 5:7-10.

SCHAFER, E. W., R. I. STARR, D. J. CUNNINGHAM, AND T. J. DECINO.  
 1967. Substituted phenyl N-methylcarbamates as temporary immobilizing agents for birds. *J. Agric. Food Chem.* 15(2):287-289.

SCHAFER, E. W., R. R. WEST, AND D. J. CUNNINGHAM.  
 1969. New starling toxicant: DRC-1347. *Pest Control* 37(9):22, 24, 30.

SCHIFFER, VICTOR B., AND JOHNSON A. NEFF.  
 1948. Food of California sea-lions. *J. Mammal.* 29 (1):67-68.

SCHITOSKEY, FRANK, JR.  
 1968. Notes on morphological variation in the dark kangaroo mouse. *Southwest. Nat.* 13(2):243-248.  
 1971. Anomalies and pathological conditions in the skulls of nutria from southern Louisiana. *Mammalia* 35(2):311-314.  
 1972. Bacular variation in nutria from southern Louisiana. *Southwest. Nat.* 16(3 and 4):454-457.

SCHITOSKEY, FRANK, JR., JAMES EVANS, AND G. KEITH LAVOIE.  
 [1972.] Status and control of nutria in California. *Proc. Vertebr. Pest Conf.* 5:15-17.

SCHROEDER, MAX H.  
 1967. Gophacide, a candidate for control of Ord's kangaroo rat. *J. Wildl. Manage.* 31(2):339-341.  
 1970. Mourning dove production in a Kansas osage orange planting. *J. Wildl. Manage.* 34(2):344-348.  
 1972. Vesper sparrow nests abandoned after snow. *Wilson Bull.* 84(1):98-99.

SCHROEDER, M. H., AND C. A. ELY.  
 1972. Recoveries of mourning doves banded as nestlings in west-central Kansas. *Bird-Banding* 43(4):257-260.

SCIPLE, GEORGE W.  
 1953. Avian botulism: information on earlier research. *U.S. Fish Wildl. Serv., Spec. Sci. Rep.* 23. 12 pp.

SCOTT, VIRGIL E., AND ERWIN L. BOEKER.  
 1972. An evaluation of wild turkey call counts in Arizona. *J. Wildl. Manage.* 36(2):628-630.

SHARP, WARD M.  
 1963. The effects of habitat manipulation and forest succession on ruffed grouse. *J. Wildl. Manage.* 27(4):664-671.  
 1965. Hawthorns—multiple use shrubs. *Cornell Plantations* 21(2):19-22.  
 1966. Ruffed grouse—in and out of the shadows. *Pa. Game News* 37(5):9-13.

SHARP, WARD M., AND VANCE G. SPRAGUE.  
 1967. Flowering and fruiting in the white oaks. Pistillate flowering, acorn development, weather, and yields. *Ecology* 48(2):243-251.

SHEARER, RAYMOND C., AND CURTIS H. HALVORSON.  
 1967. Establishment of western larch by spring spot seeding. *J. For.* 65(3):188-193.

SHORT, HENRY L., CHARLES A. SEGELOQUIST, PHIL D. GOODRUM, AND CHARLES E. BOYD.  
 1969. Rumino-reticular characteristics of deer on food of two types. *J. Wildl. Manage.* 33(2):380-383.

SHUMAKE, STEPHEN A., R. DAN THOMPSON, AND CHARLES J. CAUDILL.  
 1971. Taste preference behavior of laboratory versus wild Norway rats. *J. Comp. Physiol. Psychol.* 77(3):489-494.

SMITH, ALLEN G.  
 1960. Hail, great destroyer of wildlife. *Audubon* 62(4):170-171.  
 1965. Hail; effects of hail on waterfowl. Pages 836-839 in *Audubon nature encyclopedia*, vol. 5. Curtis Publishing Co., Philadelphia, Pa.  
 1969. Waterfowl-habitat relationships on the Loupiana, Alberta, waterfowl study area. Pages 116-122 in *Trans. Saskatoon Wetlands Semin. Can. Wildl. Rep. Ser.* no. 6.

SMITH, ALLEN G., JEROME H. STOUDT, AND F. BERNARD GOLLOP.  
 1964. Prairie potholes and marshes. Pages 39-50 in Joseph P. Linduska, ed. *Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D. C.

SMITH, CLARENCE F.  
 1941. Lewis woodpecker migration. *Condor* 43(1):76.  
 1942. An unusual mallard's nest. *Auk* 59(2):304.  
 1942. An injured meadowlark. *Auk* 59(3):439.  
 1942. The fall food of the brushfield pocket mice. *J. Mammal.* 23(3):337-339.  
 1943. Relationship of forest wildlife to pine reproduction. *J. Wildl. Manage.* 7(1):124-125.  
 1943. Rabbit mortality along an Idaho highway. *J. Mammal.* 24(2):262-265.

SPENCER, ALBERT W.  
 1962. A device for holding and spreading bird bands. *Bird-Banding* 33(2):96-97.

SPENCER, ALBERT W., AND JOHN W. DECRAZIO.  
 1962. Capturing blackbirds and starlings in marsh roosts with dip nets. *Bird-Banding* 33(1):42-43.

SPENCER, DONALD A.  
 1941. A small mammal community in the upper Sonoran desert. *Ecology* 22(4):421-425.  
 1946. A forest mammal moves to the farm—the porcupine. *Trans. North Am. Wildl. Conf.* 11:195-199.  
 1948. Chemical controls in relation to wildlife management. *Proc. Annu. Conf., West. Assoc. State Game Fish Comm.* 28:83-88.

SPENCER, DONALD A.

1948. An electric fence for use in checking porcupine and other mammalian crop depredations. *J. Wildl. Manage.* 12(1):110-111.

1949. Management methods and safeguards employed in reductional control of injurious wildlife. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 318. 9 pp.

1950. The porcupine, its economic status and control. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 328. 7 pp.

1950. Porcupines, rambling pincushions. *Natl. Geogr. Mag.* 98(2):247-264.

1954. Rodents. Pages 275-307 in J. A. Anderson and A. W. Alcock, eds. *Storage of cereal grains and their products*. Am. Assoc. Cereal Chem. (University Farm, St. Paul, Minn.). Monogr. Ser., vol. 2.

1954. Rodents and direct seeding. *J. For.* 52(11):824-826.

1956. The effects of rodents on reforestation. Pages 125-128 in *Proceedings Society American Foresters*, 1955.

[1958?] Biological and control aspects. Pages 15-25 in *The Oregon meadow mouse irruption of 1957-1968*. Oregon State University, Federal Cooperative Extension Service, Corvallis.

1959. Prevention of mammal damage in forest management. Pages 183-185 in *Proceedings Society American Foresters*, 1958.

1959. Research in wild animal problems of forestry. *Proc. West. For. Conf.* 50:30-34.

1960. Research in rodent control in the United States with special reference to seed protection. *Proc. 4th Int. Congr. Crop Protection*, 1957 (Braunschweig, Comptes Rendus, Hamburg, Germany) 2:1357-1362.

1962. Chemical controls as a management measure. *J. For.* 60(1):28-30.

SPENCER, H. J.

1944. Emetic agent in toxic bat bait, a safeguard for dogs and cats. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 264. 5 pp.

1947. Simple rat proofing methods. *Pest Control and Sanitation* 2(4):9, 11.

1955. Review of *Control of rats and mice*, Dennis Chitty and H. N. Southern, eds. *Pest Control* 23(8):30-31.

SPENCER, H. J., AND D. E. DAVIS.

1950. Movement and survival of rats in Hawaii. *J. Mammal.* 31(2):154-157.

SPERRY, CHARLES C.

1941. Burrowing owls eat spadefoot toads. *Wilson Bull.* 53(1):45.

1941. Coyote versus peccary. *J. Mammal.* 22(1):86.

1941. Food habits of the coyote. *U.S. Fish Wildl. Serv., Wildl. Res. Bull.* 4. 70 pp.

1947. Botulism control by water manipulation. *Trans. North Am. Wildl. Conf.* 12:228-233.

SPERRY, C. C., AND CLARENCE COTTAM.

1944. The greater and lesser yellowlegs as fish eaters. *Wilson Bull.* 56(1):45.

STARR, ROBERT I., JEROME F. BESSER, AND RONALD B. BRUNTON.

1964. A laboratory method for evaluating chemicals as bird repellents. *J. Agric. Food Chem.* 12(4):342-344.

STEPHENSON, GEORGE K., PHIL D. GOODRUM, AND ROBERT L. PACKARD.

1963. Small rodents as consumers of pine seed in east Texas uplands. *J. For.* 61(7):523-526.

STOEKELER, J. H., AND L. W. KREFTING.

1953. Effect of simulated snowshoe hare and deer damage on some conifers planted in the Lake States. *U.S. For. Serv., Lake States For. Exp. Stn.* [now North Cent. Forest Exp. Stn.] Tech. Notes 413. 2 pp.

STOEKELER, J. H., R. O. STROTHMANN, AND L. W. KREFTING.

1957. Effect of deer browsing on reproduction in the northern hardwood-hemlock type in northeastern Wisconsin. *J. Wildl. Manage.* 21(1):75-80.

STONE, CHARLES P.

1971. Blackbirds vs. corn—a definition of nationwide losses. *Farm Q.* 27(5):61.

STONE, CHARLES P., DONALD F. MOTT, JEROME F. BESSER, AND JOHN W. DEGRAZIO.

1972. Bird damage to corn in the United States in 1970. *Wilson Bull.* 84(1):101-105.

STORM, G. L., AND C. H. HALVORSON.

1967. Effect of injury by porcupines on radial growth of ponderosa pine. *J. For.* 65(10):740-743.

THOMPSON, R. D.

1964. Design and implantation of sensors and transducers for physiological measurements in wild birds. *Biomed. Sci. Instrum.* 2:123-130.

THOMPSON, R. D., AND C. V. GRANT.

1968. Nutritive value of two laboratory diets for starlings. *Lab. Anim. Care* 18(1):75-79.

1971. Automated preference testing for rating palatability of foods. *J. Exp. Anal. Behav.* 15(2):215-220.

THOMPSON, R. D., C. V. GRANT, E. W. PEARSON, AND G. W. CORNER.

1968. Cardiac response of starlings to sound: effects of lighting and grouping. *Am. J. Physiol.* 214(1):41-44.

1968. Differential heart rate response of starlings to sound stimuli of biological origin. *J. Wildl. Manage.* 32(4):888-893.

THOMPSON, R. DAN, G. CLAY MITCHELL, AND RICHARD J. BURNS.

1972. Vampire bat control by systemic treatment of livestock with an anticoagulant. *Science* 177(4051):806-808.

THOMPSON, R. D., AND D. L. RUHBERG.

1967. Miniaturized four-channel radio transmitter with receiving system for obtaining physiological data from birds. *Med. Electronics Biol. Eng.* 5(5):495-504.

THOMPSON, R. D., S. A. SHUMAKE, AND R. W. BULLARD.

[1972.] Methodology for measuring taste and odor preference of rodents. *Proc. Vertebr. Pest Conf.* 5:36-42.

TIETJEN, HOWARD P.

1969. Orchard mouse control—a progress report. *Proc. Annu. Meeting, Mass. Fruit Growers Assoc., Inc.*

TIETJEN, HOWARD P.  
(North Amherst, Mass.) 75:60-66. (Also titled New England Fruit Meetings, 1969).

TIETJEN, HOWARD P., CURTIS H. HALVORSON, PAUL L. HEGDAL, AND ANCEL M. JOHNSON.  
1967. 2,4-D herbicide, vegetation, and pocket gopher relationships. Black Mesa, Colorado. *Ecology* 48 (4):634-643.

TIGNER, J. R.  
1966. Chemically treated multiwall tarps and bags tested for rat repellency. *J. Wildl. Manage.* 30 (1):180-184.

TIGNER, JAMES R., AND JEROME F. BESSER.  
1962. Rodent repellency: a quantitative method for evaluating chemicals as rodent repellents on packaging materials. *J. Agric. Food Chem.* 10 (6):484-486.  
1962. Repellents for protection of young forest trees from rabbit and rodent damage. *Tree Planters' Notes* no. 51:1-3.

TIGNER, JAMES R., AND WALTER A. BOWLES.  
1964. Chloropicrin tested as an area repellent for house mice. *J. Wildl. Manage.* 28(4):748-751.

TIGNER, JAMES R., AND ROY E. LANDSTROM.  
1968. Chemical protection methods progress. *Electronic Packaging and Production* 8(4):120-124.

TRAINER, D. O., AND F. F. KNOWLTON.  
1968. Serologic evidence of diseases in Texas coyotes. *J. Wildl. Manage.* 32(4):981-983.

TRAINER, D. O., F. F. KNOWLTON, AND F. KARSTAD.  
1968. Oral papillomatosis in the coyote. *Bull. Wildl. Dis. Assoc.* 4(2):52-54.

TUCKER, R. K.  
1971. Chlorinated hydrocarbons cause thin eggshells but so may other pollutants. *Utah Sci.* 32(2): 47-50.

TUCKER, RICHARD K., AND D. GLEN CRABTREE.  
1969. Toxicity of Zectran insecticide to several wildlife species. *J. Econ. Entomol.* 62(6):1307-1310.  
1970. Handbook of toxicity of pesticides to wildlife. U.S. Bur. Sport Fish. Wildl. Resour. Publ. 84. 131 pp. [Also available from the National Technical Information Service as PB 198 885.]

TUCKER, RICHARD K., AND H. [M.] A. HAEGLE.  
1970. Eggshell thinning as influenced by method of DDT exposure. *Bull. Environ. Contam. Toxicol.* 5(3):191-194.  
1971. Comparative acute oral toxicity of pesticides to six species of birds. *Toxicol. Appl. Pharmacol.* 20(1):57-65.

VAN RIPER, WALKER, AND E. R. KALMBACH.  
1952. Homing not hindered by wing magnets. *Science* 115(2995):577-578.

VAN WORMER, R. L., AND P. L. HEGDAL.  
1966. Torticollis in a cottontail. *Bull. Wildl. Dis. Assoc.* 2(2):40.

WARD, A. LORIN.  
1960. Mountain pocket gopher food habits in Colorado. *J. Wildl. Manage.* 24(1):89-92.  
1964. Foods of the mourning dove in eastern Colorado. *J. Wildl. Manage.* 28(1):152-157.

WARD, A. LORIN, AND RICHARD M. HANFEN.  
1960. The burrow-builder and its use for control of pocket gophers. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 47. 7 pp.  
1962. Pocket gopher control with the burrow-builder in forest nurseries and plantations. *J. For.* 60(1): 42-44.

WARD, A. LORIN, PAUL L. HEGDAL, VOIT B. RICHENS, AND HOWARD P. TIETJEN.  
1967. Gophacide, a new pocket gopher control agent. *J. Wildl. Manage.* 31(2):332-338.

WARD, A. LORIN, AND JAMES O. KEITH.  
1962. Feeding habits of pocket gophers in mountain grasslands, Black Mesa, Colorado. *Ecology* 43(4): 744-749.

WARD, JUSTUS C.  
1942. Rodent poison and bird life. *Wyo. Wild Life* 7(4):15, 20.  
1942. Rodenticides—past, present, and future. *Pests and Their Control* 10(10):10-11, 31.  
1943. Formulation of rat baits. *Scap Sanit. Chem.* 19(12):127-129, 143B. (Reprinted in *Pests and Their Control* 12(2):17-18, 27-28. 1944.)  
1945. Rat control—the use of rodenticides. *Pests and Their Control* 13(10):16.  
1945. Rodenticides—present and future. *Soap Sanit. Chem.* 21(9):117, 119, 127.  
1946. Rodent control with 1080, ANTU, and other war-developed toxic agents. *Am. J. Public Health* 36(12):1427-1431.  
1946. Use of new toxic agents in rodent control. *Agric. Chem.* 1(8):24-26, 41.  
1947. Certain new techniques in rodent control. *Pests and Their Control* 15(3):12-14.

WARD, JUSTUS C., AND D. GLEN CRABTREE.  
1942. Strychnine X. Comparative accuracies of stomach tube and intraperitoneal injection methods of bioassay. *J. Am. Pharm. Assoc., Sci. Ed.* 31 (4):113-115.

WARD, JUSTUS C., AND JAMES B. DEWITT.  
1948. Hazards associated with handling the new organic phosphates. *Pests and Their Control* 16(3):34.

WARD, JUSTUS C., MALCOLM MARTIN, AND WARREN ALLRED.  
1942. The susceptibility of sage grouse to strychnine. *J. Wildl. Manage.* 6(1):55-57.

WARD, JUSTUS C., AND D. A. SPENCER.  
1947. Notes on the pharmacology of sodium fluoroacetate—compound 1080. *J. Am. Pharm. Assoc., Sci. Ed.* 36(2):59-62.  
1947. Wartime improvements in rodent control agents. *Food Technol.* 1(1):51-55.

WELCH, JACK F.  
1951. Rat-repellent findings. *Modern Packaging* 24 (9):138-140.  
1953. Formation of urinating "posts" by house mice (*Mus*) held under restricted conditions. *J. Mammal.* 34(4):502-503.  
1954. Rodent control; a review of chemical repellents for rodents. *J. Agric. Food Chem.* 2(3): 142-149.

WELCH, JACK F.

1958. Progress in Research to control rodents. *Natl. Agric. Chem. Assoc. News and Pestic. Rev.* 16(3):14-15.

1967. Review of animal repellents. *Proc. Vertebr. Pest Conf.* 3:36-40.

WELCH, JACK F., JAMES B. DEWITT, AND ERVIN BELLACK.

1950. Rat deterrents for paper; Part I. *Soap Sanit. Chem.* 26(4):122-124, 147.

1950. Rodent deterrents—Part II. *Soap Sanit. Chem.* 26(5):147, 149, 151, 177.

WELCH, JACK F., AND E. W. DUGGAN.

1952. Rodent-resistant vinyl films. *Modern Packaging* 25(6):130-131, 182-183.

WELCH, JACK F., AND MILLARD GRAHAM.

1952. Rodent repellent studies with "Arasan"-treated seed corn. *Plant Dis. Rep.* 36(2):57-59.

WELCH, JACK F., AND CHARLES L. TERRELL.

1948. Rodent control activities in connection with grass adaptability studies. *J. For.* 46(5):379-380.

WELLEIN, EDWARD G., AND HARRY GORDON LUMSDEN.

1964. Northern forests and tundra. Pages 67-76 in Joseph P. Linduska, ed. *Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

WEST, RICHARD R.

1968. Reduction of a winter starling population by baiting its preroosting areas. *J. Wildl. Manage.* 32(3):637-640.

WEST, RICHARD R., AND JEROME F. BESSER.

1967. Dipnetting blackbirds in a marsh roost in Missouri. *Inland Bird Banding Assoc. News* 39 (4):91.

WEST, RICHARD R., JEROME F. BESSER, AND JOHN W. DEGRAZIO.

1967. Starling control in livestock feeding area. *Proc. Vertebr. Pest Conf.*, 3:89-93.

WEST, RICHARD R., RONALD B. BRUNTON, AND DONALD J. CUNNINGHAM.

1969. Repelling pheasants from sprouting corn with a carbamate insecticide. *J. Wildl. Manage.* 33(1): 216-219.

WEST, RICHARD R., AND JAMES H. DUNKS.

1969. Repelling boat-tailed grackles from sprouting corn with a carbamate compound. *Tex. J. Sci.* 21(2):231-233.

WHITE, MARSHALL, FREDERICK F. KNOWLTON, AND W. C. GLAZENER.

1972. Effects of dam-newborn fawn behavior on capture and mortality. *J. Wildl. Manage.* 36(3):897-906.

WILKENS, H., AND R. J. BURNS.

1972. A new *Anoptichthys* cave population (Choracidae, Pisces). *Ann. Speleol.* 27(1):263-270.

WILLIAMS, C. S., AND E. R. KALMBACH.

1943. Migration and fate of transported juvenile waterfowl. *J. Wildl. Manage.* 7(2):163-169.

WILLIAMS, CECIL S., AND JOHNSON A. NEFF.

1966. Scaring makes a difference. Pages 438-445 in Alfred Stefferud, ed. *Birds in our lives*, U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

WORONECKI, PAUL P., JOSEPH L. GUARINO, JEROME F. BESSER, AND JOHN W. DEGRAZIO.

1970. Carbamate baits discourage blackbirds from using feedlots. *Proc. Vertebr. Pest Conf.* 4:171-172.

WORONECKI, PAUL P., JOSEPH L. GUARINO, AND JOHN W. DEGRAZIO.

1967. Blackbird damage control with chemical frightening agents. *Proc. Vertebr. Pest Conf.* 3: 54-56.

ZAJANC, ADOLPH.

1962. Methods of controlling starlings and blackbirds. Pages 190-212 in *Proc. Vertebr. Pest Control Conf.* (National Pest Control Association, Elizabeth, N.J.)

ZAJANC, ADOLPH, AND MAYNARD W. CUMMINGS.

1962. A cage trap for starlings. *Univ. Calif., Agric. Ext. Serv.*, One-sheet answers OSA 129. [2 pp.]

## MIGRATORY BIRD AND HABITAT RESEARCH LABORATORY

U.S. Department of the Interior  
Bureau of Sport Fisheries and Wildlife  
Laurel, Maryland 20810

The Migratory Bird Populations Station was established on October 19, 1961, and was located at the Patuxent Wildlife Research Center near Laurel, Maryland. Its main purpose was to provide the Bureau of Sport Fisheries and Wildlife with a central location for the study of migratory bird population dynamics in North America. Because the seasonal movements of migratory birds cross many political and administrative boundaries, the work of the Station was international in scope, and was conducted in close cooperation with Canada and Mexico, the States, private agencies, and universities.

The Station administered the Bird Banding Laboratory, which is the repository for North American bird banding records, and coordinated banding activities of public and private cooperators. It also analyzed data from breeding and wintering ground surveys of migratory birds, national surveys of hunting activity, and migratory game bird harvests, providing information needed annually to establish hunting regulations for doves, woodcock, waterfowl, and other migratory game birds.

Using banding and survey data, Station biologists investigated population dynamics of the various game bird species, directing their work towards the relationships between various types of hunting regulations, harvests, and populations. The annual breeding bird survey, now conducted throughout much of North America, was developed and directed from the Migratory Bird Population Station.

The Ira N. Gabrielson Laboratory, constructed to house all personnel and facilities of the Station, was dedicated on October 11, 1969. At that time the Station occupied 19,147 square feet of space in office, laboratories, and service buildings. The Station contained the Bureau's major computer unit, used in processing and analyzing millions of records relating to abundance, distribution, and survival of migratory birds.

On July 9, 1973, the functions of the Migratory Bird Populations Station were transferred to the newly organized Office of Migratory Bird Management, attached to the Office of the Director of the Bureau, and to the Migratory Bird and Habitat Research Laboratory, which remained with the Division of Wildlife Research. Both groups, however, continued to be housed at Patuxent.

### AMEND, SPENCER R.

1970. Progress report on Carolina Sandhills mourning dove studies. *Proc. Annu. Conf. Southeast Assoc. Game and Fish Comm.* 23:191-201.

### ANDERSON, DAVID R.

1972. Bibliography on methods of analyzing bird banding data, with special reference to the estimation of population size and survival. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 156. 13 pp.

### ANDERSON, DAVID R., AND CHARLES J. HENNY.

1972. Population ecology of the mallard. I. A review of previous studies and the distribution and migration from breeding areas. *U.S. Bur. Sport Fish. Wildl. Resour. Publ.* 105. 166 pp.

### ANDERSON, DAVID R., AND RICHARD S. POSPAHALA.

1970. Correction of bias in belt transect studies

of immotile objects. *J. Wildl. Manage.* 34(1): 141-146.

### ATWOOD, EARL L., AND CLINTON F. WELLS JR.

1961. Waterfowl harvest in the United States during the 1960-61 hunting season. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 55. 20 pp.

1961. Waterfowl harvest in the Mississippi Flyway States during the 1960-61 hunting season. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 56. 49 pp.

### BALLOU, ROBERT M., AND FANT W. MARTIN.

1964. Rigid plastic collars for marking geese. *J. Wildl. Manage.* 28(4):846-847.

### BAYSINGER, EARL B.

1968. Swallow-tailed kite over Cayuga Lake. *Kingbird* 18(1):25.

**SAYSINGER, EARL B.**

1969. A second-hand band. *Inland Bird-Banding News* 41(4):140.

1970. A hoop-net trap for passerine birds—additional comments. *Bird-Banding* 41(4):311.

**BLANKENSHIP, LYITTLE H., ALAN B. HUMPHREY, AND DUNCAN MACDONALD.**

1971. A new stratification of mourning dove call-count routes. *J. Wildl. Manage.* 35(2):319-326.

**BLANKENSHIP, LYITTLE H., AND HENRY M. REEVES.**

1970. Mourning dove recoveries from Mexico. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 135. 25 pp.

**BLANKENSHIP, LYITTLE H., R. E. TOMLINSON, AND R. C. KUFELD.**

1967. Arizona dove wing survey, 1964. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 116. 34 pp.

**BRAKHAGE, GEORGE K., HENRY M. REEVES, AND RICHARD A. HUNT.**

1971. The Canada goose tagging program in Wisconsin. *Trans. North Am. Wildl. Nat. Resour. Conf.* 36:275-295.

**BRIDGE, DAVID, M. SUSAN HUNDT, WILLET T. VAN VELZEN, AND ALDEEN C. VAN VELZEN.**

1969. The greater shearwater in Maryland. *Md. Birdlife* 25(4):111-115.

**BUREAU OF SPORT FISHERIES AND WILDLIFE.**

1962. Abstracts of mourning dove literature. *U.S. Fish Wildl. Serv., Circ.* 136. 153 pp.

**BYSTRAK, DANNY R., AND C. S. ROBBINS.**

1972. Winter Bird Survey, 1972. *Md. Birdlife* 28(1): 15-24.

**CARNEY, SAMUEL M.**

1964. Preliminary keys to waterfowl age and sex identification by means of wing plumage. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 82. 47 pp.

**CHAMBERLAIN, E. B., AND C. F. KACZYNSKI.**

1966. Problems in aerial surveys of waterfowl in eastern Canada. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 93. 21 pp.

**CLARK, ELDON R.**

1970. Woodcock status report, 1969. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 133. 35 pp.

1971. Woodcock status report, 1970. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 140. 38 pp.

1972. Woodcock status report, 1971. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 153. 47 pp.

**CLIFFORD, CARLTON M., DANIEL E. SONENSHINE, EARL L. ATWOOD, CHANDLER S. ROBBINS, AND LYNDAL E. HUGHES.**

1969. Birds as disseminators of ticks and tick-borne diseases in the eastern United States. *Am. J. Trop. Med. Hyg.* 18 (6):1057-1061.

**CONNOR, EDWARD F., DEDRA BUCHWALD, GARY KEETON, RAY NICHOLS, MICHELLE PAVILLARD, PAUL WAGNER, AELRED GEIS, LARRY L. HOOD, AND CHANDLER S. ROBBINS, compiler.**

1971. Breeding bird census: 1. Hickory-oak-ash floodplain forest. *Am. Birds* 25(6):963-964.

**CONNOR, EDWARD F., DEDRA BUCHWALD, PAUL WAGNER, AELRED GEIS, AND CHANDLER S. ROBBINS, compiler.**

1971. Breeding bird census: 10. Upland tulip-tree—maple—oak forest. *Am. Birds* 25(6):971.

**CONWAY, C. N., H. M. WIGHT, AND K. C. SADLER.**

1963. Annual production of a cottontail population. *J. Wildl. Manage.* 27(2):171-193.

**CRISSEY, WALTER F.**

1961. Waterfowl status report, 1961. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 61. 122 pp.

1964. Exploitation of migratory populations in North America. Pages 105-120 in *J. J. Swift, ed. Proceedings First European meeting on wildfowl conservation, St. Andrews, Scotland, 1963. Nature Conservancy, London.*

1965. Waterfowl species management: problems and progress. *Trans. North Am. Wildl. Nat. Resour. Conf.* 30:229-245.

1968. Information needs for Canada goose management program. Pages 141-147 in *Ruth L. Hine and Clay Schoenfeld, eds. Canada goose management. Dembar Educational Research Service, Madison, Wis.*

1969. Prairie potholes from a continental viewpoint. Pages 161-177 in *Saskatoon Wetlands Seminar. Can. Wildl. Rep. Ser. no. 6.*

1970. Aims and methods of waterfowl research in North America. *Trans. Int. Cong. of Game Biologists (Helsinki, 1967)* 8:37-46. [Published as] *Finnish Game Research no. 30.* 396 pp.

1971. Breeding ground survey methods in North America. Pages 362-374 in *Proceedings of Third International Regional Meeting on Conservation of Wildfowl Resources, Leningrad, USSR, 1968.*

**GEIS, AELRED D.**

1963. Role of hunting regulations in migratory bird management. *Trans. North Am. Wildl. Nat. Resour. Conf.* 28:167-172.

1966. Information needed and procedures for establishing status of the wood duck population. Pages 183-192 in *Wood duck management and research: a symposium. Wildlife Management Institute, Washington, D.C.*

1971. Breeding and wintering areas of mallards harvested in various States and Provinces. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 144. 59 pp.

1972. Role of banding data in migratory bird studies. Pages 213-228 in *Population ecology of migratory birds: a symposium. U.S. Fish Wildl. Serv., Wildl. Res. Rep. 2.* 278 pp.

1972. Use of banding data in migratory game bird research and management. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 154. 47 pp.

**GEIS, AELRED D., AND EARL L. ATWOOD.**

1961. Proportion of recovered waterfowl bands reported. *J. Wildl. Manage.* 25(2):154-159.

**GEIS, AELRED D., AND SAMUEL M. CARNEY.**

1961. Results of duck-wing collection in the Mississippi Flyway, 1959-60. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 54. 120 pp.

**GEIS, AELRED D., AND F. GRAHAM COOCH.**

1972. Distribution of the duck harvest in Canada and the United States. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 151. 11 pp.

GEIS, AELRED D., AND WALTER F. CRISSEY.  
 1969. Effect of restrictive hunting regulations on canvasback and redhead harvest in the United States. *J. Wildl. Manage.* 33(4):860-866.

GEIS, AELRED D., R. KAHLER MARTINSON, AND DAVID R. ANDERSON.  
 1969. Establishing hunting regulations and allowable harvest of mallards in the United States. *J. Wildl. Manage.* 33(4):848-859.

GEIS, AELRED D., ROBERT I. SMITH, AND JOHN P. ROGERS.  
 1971. Black duck distribution, harvest characteristics, and survival. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 139. 241 pp.

GEIS, AELRED D., AND RICHARD D. TABER.  
 1963. Measuring hunting and other mortality. Pages 284-298 in Henry S. Mosby, ed. *Wildlife investigational techniques*; 2nd ed. The Wildlife Society, Washington, D.C.

GODIN, ALFRED J.  
 1964. A review of the literature on the mountain beaver. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 78. 52 pp.

GOUDY, WILLIAM H.  
 1967. Woodcock research and management, 1966. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 101. 40 pp.

1969. Woodcock research and management programs, 1967 and 1968. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 123. 32 pp.

GOUDY, WILLIAM H., AND FANT W. MARTIN.  
 1966. Woodcock status report, 1965. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 92. 43 pp.

GRAU, G. A., G. C. SANDERSON, AND J. P. ROGERS.  
 1970. Age determination of raccoons. *J. Wildl. Manage.* 34(2):364-372.

HACKMAN, C. D., AND C. J. HENNY.  
 1971. Hawk migrations over White Marsh, Maryland. *Chesapeake Sci.* 12(3):137-141.

HENNY, CHARLES J.  
 1972. An analysis of the population dynamics of selected avian species with special reference to changes during the modern pesticide era. *U.S. Fish Wildl. Serv., Wildl. Res. Rep.* 1. 99 pp.

HENNY, CHARLES J., D. R. ANDERSON, AND R. S. POSPAHALA.  
 1972. Aerial surveys of waterfowl production in North America, 1955-71. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 160. 48 pp.

HENNY, C. J., AND J. C. OGDEN.  
 1970. Estimated status of osprey populations in the United States. *J. Wildl. Manage.* 34(1):214-217.

HENNY, C. J., W. S. OVERTON, AND H. M. WIGHT.  
 1970. Determining parameters for populations by using structural models. *J. Wildl. Manage.* 34(4):690-703.

HENNY, CHARLES J., AND W. T. VANVELZEN.  
 1972. Migration patterns and wintering localities of American ospreys. *J. Wildl. Manage.* 36(4):1133-1141.

HENNY, CHARLES J., AND H. M. WIGHT.  
 1972. Population ecology and environmental pollution: red-tailed and Cooper's hawks. Pages 229-250 in *Population ecology of migratory birds: a symposium*. U.S. Fish Wildl. Serv., Wildl. Res. Rep. 2. 278 pp.

HEYLAND, J. DOUGLAS, EVERETT B. CHAMBERLAIN, CHARLES F. KIMBALL, AND DONALD H. BALDWIN.  
 1970. Whistling swans breeding on the northwest coast of New Quebec. *Can. Field-Nat.* 84(4):398-399.

HOOD, LARRY L.  
 1968. The 1968 annual meeting of IBBA. *Inland Bird-Banding News* 40(4):123-124.

1968. 1967 annual Canadian banding report. *Inland Bird-Banding News* 40(4):144-147.

1968. Is this your schedule? *Inland Bird-Banding News* 40(6):206-209.

1969. Pictures of the Banding Laboratory. *Inland Bird-Banding News* 41(2):65-68.

1969. 1968 Annual banding report. *Inland Bird-Banding News* 41(3):100-117.

1969. 1968 Inland Canadian banding report. *Inland Bird-Banding News* 41(4):147-149.

1969. The 1969 annual meeting of IBBA. *Inland Bird-Banding News* 41(6):203-204.

1970. 1969 Annual banding report. *Inland Bird-Banding News* 42(3):102-119.

1970. The 1970 annual meeting of IBBA. *Inland Bird-Banding News* 42(4):123-124.

1970. 1969 Inland Canadian banding report. *Inland Bird-Banding News* 42(4):145-147.

1971. Using your head when banding. *Western Bird Bander* 46(1):12.

KACZYNSKI, CHARLES F., AND E. B. CHAMBERLAIN.  
 1968. Aerial surveys of Canada geese and black ducks in eastern Canada. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 118. 29 pp.

KACZYNSKI, CHARLES F., AND AELRED D. GEIS.  
 1961. Wood duck banding progress report, 1959 and 1960. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 29. 41 pp.

KACZYNSKI, CHARLES F., AND WILLIAM H. KIEL, JR.  
 1963. Band loss by nestling mourning doves. *J. Wildl. Manage.* 27(1):271-279.

KIEL, WILLIAM H., JR.  
 1961. The mourning dove program for the future. *Trans. North Am. Wildl. Nat. Resour. Conf.* 26:418-435.

1961. Mourning dove status report—1961. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 57. 34 pp.

KROHN, W. B.  
 1970. Woodcock feeding habits as related to summer field usage in central Maine. *J. Wildl. Manage.* 34(4):769-775.

1971. Some patterns of woodcock activities on Maine summer fields. *Wilson Bull.* 83(4):396-407.

LENSINK, CALVIN J.  
 1964. Distribution of recoveries from bandings of ducklings. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 89. 146 pp.

MACDONALD, DUNCAN, AND THOMAS R. EVANS.  
 1970. Accelerated research on migratory webless game birds. *Trans. North Am. Wildl. Nat. Resour. Conf.* 35:149-156.

MACDONALD, DUNCAN, AND ELWOOD MARTIN.

1971. Trends in harvest of migratory game birds other than waterfowl, 1964-65 to 1968-69. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 141. 36 pp.

MARTIN, FANT, W.

1961. Woodcock status report—1961. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 58. 29 pp.

1962. Woodcock status report—1962. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 69. 36 pp.

1963. Woodcock status report—1963. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 76. 43 pp.

1964. Woodcock age and sex determination from wings. *J. Wildl. Manage.* 28(2):287-293.

1964. Woodcock status report, 1964. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 88. 43 pp.

1964. Behavior and survival of Canada geese in Utah. *Dep. Information Bull.* 64-7. Utah State Dep. Fish Game. 89 pp.

MARTIN, FANT W., AELRED D. GEIS, AND WILLIAM H. STICKEL.

1965. Results of woodcock wing collections, 1959 to 1962. *J. Wildl. Manage.* 29(1):121-131.

MARTINSON, R. K.

1966. Proportion of recovered duck bands that are reported. *J. Wildl. Manage.* 30(2):264-268.

MARTINSON, R. K., A. D. GEIS, AND R. I. SMITH.

1969. Black duck harvest and population dynamics in eastern Canada and the Atlantic Flyway. Pages 21-52 in *The black duck, evaluation, management and research: a symposium*. Atlantic Waterfowl Council and Wildlife Management Institute, Washington, D.C. 193 pp.

MARTINSON, R. K., AND C. R. GRONDAHL.

1966. Weather and pheasant populations in southwestern North Dakota. *J. Wildl. Manage.* 30(1):74-81.

MARTINSON, R. K., AND A. S. HAWKINS.

1968. Lack of association among duck broodmates during migration and wintering. *Auk* 85(4):684-686.

MARTINSON, R. KAHLER, AND CHARLES J. HENNY.

1967. Retention of extrawide, lock-on, and regular bands on waterfowl. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 108. 19 pp.

MARTINSON, R. KAHLER, AND CHARLES F. KACZYNSKI.

1967. Factors influencing waterfowl counts on aerial surveys, 1961-66. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 105. 78 pp.

MARTINSON, R. K., AND J. A. McCANN.

1966. Proportion of recovered goose and brant bands that are reported. *J. Wildl. Manage.* 30(4):856-858.

MARTINSON, R. K., M. E. ROSASCO, E. M. MARTIN, M. G. SMART, S. M. CARNEY, C. F. KACZYNSKI, AND A. D. GEIS.

1966. 1965 experimental September hunting season on teal. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 95. 36 pp.

MARTINSON, R. K., AND D. E. WHITESELL.

1964. Biases in mail questionnaires of upland game

hunters. *Trans. North Am. Wildl. Nat. Resour. Conf.* 29:287-294.

MOISAN, GASTON, ROBERT I. SMITH, AND R. KAHLER MARTINSON.

1967. The green-winged teal: its distribution, migration, and population dynamics. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 100. 248 pp.

REEVES, HENRY M., A. D. GEIS, AND F. C. KNIFFIN.

1968. Mourning dove capture and banding. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 117. 63 pp.

REEVES, HENRY M., A. S. HAWKINS, AND H. DILL.

1968. A case study in Canada goose management: the Mississippi Valley population. Pages 150-165 in Ruth L. Hine and Clay Schoenfeld, eds. *Canada goose management*. Dembar Educational Research Service, Madison, Wis.

ROBBINS, CHANDLER S.

1961. The season. *Md. Birdlife* 17(1):18-18; (2):54-61; (3):82-94; (4):119-125.

1962. The season. *Md. Birdlife* 18(1):9-15; (2):40-43; (3):72-81; (4):101-108.

1963. The season. *Md. Birdlife* 19(1):16-21; (2):49-53; (3):68-77; (4):98-107.

1963. Second record of clay-colored sparrow in Maryland. *Md. Birdlife* 19(4):109.

1964. The season. *Md. Birdlife* 20(1):20-25; (2):68-72; (3):82-89; (4):102-108.

1964. A guide to the aging and sexing of wood warblers (*Parulidae*) in fall. *EBBA [Eastern Bird Banding Assoc.] News* 27(5):199-215.

1965. The season. *Md. Birdlife* 21(1):22-27; (2):50-53; (3):81-89; (4):111-117.

1965. Fifty thousand birds recorded on breeding bird survey. *Md. Birdlife* 21(3):73-79.

1966. The Christmas count. Pages 154-163 in Joseph P. Linduska, ed. *Birds in our lives*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

1966. The season. *Md. Birdlife* 22(1):5-14; (2):47-53; (3):77-85; (4):116-123.

1966. What is operation recovery? *Inland Bird-Banding News* 38(5):83-85.

1966. Birds and aircraft on Midway Island, 1959-63 investigations. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 85. 104 pp.

1967. The season. *Md. Birdlife* 23(1):11-17; (2):36-40; (3):70-79; (4):90-96.

1967. Operation recovery 1967. *Western Bird Bander* 42(3):33.

1967. Operation recovery 1967. *Inland Bird-Banding News* 39(4):92.

1968. Bird life of the upper Potomac River Valley. Pages 127-131 in Robert Shostek, ed. *Potomac trail book*. Potomac Books, Washington, D.C. 167 pp.

1968. Net hours: a common denominator for the study of bird populations by banders. *EBBA [Eastern Bird Banding Assoc.] News* 31(1):31-35.

1968. The season. *Md. Birdlife* 24(1):22-29; (2):44-47; (3):73-79; (4):102-108.

ROBBINS, CHANDLER S.

- 1969. The season. *Md. Birdlife* 25(1):21-28; (2): 61-63; (3):92-100; (4):129-136.
- 1969. Four-year summary of the breeding bird survey in Maryland. *Md. Birdlife* 25(1):29-36.
- 1969. Operation recovery in Maryland in 1969. *Md. Birdlife* 25(4):120-127.
- 1970. Winter bird survey technique tested in Maryland. *Md. Birdlife* 26(1):11-20.
- 1970. Comparison of two methods for monitoring changes in winter populations of songbirds. Pages 38-39 in *Bird census work and environmental monitoring*. Bull. 9 (Ecological Research Committee, Lund, Sweden). 52 pp.
- 1970. The season. *Md. Birdlife* 26(1):21-29; (2): 68-73; (3):99-108; (4):116-121.
- 1971. Winter bird survey of central Maryland. *Md. Birdlife* 27(1):31-38.
- 1971. The season. *Md. Birdlife* 27(1):42-50; (2): 73-78; (3):139-149; (4):186-193.
- 1972. Winter bird-population study. *Am. Birds* 26(3):664-665, 944-945.
- 1972. An appraisal of the winter bird-population study technique. *Am. Birds* 26(3):688-692.
- 1972. The season. *Md. Birdlife* 28(1):29-39; (2): 75-82; (3):105-117; (4):150-158.

ROBBINS, CHANDLER S., BERTEL BRUUN, AND HERBERT S. ZIM.

- 1966. *Birds of North America—a guide to field identification*. Golden Press, Inc., New York, N.Y. 340 pp.

ROBBINS, CHANDLER S., AND WILLET T. VAN VELZEN.

- 1967. The breeding bird survey, 1966. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 102. 43 pp.

ROBBINS, CHANDLER S., AND W. T. VAN VELZEN.

- 1968. Field list of the birds in Maryland. *Md. Ornithol. Soc., Md. Avifauna* No. 2. 44 pp.
- 1969. The breeding bird survey, 1967 and 1968. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 124. 107 pp.
- 1970. Progress report on the North American breeding bird survey. Pages 22-30 in *Bird census work and environmental monitoring*. Bull. 9 (Ecological Research Committee, Lund, Sweden). 52 pp.

RUOS, JAMES L.

- 1970. Mourning dove status report, 1969. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 132. 35 pp.
- 1971. Mourning dove status report, 1970. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 141. 36 pp.
- 1972. Mourning Dove Status Report, 1971. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 158. 40 pp.

RUOS, JAMES L., AND DUNCAN MACDONALD.

- 1969. Mourning dove status report, 1967. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 121. 23 pp.
- 1970. Mourning dove status report, 1968. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 129. 38 pp.

RUOS, JAMES L., AND R. E. TOMLINSON.

- 1968. Mourning dove status report, 1966. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 115. 49 pp.

RUSSELL, WILLIAM C.

- 1967. Birds of the season. *Atl. Nat.* 22(1):42-45; (2):128-131; (3):230, 232.

RUSSELL, WILLIAM C. AND HENRY T. ARNSTEAD.

- 1967. Maryland's first black-necked stilt and fourth ruff. *Md. Birdlife* 23(2):62-63.

SHARP, BRIAN.

- 1969. Let's save the dusky sparrow. *Fla. Nat.* 42(2): 68-70.
- 1970. Spring record of the yellow-headed blackbird in Maryland. *Md. Birdlife* 26(3):95.
- 1971. Transcontinental mourning dove recovery. *Auk* 88(4):924.
- 1971. When in doubt, check it out. *EBBA [Eastern Bird-Banding Assoc.] News* 34(6):298.

SMART, M. GLEN.

- 1965. An open letter to all bird fanciers. *Modern Game Breed.* 1(3):50-51.
- 1965. Importing waterfowl eggs. *Modern Game Breed.* 1(4):41-44.
- 1965. Annual duck wing collection survey. *Modern Game Breed.* 1(10):28-29; 58-59.
- 1965. Body weights of newly hatched *Anatidae*. *Auk* 82(4):645-648.
- 1965. Development and maturation of primary feathers of redhead ducklings. *J. Wildl. Manage.* 29(3): 533-536.

SMITH, ROBERT I., AND AELRED D. GEIS.

- 1961. Prehunting season banding of mallards and black ducks: progress report, 1959 and 1960. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 60. 29 pp.

SORENSEN, MICHAEL F., J. P. ROGERS, AND T. S. BASKETT.

- 1968. Reproduction and development in confined swamp rabbits. *J. Wildl. Manage.* 32(3):520-531.

SWANSON, G. A., AND W. F. CRISSEY.

- 1964. An outline of wildfowl hunting regulations in U.S.A. Pages 137-138 in J. J. Swift, ed. *Proceedings First European meeting on wildfowl conservation*, St. Andrews, Scotland, 1963.

TOMLINSON, ROY E.

- 1963. A method for drive-trapping dusky grouse. *J. Wildl. Manage.* 27(4):563-566.
- 1965. Mourning dove status report, 1965. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 91. 37 pp.

VAN VELZEN, WILLET T.

- 1966. Maryland nest summary for 1965 and 10-year recapitulation. *Md. Birdlife* 22(3):71-76.
- 1966. Maryland's part in the 1966 Breeding Bird Survey. *Md. Birdlife* 22(3):88-92.
- 1966. Operation recovery in Maryland. *Md. Birdlife* 22(4):100-102.
- 1966. Maryland birdlife index, vol. 14-20, 1958-1964. *Md. Ornithol. Soc.* 28 pp.
- 1966. The changing seasons—and changing times. *Audubon Field Notes* 20(5):552-554, 600.
- 1966. Royal tern recovery from tiger shark. *EBBA [Eastern Bird Banding Assoc.] News* 29(5):210.
- 1966. Das amerikanische Bird-Banding-Programm. *Die Vogelwarte* 23(3):161-163.
- 1967. Maryland nest summary for 1966. *Md. Birdlife* 23(1):7-10.
- 1967. Report of state-wide bird court, May 6, 1967. *Md. Birdlife* 23(2):27-35.

'AN VELZEN, WILLET T.

1967. First observed brown creeper nest in Maryland. *Md. Birdlife* 23(3):68-69.

1967. The breeding bird survey in Georgia, 1966. *Oriole* 32(1):4-5.

1967. 67th Christmas bird count, Triadelphia Reservoir, Maryland. *Audubon Field Notes* 21(2):168-169.

1967. The 1966 breeding bird survey in New York. *Kingbird* 17(2):74.

1967. Black-billed cuckoo records in California. *Condor* 69(3):318.

1967. Coastal California record of a tree sparrow. *Condor* 69(4):431.

1967. Maryland's third record of clay-colored sparrow. *Md. Birdlife* 23(4):100.

1968. Nest records of the brown thrasher in Maryland. *Md. Birdlife* 24(1):3-9.

1968. Report of state-wide bird count, May 4, 1968. *Md. Birdlife* 24(2):35-43.

1968. Slate-colored junco recovery from Michigan. *Md. Birdlife* 24(3):82.

1968. Migration of a downy woodpecker. *Md. Birdlife* 24(4):115.

1968. Black-throated sparrow in Kiowa County, Oklahoma. *Bull. Okla. Ornithol. Soc.* 1(3):26.

1969. 69th Christmas bird count, Crisfield, Maryland. *Audubon Field Notes* 23(3):208-209.

1970. The breeding bird survey in Georgia, 1967-1969. *The Oriole* 34(4):71-76.

1970. The status and dispersal of Virginia royal terns. *Raven* 39(4):55-60.

1970. Birds of Eastern Neck National Wildlife Refuge. U.S. Dep. Inter. Refuge Leafl. 254. [unpaged]

1970. The breeding bird survey in Virginia, 1966-1968. *Raven* 40(1):3-9.

1971. Recoveries of royal terns banded in the Carolinas. *Chat* 35(3):64-66.

1972. Distribution and abundance of the brown-headed cowbird. *Jack-Pine Warbler* 50(4):110-113.

VAN VELZEN, WILLET T., AND RICHARD D. BENEDICT.

1972. Recoveries of royal terns banded in Virginia. Part I. The Caribbean. *Raven* 43(3):39-41.

VAN VELZEN, WILLET T., AND GLADYS HIX COLE.

1967. Maryland's first Baird's sparrow. *Md. Birdlife* 23(4):87.

VAN VELZEN, WILLET T., AND ALDEEN C. VAN VELZEN.

1969. Maryland birdlife index, volumes 21-25, 1965-1969. Part I, species index; part 2, author index. *Md. Birdlife* 25(4):149-168.

VIEIRA, MANUEL.

1965. Computerized bird conservation. *Input* 2(1):21-23.

WIGHT, HOWARD M.

1962. Mourning dove status report—1962. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 70. 33 pp.

1964. Matedness in the mourning dove and its effect on the nationwide dove-call census. *Trans. North Am. Wildl. Nat. Resour. Conf.* 29:270-281.

WIGHT, HOWARD M., AND EARL B. BAYSINGER.

1963. Mourning dove status report—1963. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 73. 34 pp.

WIGHT, HOWARD M., EARL B. BAYSINGER, AND ROY E. TOMLINSON.

1964. Mourning dove status report, 1964. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 87. 38 pp.

WIGHT, H. M., L. H. BLANKENSHIP, AND R. E. TOMLINSON.

1967. Aging mourning doves by outer primary wear. *J. Wildl. Manage.* 31(4):832-835.

WIGHT, HOWARD M., ROBERT G. HEATH, AND AELRED D. GEIS.

1965. A method for estimating fall adult sex ratios from production and survival data. *J. Wildl. Manage.* 29(1):185-192.

**NORTHERN PRAIRIE WILDLIFE RESEARCH CENTER**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Jamestown, North Dakota 58401**

The Northern Prairie Wildlife Research Center, completed in 1965, is the newest of the five research installations of the Division of Wildlife Research. Field stations are located at Woodworth, North Dakota (40 miles northwest of Jamestown); Aberdeen, South Dakota; Brigham City, Utah; Fairbanks, Alaska; and Arcata, California.

The mission of the Center is to gather facts and provide sound information necessary for proper management of designated wildlife species and their habitats in central and western United States and Alaska, with emphasis on the prairie region of the Midwest. The species of primary concern are: (1) migratory birds, especially waterfowl, (2) indigenous wildlife on Federal lands, and (3) certain rare and endangered wildlife.

The specific goals of the Center are to: (1) determine the biology of individual wildlife species or groups of species including their life history, behavior, and physiology, (2) determine the relationships of environmental factors to wildlife species and populations, (3) determine the relationships between human socio-economic factors and wildlife or their habitats, (4) test and evaluate management techniques to help provide practices and guidelines for use of management agencies, (5) develop the specialized equipment and methodology necessary to conduct research investigations, and (6) disseminate research findings by all appropriate means.

The Center at Jamestown comprises about 600 acres of land and 26,000 square feet of space in offices, laboratories, service buildings, propagation facilities, and residences. At Woodworth there are 2,456 acres of land and buildings that provide 7,000 square feet of space.

**ADOMAITIS, VYTO A.**  
1970. Mercury and the environment. *N.D. Outdoors* 33(6):5-7.

**ADOMAITIS, V. A., H. A. KANTRUD, AND J. A. SHOESMITH.**  
1969. Some chemical characteristics of aeolian deposits of snow-soil on prairie wetlands. *Proc. N.D. Acad. Sci.* (1967) 21:65-69.

**ADOMAITIS, V. A., H. K. NELSON, AND F. B. LEE.**  
1967. The chemical and related technical literature of wildlife conservation. *J. Chem. Doc.* 7(4):247-250.

**ADOMAITIS, V. A., AND J. A. SHOESMITH.**  
1969. Rapid method for filtration of marsh waters. *Prairie Nat.* 1(2):31.

**BALSER, DONALD S., HERBERT H. DILL, AND HARVEY K. NELSON.**  
1968. Effect of predator reduction on waterfowl nesting success. *J. Wildl. Manage.* 32(4):669-682.

**BARTONEK, JAMES C.**  
1969. Build-up of grit in three pochard species in Manitoba. *Wilson Bull.* 81(1):96-97.  
1972. Summer foods of American widgeon, mallards, and a green-winged teal near Great Slave Lake, N.W.T. *Can. Field-Nat.* 86(4):373-376.

**BARTONEK, JAMES C., AND DANIEL D. GIBSON.**  
1972. Summer distribution of pelagic birds in Bristol Bay, Alaska. *Condor* 74(4):416-422.

**BARTONEK, JAMES C., AND JOSEPH J. HICKEY.**  
1969. Food habits of canvasbacks, redheads, and lesser scaup in Manitoba. *Condor* 71(3):280-290.  
1969. Selective feeding by juvenile diving ducks in summer. *Auk* 86(3):443-457.

**BARTONEK, JAMES C., JAMES G. KING, AND HARVEY K. NELSON.**  
1971. Problems confronting migratory birds in Alaska. *Trans. North Am. Wildl. Nat. Resour. Conf.* 36:345-360.

**BARTONEK, JAMES C., AND H. W. MURDY.**  
1970. Summer foods of lesser scaup in subarctic taiga. *Arctic* 23(1):35-44.

**BURGER, GEORGE V., RAYMOND J. GREENWOOD, AND RICHARD C. OLDENBURG.**  
1970. Alulu removal technique for identifying wings of released waterfowl. *J. Wildl. Manage.* 34(1):137-140.

**CAPELLE, K. J.**  
1970. Studies on the life history and development of *Cuterebra polita* (Diptera: Cuteretidae) in four

CAPELLE, K. J.  
species of rodents. *J. Med. Entomol.* 7(3):320-327.

1971. *Myiasis*. Pages 279-305 in John W. Davis and Roy C. Anderson, eds. *Parasitic diseases of wild mammals*. Iowa State University Press, Ames.

CLINE, DAVID R., AND RAYMOND J. GREENWOOD.  
1972. Effect of certain anesthetic agents on mallard ducks. *J. Am. Vet. Med. Assoc.* 161(6):624-633.

COWARDIN, LEWIS M.  
1969. Use of flooded timber by waterfowl at the Montezuma National Wildlife Refuge. *J. Wildl. Manage.* 33(4):829-842.

COWARDIN, LEWIS M., AND JAMES C. BARTONEK.  
1968. Trumpeter swan in Kidder County, North Dakota. *Prairie Nat.* 1(1):15.

COWARDIN, LEWIS M., GERALD E. CUMMINGS, AND PORTER B. REED, JR.  
1967. Stump and tree nesting by mallards and black ducks. *J. Wildl. Manage.* 31(2):229-235.

COWARDIN, LEWIS M., AND KENNETH F. HIGGINS.  
1967. Visibility, movement, and behavior of waterfowl on a river habitat in Minnesota. *Trans. North Am. Wildl. Nat. Resour. Conf.* 32:301-315.

DANE, CHARLES W.  
1966. Some aspects of breeding biology of the blue-winged teal. *Auk* 83(3):389-402.  
1968. Age determination of blue-winged teal. *J. Wildl. Manage.* 32(2):267-274.

DANE, CHARLES W., AND HAROLD F. DUEBBERT.  
1968. Specimen records of greater scaup. *Prairie Nat.* 1(1):16.

DANE, CHARLES W., AND GARY L. PEARSON.  
1971. Effect of spring storm on waterfowl mortality and breeding activity. Pages 258-267 in Arnold O. Haugen, ed. *Proceedings of the Snow and Ice in Relation to Wildlife and Recreation Symposium*. Iowa Cooperative Wildlife Research Unit, and Iowa State University, Ames.

DILL, HERBERT H., AND FORREST B. LEE, editors.  
1970. *Home grown honkers*. U. S. Department of the Interior, Bureau of Sport Fisheries and Wildlife [Twin Cities, Minn.]. 154 pp.

DILL, HERBERT H., AND HARVEY K. NELSON.  
1970. At the sign of the goose. Pages 62-75 in Herbert H. Dill and Forrest B. Lee, eds. *Home grown honkers*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife [Twin Cities, Minn.].

DOTY, HAROLD A.  
1968. Nesting baskets for ducks. *Outdoor America* 33(10):4.  
1972. Hatchability tests with eggs from captive wood ducks. *Poult. Sci.* 51(3):849-853.

DOTY, HAROLD A., AND ARNOLD D. KRUSE.  
1972. Techniques for establishing local breeding populations of wood ducks. *J. Wildl. Manage.* 36(2):428-435.

DREWIEN, RODERICK C., AND PAUL F. SPRINGER.  
1969. Ecological relationships of breeding blue-winged teal to prairie potholes. Pages 102-115 in *Trans. Saskatoon Wetlands Seminar. Canadian Wildl. Serv., Rep. Ser. No. 6*.

DUEBBERT, HAROLD F.  
1967. Swimming by a badger. *J. Mammal.* 48(2):323.  
1968. Breeding birds in the Roscoe, South Dakota, area in 1967. *S. D. Bird Notes* 20(2):28-29.  
1968. Two female mallards incubating on one nest. *Wilson Bull.* 80(1):102.  
1968. White-faced ibis in McIntosh County, North Dakota. *Prairie Nat.* 1(1):14.  
1969. Additional breeding birds in Roscoe area. *S.D. Bird Notes* 21(2):36.  
1969. High nest density and hatching success of ducks on South Dakota CAP land. *Trans. North Am. Wildl. Nat. Resour. Conf.* 34:218-228.

DWYER, THOMAS J.  
1970. Waterfowl breeding habitat in agricultural and non-agricultural land in Manitoba. *J. Wildl. Manage.* 34(1):130-136.

1972. An adjustable radio-package for ducks. *Bird-Banding* 43(4):282-284.

DZUBIN, ALEX, HARVEY W. MILLER, AND GEORGE V. SCHILDMAN.  
1964. White-fronts. Pages 135-143 in Joseph P. Linduska, ed. *Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

GREENWOOD, RAYMOND J.  
1969. Mallard hatching from an egg cracked by freezing. *Auk* 86(4):752-754.

GREENWOOD, RAYMOND J., YVONNE A. GREICHUS, AND ERNEST J. HUGGHINS.  
1967. Insecticide residues in big game mammals of South Dakota. *J. Wildl. Manage.* 31(2):288-292.

HANSEN, HENRY A., AND HARVEY K. NELSON.  
1964. Honkers large and small. Pages 109-124 in Joseph P. Linduska, ed. *Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

HANSEN, KARL L.  
1971. It's been a long time. *N.D. Outdoors* 34(1):1-3.

HENDERSON, F. ROBERT, PAUL F. SPRINGER, AND RICHARD ADRIAN.  
[1969.] The black-footed ferret in South Dakota. South Dakota Department of Game, Fish and Parks, Pierre. [37] pp.

HIGGINS, KENNETH F.  
1969. Bursal depths of lesser snow and small Canada geese. *J. Wildl. Manage.* 33(4):1006-1008.  
1971. Cowbird parasitism of an upland plover nest. *Prairie Nat.* 3(3-4):79.

HIGGINS, K. F., H. F. DUEBBERT, AND R. B. OETTING.  
1969. Nesting of the upland plover on the Missouri Coteau. *Prairie Nat.* 1(3):45-48.

HIGGINS, KENNETH F., LEO M. KIRSCH, AND I. JOSEPH BALL, JR.  
1969. A cable-chain device for locating duck nests. *J. Wildl. Manage.* 33(4):1009-1011.

HIGGINS, KENNETH F., RAYMOND L. LINDER, AND PAUL F. SPRINGER.  
 1969. A comparison of methods used to obtain age ratios of snow and Canada geese. *J. Wildl. Manage.* 33(4):949-956.

HIGGINS, KENNETH F., AND LYLE J. SCHOONOVER.  
 1969. Aging small Canada geese by neck plumage. *J. Wildl. Manage.* 33(1):212-214.

HUDSON, PATRICK L., AND GEORGE A. SWANSON.  
 1972. Production and standing crop of *Hexagenia* (Ephemeroptera) in a large reservoir. *Stud. Nat. Sci. (Portales, N.M.)* 1(4):1-42.

JOHNSON, DOUGLAS H., AND PAUL F. SPRINGER.  
 1972. Breeding bird populations of selected grasslands in east-central North Dakota. *Am. Birds* 26(6):970-975.

KANTRUD, HAROLD.  
 1971. Duck mortality caused by wind. *Prairie Nat.* 3(1):32.

1971. Natural mortality among cliff swallows. *Blue Jay* 29(3):162.

1971. Surf scoter in North Dakota. *Prairie Nat.* 3(3-4):113-114.

KIRSCH, LEO M.  
 1969. Waterfowl production in relation to grazing. *J. Wildl. Manage.* 33(4):821-828.

KIRSCH, LEO M., AND ARNOLD D. KRUSE.  
 1972. Prairie fires and wildlife. *Proc. Tall Timbers Fire Ecol. Conf.* 12:289-303.

KLETT, A. T., AND JOHN T. LOKEMOEN.  
 1968. Cinnamon teal observations in North Dakota. *Prairie Nat.* 1(1):15.

KRAPU, GARY L., AND DAVID L. TRAUGER.  
 1972. A recent record of the meadow jumping mouse, *Zapus hudsonius*, in subarctic Canada. *Am. Mid. Nat.* 88(2):467.

LEE, FORREST B., ARNOLD D. KRUSE, AND WILLIAM H. THORNSBERRY.  
 1968. New fashions for the duck marsh. *Naturalist (Minneapolis, Minn.)* 19(1):27-32.

LEE, F. B., AND H. K. NELSON.  
 1966. The role of artificial propagation in wood duck management. Pages 140-150 in *Wood duck management and research: a symposium*. Wildlife Management Institute, Washington, D.C.

LEE, FORREST B., GLEN A. SHERWOOD, AND LYLE J. SCHOONOVER.  
 1970. The free-flying flock. Pages 52-56 in *Herbert H. Dill and Forrest B. Lee, eds. Home grown honkers. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife [Twin Cities, Minn.]*.

LOKEMOEN, JOHN T.  
 1966. Breeding ecology of the redhead duck in western Montana. *J. Wildl. Manage.* 30(4):668-681.

1967. Flight speed of the wood duck. *Wilson Bull.* 79(2):238-239.

1970. New wetlands on the plains. *N.D. Outdoors* 32(12):12-14.

1971. Use of stock ponds by breeding waterfowl and other water birds in Stanley County, South Dakota. *S. D. Bird Notes* 28(2):34-36.

LOKEMOEN, JOHN T., AND PAUL F. SPRINGER.  
 1971. Birds observed in North Dakota during the winter of 1970-71. *Prairie Nat.* 3(2):51-54.

MENDALL, HOWARD L., AND HARVEY I. NELSON.  
 1964. Adventuresome waterfowl. Pages 305-311 in *Joseph P. Linduska, ed. Waterfowl tomorrow. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.*

MIKULA, EDWARD J., RICHARD A. HUNT, FORREST B. LEE, LYLE J. SCHOONOVER, AND ROD C. DREWEN.  
 1970. From the Great Plains to the Great Lakes. Pages 76-88 in *Herbert H. Dill and Forrest B. Lee, eds. Home grown honkers. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife [Twin Cities, Minn.]*.

MILLER, HARVEY W.  
 1972. Review of changing wildlife habitat and requirements for maintaining key species. *N.D. Outdoors* 35(5):2-9.

MILLER, HARVEY, AND ALEX DZUBIN.  
 1965. Regrouping of family members of the white-fronted goose (*Anser albifrons*) after individual release. *Bird-Banding* 36(3):184-191.

MILLER, HARVEY W., ALEX DZUBIN, AND JOHN T. SWEET.  
 1968. Distribution and mortality of Saskatchewan-banded white-fronted geese. *Trans. North Am. Wildl. Nat. Resour. Conf.* 33:101-118.

MURDY, H. W.  
 1966. When the prairies go dry. *Naturalist (Minneapolis, Minn.)* 17(1):8-13.

MURDY, H. W., D. L. TRAUGER, AND H. K. NELSON.  
 1970. Waterfowl research on the Yellowknife study area, 1961-70. *Proc. Fed.-Prov. Wildl. Conf.* 34: 26-29.

NELSON, HARVEY K.  
 1963. Restoration of breeding Canada goose flocks in the North Central States. *Trans. North Am. Wildl. Nat. Resour. Conf.* 28:133-150.

1966. Progress in development of new wildlife research center. *N. D. Outdoors* 28(7):12-16.

1966. Review of *The giant Canada goose* by Harold C. Hanson. *Atl. Nat.* 21(1):53-55.

1966. Review of *The giant Canada goose* by Harold C. Hanson. *J. Wildl. Manage.* 30(3):636-637.

1968. Review of *Waterfowl—their biology and natural history* by Paul A. Johnsgard. *Atl. Nat.* 23(4):230-232.

1972. Memorial dedicated to Harry Jensen. *N.D. Outdoors* 35(6):18-19.

NELSON, HARVEY K., A. T. KLETT, AND W. G. BURGE.  
 1970. Monitoring migratory bird habitat by remote sensing methods. *Trans. North Am. Wildl. Nat. Resour. Conf.* 35:73-84.

NELSON, HARVEY K., A. T. KLETT, AND JOHN E. JOHNSTON.  
 1971. Application of remote sensing techniques for appraising changes in wildlife habitat. Pages 263-288 in *Proceedings of an International Workshop on Earth Resources Survey Systems, vol. II. National Aeronautics and Space Administration, Washington, D.C. [NASA SP-283]*

NELSON, HARVEY K., AND FORREST B. LEE.  
 1966. A new center for waterfowl research. *Naturalist* (Minneapolis, Minn.) 17(1):29-32.

OETTING, ROBERT B., AND J. FRANK CASSEL.  
 1971. Waterfowl nesting on interstate highway right-of-way in North Dakota. *J. Wildl. Manage.* 35(4): 774-781.

PEARSON, GARY L.  
 1969. Aspergillosis in wintering mallards. *Bull. Wildl. Dis. Assoc.* 5(4):404-405.  
 1970. The population paradox. *Prairie Nat.* 2(1): 15-22.

SARGEANT, ALAN B.  
 1970. The red fox. Pages 104-109 in Victor H. Cahalane, ed. *Alive in the wild*. Prentice-Hall, Englewood Cliffs, N. J.  
 1972. Red fox spatial characteristics in relation to waterfowl predation. *J. Wildl. Manage.* 36(2): 225-236.

SARGEANT, ALAN B., AND DWAIN W. WARNER.  
 1972. Movements and denning habits of a badger. *J. Mammal.* 53(1):207-210.

SCHOONOVER, LYLE J., FORREST B. LEE, AND CARL E. STRUTZ.  
 1970. Production. Pages 29-43 in Herbert H. Dill and Forrest B. Lee, eds. *Home grown honkers*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife [Twin Cities, Minn.].

SHERWOOD, GLEN A.  
 1966. Flexible plastic collars compared to nasal discs for marking geese. *J. Wildl. Manage.* 30(4): 853-855.  
 1967. Behavior of family groups of Canada geese. *Trans. North Am. Wildl. Nat. Resour. Conf.* 32: 340-355.  
 1968. Factors limiting production and expansion of local populations of Canada geese. Pages 73-85 in Ruth L. Hine and Clay Schoenfeld, eds. *Canada goose management*. Dembar Educational Research Services, Madison, Wis.  
 1969. Do you really know your geese? *N.D. Outdoors* 32(4):8-13.  
 1969. The vital missing link—environmental education. *N. D. Q.* 37(1):65-70.  
 1970. Characteristics of North Dakota goose hunters. *N.D. Outdoors* 33(3):8-11.  
 1970. Environmental education or environmental destruction. *N.D. J. Educ.* 49(4):20-22.  
 1970. The environmental crisis—a call to action. *Prairie Nat.* 2(1):23-27.

SHOESMITH, J. A., V. A. ADOMAITIS, AND G. A. SWANSON.  
 1969. Aspects of the determination of the pH of marsh waters. *Proc. N.D. Acad. Sci.* (1968) 22: 135-138.

SPARROWE, ROLLIN D., AND PAUL F. SPRINGER.  
 1970. Seasonal activity patterns of white-tailed deer in eastern South Dakota. *J. Wildl. Manage.* 34(2): 420-431.

SPRINGER, PAUL F.  
 1970. The black-footed ferret. Pages 86-91 in Victor H. Cahalane, ed. *Alive in the wild*. Prentice-Hall, Englewood Cliffs, N. J.

SPRINGER, PAUL F., DOUGLAS H. JOHNSON, AND JOHN T. LOKEMOEN.  
 1972. Spring migration of birds in North Dakota in 1971. *Prairie Nat.* 4(1):23-32.

STEWART, ROBERT E.  
 1966. Notes on birds and other animals in the Slave River-Little Buffalo River Area, N.W.T. *Blue Jay* 24(1):22-32.  
 1970. New records of vascular plants in North Dakota. *Prairie Nat.* 2(2):35-48.  
 1971. Check list of birds in North Dakota. *Prairie Nat.* 3(1):3-12.  
 1972. Waterfowl of the Chesapeake Bay. *Chesapeake Sci.* 13(Suppl.):S134-S137.

STEWART, ROBERT E., AND HAROLD A. KANTRUD.  
 1968. Nesting of the common snipe in North Dakota. *Prairie Nat.* 1(1):3-5.  
 1969. Proposed classification of potholes in the glaciated prairie region. Pages 57-69 in *Trans. Saskatoon Wetlands Seminar*. Can. Wildl. Serv., Rep. Ser. No. 6.  
 1971. Classification of natural ponds and lakes in the glaciated prairie region. *U.S. Bur. Sport Fish. Wildl., Resour. Publ.* 92. 57 pp.  
 1972. Population estimates of breeding birds in North Dakota. *Auk* 89(4):766-788.  
 1972. Vegetation of prairie potholes, North Dakota, in relation to quality of water and other environmental factors. *U.S. Geol. Surv., Prof. Pap.* 585-D. 36 pp.

STOUDT, JEROME H.  
 1969. Relationships between waterfowl and water areas on the Redvers Waterfowl Study Area. Pages 123-131 in *Trans. Saskatoon Wetlands Seminar*. Can. Wildl. Serv., Rep. Ser. No. 6.  
 1971. Ecological factors affecting waterfowl production in the Saskatchewan parklands. *U.S. Bur. Sport Fish. Wildl., Resour. Publ.* 99. 58 pp.

SWANSON, GEORGE A.  
 1967. Factors influencing the distribution and abundance of *Hexagenia* nymphs (Ephemeroptera) in a Missouri River reservoir. *Ecology* 48 (2):216-225.

SWANSON, GEORGE A., AND JAMES C. BARTONEK.  
 1970. Bias associated with food analysis in gizzards of blue-winged teal. *J. Wildl. Manage.* 34(4):739-746.

SWANSON, G. A., G. L. KRAPU, AND H. K. NELSON.  
 1972. Mercury levels in tissue of ducks collected in south-central North Dakota. *Proc. N.D. Acad. Sci.* 25(2):84-93.

SWANSON, GEORGE A., AND HARVEY K. NELSON.  
 1970. Potential influence of fish rearing programs on waterfowl breeding habitat. Pages 65-71 in Edward Schneberger, ed. *A symposium on the management of midwestern winterkill lakes*. American Fisheries Society, North Central Division.

SWANSON, GEORGE A., AND ALAN B. SARGEANT.  
1972. Observation of nighttime feeding behavior of ducks. *J. Wildl. Manage.* 36(3):959-961.

SWANSON, GEORGE A., AND WILLIAM H. THORNSBERRY.  
1972. Avian food habits analysis using modified counter. *J. Wildl. Manage.* 36(3):949-950.

TARZWELL, CLARENCE M., VYTAUTAS ADOMAITIS, AND OTHERS.  
1968. Fish, other aquatic life, and wildlife. Pages 27-110 in *Water quality criteria*. Federal Water Pollution Control Administration, Washington, D. C.

[1968]. Fish, other aquatic life, and wildlife. Pages 19-48 in *Research needs*. National Technical Advisory Committee on Water Quality Criteria, Federal Water Pollution Control Administration, Washington, D. C.

THOMPSON, JIM.  
1966. Our wildlife in your life. *N.D. Outdoors* 28 (11):18-21.

THORNSBERRY, WILLIAM H.  
1969. A compound leverage banding pliers. *Bird-Banding* 40(2):130-132.

THORNSBERRY, WILLIAM H., AND LEWIS M. COWARDIN.  
1971. A floating bail trap for capturing individual ducks in spring. *J. Wildl. Manage.* 35(4):837-839.

VAUGHT, RICHARD W., AND LEO M. KIRSCH.  
1966. Canada geese of the eastern prairie population, with special reference to the Swan Lake flock. *Mo. Conserv. Dep., Tech. Bull.* 3. 91 pp.

WELLER, MILTON W., DAVID L. TRAUGER, AND GARY L. KRAPU.  
1969. Breeding birds of the West Mirage Islands, Great Slave Lake, N.W.T. *Can. Field-Nat.* 83(4): 344-360.

**PATUXENT WILDLIFE RESEARCH CENTER**  
**U.S. Department of the Interior**  
**Bureau of Sport Fisheries and Wildlife**  
**Laurel, Maryland 20810**

The function of the Patuxent Wildlife Research Center is to apply scientific methodology to practical wildlife problems. Zoologists, wildlife biologists, physiologists, chemists, veterinarians, and biometricalists pool their abilities to attack problems with techniques that range from mass spectroscopy and enzyme physiology to making statistically valid surveys of crop damage in the field. Patuxent's reputation has been made by quantitative methods, controlled experiments, and scientific rigor.

Patuxent was established in the 1930's on land acquired by the Resettlement Administration as part of the fight against the Great Depression. By 1973, there were six major laboratories and some 3,400 acres of land. Much of the land, including the rich forest of the Patuxent River floodplain, was kept natural. Other parts were used for the creation of 23 waterfowl impoundments, which provided marsh habitats that were otherwise lacking.

The studies of waterfowl habitat were relinquished to the Migratory Bird and Habitat Research Laboratory in 1973. One of the earliest activities, wildlife disease work, now stresses waterfowl diseases, particularly those of protozoan origin, and pathology problems related to pollution studies. The Section of Wildlife Food Habits, once a large and diversified group, was discontinued during World War II. From its records has come much of our knowledge of the foods and economic status of American animals. Early research on game bird nutrition facilitated experimental studies of pesticides and other pollutants of breeding birds. As a part of pesticide and pollution studies, an excellent chemical laboratory with much specialized equipment was developed for determining persistent pollutants in animal tissues. The control of crop damage and other troubles caused by birds is studied in the Section of Animal Depredations Control Studies, which has field stations in Florida, Ohio, Pennsylvania, and Delaware.

The newest function at Patuxent is research for the preservation of rare and endangered species. Ecologists are stationed at seven localities from Puerto Rico to Hawaii to see what can be done for rare animals in the wild. At Patuxent, the breeding biology of whooping cranes, snail kites, condors, and other animals is studied in an effort to breed rare species for replenishment of wild populations.

**ALLEN, DURWARD L.**

- 1947. Hunting as a limitation to Michigan pheasant populations. *J. Wildl. Manage.* 11(3):232-243.
- 1947. Hopping dollars. *Sci. Dig.* 22(8):8-11.
- 1948. Does ain't deer. *Sports Afield* 120(6):19-21, 90-91.
- 1948. Barbed wire that grows. *Sci. Dig.* 23(6):25-28.
- 1948. Hunter management with multiflora rose. *J. Wildl. Manage.* 12(3):325-326.
- 1948. Living fences—for more game and better farms. *Sports Afield* 120(3):46-47, 118-121.
- 1948. Wildlife management in land-use programs. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 309. 6 pp.

- 1949. The purposes of mammal population studies. *J. Mammal.* 30(1):18-21.
- 1949. Bars for thirsty quail. *Sci. Dig.* 26(3):65-68.
- 1949. Where do we stand on artificial stocking? *Va. Wildl.* 10(4):16-18.
- 1949. Operation drainpipe. *Field and Stream* 54(2): 60, 126-128.
- 1949. The farmer and wildlife. *Wildlife Management Institute*, Washington, D.C. 84 pp.
- 1949. Recent trends in farm wildlife management. *Trans. North Am. Wildl. Conf.* 14:253-260.
- 1949. Review of *Wildlife management, upland game and general principles*, by Reuben Edwin Trippensee. *J. Mammal.* 30(3):321-322.

ALLEN, DURWARD L.

- 1950. The fabulous whistlepig. *Sports Afield* 123(6): 28, 78-80.
- 1950. Island pheasant festival. *Outdoor Life* 105(6): 34-35, 82-84.
- 1950. Problems and needs in pheasant research. *J. Wildl. Manage.* 14(2):105-114.
- 1950. What counts in a more-game program? *Wis. Conserv. Bull.* 15(6):3-13.
- 1950. Sportsmen: Are you being short changed? *Outdoor Life* 106(6):26-27, 64-65.
- 1951. Good money after bad. *Field and Stream* 56 (4):16-17, 99-101.
- 1951. The stone age lingers on. *Field and Stream* 55(9):49-52, 79.
- 1951. Upland game in 1951—and a look at things to come. *Field and Stream* 56(5):36-38, 121-123.
- 1951. The woods is full of 'em! *Field and Stream* 56(7):32, 33, 106-107.
- 1952. Wildlife and the business of farming. *J. Soil Water Conserv.* 7(5):223-227.
- 1953. Wildlife habitat in relation to the use of herbicide sprays on farms, ranches, and roadsides. *Ann. Conv. Rep. Int. Assoc. Game, Fish Conserv. Comm.* 43:90-94.

ANDERSON, DANIEL W., AND J. F. KREITZER.

- 1971. Thickness of 1967-69 whooping crane egg-shells compared to that of pre-1910 specimens. *Auk* 88(2):433-434.

ANDREWS, RALPH, AND JERRY R. LONGCORE.

- 1969. The killing efficiency of soft iron shot. *Trans. North Am. Wildl. Nat. Resour. Conf.* 34:337-345.

ARMSTRONG, WILLIAM H.

- 1940. Traumatic autotransplantation of splenic tissue with a report on three cases in the dog. *Cornell Vet.* 30(1):89-96.
- 1941. Some autopsy findings in fur animals: summary of post-mortem examinations at Patuxent Research Refuge, Bowie, Maryland. *Am. Fur Breeder* 13(7):28-30. (Also published in: *Natl. Fur News* 13(1):6, and *Black Fox Mag.* 24(11): 8, 20, 21.)
- 1942. Occurrence of *Salmonella typhimurium* infection in muskrats. *Cornell Vet.* 32(1):87-89.

ARMSTRONG, WILLIAM H., AND C. H. ANTHONY.

- 1942. An epizootic of canine distemper in a zoological park. *Cornell Vet.* 32(3):286-288.

ATWOOD, EARL L.

- 1956. Validity of mail survey data on bagged waterfowl. *J. Wildl. Manage.* 20(1):1-16.
- 1958. A procedure for removing the effect of response bias errors from waterfowl hunter questionnaire responses. *Biometrics* 14(1):132-133.
- 1960. Hunter kill of migratory waterfowl in the Pacific Flyway during the 1958-59 hunting season. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 45 (Suppl.). 5 pp.

ATWOOD, EARL L., AND AELRED D. GEIS.

- 1960. Problems associated with practices that increase the reported recoveries of waterfowl bands. *J. Wildl. Manage.* 24(3):272-279.

ATWOOD, EARL L., AND CLINTON F. WELLS, JR.

- 1960. Waterfowl harvest in the United States during the 1959-60 hunting season. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 52. 25 pp.

BAGLEY, GEORGE E., AND LOUIS N. LOCKE.

- 1967. The occurrence of lead in tissues of wild birds. *Bull. Environ. Contam. Toxicol.* 2(5):297-305.

BAGLEY, GEORGE E., LOUIS N. LOCKE, AND GORDON T. NIGHTINGALE.

- 1967. Lead poisoning in Canada geese in Delaware. *Avian Dis.* 11(4):601-608.

BAGLEY, G. E., W. L. REICHEL, AND E. CROMARTIE.

- 1970. Identification of polychlorinated biphenyls in two bald eagles by combine gas chromatography-mass spectrometry. *J. Assoc. Off. Agric. Chem.* 53(2):251-261.

BAIRD, JAMES, AARON M. BAGG, IAN C. T. NISBET, AND CHANDLER S. ROBBINS.

- 1959. "Operation recovery"—report on mist-netting along the Atlantic coast in 1958. *Bird-Banding* 30(3):143-171.

BAIRD, JAMES, CHANDLER S. ROBBINS, AARON M. BAGG, AND JOHN V. DENNIS.

- 1958. "Operation recovery"—the Atlantic coastal netting project. *Bird-Banding* 29(3):137-168.

BAKER, ROLLIN H., COLEMAN C. NEWMAN, AND FORD WILKE.

- 1945. Food habits of the raccoon in eastern Texas. *J. Wildl. Manage.* 9(1):45-58. -

BANKO, WINSTON E.

- 1966. How to attract birds. Pages 144-153 in Alfred Stefferud, ed. *Birds in our lives*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.
- 1967. Endangered wildlife in Hawaii. *Elepaio* 27 (11):98-100.
- 1968. Hawaii's endangered birds—a status appraisal. *Elepaio* 28(7):58-64.
- 1968. Rediscovery of Maui nukupuu, *Hemignathus lucidus affinis*, and sighting of Maui parrotbill, *Pseudonestor zanthophrys*, Kipahulu Valley, Maui, Hawaii. *Condor* 70(3):265-266.
- 1971. Preservation of Maui's endangered forest birds. *Condor* 73(1):120-121.

BASSETT, CHARLES F., AND L. M. LLEWELLYN.

- 1949. The molting and fur growth pattern in the adult mink. *Am. Midl. Nat.* 42(3):751-756.

BAUMGARTNER, LUTHER L., AND A. C. MARTIN.

- 1939. Plant histology as an aid in squirrel food-habit studies. *J. Wildl. Manage.* 3(3):266-268.

BECK, ROBERT A., AND JOHN H. STEENIS.

- 1964. Phragmites control in Delaware, 1963. *Proc. Northeast. Weed Control Conf.* 18:504-506.

BELISLE, A. A., W. L. REICHEL, L. N. LOCKE, T. G. LAMONT, B. M. MULHERN, R. M. PROUTY, R. B. DE WOLF, AND E. CROMARTIE.

- 1972. Residues of organochlorine pesticides, polychlorinated biphenyls, and mercury, and autopsy data for bald eagles, 1969-1970. *Pestic. Monit. J.* 6(3):133-138.

ELLACK, ERVIN, AND JAMES B. DEWITT.  
 1949. Rodent-repellent studies—I. Method for the evaluation of chemical repellents. *J. Am. Pharmacol. Assoc., Sci. Ed.* 38(2):109-112.

1949. Rodent-repellent studies—III. Advanced studies in the evaluation of chemical repellent. *J. Am. Pharmacol. Assoc., Sci. Ed.* 39(4):197-202.

1952. Procedure for the analysis of zinc phosphide rodenticides. *J. Assoc. Off. Agric. Chem.* 35(4): 917-920.

1954. Preparation and properties of thiouronium compounds and cyclic imides. *Agric. Food Chem.* 2(23):1176-1179.

BELLACK, ERVIN, JAMES B. DEWITT, AND RAY TREICHLER.  
 1953. Relationship between chemical structures and rat repellency. Chemical-Biological Coordination Center, Rev. no. 5:48-156. (National Research Council, Washington, D.C.)

BELLROSE, F. C., AND F. B. MCGILVREY.  
 1966. Characteristics and values of artificial nesting cavities. Pages 125-131 in *Wood duck management and research: a symposium*. Wildlife Management Institute, Washington, D.C.

BENTON, ALLEN H.  
 1951. Effects on wildlife of DDT used for control of Dutch elm disease. *J. Wildl. Manage.* 15(1): 20-27.

BLAGBROUGH, HARRY P.  
 1952. Reducing wildlife hazards in Dutch elm disease control. *J. For.* 50(6):468-469.

BLUS, LAWRENCE J.  
 1969. Adoption of a nestling house mouse by a female short-tailed shrew. *Am. Midl. Nat.* 81(2): 583-584.

1970. Measurements of brown pelican eggshells from Florida and South Carolina. *BioScience* 20(15):867-869.

1970. Review of *Biological effects of pesticides in mammalian systems*, Herman F. Kraybill, ed. *J. Wildl. Manage.* 34(4):968-971.

1971. Reproduction and survival of short-tailed shrews (*Blarina brevicauda*) in captivity. *Lab. Anim. Sci.* 21(6):884-891.

1971. Unusual drowning in captive short-tailed shrews. *Am. Midl. Nat.* 85(1):239.

BLUS, LAWRENCE J., CHARLES D. GISH, ANDRE A. BELISLE, AND RICHARD M. PROUTY.  
 1972. Logarithmic relationship of DDE residues to eggshell thinning. *Nature (Lond.)* 235(5338): 376-377.

1972. Further analysis of the logarithmic relationship of DDE residues to eggshell thinning. *Nature (Lond.)* 240(5377):164-166.

BLUS, LAWRENCE J., ROBERT G. HEATH, CHARLES D. GISH, ANDRE A. BELISLE, AND RICHARD M. PROUTY.  
 1971. Eggshell thinning in the brown pelican: implication of DDE. *BioScience* 21(24):1213-1215.

BOND, GORMAN M., AND ROBERT E. STEWART.  
 1951. A new swamp sparrow from the Maryland coastal plain. *Wilson Bull.* 63(1):38-40.

BRIGGS, SHIRLEY A., AND CHANDLER S. ROBBINS, editors.  
 1951. Where birds live; habitats in the Middle Atlantic States. Audubon Society of the District of Columbia. 58 pp.

BROOKS, SEAL T., WINSTON J. WAYNE, RICHARD L. WEST, AND JOHN T. LINEHAM.  
 1966. Thirtieth breeding-bird census: salt marsh edge habitat (Delaware). *Audubon Field Notes* 20(6): 664.

BRUCE, JOHN I., LEONARD M. LLEWELLYN, AND ELVIO H. SADUN.  
 1961. Susceptibility of wild animals to infection by *Schistosoma mansoni*. *J. Parasitol.* 47(5):752-756.

BUCKLEY, JOHN L.  
 1961. Quality vs. quantity. *Md. Conserv.* 38(5):5-10.  
 1961. Review of *Arctic wild*, by Lois Crisler. *J. Wildl. Manage.* 25(2):220.

1962. Future demands for wildlife and fishing. Pages 76-87 in *The challenge of forestry*. A compilation of the addresses and technical papers presented on the Occasion of the 50th Anniversary Celebration of the State University, College of Forestry, Syracuse University, April 12-14, 1961.

1963. Review of *A naturalist in Alaska*, by Adolph Murie. *Chesapeake Sci.* 4(1):63-64.

BUCKLEY, JOHN L., AND JAMES B. DEWITT.  
 1963. 1963 progress report—pesticide-bald eagle relationships. Pages 15-20 in *A Florida notebook*. Natl. Audubon Soc. Annu. Conv. Miami, Fla.

BUCKLEY, JOHN L., AND PAUL F. SPRINGER.  
 1964. Insecticides. Pages 459-470 in Joseph P. Lindska, ed. *Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

BUREAU OF SPORTS FISHERIES AND WILDLIFE.  
 1961. Patuxent Wildlife Research Center. U.S. Fish Wildl. Serv., Circ. 107. 23 pp.

BUTLER, PHILIP A., AND PAUL F. SPRINGER.  
 1963. Pesticides—a new factor in coastal environments. *Trans. North Am. Wildl. Nat. Resour. Conf.* 28:378-390.

BYRNE, ROBERT J., F. M. HETRICK, JOHN E. SCANLON, J. W. HASTINGS, JR., AND LOUIS N. LOCKE.  
 1961. Observations on eastern equine encephalitis in Maryland in 1959. *J. Am. Vet. Med. Assoc.* 139(6): 661-664.

CAMPBELL, DAN L.  
 1960. A colored leg strip for marking birds. *J. Wildl. Manage.* 24(4):431.

CARNEY, SAMUEL M., AND AELRED D. GEIS.  
 1960. Mallard age and sex determination from mallard wings. *J. Wildl. Manage.* 24(4):372-381.

CARRIER, W. DEAN, ROBERT D. MALLETT, SANFORD WILBUR, AND JOHN C. BORNEMAN.  
 1972. California condor survey, 1971. *Calif. Fish and Game* 58(4):327-328.

CASLICK, JAMES.  
 [1968]. Agricultural bird problems in the Southeast. Proc. Bird Control Seminar, 1966. (Bowling Green State Univ., Dep. Biol.) 3:80-84.

CHAPMAN, H. C., PAUL F. SPRINGER, F. FERRIGNO, AND DONALD MACCREARY.

1954. Studies of mosquito breeding in natural and impounded saltmarsh areas in New Jersey and Delaware. Proc. Annu. Meet. N.J. Mosq. Exterm. Assoc. 41:225-226.

CHAPMAN, H. C., P. F. SPRINGER, F. FERRIGNO, AND R. F. DARSIE, JR.

1955. Studies of mosquito breeding in natural and impounded saltmarsh areas in New Jersey and Delaware in 1954. Proc. Annu. Meet. N.J. Mosq. Exterm. Assoc. 42:92-94.

CHIAVETTA, KENNETH J., editor.

1960-72. Wildlife review: an abstracting service for wildlife management. Nos. 97-147. U.S. Bur. Sport Fish. Wildl.

CHURA, NICHOLAS, compiler.

1964. Wildlife abstracts, 1956-60. U.S. Bur. Sport Fish. Wildl. 335 pp.

CHURA, NICHOLAS J., AND PAUL A. STEWART.

1967. Care, food consumption, and behavior of bald eagles used in DDT tests. Wilson Bull. 79(4):441-448.

CHURCHILL, HELEN M., AND DON R. COBURN.

1945. Sulfonamide drugs in the treatment of ulcerative enteritis of quail. Vet. Med. 40(9):309-311.

CLARK, GORDON M.

1958. *Hepatozoon griseisciuri* n. sp.; a new species of Hepatozoon from the gray squirrel (*Sciurus carolinensis* Gmelin, 1788) with studies on the life cycle. J. Parasitol. 44(1):52-63.

1958. One new and one previously unreported species of nasal mite (Acarina, Speleognathidae) from N.A. birds. Proc. Helminthol. Soc. Wash. 25(2):78-86.

1960. Parasites of the gray squirrel. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 13:368-373.

1960. Three new nasal mites (Acarina: Speleognathidae) from the gray squirrel, the common grackle, and the meadowlark, in the United States. Proc. Helminthol. Soc. Wash. 27(1):103-110.

1960. Aspergillosis in naturally infested cowbirds and grackles. Avian Dis. 4(1):94-96.

1963. Observations on the nasal mites of the eastern brown-headed cowbird (*Molothrus ater ater*). Proc. Helminthol. Soc. Wash. 30(2):173-176.

CLARK, GORDON M., AND LOUIS N. LOCKE.

1962. Observations of pseudotuberculosis in common grackles. Avian Dis. 6(4):506-510.

1964. Multiple parasitism in fledgling birds: case reports. Avian Dis. 8(2):315-316.

CLARK, GORDON M., LOUIS N. LOCKE, AND FREDERICK C. SCHMID.

1960. Contact dermatitis incurred from cottontail stomach contents. J. Wildl. Manage. 24(1):94.

CLARK, GORDON M., DAVID O'MEARA, AND JAMES W. VAN WEELDEN.

1958. An epizootic among eider ducks involving an acanthocephalid worm. J. Wildl. Manage. 22(2):204-205.

CLARK, GORDON M., AND VERNON C. STOTTS.

1960. Skin lesions on black ducks and mallards caused by chigger (*Wormsia standmani* Wharton 1947). J. Wildl. Manage. 24(1):106-108.

COBURN, DON R.

1941. The preparation of blood smears and tissue impressions for laboratory study. U.S. Fish Wildl. Serv., Wildl. Leafl. 185. 3 pp.

1942. Concerning the nature of type C botulinus toxin fractions. Science 95(2467):389-390.

COBURN, DON R., W. H. ARMSTRONG, AND PSYCHE W. WETMORE.

1942. Observations on bacterin treatment of *Salmonella typhimurium* infections in chinchillas. Am. J. Vet. Res. 3(6):96.

COBURN, DON R., J. B. DEWITT, J. V. DERBY, JR., AND ERNEST EDIGER.

1950. Phosphorus poisoning in waterfowl. J. Am. Pharmacol. Assoc., Sci. Ed. 39(3):151-158.

COBURN, DON R., DAVID W. METZLER, AND RAY TREICHLER.

1951. A study of absorption and retention of lead in wild waterfowl in relation to clinical evidence of lead poisoning. J. Wildl. Manage. 15(2):186-192.

COBURN, DON R., AND J. A. MORRIS.

1949. Treatment of *Salmonella typhimurium* infection in ferrets. Cornell Vet. 39(2):198-201.

COBURN, DON R., AND RALPH B. NESTLER.

1947. Food particle size and quality in relation to disease in artificially propagated quail chicks. J. Am. Vet. Med. Assoc. 110 (838):30-34.

COBURN, DON R., AND RAY TREICHLER.

1946. Experiments on toxicity of DDT to wildlife. J. Wildl. Manage. 10(3):208-216.

COBURN, DON R., AND PSYCHE W. WETMORE.

1942. Fate of *Mycobacterium tuberculosis*, *Pseudomonas aeruginosa* and *Salmonella typhimurium* in scavenger birds. J. Bacteriol. 43(5):646.

COOKE, MAY THACHER.

1941. Suggestions for non-game bird field study. Ohio Conserv. Bull. 5(4):16-17.

1941. Returns from banded birds: recoveries of some banded birds of prey. Bird-Banding 12(4):150-160.

1941. Banded birds recovered in El Salvador. Auk 58(4):589-590.

1941. The age of the black-capped chickadee. Bird-Banding 12(4):174-175.

1942. Suggestions for bird field study. U.S. Fish Wildl. Serv., Wildl. Leafl. 228. 7 pp.

1942. Returns from banded birds: some longevity records of wild birds. Bird-Banding 13(1):34-35; (2):70-74; (3):110-119; (4):176-181.

1943. Returns from banded birds: some miscellaneous recoveries of interest. Bird-Banding 14(3):67-74.

1945. Returns from banded birds: some interesting recoveries. Bird-Banding 16(1):15-21.

1945. The kittiwake as a transatlantic bird. Bird-Banding 16(2):58-62.

1945. Banding records from the Pacific. Bird-Banding 16(3):105.

COOKE, MAY THACHER.

1945. Longevity of the sooty tern. *Bird-Banding* 16(3):106.  
1945. Recoveries from Colombia. *Bird-Banding* 16 (3):106.  
1945. Transoceanic recoveries of banded birds. *Bird-Banding* 16(4):123-129.  
1946. Returns of banded birds. *Bird-Banding* 17 (2):63-71, 74, 78-79.  
1947. Bird flight. Pages 127-137 in Van Campen Heilner, *Our American game birds*. Doubleday, Garden City, N. Y.  
1947. Field guide for identification. Pages 169-178 in Van Campen Heilner, *Our American game birds*. Doubleday, Garden City, N.Y.  
1948. Suggestions for bird field study. U.S. Fish Wildl. Serv., Wildl. Leafl. 228. 7 pp. [Revised]

COOKE, MAY THACHER, AND PHOEBE KNAPPEN.

1941. Some birds naturalized in North America. *Trans. North Am. Wildl. Conf.* 5:176-183.  
COON, NANCY C., AND LOUIS N. LOCKE.  
1968. Aspergillosis in a bald eagle (*Haliaeetus leucocephalus*). *Bull. Wildl. Dis. Assoc.* 4:51.  
COON, NANCY C., LOUIS N. LOCKE, EUGENE CROMARTIE, AND WILLIAM L. REICHEL.  
1970. Causes of bald eagle mortality, 1960-1965. *J. Wildl. Dis.* 6 (1):72-76.

COPE, JAMES B., AND M. MAX HENSLEY.

1951. Fifteenth breeding bird census: mixed northern hardwood, spruce-fir forest. *Audubon Field Notes* 5(6):318.

COPE, OLIVER B., AND PAUL F. SPRINGER.

1958. Mass control of insects; the effects on fish and wildlife. *Bull. Entomol. Soc. Am.* 4(2):52-56.

COTTAM, CLARENCE, AND FRANCIS M. UHLER.

1948. Birds as a factor in controlling insect depredations. U.S. Fish Wildl. Serv., Wildl. Leafl. 224. 6 pp. [Supersedes U.S. Dep. Inter. Bur. Biol. Surv., Wildl. Leafl. 162, same authors and title, 1940.]

COWAN, A. B., AND C. M. HERMAN.

1956. Winter losses of Canada geese at Pea Island, North Carolina. Pages 172-174 in *Proc. Southeast. Assoc. Game Fish Comm. Meet.* (Daytona Beach, Fla.)

CROWELL, THOMAS E., JOHN H. STEENIS, AND JOHN L. SINCOCK.

1967. Recent observations of Eurasian watermilfoil in Currituck Sound, North Carolina, and other coastal Southeastern States. *Southern Weed Conf.* 20: 348-352.

DALE, FRED H.

1951. Ringneck pheasant management. U.S. Fish Wildl. Serv., Wildl. Leafl. 332. 3 pp.  
1951. Bobwhite propagation and management. U.S. Fish Wildl. Serv., Wildl. Leafl. 335. 4 pp.  
1951. The Refuge in pheasant management. *J. Wildl. Manage.* 15(4):337-346.  
1952. Sex ratios in pheasant research and management. *J. Wildl. Manage.* 16(2):156-163.  
1954. Influence of calcium on the distribution of the pheasant in North America. *Trans. North Am. Wildl. Conf.* 19:316-323.

1955. Ability of the bobwhite to grow and reproduce without a dietary source of vitamin B12. *Science* 121(3149):675-676.

1955. The role of calcium in reproduction of the ring-necked pheasant. *J. Wildl. Manage.* 19(3): 325-331.

1956. The farmer and wildlife management. *Soil Conserv.* 21(8):186-189.

1956. How much game can we safely harvest? *Pa. Game News* 27(8):4-10.

DALE, FRED H., AND JAMES B. DEWITT.

1958. Calcium, phosphorus and protein levels as factors in the distribution of the pheasant. *Trans. North Am. Wildl. Conf.* 23:291-295.

DARGAN, LUCAS M., AND WILLIAM H. STICKEL.

1949. An experiment with snake trapping. *Copeia* 1949(4):264-268.

DARSIE, RICHARD F., JR., AND PAUL F. SPRINGER.

1957. Three-year investigation of mosquito breeding in natural and impounded tidal marshes in Delaware. *Univ. Del. Agric. Exp. Stn. Tech. Bull.* 320. 65 pp.

DAVEY, STUART P.

1963. Effects of chemicals on earthworms: a review of the literature. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 74. 20 pp.

DERBY, JAMES V., JR., AND JAMES B. DEWITT.

1948. Comparison of methods for the determination of carotene. *J. Assoc. Off. Agric. Chem.* 31(4): 704-708.

DEWITT, JAMES B.

1955. Effects of chlorinated hydrocarbon insecticides upon quail and pheasants. *Agric. Food Chem.* 3(8):672-676.

1956. Rodenticides: physical and biological characteristics. Page 409 in *Handbook of biological data*. National Research Council, Washington, D.C.

1956. Toxicity of chlorinated insecticides to quail and pheasants. *Atl. Nat.* 11(3):115-118.

1956. Chronic toxicity to quail and pheasants of some chlorinated insecticides. *Agric. Food Chem.* 4(10):863-866.

1957. H-bomb in the garden patch. *Wildl. N.C.* 21(9):4-7. (Reprinted under titles: Federal chemist reports on insecticide dangers. *S.C. Wildl.* 4(4): 4-5, 18; and H-bomb in the pea patch. *N.C. Wildl. Res. Comm.* 1-7).

1957. Rodent control. *Soap Chem. Spec.* 33(6): 87-92.

1958. Effects of chemical sprays on wildlife. *Audubon Mag.* 60(2):70-71.

1958. The function of the Fish and Wildlife Service in insect control program. *J. Econ. Entomol.* 51(5):740-741.

DEWITT, JAMES B., ERVIN BELLACK, CLARENCE W. KLINGENSMITH, JUSTUS C. WARD, AND RAY TREICHLER.

1953. Relationship between chemical structure and toxic action on rats. *Chemical-Biological Coordination Center Rev.* no. 5: 1-47. (National Research Council, Washington, D.C.)

DEWITT, JAMES B., ERVIN BELLACK, AND JACK F. WELCH.  
 1953. Rodent repellent studies. IV. Preparation and properties of trinitrobenzene-aryl amine complexes. *J. Am. Pharm. Assoc., Sci. Ed.* 42(11):695-697.

DEWITT, JAMES B., AND JEROME C. [F.] BESSER.  
 1958. Latest report on U.S. Fish and Wildlife Service research with rodent repellents. *Pest Control* 26(8):22-24, 59.

DEWITT, JAMES B., AND JOHN L. BUCKLEY.  
 1962. Interim report—studies on pesticide-eagle relationships. *Audubon Field Notes* 16(6):541.

DEWITT, JAMES B., D. GLEN CRABTREE, ROBERT B. FINLEY, AND JOHN L. GEORGE.  
 1962. Effects on wildlife. Pages 4-15 in *Effects of pesticides on fish and wildlife: a review of investigations during 1960*. U.S. Fish Wildl. Serv., Circ. 143.

DEWITT, JAMES B., AND JAMES V. DERBY, JR.  
 1955. Changes in nutritive value of browse plants following forest fires. *J. Wildl. Manage.* 19(1):65-70.

DEWITT, JAMES B., JAMES V. DERBY, JR., AND GEORGE F. MANGAN.  
 1955. DDT vs. wildlife: relationships between quantities ingested, toxic effects and tissue storage. *J. Am. Pharm. Assoc., Sci. Ed.* 44(1):22-24.

DEWITT, JAMES B., AND JOHN L. GEORGE.  
 1960. Bureau of Sport Fisheries and Wildlife, pesticide-wildlife review: 1959. *U.S. Fish Wildl. Serv., Circ.* 84. 36 pp. [Revised same year]

DEWITT, JAMES B., CALVIN M. MENZIE, VYTO A. ADOMAITIS, AND WILLIAM L. REICHEL.  
 1960. Pesticidal residues in animal tissues. *Trans. North Am. Wildl. Nat. Resour. Conf.* 25:277-285.

DEWITT, JAMES B., RALPH B. NESTLER, AND JAMES V. DERBY, JR.  
 1949. Calcium and phosphorus requirements of breeding bobwhite quail. *J. Nutr.* 39(4):567-577.

DEWITT, JAMES B., AND PAUL F. SPRINGER.  
 1957. Chemicals and wildlife. *Natl. Agric. Chem. Assoc. News* 16(1):13-14. (Reprinted in *Ala. Conserv.* 29(5):6-7, 1958).

DEWITT, JAMES D., WILLIAM H. STICKEL, AND PAUL F. SPRINGER.  
 1963. Wildlife studies, Patuxent Wildlife Research Center, 1961-1962. Pages 74-105 in *Pesticide-Wildlife studies: a review of Fish and Wildlife Service investigations during 1961 and 1962*. U.S. Fish Wildl. Serv., Circ. 167.

DEWITT, JAMES B., JACK F. WELCH, AND ERVIN BELLACK.  
 1950. Rodent repellency. *Modern Packaging* 23(9):123-126.

DIAMOND, LOUIS S.  
 1954. A comparative study of 28 culture media for *Trichomonas gallinae*. *Exp. Parasitol.* 3(3):251-258.

DIAMOND, LOUIS S., AND CARLTON M. HERMAN.  
 1954. Incidence of trypanosomes in the Canada goose as revealed by bone marrow culture. *J. Parasitol.* 40(2):195-202.

DOWDEN, PHILIP B., AND ROBERT T. MITCHELL.  
 1966. Birds and bugs. Pages 240-248 in Alfred Stefferud, ed. *Birds in our lives*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

DUSTMAN, E. H.  
 1966. Monitoring wildlife for pesticide content. Pages 343-351 in *Scientific aspects of pest control*, Publ. no. 1402. (National Academy of Sciences-National Research Council, Washington, D.C.)

DUSTMAN, E. H., W. E. MARTIN, R. G. HEATH, AND W. L. REICHEL.  
 1971. Monitoring pesticides in wildlife. *Pestic. Monit. J.* 5(1):50-52.

DUSTMAN, E. H., AND LUCILLE F. STICKEL.  
 1966. Pesticide residues in the ecosystem. Pages 109-121 in *Pesticides and their effects on soils and water*. Am. Soc. Agron., Spec. Publ. 8.

1969. The occurrence and significance of pesticide residues in wild animals. *Ann. N.Y. Acad. Sci.* 160 (Artic. 1):162-172.

DUSTMAN, E. H., L. F. STICKEL, L. J. BLUS, W. L. REICHEL, AND S. N. WIEMEYER.  
 1971. The occurrence and significance of polychlorinated biphenyls in the environment. *Trans. North Am. Wildl. Nat. Resour. Conf.* 36:118-133.

DUSTMAN, EUGENE H., LUCILLE F. STICKEL, AND JAMES B. ELDER.  
 1972. Mercury in wild animals, Lake St. Clair, 1970. Pages 46-52 in Rolf Hartung and B. D. Dinman, eds. *Environmental mercury contamination*. Ann Arbor Science Publishers, Ann Arbor, Michigan.

DUVALL, ALLEN J.  
 1956. The juvenal plumage of the American woodcock. Pages 43-46 in *Investigations of woodcock, snipe, and rails in 1955*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 31.

1957. The use of mist nets in trapping and banding migratory birds. *EBBA* [East. B'd Banding Assoc.] News, May-June:35-39.

DYER, M. I.  
 [1972.] Territorial male red-winged blackbird distribution in Wood County, Ohio. *Proc. Bird Control Seminar* (Bowling Green State Univ., Dep. Biol.) 5:185-194.

ERICKSON, RAY C.  
 1966. New Federal research station. *Modern Game Breeding* 2(11):21-23, 39-42.

1968. A Federal research program for endangered wildlife. *Trans. North Am. Wildl. Nat. Resour. Conf.* 33:418-433.

FANKHAUSER, DON P.  
 1962. Observations of birds feeding on overwintering corn borer. *Wilson Bull.* 74(2):191.

1964. Renesting and second nesting of individually marked red-winged blackbirds. *Bird-Banding* 35(2):119-121.

1964. Plastic adhesive tape for color-marking birds. *J. Wildl. Manage.* 28(3):594.

1966. Movements of starlings in relation to a roost near Hanover, Pennsylvania. *Bird-Banding* 37(3):200-203.

**FANKHAUSER, DON P.**

- 1967. Survival rates in red-winged blackbirds. *Bird-Banding* 38(2):139-142.
- 1968. A comparison of migration between blackbirds and starlings. *Wilson Bull.* 80(2):225-227.
- 1971. Annual adult survival rates of blackbirds and starlings. *Bird-Banding* 42(1):36-42.

**FANKHAUSER, DON P., AND ROBERT T. MITCHELL.**

- 1964. Changes in land use and breeding red-winged blackbird populations at Patuxent Wildlife Research Center. *Atl. Nat.* 19(2):99-100.

**FAYER, RONALD, AND RICHARD M. KOCAN.**

- 1971. Prevalence of *Sarcocystis* in grackles in Maryland. *J. Protozool.* 18(3):547-548.

**FORTENBERY, DONALD K.**

- 1972. Characteristics of the black-footed ferret. *U.S. Bur. Sport Fish. Wildl. Resour. Publ.* 109. 8 pp.

**FRANCIS, WILLIAM J.**

- 1970. The influence of weather on population fluctuations in California quail. *J. Wildl. Manage.* 34(2):249-266.
- 1971. An evaluation of reported reproductive success in red-winged blackbirds. *Wilson Bull.* 83(2):178-185.

**GEIS, AELRED D.**

- 1959. Annual and shooting mortality estimates for the canvasback. *J. Wildl. Manage.* 23(3):253-261.

**GEIST, OTTO WILLIAM, JOHN L. BUCKLEY, AND RICHARD H. MANVILLE.**

- 1960. Alaskan records of the narwhal. *J. Mammal.* 41:250-253.

**GEORGE, JOHN L.**

- 1958. Pesticides: where do we go from here? *Trans. Conv. Int. Assoc. Game Fish Conserv. Comm.* 48:130-134.
- 1959. Effects on fish and wildlife of chemical treatments of large areas. *J. For.* 57(4):250-254.
- 1960. Some primary and secondary effects of herbicides on wildlife. Pages 40-73 in *Herbicides and their use in forestry*. Forestry Symposium, Pennsylvania State University, University Park, Pa.
- 1960. The pesticide problem—wildlife, the community of living things. *Mass. Audubon* 44(5):226-232.
- 1961. Pesticides and wildlife: the need for more knowledge. *New Sci.* 11(242):15-17.
- 1961. Review of *The herring gull's world* by Niko Timbergen. *Atl. Nat.* 16(3):202-203.
- 1961. Review of *Biological and chemical control of plant and animal pests*. *J. Range Manage.* 14(4):225-226.

**GEORGE, JOHN L., RICHARD F. DARSIE, JR., AND PAUL F. SPRINGER.**

- 1957. Effects on wildlife of aerial applications of strobane, DDT, and BHC to tidal marshes in Delaware. *J. Wildl. Manage.* 21(1):42-53.

**GEORGE, JOHN L., AND ROBERT T. MITCHELL.**

- 1947. Studies on the effects of feeding DDT-treated insects to nestling birds. *J. Econ. Entomol.* 40(6):782-789.
- 1948. Calculations on the extent of spruce budworm control by insectivorous birds. *J. For.* 46(6):454-455.

- 1948. Notes on two species of Calliphoridae (Diptera) parasitizing nestling birds. *Auk* 65(4):549-552.

**GEORGE, JOHN L., AND WILLIAM H. STICKEL.**

- 1949. Wildlife effects of DDT dust used for tick control on a Texas prairie. *Am. Midl. Nat.* 42(1):228-237.

**GISH, CHARLES D.**

- 1970. Organochlorine insecticide residues in soils and soil invertebrates from agricultural lands. *Pestic. Monit. J.* 3(4):241-252.

**GISH, CHARLES D., AND NICHOLAS J. CHURA.**

- 1970. Toxicity of DDT to Japanese quail as influenced by body weight, breeding condition, and sex. *Toxicol. Appl. Pharmacol.* 17(3):740-751.

**GODIN, ALFRED J.**

- 1967. Test of grit types in alleviating lead poisoning in mallards. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 107. 9 pp.

**GRANDY, JOHN W. IV, LOUIS N. LOCKE, AND GEORGE E. BAGLEY.**

- 1968. Relative toxicity of lead and five proposed substitute shot types to pen-reared mallards. *J. Wildl. Manage.* 32(3):483-488.

**GRANETT, PHILIP, AND JOHN T. LINEHAN.**

- [1972.] Sampling of corn to assess bird damage. *Proc. Bird Control Seminar (Bowling Green State Univ., Dep. Biol.)* 5:195-199.

**GREELEY, JOHN R., AND JOHN H. STEENIS.**

- 1959. Comparative tests of various herbicides on waterchestnut. *Proc. Northeast. Weed Control Conf.* 13:299-305.

**GREEN, WILLIAM E., L. G. MACNAMARA, AND FRANCIS M. UHLER.**

- 1964. Water off and on. Pages 557-568 in Joseph P. Linduska, ed. *Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

**HABERMANN, ROBERT T., CARLTON M. HERMAN, AND FLETCHER P. WILLIAMS, JR.**

- 1958. Distemper in raccoons and foxes suspected of having rabies. *J. Am. Vet. Med. Assoc.* 132(1):31-35.

**HALL, LINDA C., AND FRANK B. McGILVREY.**

- 1971. Nesting by a yearling Canada goose. *J. Wildl. Manage.* 35(4):835-836.

**HARKE, DONALD T.**

- 1966. Yellow-headed blackbird in Gainesville, Florida. *Fla. Nat.* 39(3):118.

**HARKE, DONALD T., AND ALLEN R. STICKLEY, JR.**

- 1968. Sensitive resettable odometer aids roadside census of red-winged blackbirds. *J. Wildl. Manage.* 32(3):635-636.

**HARKE, DONALD T., AND JACOB F. STOWERS.**

- 1967. Unusual sighting of American avocet (*Recurvirostra americana*) on St. George Island. *Fla. Nat.* 40(2):65.

**HEATH, ROBERT G.**

- 1969. Nationwide residues of organochlorine pesticides in wings of mallards and black ducks. *Pestic. Monit. J.* 3(2):115-123.

HEATH, ROBERT G., AND RICHARD M. PROUTY.  
 1967. Trial monitoring of pesticides in wings of mallards and black ducks. *Bull. Environ. Contam. Toxicol.* 2(2):101-110.

HEATH, ROBERT G., JAMES W. SPANN, ELWOOD F. HILL, AND JAMES F. KREITZER.  
 1972. Comparative dietary toxicities of pesticides to birds. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 152. 57 pp.

HEATH, ROBERT G., JAMES W. SPANN, JAMES F. KREITZER.  
 1969. Marked DDE impairment of mallard reproduction in controlled studies. *Nature (Lond.)* 224 (5214):47-48.

HEATH, R. G., J. W. SPANN, J. F. KREITZER, AND C. VANCE.  
 1972. Effects of polychlorinated biphenyls on birds. *Proc. Int. Ornithol. Congr.* 15:475-485.

HENSLEY, M. MAX, AND JAMES B. COPE.  
 1951. Further data on removal and repopulation of the breeding birds in a spruce-fir forest community. *Auk* 68(4):483-493.

HERMAN, CARLTON M.  
 1950. Trichomoniasis, a disease of mourning doves. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 331. 4 pp.  
 1951. Blood parasites from California ducks and geese. *J. Parasitol.* 37(3):280-282.  
 1953. Recognition of trichomoniasis in doves. *Bird-Banding* 24(1):11-12.  
 1953. A review of experiments in biological control of rabbits in Australia. *J. Wildl. Manage.* 17(4):482-486.  
 1954. *Haemoproteus* infections in waterfowl. *Proc. Helminthol. Soc. Wash.* 21(1):37-42.  
 1954. Wildlife diseases. *Southeast. Vet.* 6(1):10-12.  
 1955. Removal of tapeworms from a live dove. *Proc. Helminthol. Soc. Wash.* 22(2):129.  
 1955. Diseases of birds. Pages 450-467 in Albert Wolfsen, ed. *Recent studies in avian biology*. University of Illinois Press, Urbana. 479 pp.  
 1955. *Macracanthorhynchus ingens* from raccoons in Maryland. *Proc. Helminthol. Soc. Wash.* 22(2):105.  
 1957. The occurrence of blood protozoa in North American birds. *J. Protozool.* 4(Suppl.):6.  
 1958. Review of *A bibliography of references to diseases of wild mammals and birds*, by Patricia O'Connor Halloran. *J. Wildl. Manage.* 22(3):329-330.  
 1959. The field of wildlife diseases. *Bull. Med. Res.* 13(1):8-11.  
 1961. Epizootics in wild animals in relation to populations. *Wildl. Dis.* 13(1):9.  
 1962. The role of birds in the epizootiology of eastern encephalitis. *Auk* 79(1):99-103.  
 1962. Some aspects of the diagnosis of disease in wildlife. *Annu. Proc. U.S. Livest. Sanit. Assoc.* 65:512-517.  
 1962. Introductory remarks. Pages viii-x in *Proceedings, 1st National white-tailed deer disease symposium*, University of Georgia, Athens.

1963. Disease and infection in the Tetraonidae. *J. Wildl. Manage.* 27(4):850-854.  
 1963. Review of *Tuberculosis in animals*, J. N. Ritchie and W. D. McCrae, eds. *Chesapeake Sci.* 4(1):64.  
 1964. Significance of bird losses on Lake Michigan during November and December 1963. *Univ. Mich., Great Lakes Res. Div., Publ.* 11:84-87.  
 1965. The occurrence of protozoan blood parasites in Anatidae. *Trans. Congr. Int. Union Game Biol.* 6:341-349.  
 1965. Review of *Clostridium botulinum food poisoning*, by E. M. Foster and associates. *Bull. Wildl. Dis. Assoc.* 1(3):47.  
 1966. Birds and our health. Pages 284-291 in Joseph P. Linduska, ed. *Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.  
 1966. Review of *Veterinary medicine and human health*, by Calvin W. Schwabe. *Bull. Wildl. Dis. Assoc.* 2(2):14.  
 1966. Review of *Dangerous to man*, by Roger A. Caras. *BioScience* 16(5):364-365.  
 1966. Review of *Coccidia and coccidiosis*, by L.P. Pellerdy. *Bull. Wildl. Dis. Assoc.* 2(2):19.  
 1968. Blood parasites in North American waterfowl. *Trans. North Am. Wildl. Nat. Presour. Conf.* 33:348-359.  
 1968. Blood protozoa of free-living birds. *Proc. Zool. Soc. London no. 24*:178-193.  
 1969. Bird-borne disease in man. Pages 503-507 in M. L. Petrak, ed. *Diseases of cage and aviary birds*. Lea and Febiger, Philadelphia.  
 1969. The impact of disease on wildlife populations. *BioScience* 19 (4):321-325, 330.  
 1969. Review of *Wild turkey diseases and parasites*, by M. H. Markley. *Bull. Wildl. Dis. Assoc.* 5(1):10.  
 1970. Disease. Pages 44-50 in H. F. Dill and F. B. Lee, eds. *Home-grown honkers*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Twin Cities, Minn.  

HERMAN, C. M., AND J. H. BARROW.  
 1967. Three species of *Plasmodium* from Canada geese, *Branta canadensis*. *Bull. Wildl. Dis. Assoc.* 3(2):88.

HERMAN, CARLTON M., PRESTON M. BAUMAN, AND ROBERT T. HABERMANN.  
 1957. The prevalence of *Eurytrema procyonis* Denton (Trematoda: Dicrocoeliidae) in some mammals from Maryland. *J. Parasitol.* 43(1):113-114.

HERMAN, CARLTON M., AND J. I. BRUCE, JR.  
 1962. Occurrence of *Trypanosoma cruzi* in Maryland. *Proc. Helminthol. Soc. Wash.* 29(1):55-58.

HERMAN, CARLTON M., AND DAVID E. LAVIS.  
 1964. Primary publication in microprint. *BioScience* 14(4):27-30.

HERMAN, CARLTON M., LAWRENCE KILNAM, AND OSCAR WARBACH.  
 1956. Incidence of Shope's rabbit fibroma in cottontails at the Patuxent Research Refuge. *J. Wildl. Manage.* 20(1):85-89.

HERMAN, C. M., J. O. KNISLEY, JR., AND G. D. KNIPLING.  
 1971. Blood parasites of wood ducks. *J. Wildl. Manage.* 35(1):119-122.

HERMAN, CARLTON M., JULIAN O. KNISLEY, JR., AND ELIZABETH L. SNYDER.  
 1966. Subinoculation as a technique in the diagnosis of avian plasmodium. *Avian Dis.* 10(4):541-547.

HERMAN, C. M., R. M. KOCAN, E. L. SNYDER, AND J. O. KNISLEY, JR.  
 1968. *Plasmodium elongatum* from a penguin. *Bull. Wildl. Dis. Assoc.* 4(4):132.

HERMAN, CARLTON M., AND LOUIS N. LOCKE.  
 1961. Trichomoniasis, a disease of mourning doves. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 331 (revised). 4 pp.

HERMAN, CARLTON M., LOUIS N. LOCKE, AND GORDON M. CLARK.  
 1962. Foot abnormalities of wild birds. *Bird-Banding* 33(4):191-198.

HERMAN, CARLTON M., AND DONALD L. PRICE.  
 1955. The occurrence of hepatozoon in the gray squirrel (*Sciurus carolinensis*). *J. Protozool.* 2 (2):48-51.

1965. Epizootiologic studies on filaroids of the raccoon. *J. Wildl. Manage.* 29(4):694-699.

HERMAN, C. M., W. C. REEVES, H. E. MCCLURE, E. M. FRENCH, AND W. McD. HAMMON.  
 1954. Studies on avian malaria in vectors and hosts of encephalitis in Kern County, California. I. Infections in avian hosts. *Am. J. Trop. Med. Hyg.* 3(4):676-695.

HERMAN, CARLTON M., AND JAMES R. REILLY.  
 1955. Skin tumors on squirrels. *J. Wildl. Manage.* 19(3):402-403.

HERMAN, CARLTON M., AND KENJI SAYAMA.  
 1951. Further notes on *Selenomonas* from Californian mammals. *Trans. Am. Microsc. Soc.* 70(2):185-187.

HERMAN, CARLTON M., AND WILLIAM J. L. SLADEN.  
 1958. Aspergillosis in waterfowl. *Trans. North Am. Wildl. Conf.* 23:187-191.

HERMAN, CARLTON M., JOHN H. STEENIS, AND EVERETT E. WEHR.  
 1955. Causes of winter losses among Canada geese. *Trans. North Am. Wildl. Conf.* 20:161-165.

HERMAN, CARLTON M., AND EVERETT E. WEHR.  
 1954. The occurrence of gizzard worms in Canada geese. *J. Wildl. Manage.* 18(4):509-513.

HOFFMAN, C. H., AND J. P. LINDUSKA.  
 1949. Some considerations of the biological effects of DDT. *Sci. Mon.* 69(2):104-114.

HOTCHKISS, NEIL.  
 1940. Range extensions of marsh and aquatic plants. *Rhodora* 42(493):20-22.

1941. The limnological role of the higher plants. Pages 152-162 in James G. Needham et al., eds. *A symposium of hydrobiology*. Univ. of Wisc. Press, Madison. 405 pp.

1942. Check list of marsh and aquatic plants of the United States. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 210. 35 pp. [Reissued 1950.]

1943. Hooded warbler in North Dakota. *Auk* 60(4):607.

1948. Bird records from northeastern Montana. *Condor* 50(6):274-275.

1951. Range extensions of marsh and aquatic plants. *Rhodora* 53 (627):91-93.

1964. Pondweeds and pondweedlike plants of eastern North America. *U.S. Fish Wildl. Serv., Circ.* 187. 30 pp.

1965. Bulrushes and bulrushlike plants of eastern North America. *U.S. Fish Wildl. Serv., Circ.* 221. 19 pp.

1967. Underwater and floating-leaved plants of the United States and Canada. *U.S. Bur. Sport Fish. Wildl., Resour. Publ.* 44. 124 pp.

1970. Common marsh plants of the United States and Canada. *U.S. Bur. Sport Fish. Wildl., Resour. Publ.* 93. 99 pp.

HOTCHKISS, NEIL, compiler.  
 1954. *Wildlife abstracts, 1935-51*. U.S. Bur. Sport Fish. Wildl. 435 pp.

HOTCHKISS, NEIL, editor.  
 1948-50. *Wildlife review: an abstracting service for wildlife management*. Nos. 52-66. U.S. Bur. Sport Fish. Wildl.

HOTCHKISS, NEIL, AND HERBERT L. DOZIER.  
 1949. Taxonomy and distribution of North American cat-tails. *Am. Midl. Nat.* 41(1):237-254.

HOTCHKISS, NEIL, AND RICHARD H. POUGH.  
 1946. Effects on forest birds of DDT used for gypsy moth control in Pennsylvania, 1945. *J. Wildl. Manage.* 10(3):202-207.

HOTCHKISS, NEIL, AND ROBERT E. STEWART.  
 1947. Vegetation of the Patuxent Research Refuge, Maryland. *Am. Midl. Nat.* 38(1):1-75.

IRBY, HAROLD D., AND LYTLE H. BLANKENSHIP.  
 1966. Breeding behavior of immature mourning doves. *J. Wildl. Manage.* 30(3):598-604.

IRBY, HAROLD D., LOUIS N. LOCKE, AND GEORGE E. BAGLEY.  
 1967. Relative toxicity of lead and selected substitute shot types to game farm mallards. *J. Wildl. Manage.* 31(2):253-257.

JACOBS, L., ANASTASIA M. STANLEY, AND CARLTON M. HERMAN.  
 1962. Prevalence of *Toxoplasma* antibodies in rabbits, squirrels, and raccoons collected in and near the Patuxent Wildlife Research Center. *J. Parasitol.* 48(4):550.

JAMES, GEORGE A., FRANK M. JOHNSON, AND F. B. BARICK.  
 1964. Relations between hunter access and deer kill in North Carolina. *Trans. North Am. Wildl. Nat. Resour. Conf.* 29:454-463.

JENSEN, G. HORTIN, AND L. J. KORSCHGEN.  
 1947. Contents of crops, gizzards, and droppings of bobwhite quail force-fed known kinds and quantities of seeds. *J. Wildl. Manage.* 11(1):37-43.

JOHNSON, FRANK M.  
 1961. Flowering dogwood, *Cornus florida* L. Pages 16-17 in Deer browse plants of the southern forest.

JOHNSON, FRANK M.  
U.S. For. Serv., South. and Southeast. For. Exp. Stns., New Orleans, La., and Asheville, N.C.  
1961. Count down on deer research. Wildl. in N.C. 25(8):8-9.

JOHNSON, FRANK M., AND ROBERT L. DOWNING.  
1963. Preliminary investigations of deer census techniques applicable to the Southeast. Pages 162-165 in Proc. Soc. Am. For., 1962.

JOHNSON, FRANK M., JAMES S. LINDZEY, AND THOMAS H. RIPLEY.  
1962. Recent developments and needs in game and game habitat research in connection with pine site preparation. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 15:27-29.

JOHNSON, FRANK M., JACK STUBBS, AND RALPH A. KLAWITTER.  
1964. Rodent repellent value of arasan-endrin mixtures applied to acorns. J. Wildl. Manage. 28(1):15-19.

JOHNSON, R. E., T. C. CARVER, AND E. H. DUSTMAN.  
1967. Residues in fish, wildlife, and estuaries. Pestic. Monit. J. 1(1):7-13.

JONES, ROBERT, AND JOHN T. LINEHAN.  
1967. Winter bird population study; woodlot, mixed hardwoods. Audubon Field Notes 21(3):463-464.

JONES, ROBERT E., JERRY R. LONGCORE, AND JOHN T. LINEHAN.  
1966. Thirtieth breeding-bird census: red maple-tulip poplar forest (Delaware). Audubon Field Notes 20(6):647.

KADLEC, JOHN A.  
1971. Effects of introducing foxes and raccoons on herring gull colonies. J. Wildl. Manage. 35(4):625-636.

KADLEC, JOHN A., AND WILLIAM H. DRURY, JR.  
1968. Structure of the New England herring gull population. Ecology 49(4):644-676.  
1968. Aerial estimation of the size of gull breeding colonies. J. Wildl. Manage. 32(2):287-293.  
1969. Loss of bands from adult herring gulls. Bird-Banding 40(3):216-221.

KADLEC, JOHN A., WILLIAM H. DRURY, JR., AND DANIEL K. ONION.  
1969. Growth and mortality of herring gull chicks. Bird-Banding 40(3):222-233.

KATZ, MYER.  
1941. Selected publications on waterfowl and gallinaceous gamebirds (with special reference to propagation and management). U.S. Fish Wildl. Serv., Wildl. Leafl. 192. 42 pp.

KEPLER, CAMERON B.  
1969. Breeding biology of the blue-faced booby on Green Island, Kure Atoll. Publ. Nuttall Ornithol. Clubs (Cambridge, Mass.) no. 8. 97 pp.  
1970. The Puerto Rican parrot. Pages E186-188 in Howard Odum, ed. A tropical rain forest. Division of Technical Information, U.S. Atomic Energy Commission, Oak Ridge, Tenn.  
1971. First Puerto Rican record of the Antillean palm swift. Wilson Bull. 83(3):309-310.  
1972. Notes on the ecology of Puerto Rican swifts, including the first record of the white-collared swift, *Streptoprocne zonaris*. Ibis 114(1972):541-543.

KEPLER, CAMERON B., AND ANGELA K. KEPLER.  
1970. Preliminary comparison of bird species diversity and density in Luquillo and Guanica forests. Pages E183-186 in Howard Odum, ed. A tropical rain forest. Division of Technical Information, U.S. Atomic Energy Commission, Oak Ridge, Tenn.

KEPLER, CAMERON B., AND KENNETH C. PARKES.  
1972. A new species of warbler (Parulidae) from Puerto Rico. Auk 89(1):1-18.

KERWIN, JAMES A.  
1971. Atlantic shore salt marshes. Atl. Nat. 26(2):71-74.  
1971. Distribution of the fiddler crab (*Uca minax*) in relation to marsh plants wthin a Virginia estuary. Chesapeake Sci. 12(3):187-183.

KERWIN, JAMES A., AND ROBERT PEDIGO.  
1971. Syneccology of a Virginia salt marsh. Chesapeake Sci. 12(3):125-130.

KIEL, WILLIAM H., JR.  
1959. Mourning doves—an international resource. Outdoor Calif. 20(1):4-5.  
1959. Mourning dove management units. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 42. 24 pp.  
1959. Mourning dove management in Eastern United States. Trans. Annu. Conf. Southeast. Game Fish Comm. 13:19-21.  
1960. Mourning dove status report—1960. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 49. 34 pp.

KILHAM, LAWRENCE, ROBERT T. HABERMANN, AND CARLTON M. HERMAN.  
1956. Jaundice and bilirubinemia as manifestations of canine distemper in raccoons and ferrets. Am. J. Vet. Res. 17(62):144-148.

KILHAM, LAWRENCE, AND CARLTON M. HERMAN.  
1954. Isolation of an agent causing bilirubinemia and jaundice in raccoons. Proc. Soc. Exp. Biol. Med. 85(2):272-275.  
1955. Severe infestation of blow flies in a raccoon. J. Wildl. Manage. 19(4):499.

KILHAM, LAWRENCE, CARLTON M. HERMAN, AND EDWIN R. FISHER.  
1953. Naturally occurring fibromas of gray squirrels related to Shope's rabbit fibroma. Proc. Soc. Exp. Biol. Med. 82(2):298-301.

KING, WARREN B., AND CAMERON B. KEPLER.  
1970. Active anting in the Puerto Rican tanager. Auk 87(2):375-378.

KLAWITTER, RALPH A., JACK STUBBS AND FRANK M. JOHNSON.  
1963. Tests of arasan 75-endrin 50W rodent repellent on shumard and swamp chestnut oak acorns. U.S. For. Serv. Res. Note SE-4:1-2.

KLINGENSMITH, CLARENCE W.  
1945. A note on the natural occurrence of fluoracetic acid, the acid of the new rodenticide "1080." Science 102(2659):622-623.

KLUKAS, R. W., AND L. N. LOCKE.  
1970. An outbreak of fowl cholera in Everglades National Park. *J. Wildl. Dis.* 6(1):77-79.

KNAPPEN, PHOEBE.  
1947. Publications on cage birds. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 285. 13 pp.

KNISLEY, J. O., JR., AND C. M. HERMAN.  
1967. *Haemoproteus*, a blood parasite, in domestic pigeons and mourning doves in Maryland. *Chesapeake Sci.* 8(3):200-205.

KOCAN, A. A., AND R. M. KOCAN.  
1972. Immature *Prosthodendrium* sp. in a lesser scaup (*Aythya affinis*). *J. Parasitol.* 58(5):1014-1015.

KOCAN, RICHARD M.  
1968. The canvasback duck (*Aythya valisineria*): a new host for *Plasmodium*. *Bull. Wildl. Dis. Assoc.* 4(3):86-87.  
1968. Anemia and mechanism of erythrocyte destruction in ducks with acute *Leucocytozoon* infections. *J. Protozool.* 15(3):455-462.  
1968. Probable origin of ciliates found in oral swabbing of doves and pigeons. *J. Parasitol.* 54(5):1038.  
1969. A method for producing healthy carriers of the Jones' barn strain of *Trichomonas gallinae*. *J. Parasitol.* 55(2):397.  
1969. Different organ preferences by the same strain of *Trichomonas gallinae* in different host species. *J. Parasitol.* 55(5):1003.  
1969. Various grains and liquid as potential vehicles of transmission for *Trichomonas gallinae*. *Bull. Wildl. Dis. Assoc.* 5(3):148-149.  
1970. Review of *Diseases of tree-living wild animals*, by A. McDiarmid, ed. *J. Wildl. Dis.* 6(1):5-6. (Also in *Symp. Zool. Soc. Lond.*, no. 24).  
1970. Passive immunization of pigeons against trichomoniasis. *J. Protozool.* 17(4):551-553.  
1971. Heartworm . . . the detection, treatment, and control. *Am. Kennel Gaz.* 88:12-15.  
1971. Trichomoniasis. Pages 282-290 in J. W. Davis et al., eds. *Infectious and parasitic diseases of wild birds*. Iowa State University Press, Ames.  
1972. Effect of Hygromycin-B on pigeons (*Columba livia*) with and without *Trichomonas gallinae*. *Avian Dis.* 16(4):714-717.  
1972. Some physiologic blood values of wild diving ducks. *J. Wildl. Dis.* 8(2):115-118.

KOCAN, RICHARD M., AND SPENCER R. AMEND.  
1972. Immunologic status of mourning doves following an epizootic of trichomoniasis. *J. Wildl. Dis.* 8(2):176-180.

KOCAN, R. M., AND J. H. BARROW, JR.  
1968. Observations on the development and significance of *Leucocytozoon simondi* megaloschizonts and a technique for their isolation. *Bull. Wildl. Dis. Assoc.* 4(3):94-95.

KOCAN, R. M., AND H. F. HASENCLEVER.  
1972. Normal yeast flora of the upper digestive tract of some wild columbids. *J. Wildl. Dis.* 8(4):365-368.

KOCAN, R. M., AND C. M. HERMAN.  
1970. Serum protein changes in immune and non-immune pigeons infected with various strains of *Trichomonas gallinae*. *J. Wildl. Dis.* 6(1):43-46.

KOCAN, R. M., N. E. KELKER, AND D. T. CLARK.  
1967. Freeze-preservation of *Leucocytozoon simondi* sporozoites in liquid nitrogen. *J. Protozool.* 14(4):724-726.

KOCAN, R. M., AND J. O. KNISLEY.  
1970. Challenge infection as a means of determining the rate of disease resistant *Trichomonas gallinae*-free birds in a population. *J. Wildl. Dis.* 6(1):13-15.  
1970. Incidence of malaria in a wintering population of canvasbacks (*Aythya valisineria*) on Chesapeake Bay. *J. Wildl. Dis.* 6(4):441-443.  
1971. The bufflehead (*Bucephala albeola*): a new host record for *Plasmodium*. *J. Wildl. Dis.* 7(1):35.  
1972. Two new diving duck hosts for *Plasmodium circumflexum*. *J. Parasitol.* 59(1):104.

KOCAN, R. M., AND A. SPRUNT IV.  
1971. The white-crowned pigeon: A fruit-eating pigeon as a host for *Trichomonas gallinae*. *J. Wildl. Dis.* 7(3):217-218.

KOLB, C. H., JR., CHANDLER S. ROBBINS, AND F. C. ROBINS.  
1948. Breeding bird census: mixed oak forest. *Audubon Field Notes* 2(6):234.

KRANTZ, W. C., B. M. MULHERN, G. E. BAGLEY, A. SPRUNT IV, F. J. LIGAS, AND W. B. ROBERTSON, JR.  
1970. Organochlorine and heavy metal residues in bald eagle eggs. *Pestic. Monit. J.* 3(3):136-140.

KREITZER, J. F.  
1971. Eggshell thickness in mourning dove populations. *J. Wildl. Manage.* 35(3):563-564.  
1972. The effect of embryonic development on the thickness of the egg shells of coturnix quail. *Poul. Sci.* 51:1764-1765.

KREITZER, J. F., AND J. W. SPANN.  
1968. Mortality among bobwhites confined to a heptachlor contaminated environment. *J. Wildl. Manage.* 32(4):874-878.

LAKIN, H. W., E. R. QUORTRUP, AND NEIL HOTCHKISS.  
1944. The relation of selenium to western duck sickness. *Auk* 61(3):415-420.

LAMONT, T. G., G. E. BAGLEY, AND W. L. REICHEL.  
1970. Residues of o,p'-DDD and o,p'-DDT in brown pelican eggs and mallard ducks. *Bull. Environ. Contam. Toxicol.* 5(3):231-236.

LAMONT, THAIR G., AND EUGENE CROMARTIE.  
1969. Interference from extraction thimbles in the gas chromatographic analysis of insecticides. *J. Chromatogr.* 39(3):325-326.

LAMONT, THAIR G., AND WILLIAM L. REICHEL.  
1970. Organochlorine pesticide residues in whooping cranes and everglade kites. *Auk* 87(1):158-159.

LEFEBVRE, PAUL W., AND JOHN L. SEUBERT.  
1970. Surfactants as blackbirds stressing agents. *Proc. Vertebr. Pest Conf.* 4:156-161.

LESSER, FREDERICK H., AND ALLEN R. STICKLEY, JR.  
1967. Occurrence of the saw-whet owl in Florida.  
*Auk* 84(3):425.

LINDUSKA, JOSEPH P.  
1947. The effects of DDT on wildlife. *The Shade Tree* 20(12):1-4.  
1947. Keeping tab on pheasants as part of management. *Mich. Conserv.* 16(8):8, 9, 14.  
1947. Highway censuses aid pheasant research. *Mich. Conserv.* 16(7):6, 7, 10.  
1949. More (expensive) quail through predator control. *Mo. Quail Hunter* 4(1):7, 11.  
1950. DDT: its effects on beneficial life. *Garden Club of Am. Bull.* 38(1):76-82.  
1952. Danger! A new killer stalks our fish and game. *Hunting and Fishing* 29(3):28-30.  
1952. Wildlife in a chemical world. *Audubon Mag.* 54(3):144-149, 190; 54(4):248-252.

LINDUSKA, JOSEPH P., AND ARTHUR W. LINDQUIST.  
1952. Some insect pests of wildlife. Pages 708-724 in Alfred Stefferud, ed. *Agric. Yearbook, Separate 2398.*

LINDUSKA, JOSEPH P., AND PAUL F. SPRINGER.  
1951. Chronic toxicity of some new insecticides to bobwhite quail. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 9. 11 pp.

LINDUSKA, JOSEPH P., AND EUGENE W. SURBER.  
1948. Effects of DDT and other insecticides on fish and wildlife: summary of investigations during 1947. *U.S. Fish Wildl. Serv., Circ.* 15. 19 pp.

LINDZEY, JAMES S.  
1960. Research on control of blackbird depredations. *Trans. North Am. Wildl. Nat. Resour. Conf.* 25: 116-121.  
1961. Food and cover modifications. Pages 30-32 in *Herbicides and their use in forestry. Forestry Symposium, Pennsylvania State University, University Park, Pa.*

LINEHAN, JOHN T.  
1957. Songbirds in living fences. *Soil Conserv.* 22 (10):233-234.  
1965. Twenty-ninth breeding-bird census. *Audubon Field Notes* 19(6):601-602, 619.  
1967. Delaware breeding records. *Delmarva Ornithol.* 4(1):12-15.  
1967. The passing scene. *Delmarva Ornithol.* 4(1): 6-8, 20-25.  
1967. Measuring bird damage to corn. *Proc. Vertebr. Pest Control Conf.* 3:50-56.  
1967. Banding Delaware birds. *Del. Conserv.* 11(4): 13-15.  
1967. Birds of the season—March, April, May 1967. *Atl. Nat.* 22(3):179-181.  
1967. Population changes in Delaware. *Delmarva Ornithol.* 4(1):1-5.  
1967. Operation recovery, 1966. *Delmarva Ornithol.* 4(1):39-42.  
1972. New birds in Delaware. *Del. Conserv.* 15(3 & 4): 15-16.

LINEHAN, JOHN T., ROBERT E. JONES, AND JERRY R. LONGCORE.  
1967. Breeding-bird populations in Delaware's urban woodlots. *Audubon Field Notes* 21(6):641-646.

LINEHAN, JOHN T., AND LEONARD M. LLEWELLYN.  
1957. An improved box trap for small game and furbearers. *U.S. Fish Wildl. Serv., Wildl. Leaflet* 386. 4 pp.

LLEWELLYN, LEONARD M.  
1942. Notes on the Alleghenian least weasel in Virginia. *J. Mammal.* 23(4):439-441.  
1943. The common pine snake in West Virginia. *Copeia* 1943(2):129.  
1949. White-crowned sparrows wintering in Maryland and West Virginia. *Auk* 66(1):96.  
1950. Reduction of mortality in live-trapping mice. *J. Wildl. Manage.* 14(1):84-85.  
1953. Growth rate of the raccoon fetus. *J. Wildl. Manage.* 17(3):320-321.

LLEWELLYN, LEONARD M., AND ROBERT K. ENDERS.  
1954. Ovulation in the raccoon. *J. Mammal.* 35(3): 440.  
1954. Trans-uterine migration in the raccoon. *J. Mammal.* 35(3):439.  
1955. Trans-uterine migration of blastocysts in the eastern skunk. *J. Mammal.* 36(3):459.

LLEWELLYN, LEONARD M., AND CHARLES O. HANDLEY.  
1945. The cottontail rabbits of Virginia. *J. Mammal.* 26(4):379-390.

LLEWELLYN, LEONARD M., AND FRANCIS M. UHLER.  
1952. The foods of fur animals of the Patuxent Research Refuge, Maryland. *Am. Midl. Nat.* 48(1): 193-203.

LLEWELLYN, LEONARD M., AND CLARK G. WEBSTER.  
1960. Raccoon predation on waterfowl. *Trans. North Am. Wildl. Nat. Resour. Conf.* 25:180-185.

LOCKE, LOUIS N.  
1961. Heron and egret losses due to verminous peritonitis. *Avian Dis.* 5(2):135-138.  
1961. Sparrow hawk feeding on dragonflies. *Condor* 63(4):342.  
1961. Pox in mourning doves in the United States. *J. Wildl. Manage.* 25(2):211-212.  
1961. The susceptibility of the cardinal, *Richmondena cardinalis* (L.), to *Trichomonas gallinae* from a mourning dove, *Zenaidura macroura* (L.). *J. Parasitol.* 47(1):76.  
1963. Multicentric neurofibrosarcoma in a Canada goose, *Branta canadensis*. *Avian Dis.* 7(2):196-202.  
1965. Pyrrhuloxia feeding on cactus fruits. *Condor* 67(2):90.  
1965. Additional records of aspergillosis among passerine birds in Maryland and the Washington, D.C., metropolitan area, Chesapeake Sci. 6(2):120-121.  
1971. Review of *Infectious and parasitic diseases of wild birds*, by John W. Davis, et al., *J. Wildl. Dis.* 7(4):339-340.  
1972. Accidental mortality of diving ducks at St. Mary's College, St. Mary's, Maryland. *Md. Birdlife* 28(1):25-26.  
1972. Review of *Veterinary clinical parasitology* by Margaret W. Sloss. *J. Wildl. Dis.* 8(1):108.

LOCKE, LOUIS N., AND GEORGE E. BAGLEY.  
 1967. Lead poisoning in a black duck. Bull. Wildl. Dis. Assoc. 3(1):37.

1967. Case report: coccidiosis and lead poisoning in Canada geese. Chesapeake Sci. 8(1):68-69.

1967. Lead poisoning in a sample of Maryland mourning doves. J. Wildl. Manage. 31(3):515-518.

LOCKE, LOUIS N., GEORGE E. BAGLEY, DONALD N. FRICKIE, AND LARRY T. YOUNG.  
 1969. Lead poisoning and aspergillosis in an Andean condor. J. Am. Vet. Med. Assoc. 155(7):1052-1056.

LOCKE, LOUIS N., GEORGE E. BAGLEY, AND HAROLD D. IRBY.  
 1966. Acid-fast intranuclear inclusion bodies in the kidneys of mallards fed lead shot. Bull. Wildl. Dis. Assoc. 2(4):127-131.

LOCKE, LOUIS N., GEORGE E. BAGLEY, AND LARRY T. YOUNG.  
 1967. The ineffectiveness of acid-fast inclusions in diagnosis of lead poisoning in Canada geese. Bull. Wildl. Dis. Assoc. 3(4):176.

LOCKE, LOUIS N., AND RICHARD C. BANKS.  
 1972. Avian cholera in cedar waxwings in Ohio. J. Wildl. Dis. 8(1):106.

LOCKE, LOUIS N., AND EMERSON E. BROWN.  
 1965. Occurrence of the fluke, *Prycystrema marsupiformis* Harkema and Miller, 1959, in a Maryland raccoon. J. Parasitol. 51(3):355.

LOCKE, LOUIS N., NICHOLAS J. CHURA, AND PAUL A. STEWART.  
 1966. Spermatogenesis in bald eagles experimentally fed a diet containing DDT. Condor 68(5):497-502.

LOCKE, L. N., J. B. DEWITT, C. M. MENZIE, AND J. A. KERWIN.  
 1964. A merganser die-off associated with larval *Eustrongylides*. Avian Dis. 8(3):420-427.

LOCKE, LOUIS N., AND CARLTON M. HERMAN.  
 1961. Trichomonas infection in mourning doves, *Zenaidura macroura*, in Maryland. Chesapeake Sci. 2(1-2):45-48.

LOCKE, LOUIS N., CARLTON M. HERMAN, AND ELMORE S. KING, JR.  
 1960. The need for differentiation of trichomoniasis and pox infection in doves. J. Wildl. Manage. 24(3):348.

1960. Case report—pox in mourning dove in Maryland. Avian Dis. 4(2):199-202.

LOCKE, L. N., H. D. IRBY, AND G. E. BAGLEY.  
 1967. Histopathology of mallards dosed with lead and selected substitute shot. Bull. Wildl. Dis. Assoc. 3(4):143-147.

LOCKE, LOUIS N., AND PAULINE JAMES.  
 1962. Trichomonad canker in the Inca dove, *Scardafella inca* (Lesson). J. Parasitol. 48(3):497.

LOCKE, LOUIS N., AND WILLIAM H. KIEL, JR.  
 1960. Isolation of *Trichomonas gallinae* from the white-winged dove, *Zenaida a. asiatica*. Proc. Helminthol. Soc. Wash. 27(2):128.

LOCKE, LOUIS N., AND JULIAN O. KNISLEY, JR.  
 1965. *Sarcocystis* in a yellowthroat and a rusty blackbird. Bull. Wildl. Dis. Assoc. 1(3):36.

LOCKE, LOUIS N., LOUIS LEIBOVITZ, CARLTON M. HERMAN, AND JOHN W. WALKER.  
 1969. Duck viral enteritis (duck plague) in North American waterfowl. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm. 22:96-98.

LOCKE, LOUIS N., AND FRANCES S. LOCKE.  
 1969. A winter record of the Wilson's warbler at the Patuxent Wildlife Research Center, Laurel, Maryland. Md. Birdlife 25(1):16.

LOCKE, LOUIS N., FRANCES S. LOCKE, AND DAVID H. REESE.  
 1961. Occurrence of *Trichomonas gallinae* in the ground dove, *Columbina passerina* (L.). J. Parasitol. 47(4):532.

LOCKE, LOUIS N., AND JOHN A. NEWMAN.  
 1970. Paratyphoid in a barn owl. Chesapeake Sci. 11(1):67-68.

LOCKE, L. N., J. A. NEWMAN, AND B. M. MULHERN.  
 1972. Avian cholera in a bald eagle from Ohio. Ohio J. Sci. 72(5):294-296.

LOCKE, LOUIS N., J. E. SCANLON, R. J. BYRNE, AND J. O. KNISLEY, JR.  
 1962. Occurrence of eastern encephalitis virus in house sparrows. Wilson Bull. 74(3):263-266.

LOCKE, LOUIS N., WILLIAM H. STICKEL, AND SHIRLEY A. GEIS.  
 1965. Some diseases and parasites of captive wood-cocks. J. Wildl. Manage. 29(1):156-161.

LOCKE, LOUIS N., VERNON STOTTS, AND GEORGE WOLF-HARD.  
 1970. An outbreak of fowl cholera in waterfowl on the Chesapeake Bay. J. Wildl. Dis. 6(4):404-407.

LOCKE, LOUIS N., WILLIS O. WIRTZ II, AND EMERSON E. BROWN.  
 1965. Pox infection and a secondary cutaneous mycosis in a red-tailed tropic bird (*Phaethon rubricauda*). Bull. Wildl. Dis. Assoc. 1(4):60-61.

LOCKE, L. N., AND L. T. YOUNG.  
 1967. Aspergillosis in a common loon (*Gavia immer*). Bull. Wildl. Dis. Assoc. 3(1):34-35.

LONGCORE, JERRY R.  
 1971. Thirty-fifth breeding-bird census: powerline right-of-way (Maryland). Am. Birds 25(6):997-999.

1972. The effects of certain pesticides on wildlife. Proc. Northeast Aerial Applic. Conf. (Cornell Univ. Ithaca, N.Y.) 8:86-95.

LONGCORE, J. R., ROBERT E. JONES, AND JOHN T. LINEHAN.  
 1966. Thirtieth breeding-bird census: mixed hardwood forest (Delaware). Audubon Field Notes 20(6):643.

LONGCORE, J. R., F. B. SAMSON, J. F. KREITZER, AND J. W. SPANN.  
 1971. Changes in mineral composition of eggshells from black ducks and mallards fed DDE in the diet. Bull. Environ. Contam. Toxicol. 6(4):345-350.

LONGCORE, J. R., F. B. SAMSON, AND T. W. WHITTEN-DALE, JR.

1971. DDE thins eggshells and lowers reproductive success of captive black ducks. *Bull. Environ. Contam. Toxicol.* 6(6):485-490.

LOW, SETH H.

1949. The migration of the pintail. Pages 13-16 in *Migration of some North American waterfowl*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 1. 49 pp.

1949. Migration of the green-winged teal. Pages 17-18 in *Migration of some North American waterfowl*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 1. 49 pp.

1949. Birds of the ponds and rivers. *Wood Thrush* 4(4):145-149.

1950. Red-winged blackbird fourteen years old. *Bird-Banding* 21(3):115.

1951. Bird banding. U.S. Fish Wildl. Serv., Wildl. Leafl. 235. 8 pp.

1951. Bird-banding in Maryland. *Md. Birdlife* 7(1): 21-22.

1952. Summary of Maryland Christmas bird counts (1950-51). *Md. Birdlife* 8(1):3-9.

1957. Banding with mist nets. *Bird-Banding* 28(3): 115-128.

1957. Waterfowl banding in the Canadian prairie provinces. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 36. 30 pp.

LOW, SETH H., AND CHANDLER S. ROBBINS.

1958. Report of state-wide bird count, May 3, 1958. *Md. Birdlife* 14(2):41-48.

LUMSDEN, R. D., D. E. ELLIS, AND JOHN L. SINCOCK.

1963. A survey of fungi associated with lesioned and chlorotic sago pondweed (*Potamogeton pectinatus*). *Plant Dis. Rep.* 47(7):689-693.

LYNCH, JOHN J.

1964. Weather. Pages 283-292 in *Joseph P. Lin duska, ed. Waterfowl tomorrow*. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

1968. Values of the South Atlantic and Gulf Coast marshes and estuaries to waterfowl. Pages 52-63 in *Proceedings of the Marsh and Estuary Management Symposium*, Louisiana State University, Baton Rouge.

LYNCH, JOHN J., CHARLES D. EVANS, AND V. C. CONOVER.

1963. Inventory of waterfowl environments of prairie Canada. *Trans. North Am. Wildl. Nat. Resour. Conf.* 28:98-108.

LYNCH, JOHN J., AND J. R. SINGLETON.

1964. Winter appraisals of annual productivity in geese and other water birds. Pages 114-126 in *Wildfowl Trust 15th Annu. Rep.* (Country Life Ltd., London.)

MALLETT, ROBERT D., FRED C. SIBLEY, W. DEAN CARRIER, AND JOHN C. BORNEMAN.

1970. California condor surveys, 1969. *Calif. Fish Game* 56(3):199-202.

MARTIN, ALEXANDER C.

1945. Instability in scientific names of plants. *Am. Midl. Nat.* 34(3):799-800.

1946. Ducks on your pond. *Sports Afield*, Sportsman's Club Bull. 1. 10 pp.

1946. Comparative internal morphology of seeds. *Am. Midl. Nat.* 36(3):513-660.

1947. Duck-food plants available from dealers. U.S. Fish Wildl. Serv., Wildl. Leafl. 278. 7 pp.

1948. Botany and our social economy. National Wildlife Federation, Washington, D.C. 30 pp.

1949. Procedures in wildlife food studies. U.S. Fish Wildl. Serv., Wildl. Leafl. 325. 10 pp.

1950. Literature references on waterfowl. U.S. Fish Wildl. Serv., Wildl. Leafl. 324. 10 pp.

1951. Identifying pondweed seeds eaten by ducks. *J. Wildl. Manage.* 15(3):253-258.

1953. Small only in size. *Sports Afield* 130(3):25-31.

1953. Improving duck marshes by weed control. U.S. Fish Wildl. Serv., Circ. 19. 49 pp.

1954. A clue to the eelgrass mystery. *Trans. North Am. Wildl. Conf.* 19:441-449.

1954. Identifying polygonum seeds. *J. Wildl. Manage.* 18(4):514-520.

1954. Marsh and aquatic weed problems in wildlife habitat. *Weeds* 3(2):139-142.

1954. Quality in large packages. *Sports Afield* 131(2): 23-29.

1955. Another waterchestnut infestation. *J. Wildl. Manage.* 19(4):504-505.

1955. Can insecticides and wildlife co-exist? *Agric. Chem.* 10(12):51-52.

MARTIN, ALEXANDER C., RAY C. ERICKSON, AND JOHN H. STEENIS.

1957. Improving duck marshes by weed control. U.S. Fish Wildl. Serv., Circ. 19 (revised). 60 pp.

MARTIN, A. C., R. H. GENSCHE, AND C. P. BROWN.

1946. Alternative methods in upland gamebird food analysis. *J. Wildl. Manage.* 10(1):8-12.

MARTIN, ALEXANDER C., NEIL HOTCHKISS, FRANCIS M. UHLER, AND WARREN S. BOURN.

1953. Classification of wetlands of the United States. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 20. 14 pp.

MARTIN, ALEXANDER C., AND ARNOLD L. NELSON.

1952. Every ounce counts. *Sports Afield* 128(3): 17-23.

MARTIN, A. C., AND F. M. UHLER.

1951. Food of game ducks in the United States and Canada. U.S. Fish Wildl. Serv., Res. Rep. 30. 308 pp. [Supersedes U.S. Dep. Agric., Tech. Bull. 634, same title and authors, 1939]

MARTIN, ALEXANDER C., HERBERT S. ZIM, AND ARNOLD L. NELSON.

1951. American wildlife and plants. McGraw-Hill, New York. 500 pp.

MATTESON, RAYMOND E.

1970. Bronzed cowbird taken in Florida. *Auk* 87(3): 588.

McCLURE, TED, RICHARD BURR, AND JACK LINEHAN.

1967. Winter bird population study: woodlot, red maple—tulip poplar. *Audubon Field Notes* 21(3): 464.

McGILVREY, FRANK B.

1966. Fall food habits of wood ducks from Lake Marion, South Carolina. *J. Wildl. Manage.* 30(1): 193-95.

1966. Fall food habits of ducks near Santee Refuge, South Carolina. *J. Wildl. Manage.* 30(3): 577-580.

1966. Second nestings of the wood duck. *Auk* 83(2): 303.

1966. Nesting of hooded mergansers on the Patuxent Wildlife Research Center, Laurel, Maryland. *Auk* 83(1):477-479.

1967. Food habits of sea ducks from the north-eastern United States. Pages 142-145 in *Wildfowl Trust 18th Annu. Rep.* (Country Life Ltd., London.)

1967. Effects of elimination of alligatorweed on certain aquatic plants and the value of these plants as waterfowl foods. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 18:73-79.

1968. Control of predators and competitors. Pages 149-156 in *The black duck, evaluation, management and research: a symposium*. Atlantic Waterfowl Council and Wildlife Management Institute, Washington, D.C.

1969. Survival in wood duck broods. *J. Wildl. Manage.* 33(1):73-76.

1971. Conditioning black ducks to nest in elevated cylinders. *Trans. Northeast. Sect. Wildl. Soc.* 28: 213-220.

1972. Increasing a wood duck nesting population by releases of pen-reared birds. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 25:202-206.

McGILVREY, FRANK B., compiler.

1968. A guide to wood duck production habitat requirements. *U.S. Bur. Sport Fish. Wildl., Resour. Publ.* 60. 32 pp.

McGILVREY, FRANK B., AND JOHN H. STEENIS.

1965. Control of alligatorweed in South Carolina with granular silvex. *Weeds* 13(1):66-68.

McGILVREY, FRANK B., AND FRANCIS M. UHLER.

1971. A starling-deterrant wood duck nest box. *J. Wildl. Manage.* 35(4):793-797.

MCCLANE, M. ANNE ROSS, AND LINDA C. HALL.

1972. DDE thins screech owl eggshells. *Bull. Environ. Contam. Toxicol.* 8(2):65-67.

MCCLANE, M. ANNE ROSS, LUCILLE F. STICKEL, AND JOHN D. NEWSOM.

1971. Organochlorine pesticide residues in woodcock, soils, and earthworms in Louisiana, 1965. *Pestic. Monit. J.* 5(3):248-250.

MEANLEY, BROOKE.

1957. Notes on the courtship behavior of the king rail. *Auk* 74 (4):433-440.

1958. Lark bunting, an addition to the Maryland list. *Md. Birdlife* 14(3):59.

1959. The North American tree ducks. *Atl. Nat.* 14(3):182-184.

1959. Notes on Bachman's sparrow in central Louisiana. *Auk* 76(2):232-234.

1960. Fall food of the sora rail in the Arkansas rice fields. *J. Wildl. Manage.* 24(3):339.

1960. Cooperative redwinged blackbird nestling banding program. *EBBA [East. Bird Banding Assoc.] News* 23(1):18.

1961. The king rail. *Md. Conserv.* 38(4):12-15.

1961. Late-summer food of red-winged blackbirds in a fresh tidal-river marsh. *Wilson Bull.* 73(1): 36-40.

1962. Pellet casting by king and clapper rails. *Auk* 79(1):113.

1962. Feeding behavior of the red-winged blackbird in the Dismal Swamp region in Virginia. *Wilson Bull.* 74(1):91-93.

1963. Nesting ecology and habits of the dickcissel on the Arkansas Grand Prairie. *Wilson Bull.* 75(3):280.

1963. Pre-nesting activity of the purple gallinule near Savannah, Ga. *Auk* 80(4):545-547.

1964. Origin, structure, molt, and dispersal of a late summer red-winged blackbird population. *Bird-Banding* 35(1):32-38.

1964. Aging and sexing blackbirds. *EBBA [Eastern Bird Banding Assoc.] News* 27(4):164-165.

1965. King and clapper rails of Broadway Meadows. *Del. Conserv.* 9(1):3-7.

1965. The roosting behavior of the red-winged blackbird in the Southern United States. *Wilson Bull.* 77(3):217-228.

1965. Early-fall food and habitat of the sora in the Patuxent River Marsh, Maryland. *Chesapeake Sci.* 6(4):235-237.

1966. Red-winged blackbirds searching beneath pine bark for insects in winter. *Auk* 83(3):480-481.

1966. Some observations on habitats of the Swainson's warbler. *Living Bird* 5:151-165.

1967. Champion cypress knees. *Atl. Nat.* 22(3): 159.

1968. Yellow-headed blackbird at the Patuxent Wildlife Research Center. *Atl. Nat.* 23(1):36.

1968. Singing behavior of the Swainson's warbler. *Wilson Bull.* 80(1):72-77.

1968. Notes on Dismal Swamp plants. *Atl. Nat.* 23(2): 78-82.

1968. Birds of the Great Dismal Swamp. *Atl. Nat.* 23(3):141-142.

1969. Swainson warbler in the Dismal Swamp. *Atl. Nat.* 24(4):204-205.

1969. Natural history of the king rail. *U.S. Fish Wildl. Serv., North Am. Fauna* 67. 108 pp.

1969. Pre-nesting and nesting behavior of the Swainson's warbler. *Wilson Bull.* 81(3):246-257.

1969. The wild camellia and dwarf trillium in the Great Dismal Swamp. *Atl. Nat.* 24(1):19-20.

1969. Notes on Dismal Swamp birds. *Raven* 40(3): 47-49.

1970. A million robins and 10,000 pine siskins in the Dismal Swamp. *Atl. Nat.* 25(1):40.

1970. Head-scratching method of the Swainson's warbler. *Auk* 87(1):163.

**MEANLEY, BROOKE.**

- 1970. The Wayne warbler in the Great Dismal Swamp. *Atl. Nat.* 25(3):116-117.
- 1970. Method of searching for food by the Swainson's warbler. *Wilson Bull.* 82(2):228.
- 1970. The Dismal Swamp—its flora and fauna. *Living Wilderness* 34 (112):34-37.
- 1971. Additional notes on pre-nesting and nesting behavior of the Swainson's warbler. *Wilson Bull.* 83(2):194.
- 1971. Blackbirds and the Southern rice crop. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 100. 64 pp.
- 1971. Great Dismal Swamp mammals. *Atl. Nat.* 26(1): 17-18.
- 1971. Natural history of the Swainson's warbler. U.S. Fish Wildl. Serv., North Am. Fauna 69. 90 pp.
- 1972. Swamps, riverbottoms, and canebrakes. Barre Publishers. Barre, Mass. 142 pp.

**MEANLEY, BROOKE, AND GORMAN M. BOND.**

- 1970. Molts and plumages of the red-winged blackbird with particular reference to fall migration. *Bird-Banding* 41(1):22-27.

**MEANLEY, BROOKE, AND ANNA GILKESEN MEANLEY.**

- 1958. Growth and development of the king rail. *Auk* 75(4):381-386.
- 1958. Post-copulatory display in fulvous and black-bellied tree ducks. *Auk* 75(1):96.
- 1959. Observations on the fulvous tree duck in Louisiana. *Wilson Bull.* 71(1):33-45.

**MEANLEY, BROOKE, AND ROBERT T. MITCHELL.**

- 1958. Food habits of Bachman's warbler. *Atl. Nat.* 13(4):236-238.
- 1960. Selected bibliography of the redwinged blackbird. U.S. Fish Wildl. Serv., Wildl. Leafl. 423. 8 pp.
- 1966. Selected bibliography on the red-winged blackbird. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 97. 12 pp.

**MEANLEY, BROOKE, AND FREDERICK C. SCHMID.**

- 1960. The bald eagle—will it survive? *Md. Conserv.* 37(2):4-7.

**MEANLEY, BROOKE, AND ROBERT E. STEWART.**

- 1960. Color of the tarsi and toes of the black rail. *Auk* 77(1):83-84.

**MEANLEY, BROOKE, AND JOHN S. WEBB.**

- 1960. Distribution of winter blackbird roosts east of the Appalachians. U.S. Fish Wildl. Serv., Wildl. Leafl. 428. 4 pp. (Also published in *Audubon Field Notes* 15(1):79-80, 1961)
- 1961. Distribution of winter red-winged blackbird populations on the Atlantic coast. *Bird-Banding* 32(2):94-97.
- 1963. Nesting ecology and reproductive rate of the red-winged blackbird in tidal marshes of the upper Chesapeake Bay region. *Chesapeake Sci.* 4(2): 90-100.
- 1965. Nationwide population estimates of blackbirds and starlings. *Atl. Nat.* 20(4):189-191.

**MEANLEY, BROOKE, JOHN S. WEBB, AND DON P. FANKHAUSER.**

- 1962. Cooperative redwing banding program. EBBA [East. Bird Banding Assoc.] News 25(2):47-48.

**MEANLEY, BROOKE, JOHN S. WEBB, DON P. FANKHAUSER, AND ROBERT T. MITCHELL.**

- 1962. The blackbird banding program of the Patuxent Wildlife Research Center. FBBA [East. Bird Banding Assoc.] News 25(3):117-121.

**MEANLEY, BROOKE, AND DAVID K. WETHERBEE.**

- 1962. Ecological notes on mixed populations of king rails and clapper rails in Delaware Bay marshes. *Auk* 79(2):453-457.

**MENZIE, CALVIN.**

- 1958. Determination of m-dinitrophenyl pesticides. *J. Agric. Food Chem.* 6(3):212-213.
- 1966. Metabolism of pesticides. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 96. 274 pp.

**MENZIE, CALVIN M., VYTO A. ADOMAITIS, AND WILLIAM L. REICHEL.**

- 1962. Determination of 2-isovaleryl-1, 3-indandione with 2,4-dinitrophenylhydrazine. *Anal. Chem.* 34 (4):516-518.

**MENZIE, C. M., AND R. M. PROUTY.**

- 1968. Gas chromatographic analysis of gamma-BHC, the cyclodienes, and DDT analogs. *J. Gas Chromatogr.* 6(1):64.

**MISKIMEN, MILDRED.**

- 1972. Red-winged blackbird movements on Lake Erie Islands. *Proc. Bird Control Seminar* (Bowling Green State Univ., Dep. Biol.) 5:177-180.

**MITCHELL, ROBERT T.**

- 1946. Effects of DDT spray on eggs and nestlings of birds. *J. Wildl. Manage.* 10(3):192-194.
- 1950. The genus *Acroricnus* in America (Hymenoptera, Ichneumonidae). *Ann. Entomol. Soc. Am.* 43(2):249-261.
- 1952. Consumption of spruce budworms by birds in a Maine spruce-fir forest. *J. For.* 50(5):387-389.
- 1954. The use of firecrackers to protect corn and other grains from birds in the Everglades area. *Atl. Coast Line Agric. Livest. Topics* 6(10):1-3.
- 1960. Management to avoid bird depredations. *Trans. North Am. Wildl. Nat. Resour. Corf.* 25:99-101.
- 1963. The floodlight trap—a device for capturing large numbers of blackbirds and starlings at roosts. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 77. 14 pp.
- 1964. Assembly and operation of the floodlight trap. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 77 (Suppl.). 6 pp.
- 1965. Review of *Butterflies of the San Francisco Bay region* by J. W. Tilden. *Bull. Entomol. Soc. of Am.* 11(2):102.

**MITCHELL, ROBERT T., HARRY P. BLAGBRUGH, AND ROBERT C. VAN ETEN.**

- 1953. The effects of DDT upon the survival and growth of nestling songbirds. *J. Wildl. Manage.* 17(1):45-54.

**MITCHELL, ROBERT T., AND JOHN T. LINTHAN.**

- 1957. Protecting corn from blackbirds. U.S. Fish Wildl. Serv., Wildl. Leafl. 385. 7 pp.

MITCHELL, ROBERT T., AND JOHN T. LINEHAN.  
 1967. Protecting corn from blackbirds. U.S. Fish Wildl. Serv., Wildl. Leafl. 476. 8 pp.

MITCHELL, ROBERT T., AND HERBERT S. ZIM.  
 1964. Butterflies and moths (A guide to the more common American species). A Golden Nature Guide. Golden Press, N. Y. 160 pp.

MOORE, WILLIAM H., AND FRANK M. JOHNSON.  
 1967. Nature of deer browsing on hardwood seedlings and sprouts. J. Wildl. Manage. 31(2):351-353.

MOORE, WILLIAM H., FRANK M. JOHNSON, JOHN OBERHEU, AND DONALD D. STRODE.  
 1964. Forage for deer. Wildl. in N.C. 28(7):14-15.

MORRIS, J. ANTHONY, AND DON R. COBURN.  
 1948. The isolation of *Salmonella typhimurium* from ferrets. J. Bacteriol. 55(3):419-420.  
 1949. Immunizing capacity of a lot of commercial mink distemper vaccine. J. Am. Vet. Med. Assoc. 115(871):259-260.

MORRIS, J. ANTHONY, DON R. COBURN, AND JOHN R. O'CONNOR.  
 1954. Rapid protection of ferrets against fully virulent distemper virus with nebulized attenuated distemper virus. Cornell Vet. 44(2):198-207.

MORRIS, J. ANTHONY, AND E. R. QUORTRUP.  
 1949. *Klebsiella ozaenae* infection of mink. J. Am. Vet. Med. Assoc. 111(844):50-51.

MOYLE, JOHN B., AND NEIL HOTCHKISS.  
 1945. The aquatic and marsh vegetation of Minnesota and its value to waterfowl. Minn. Dep. Conserv., Tech. Bull. 3. 122 pp.

MULHERN, BERNARD M.  
 1968. An improved method for the separation and removal of organochlorine insecticides from thin-layer plates. J. Chromatogr. 34(4):556-558.

MULHERN, BERNARD M., EUGENE CROMARTIE, WILLIAM L. REICHEL, AND ANDRE A. BELISLE.  
 1971. Semiquantitative determination of polychlorinated biphenyls in tissue samples by thin layer chromatography. J. Off. Anal. Chem. 54(3):548-550.

MULHERN, BERNARD M., AND WILLIAM L. REICHEL.  
 1970. The effect of putrefaction of eggs upon residue analysis of DDT and metabolites. Bull. Environ. Contam. Toxicol. 5(3):222-225.

MULHERN, B. M., W. L. REICHEL, L. N. LOCKE, T. G. LAMONT, A. BELISLE, E. CROMARTIE, G. E. BAGLEY, AND R. PROUTY.  
 1970. Organochlorine residues and autopsy data from bald eagles 1966-1968. Pestic. Monit. J. 4(3):141-144.

NELSON, ARNOLD L.  
 1959. The Patuxent Research Refuge. Bull. Med. Res. 13(1):16-29.

NELSON, ARNOLD L., CLARENCE COTTAM, AND W. S. BOURN.  
 1945. Red fox breeding in salt marsh. J. Mammal. 26(1):91-92.

NELSON, ARNOLD L., AND ALEXANDER C. MARTIN.  
 1953. Gamebird weights. J. Wildl. Manage. 17(1):36-42.

NELSON, ARNOLD L., AND EUGENE W. SURBER.  
 1947. DDT investigations by the Fish and Wildlife Service in 1946. U.S. Fish Wildl. Serv., Spec. Sci. Rep. 41. 8 pp.

NELSON, S. O., AND J. L. SEUBERT.  
 1966. Electromagnetic and sonic energy for pest control. Pages 135-166 in Scientific aspects of pest control. Natl. Acad. Sciences—Natl. Res. Council, Publ. 1402.

NESTLER, RALPH B.  
 1941. Delving into the mysteries of a game-bird's diet. Game Breeder and Sportsman 46(5):82-84.  
 1943. Germinated seed vs. ungerminated seed in diet of adult bobwhite quail. Poult. Sci. 22(3):227-229.  
 1943. Effect of large quantities of common salt in the diet of bobwhite quail. J. Wildl. Manage. 7(4):418-419.  
 1944. Corn substitutes in the diet of bobwhite chicks. Feedstuffs 16(30):18-24.  
 1945. Visceral gout a symptom of A-vitaminosis. J. Wildl. Manage. 9(3):255.  
 1945. Some recent publications on management and propagation of waterfowl. U.S. Fish Wildl. Serv., Wildl. Leafl. 267. 5 pp.  
 1945. Danger of creosote to pen-reared gamebirds. Game Breeder and Sportsman 50(4):45 and (5):58.  
 1946. Germination of seeds of some wild and cultivated plants after 5½ years of storage. J. For. 44(9):683-684.  
 1946. The potential value of islands for controlled field studies with upland game birds. J. Wildl. Manage. 10(3):239-241.  
 1946. Vitamin A, vital factor in the survival of bobwhite. Trans. North Am. Wildl. Conf. 11:176-195.  
 1946. The mechanical value of grit for bobwhite quail. J. Wildl. Manage. 10(2):137-142.  
 1946. Soybeans for bobwhites. Soybean Dig. 6(8):12-13.  
 1947. Gamebird propagation—its beginning, growth, and future. Pa. Game News 18(3):10-40.  
 1948. A factor in food that means life or death to quail. Iowa Conserv. 7(2):1, 15-16.  
 1948. Some publications on upland game birds. U.S. Fish Wildl. Serv., Wildl. Leafl. 265 (revised). 11 pp.  
 1949. The salt (sodium chloride) requirements of growing bobwhite quail. J. Wildl. Manage. 13(1):121-123.  
 1949. Supplements to yellow corn for winter-maintenance and subsequent reproduction of quail. J. Wildl. Manage. 13(13):123-126.  
 1949. Acceptance of seeds of four legumes by the bobwhite quail. J. Wildl. Manage. 13(1):143-144.  
 1949. Nutrition of bobwhite quail: Summary of nine years of research. J. Wildl. Manage. 13(4):342-358.

NESTLER, RALPH B., AND WOODROW W. BAILEY.  
 1941. Bobwhite quail propagation. U.S. Fish Wildl. Serv., Conserv. Bull. 10. 50 pp.  
 1941. The toxicity of *Crotalaria spectabilis* seed for quail. J. Wildl. Manage. 5(3):309-313.

NESTLER, RALPH B., AND WOODROW W. BAILEY.  
 1943. Vitamin A deficiency in quail. *J. Wildl. Manage.* 7(2):170-173.  
 1944. The sumac fruit as a food for bobwhite quail. *Am. Midl. Nat.* 31(3):689-696.  
 1945. Pheasant propagation. Pages 255-308 in W. L. McAtee, ed. *The ring-necked pheasant and its management in North America*. American Wildlife Institute, Washington, D.C.

NESTLER, RALPH B., W. W. BAILEY, L. M. LLEWELLYN, AND M. J. RENSBERGER.  
 1944. Winter protein requirements of bobwhite quail. *J. Wildl. Manage.* 8(3):218-222.

NESTLER, RALPH B., W. W. BAILEY, A. C. MARTIN, AND H. E. MCCLURE.  
 1945. Value of wild feedstuffs for pen-reared bobwhite quail in winter. *J. Wildl. Manage.* 9(2):115-120.

NESTLER, RALPH B., W. W. BAILEY, AND H. E. MCCLURE.  
 1942. Protein requirements of bobwhite chicks for survival, growth, and efficiency of feed utilization. *J. Wildl. Manage.* 6(3):185-193.

NESTLER, RALPH B., W. W. BAILEY, M. J. RENSBERGER, AND M. Y. BENNER.  
 1944. Protein requirements of breeding bobwhite quail. *J. Wildl. Manage.* 8(4):284-289.

NESTLER, RALPH B., W. W. BAILEY, AND WILLIAM D. WILLIAMS.  
 1944. A comparison of the five major cereals in the maintenance diet for bobwhite quail. *Game Breeder and Sportsman* 49(4):46-47.

NESTLER, RALPH B., DON R. COBURN, AND HARRY W. TITUS.  
 1945. Picking among pen-reared quail. *J. Wildl. Manage.* 9(2):105-115.

NESTLER, RALPH B., J. V. DERBY, AND J. B. DEWITT.  
 1948. Storage by bobwhite quail of vitamin A fed in various forms. *J. Nutr.* 36(2):323-329.  
 1949. Vitamin A and carotene contents of some wildlife foods. *J. Wildl. Manage.* 13(3):271-274.

NESTLER, RALPH B., J. B. DEWITT, AND J. V. DERBY, JR.  
 1949. Vitamin A storage in wild quail and its possible significance. *J. Wildl. Manage.* 13(3):265-271.

NESTLER, RALPH B., J. B. DEWITT, J. V. DERBY, AND M. MOSCHLER.  
 1948. Calcium and phosphorus requirements of bobwhite quail chicks. *J. Wildl. Manage.* 12(1):32-36.

NESTLER, RALPH B., AND JOHN R. LANGENBACH.  
 1946. Propagated quail versus wild quail as studied under laboratory conditions. *Pa. Game News* 16(10):6, 7, 22-23.

NESTLER, RALPH B., AND LEONARD LLEWELLYN.  
 1943. Polygamous mating of bobwhite quail kept in captivity. *Game Breeder and Sportsman* 48(1):2-3.  
 1944. Abnormal feathering of pen-reared bobwhites. *Poult. Sci.* 23(1):72-75.  
 1946. Milk by-products in the diet of bobwhite quail chicks. *Feedstuffs* 18(32):42-43.

NESTLER, RALPH B., LEONARD LLEWELLYN, AND MERRILL BENNER.  
 1944. Wartime diet for growing bobwhite quail. *J. Wildl. Manage.* 8(3):211-218.

NESTLER, RALPH B., L. M. LLEWELLYN, AND M. J. RENSBERGER.  
 1945. Comparison of animal and plant proteins for young pen-reared bobwhite quail. *J. Wildl. Manage.* 9(4):274-279.

NESTLER, RALPH B., AND ARNOLD L. NELSON.  
 1942. The industrial aspects of pheasant and quail propagation in North America for 1939-40. *Trans. North Am. Wildl. Conf.* 7:115-130.  
 1945. Inbreeding among pen-reared quail. *Auk* 62(2):217-222.

NESTLER, RALPH B., R. STOW, AND W. F. KAUFFMAN.  
 1946. More vitamin A must be incorporated in gamebird diets. *Feedstuffs* 18(29):34-37.

NESTLER, RALPH B., AND ALLAN T. STUDHOLME.  
 1943. New types of pens for bobwhite quail. *Pa. Game News* 14(9):14, 31.  
 1945. The future of pen-reared quail in post-war restocking programs. *Pa. Game News* 16(3):1, 26, 27, and 30.

ORESMAN, S., J. TIFFANY, AND C. S. ROBBINS.  
 1948. Twelfth breeding-bird census: damp deciduous scrub with numerous standing dead trees. *Audubon Field Notes* 2(6):226-227.

PAN, H. PING.  
 1971. Literature survey on general and comparative enzyme biochemistry of birds. *U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl.* 143. 70 pp.

PAN, H. P., AND J. W. CASLICK.  
 1966. Rapid dosing of food pellets in toxicological studies with birds. *Avian Dis.* 10(3):375-377.

PAN, H. P., J. W. CASLICK, D. T. HARKE, AND D. G. DECKER.  
 1965. A simple animal support for convenient weighing. *J. Wildl. Manage.* 29(4):890-891.

PATUXENT WILDLIFE RESEARCH CENTER.  
 1962. Indian backgrounds of the Patuxent Wildlife Research Center. *U.S. Fish Wildl. Serv., Circ.* 138. 8 pp.

PEEK, JAMES M.  
 1966. Chlordiazepoxide and pentobarbital as tranquilizers for cowbirds and *Coturnix* quail. *J. Am. Vet. Med. Assoc.* 149(7):950-952.

PETRIDES, GEORGE A., AND RALPH B. NESTLER.  
 1943. Age determination in juvenile bobwhite quail. *Am. Midl. Nat.* 30(3):774-782.

PORTER, RICHARD D., AND STANLEY N. WIEMEYER.  
 1969. Dieldrin and DDT: Effects on sparrow hawk eggshells and reproduction. *Science* 165(3889):199-200.  
 1970. Propagation of captive American kestrels. *J. Wildl. Manage.* 34(3):594-604.  
 1972. DDE at low dietary levels kills captive American kestrels. *Bull. Environ. Contam. Toxicol.* 8(4):193-199.  
 1972. Reproductive patterns in captive American kestrels (sparrow hawks). *Condor* 74(1):46-53.

**PROUTY, RICHARD M., AND EUGENE CROMARTIE.**

1970. Recovery of DDT and dieldrin from tissues of *Coturnix japonica* stepwise during residue analysis. *Environ. Sci. Technol.* 4(9):768-769.

**QUORTRUP, E. R.**

1946. An improved method of testing for botulinus toxin by the use of penicillin. *J. Am. Vet. Med. Assoc.* 109(834):214-215.

1946. Tumors of deer. *Va. Wildl.* 7(1):15, 18.

**QUORTRUP, E. R., AND J. E. SHILLINGER.**

1941. 3,000 wild bird autopsies on western lake areas. *J. Am. Vet. Med. Assoc.* 99(776):382-387.

**RALPH, C. JOHN, AND FRED C. SIBLEY.**

1970. A new method of capturing nocturnal alcids. *Bird-Banding* 41(2):124-127.

**REICHEL, WILLIAM L.**

1967. Effects of humidity in the laboratory on thin-layer chromatography of insecticides. *J. Chromatogr.* 26(1):304-306.

1972. PCB interference in pesticide residue analysis. Pages 403-412 in A. S. Tahori, ed. *Pesticide Chemistry IV*. Israel Science Services Inc., Jerusalem.

**REICHEL, W. L., AND C. E. ADDY.**

1968. A survey of chlorinated pesticide residues in black duck eggs. *Bull. Environ. Contam. Toxicol.* 3(3):174-179.

**REICHEL, WILLIAM L., EUGENE CROMARTIE, THAIR G. LAMONT, BERNARD M. MULHERN, AND RICHARD M. PROUTY.**

1969. Pesticide residues in eagles. *Pestic. Monit. J.* 3(3):142-144.

**REICHEL, W. L., T. G. LAMONT, E. CROMARTIE, AND L. N. LOCKE.**

1969. Residues in two bald eagles suspected of pesticide poisoning. *Bull. Environ. Contam. Toxicol.* 4(1):24-30.

**RIPLEY, THOMAS H., FRANK M. JOHNSON, AND WILLIAM H. MOORE.**

1963. A modification of the line intercept method of sampling understory vegetation. *J. Range Manage.* 16(1):9-11.

**RIPLEY, THOMAS H., FRANK M. JOHNSON, AND WILLIAM P. THOMAS.**

1960. A useful device for sampling understory woody vegetation. *J. Range Manage.* 13(5):262-263.

**ROBBINS, CHANDLER S.**

1946. The European widgeon in Maryland. *Md. Birdlife* 2(6):41.

1947. Open season, 1947. *Wood Thrush* 3(4):17-18.

1948. The season, November and December 1947. *Md. Birdlife* 4(1):1-2.

1948. Maryland Christmas bird counts, 1947. *Md. Birdlife* 4(1):3-9.

1948. Bird observers meet at Omaha. *Audubon Field Notes* 2(6):245.

1948. May Day regional census. *Wood Thrush* 3(10):70-75.

1948. Distribution and migration program of the Fish and Wildlife Service. *Passenger Pigeon* 10(4):150-151.

1949. State-wide bird count, May 7, 1949. *Md. Birdlife* 5(5):62-63.

1949. Wilson's warbler in Maryland in late December. *Auk* 66(2):207-208.

1949. Weather and bird migration. *Wood Thrush* 4(4):130-144.

1949. Winter bird-population study: damp deciduous scrub with standing dead trees. *Audubon Field Notes* 3(3):194-195.

1949. Migration of the redhead. Pages 25-28 in *Migration of some North American waterfowl*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 1.

1949. Distribution of North American birds. *Audubon Field Notes* 3(6):262-264.

1949. Summary of Maryland nest records, 1949. *Md. Birdlife* 5(4):41-48.

1949. The breeding distribution of the Virginia rail. *Audubon Field Notes* 3(5):238-239.

1949. Thirteenth breeding-bird census. *Audubon Field Notes* 3(6):257-261, 269.

1949. Review of *Birds' Nests—A Field Guide* by Richard Headstrom. *Wood Thrush* 5(2):85.

1949. The season. *Md. Birdlife* 5(1):8-10; (2):21-23; (3):30-32; (4):50-53; (5):56-58.

1950. The season. *Md. Birdlife* 6(1):12-15; (2):30-34; (3):38-43; (4):47-52; (5):55-58.

1950. Hawks over Maryland, fall of 1949. *Md. Birdlife* 6(1):2-11.

1950. Black vultures observed in western Pennsylvania. *Wilson Bull.* 62(1):36.

1950. Distribution of North American birds: Winter distribution of the sora. *Audubon Field Notes* 4(1):40.

1950. The changing seasons. *Audubon Field Notes* 4(4):231-233.

1950. Preliminary map showing the winter distribution of the king rail (*Rallus elegans elegans*). *Audubon Field Notes* 4(6):308.

1950. Preliminary map showing the winter distribution of the clapper rail (*Rallus longirostris* subsp.) in the United States. *Audubon Field Notes* 4(6):307.

1951. The season. *Md. Birdlife* 7(1):18-20; (2-5):38-40.

1951. The changing seasons, a summary of winter birdlife. *Audubon Field Notes* 5(3):191-192.

1951. Winter bird-population study: lightly grazed brackish marsh. *Audubon Field Notes* 5(3):236.

1952. The changing seasons, a summary of the winter season. *Audubon Field Notes* 6(3):183-185.

1952. The season. *Md. Birdlife* 8(1):12-15; (2-3):20-26; (4-5):44-48.

1952. Wilson's snipe wintering ground studies, 1950-51. Pages 47-49 in *Investigations of woodcock, snipe, and rails in 1951*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 14.

1952. Wilson's snipe breeding ground studies in Minnesota, 1951. Page 52 in *Investigations of woodcock, snipe, and rails in 1951*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 14.

ROBBINS, CHANDLER S.

1952. Wilson's snipe wintering ground studies, 1951-52. Pages 30-37 in *Investigations of woodcock, snipe, and rails in 1952*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 18.

1952. Wilson's snipe breeding ground studies in northern states in 1952. Page 52 in *Investigations of woodcock, snipe, and rails in 1952*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 18.

1952. Winnowing counts as a measure of Wilson's snipe breeding populations. Pages 44-51 in *Investigations of woodcock, snipe, and rails in 1952*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 18.

1953. The season. *Md. Birdlife* 9(1-3):5-10; (4-5): 24-32.

1953. The evening grosbeak in Maryland. *Md. Birdlife* 9(4-5):19-23.

1953. Winter bird population study: lightly grazed brackish marsh. *Audubon Field Notes* 7(3):249-250.

1954. Wilson's snipe wintering ground studies, 1952-53. Pages 51-56 in *Investigations of woodcock, snipe, and rails in 1953*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 24.

1954. Further investigations on winnowing method of measuring Wilson's snipe populations. Pages 61-65 in *Investigations of woodcock, snipe, and rails in 1953*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 24.

1954. The season. *Md. Birdlife* 10(1):11-16; (4):49-55.

1955. Wilson's snipe wintering ground studies, 1953-54. Pages 35-38 in *Investigations of woodcock, snipe, and rails in 1954*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 28.

1955. Distribution and abundance of the Wilson's snipe in western Canada. Pages 51-57 in *Investigations of woodcock, snipe, and rails in 1954*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 28.

1955. The season. *Md. Birdlife* 11(1):12-16; (3):35-42; (4):54-61.

1956. The changing seasons: A summary of the winter season. *Audubon Field Notes* 10(3):232-233.

1956. Hawk watch. *Atl. Nat.* 11(5):208-217.

1956. The season. *Md. Birdlife* 12(1):25-31; (2): 61-64; (3):87-91; (4):102-103.

1956. Report of state-wide bird count, May 5, 1956. *Md. Birdlife* 12(2):49-56.

1956. Wilson's snipe wintering ground studies, 1954-55. Pages 47-54 in *Investigations of woodcock, snipe, and rails in 1955*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 31.

1957. The season. *Md. Birdlife* 13(1):18-20; (2): 37-39; (3):53-58; (4):73-78.

1957. Wilson's snipe wintering ground studies, 1955-56. Pages 57-66 in *Investigations of woodcock, snipe, and rails in 1956*. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 34.

1958. Harris' sparrow wintering in Montgomery County, Maryland. *Md. Birdlife* 14(1):18.

1958. A look at Maryland's 1957 Christmas bird counts. *Md. Birdlife* 14(1):19-24.

1958. The season. *Md. Birdlife* 14(1):25-28; (2): 50-55; (3):72-79; (4):97-100.

1958. Wilson Ornithological Society features banding symposium at annual meeting. *The King* 2(16): 62-63.

1959. Scarcity of our winter birds. *Md. Birdlife* 15(1):34-35.

1960. The season. *Md. Birdlife* 16(3):71-77; (4): 92-97.

1960. Woodcock status report, 1960. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 50. 26 pp.

1960. Status of the bald eagle. U.S. Fish Wildl. Serv., Wildl. Leafl. 418. 8 pp.

ROBBINS, C. S., AND I. R. BARNES.

1949. Thirteenth breeding-bird census: red pine plantation. *Audubon Field Notes* 3(6):258.

ROBBINS, CHANDLER S., AND GEORGE F. BOYER.

1953. Seventeenth breeding-bird census: diked wet meadow. *Audubon Field Notes* 7(6):354-355.

ROBBINS, C. S., D. BRIDGE, AND R. FELLER.

1959. Relative abundance of adult male redstarts at an inland and coastal locality during fall migration. *Md. Birdlife* 15(1):23-25.

ROBBINS, CHANDLER S., AND ROYSTON R. RUDOLPH.

1952. Winter bird-population study: lightly grazed brackish marsh. *Audubon Field Notes* 6(3):226.

ROBBINS, CHANDLER S., PAUL F. SPRINGER, AND CLARK G. WEBSTER.

1951. Effects of five-year DDT application on breeding bird population. *J. Wildl. Manage.* 15(2): 213-216.

ROBBINS, C. S., AND R. E. STEWART.

1948. Maryland piping plover recorded in the Bahamas. *Bird-Banding* 19(2):73-74.

1949. Effects of DDT on bird populations of scrub forest. *J. Wildl. Manage.* 13(1):11-16.

1951. Fifteenth breeding-bird census. *Audubon Field Notes* 5(6):320-321, 325.

ROBBINS, CHANDLER S., ROBERT E. STEWART, AND MARTIN KARPLUS.

1947. Eleventh breeding-bird census: dry deciduous scrub. *Audubon Field Notes* 1(6):200-201.

ROSENE, WALTER, JR.

1949. Woodcock at sea. *Wilson Bull.* 61(4):225-236.

1950. Nesting doves in Iowa. *Iowa Bird Life* 20(2): 34-37.

1950. Spreading tendencies of multiflora rose in the Southeast. *J. Wildl. Manage.* 14(3):315-319.

1950. Quail studies on a river floodplain. *J. Soil Water Conserv.* 5(3):111-114.

1951. Frogs in a farm fishpond. *J. Wildl. Manage.* 15(3):333-334.

1951. Breeding bird populations of upland field borders. *J. Wildl. Manage.* 15(4):434-436.

1952. Care and maintenance of bicolor lespedeza. *Soil Conserv.* 17(7):151-153.

1953. Growing bicolor lespedeza in Southeastern States. U.S. Fish Wildl. Serv., Wildl. Leafl. 350. 3 pp.

1954. Nesting of the Carolina wren. *Ala. Birdlife* 2(3-4):23-25.

**ROSENE, WALTER, JR.**

- 1955. Bicolor as a rabbit food. *J. Wildl. Manage.* 19(2):324.
- 1955. Fire and game management. *S.C. Wildl.* 2(2): 4, 21-22. [Adapted from "The Use of Fire in Quail Management," by same author. Pages 9-11 in *Proc. Southeast. Assoc. Game Fish Comm.*, New Orleans, La., 1954.]
- 1955. Recommendations for the culture of *lespedeza bicolor*. *J. Wildl. Manage.* 19(1):84-88.
- 1956. Management techniques which encourage bobwhite quail to nest. Pages 126-128 in *Proc. Southeast. Assoc. Game Fish Comm. Meet.*, Oct. 2-5, 1955. (Daytona Beach, Fla.)
- 1956. An appraisal of bicolor *lespedeza* in quail management. *J. Wildl. Manage.* 20(2):104-110.
- 1957. A summer whistling cock count of bobwhite quail as an index to wintering populations. *J. Wildl. Manage.* 21(2):153-158.
- 1965. Effects of field applications of heptachlor on bobwhite quail and other wild animals. *J. Wildl. Manage.* 29(3):554-580.

**ROSENE, WALTER, JR., AND FRANK FITCH, JR.**

- 1956. A comparative test of the investigator as a variable in aging quail. *J. Wildl. Manage.* 20(2): 205-207.

**ROSENE, WALTER, JR., AND DANIEL W. LAY.**

- 1963. Disappearance and visibility of quail remains. *J. Wildl. Manage.* 27(1):139-142.

**ROSENE, WALTER, JR., PAUL A. STEWART, AND VYTO A. ADOMAITIS.**

- 1961. Residues of heptachlor epoxide in wild animals. *Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm.* 15:107-113.

**SAMSON, F. B., AND J. R. LONGCORE.**

- 1971. Stilts nest at Little Creek. *Atl. Nat.* 26(1): 37-38.

**SARVELLA, PATRICIA, AND EUGENE KNOEDER.**

- 1967. Chromosomes of sandhill cranes. *Genetics* 56 (3):586, (Abstr.)

**SAUNDERS, GEORGE B.**

- 1959. "Mississippi Flyway" waterfowl in Mexico. *Naturalist* 10(1):13-18.
- 1959. La paloma de alas blancas en las Americas. Pages 414-422 in *Memoranda de la Segunda Convencion Nacional Forestal*, Departamento de Divulgacion y Propaganda de la Subsecretaria de Recursos Forestales, Mexico, D.F., 1959.
- 1964. South of the border. Pages 253-262 in *Joseph P. Linduska, ed. Waterfowl tomorrow. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.*
- 1968. Seven new white-winged doves from Mexico, Central America, and Southwestern United States. *U.S. Fish Wildl. Serv., North Am. Fauna* 65. 30 pp.

**SAUNDERS, GEORGE B., AND EUGENIE CLARK.**

- 1962. Yellow-billed cuckoo in stomach of tiger shark. *Auk* 79(1):118.

**SAUNDERS, GEORGE B., PIERCE B. UZZELL, STEVE GALLIZIOLI, WILLIAM H. KIEL, JR., JOHNSON A. NEFF, AND JOHN STAIR, co-authors.**

- 1968. Whitewings: the life history, status and management of the white-winged dove (Clarence Cottam and James B. Trefethen, eds.). *D. Van Nostrand Co., Princeton, N.J.* 348 pp.

**SCHEFFER, THEODORE, AND NEIL HOTCHKISS.**

- 1945. Plant-food resources for waterfowl in the Pacific Northwest. *Wash. Dep. Game Biol. Bull.* 7. 39 pp.

**SCHMID, FREDERICK C.**

- 1958. Cedar waxwings and fox sparrow feed upon *multiflora* rose. *Wilson Bull.* 70(2):194-195.
- 1960. Banding record of Harris' sparrow in Maryland. *Md. Birdlife* 16(1):11.
- 1963. Record longevity of a wild red-shouldered hawk. *Bird-Banding* 34(3):160.
- 1966. The status of the osprey in Cape May County, New Jersey, between 1939 and 1963. *Chesapeake Sci.* 7(4):220-223.

**SCOTT, ROBERT F.**

- 1965. Problems of *multiflora* rose spread and control. *Trans. North Am. Wildl. Nat. Resour. Conf.* 30:360-378.

**SEUBERT, JOHN L.**

- 1963. Research on methods of trapping the red-winged blackbird (*Agelaius phoeniceus*). *Angew. Ornithol.* 1(3-4):163-170.
- 1964. Highlights of bird control research in England, France, Holland, and Germany. *Proc. Vertebr. Pest Control Conf.* 2:150-159.
- 1964. Technique against bird armies. *Das Tier*, no. 5:46-47.
- 1965. Biological studies of the problem of bird hazard to aircraft. Pages 143-171 in *Rene-Guy Busnel and Jacques Giban, [eds.]. [Proceedings] Colloque le Problème des Oiseaux sur les Aérodromes (Nice, France, 1963). Institut National de la Recherche Agronomique.*
- 1967. What's being done about blackbird control at the Bureau of Sport Fisheries and Wildlife Research Center Eastern Branches? Pages 42-45 in *Proceedings, North American Conference on Blackbird Depredation in Agriculture*, Columbus, Ohio.

**SHAH, KEERTI V., G. B. SCHALLER, VAGN FLYGER, AND CARLTON M. HERMAN.**

- 1965. Antibodies to *Myxovirus parainfluenza 3* in sera of wild deer. *Bull. Wildl. Dis. Assoc.* 1(3): 31-32.

**SHILLINGER, J. E., AND L. C. MORLEY.**

- 1941. Diseases of upland game birds (part 5). *Game Breeder and Sportsman* 46(9):170-171, 179.
- 1942. Diseases of upland game birds. *U.S. Dep. Inter., Conserv. Bull.* 21. 32 pp.

**SIBLEY, FRED C., ROBERT D. MALLETT, JOHN C. BORNEMAN, AND RAYMOND S. DALEN.**

- 1968. Third cooperative survey of the California condor. *Calif. Fish Game* 54(4):297-303.
- 1969. California condor surveys, 1968. *Calif. Fish Game* 55(4):298-306.

SINCOCK, JOHN L.

1968. Common faults of management. Pages 222-226 in Proceedings of the Marsh and Estuary Management Symposium, Louisiana State University, Baton Rouge.

1969. Rediscovery of the nesting grounds of the Newell's shearwater (*Puffinus puffinus newelli*) and initial observations. *Condor* 71(1):69-71.

SINCOCK, JOHN L., MORTON M. SMITH, AND JOHN J. LYNCH.

1964. Ducks in Dixie. Pages 99-106 in Joseph P. Linduska, ed. Waterfowl tomorrow. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

SLADEN, WILLIAM L., CALVIN M. MENZIE, AND WILLIAM L. REICHEL.

1966. DDT residues in Adelie penguins and a crab-eater seal from Antarctica: ecological implications. *Nature (Lond.)* 210(5037):670-673.

SLAVIK, WALTER, AND F. M. UHLER.

1951. The Potomac Basin:3. Where are the ducks? *Atl. Nat.* 6(4):143-150.

SPANN, J. W., R. G. HEATH, J. F. KREITZER, AND L. N. LOCKE.

1972. Ethyl mercury p-toluene sulfonanilide: lethal and reproductive effects on pheasants. *Science* 175(4019):328-331.

SPRINGER, PAUL F.

1955. Plant pesticides and wildlife. Pages 101-116 in 1955 Pesticide Handbook. Pesticide School, N.C. State Coll., Raleigh.

1956. Insecticides/Boon or bane? *Audubon Mag.* 58(3):128-130; 58(4):176-178.

1957. DDT: its effects on wildlife. *Passenger Pigeon* 19(4):156-161.

1957. Effects of herbicides and fungicides on wildlife. Pages 87-106 in North Carolina Pesticide Manual. North Carolina State College, Raleigh.

1958. Mosquito control and wildlife. *Wildl. in N.C.* 22(6):14-16.

1958. Mosquito control and wildlife management. *Proc. Annu. Conf. Ill. Mosq. Control Assoc.* 4: 55-62.

1961. Relationship of mosquito control to conservation. *Proc. and Pap. Annu. Conf. Cal. Mosq. Control Assoc.* 29:83-85. (In conjunction with 18th Annu. Meet. Am. Mosq. Control Assoc., Anaheim, Calif.)

1962. Recent developments in the use of pesticides, interests of fish and wildlife agencies. *Summ. Bienn. Public Health Vector Control Conf.* 4: 91-94.

1963. Fish and Wildlife aspects of chemical mosquito control. *Proc. Annu. Meet. N.J. Mosq. Exterm. Assoc.* 50:194-206. (In conjunction with 19th Annu. Meet. Am. Mosq. Control Assoc., Atlantic City, N.J.)

1963. Wildlife management concepts compatible with mosquito suppression. Pages 31-39 in Proceedings of the Conference on Wildlife Management and Mosquito Suppression, Yosemite National Park.

SPRINGER, PAUL F., AND RICHARD F. IERSIE, JR.

1956. Studies on mosquito breeding in natural and impounded coastal salt marshes in Delaware during 1955. *Proc. Annu. Meet. N.J. Mosq. Exterm. Assoc.* 43:74-79.

SPRINGER, PAUL F. AND ROBERT E. STEWART.

1948. Twelfth breeding-bird census. *Audubon Field Notes* 2(6):223-229, 239-241.

1950. Gadwall nesting in Maryland. *Auk* 67(2): 234-235.

SPRINGER, PAUL F., AND ROBERT L. VANNOTE.

1961. Activities of the National Mosquito Control-Fish and Wildlife Management Coordination Committee. *Mosq. News* 21(2):158-160.

SPRINGER, PAUL F., ROBERT L. VANNOTE, K. D. QUARTERMAN, A. W. LINDQUIST, E. A. SEAMAN, AND I. N. GABRIELSON.

1962. Report of the National Mosquito Control-Fish and Wildlife Management Coordination Committee for 1961. *Proc. Pap. Annu. Conf. Calif. Mosq. Control Assoc.* 13:19-20. (Also in *Proc. Annu. Meet. Utah Mosq. Abatement Assoc.* 15:21-22.)

SPRINGER, PAUL F., AND JOHN R. WEBSTER.

1951. Biological effects of DDT applications on tidal salt marshes. *Mosq. News* 11(2):67-74. (Also in *Trans. North Am. Wildl. Conf.* 16:383-396.)

1951. Effects of DDT on saltmarsh wildlife. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 10. 24 pp.

STABLER, ROBERT M., AND CARLTON M. HERMAN.

1951. Upper digestive tract trichomoniasis in mourning doves and other birds. *Trans. North Am. Wildl. Conf.* 16:145-162.

STAMM, DONALD D., DAVID E. DAVIS, AND CHANDLER S. ROBBINS.

1960. A method of studying wild bird populations by mist-netting and banding. *Bird-Banding* 31(3): 115-130.

STEENIS, JOHN H.

1950. Waterfowl habitat improvement on Reelfoot Lake. *J. Tenn. Acad. Sci.* 25(1):56-64.

1950. Waterfowl habitat management in the Tennessee Valley. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 7. 14 pp.

1950. Studies on the use of herbicides for improving waterfowl habitat in western Kentucky and Tennessee. *J. Wildl. Manage.* 14(2):162-169.

1952. Plastic neck-bands on Canada geese. EBBA [East. Bird Banding Assoc.] New 15(5):4-5.

1955. Weed control in marshes. *Proc. Northeast. Weed Control Conf.* 9:513-517.

1961. Aquatic weed control. Pages 33-38 in Herbicides and their use in forestry. *Forestry Symposium, Pennsylvania State University, University Park, Pa.*

1963. Relation of screening to field testing in development of plant control methods. *Proc. Northeast. Weed Control Conf.* 17:439-442.

1971. Aquatic weed problems in estuarine areas. *Hyacinth Control J.* 9(1):25-26.

STEENIS, JOHN H., compiler.

1961. Report of the research coordinating committee-aquatics. Proc. Northeast. Weed Control Conf. (Supplement) 15:63-68.

STEENIS, JOHN H., EDWIN W. BALL, VERNON D. STOTTS, AND CHARLES K. RAWLS.

1968. Pest plant control with herbicides. Pages 140-148 in Proceedings of the Marsh and Estuary Management Symposium, Louisiana State University, Baton Rouge.

STEENIS, J. H., EVERETT B. CHAMBERLAIN, AND ROBERT A. BECK.

1959. Recent developments in phragmites control. Proc. Northeast. Weed Control Conf. 13:293-298.

STEENIS, JOHN H., AND FRANK B. McGILVREY, JR.

1961. Environmental factors affecting the control of alligatorweed. Proc. South. Weed Conf. 14: 289-292.

STEENIS, JOHN H., AND R. T. MITCHELL.

1950. Leaf beetle versus lotus. J. Wildl. Manage. 14(4):478.

STEENIS, JOHN H., AND VERNON D. STOTTS.

1961. Progress report on control of Eurasian watermilfoil in Chesapeake Bay, Proc. Northeast. Weed Control Conf. 15:566-570.

1965. Tidal dispersal of herbicides to control Eurasian watermilfoil in the Chesapeake Bay, Proc. South. Weed Conf. 18:507-511.

1966. Recent tests on waterchestnut control. Proc. Northeast. Weed Conf. 20:476-479.

STEENIS, JOHN H., VERNON D. STOTTS, AND CHARLES GILLETTE.

1962. Observations on distribution and control of Eurasian watermilfoil in Chesapeake Bay, 1961. Proc. Northeast. Weed Control Conf. 16:442-448.

STEENIS, JOHN H., AND JOHN WARREN.

1959. Management of needlerush for improving waterfowl habitat in Maryland. Proc. Southeast. Assoc. Game Fish Comm. 18:296-298.

STEPHENSON, JAMES D., AND GLEN SMART.

1972. Egg measurements for three endangered species. Auk 89(1):191-192.

STEWART, PAUL A.

1962. Nesting attentiveness and incubation period of a wood duck. Bird-Banding 33(2):85-89.

1962. "Like corn in a popper"—wood ducks leaving the nest. Animal Kingdom 64(6):178-183.

1963. Abnormalities among brown-headed cowbirds trapped in Alabama. Bird-Banding 34(4):199-202.

STEWART, ROBERT E.

1942. Winter birds of the Patuxent Research Refuge. Md. Conserv. 19(4):10-11, 26-29.

1943. A comparative study of the breeding bird population of Shenandoah Mountains, Va. Auk 60(3):388-396.

1944. Food habits of blue grouse. Condor 46(3): 112-120.

1946. Birds of the bays and estuaries. Wood Thrush 2(3):12-13.

1947. The distribution of Maryland birds. Md. Birdlife 3(4):55-57 and (5):71-73.

1948. The ecological distribution of birds. Md. Nat. 18(2):23-29.

1949. Birds of the marshes. Wood Thrush 4(3): 92-99.

1949. Ecology of a nesting red-shouldered hawk population. Wilson Bull. 61(1):26-35.

1949. The distribution of Maryland birds. Md. Birdlife 5(1):2.

1949. Distribution and migration of canvas-back populations. Pages 32-36 in Migration of some North American waterfowl. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 1.

1951. Marshes. Pages 35-42 in Where birds live; habitats in the Middle Atlantic States. Audubon Society of the District of Columbia.

1951. Bays and estuaries. Pages 48-50 in Where birds live; habitats in the Middle Atlantic States. Audubon Society of the District of Columbia.

1951. Clapper rail populations of the Middle Atlantic States. Trans. North Am. Wildl. Conf. 16:421-430.

1952. Census of woodcock breeding populations in vicinity of Patuxent Refuge, Md. in 1951. Page 29 in Investigations of woodcock, snipe, and rails in 1951. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 14.

1952. Clapper rail studies 1951. Pages 56-58 in Investigations of woodcock, snipe, and rails in 1951. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 14.

1952. Breeding population of clapper rails at Chincoteague, Virginia—1952. Page 55 in Investigations of woodcock, snipe, and rails in 1952. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 18.

1952. Molting of northern yellow-throat in southern Michigan. Auk 69(1):50-59.

1953. A life history study of the yellow-throat. Wilson Bull. 65 (2):99-115.

1954. Migratory movements of the northern clapper rail. Bird-Banding 25(1):1-5.

1955. Nineteenth breeding-bird census. Virgin bottomland white spruce forest. Audubon Field Notes 9(6):415-416.

1955. Nineteenth breeding-bird census. Virgin upland white spruce forest. Audubon Field Notes 9(6):416.

1955. Notes on behavior of ruffed grouse broods in Virginia. Atl. Nat. 10(3):120-123.

1956. Ecological study of ruffed grouse broods in Virginia. Auk 73(1):33-41.

1956. Gadwall breeding in Dorchester County. Md. Birdlife 12(3):86.

1957. Eastern glossy ibis nesting in southeastern Maryland. Auk 74(4):509.

1958. Distribution of the black duck. U.S. Fish Wildl. Serv., Circ. 51. 8 pp.

1958. Nesting of the red-cockaded woodpecker in Maryland. Md. Birdlife 14(3):63-64.

1958. Recent breeding records of birds in Maryland. Atl. Nat. 13 (4):246-247.

STEWART, ROBERT E., AND JOHN W. ALDRICH.

1949. Breeding bird populations in the spruce region of the Central Appalachians. Ecology 30(1): 75-82.

**STEWART, ROBERT E., AND JOHN W. ALDRICH.**

- 1950. A selected bibliography of ecological life history material on North American birds. *Ecology* 31 (3):469-471.
- 1951. Removal and repopulation of breeding birds in a spruce-fir forest community. *Auk* 68(4):471-482.
- 1952. Ecological studies of breeding bird populations in northern Maine. *Ecology* 33(2):226-238.
- 1956. Distinction of maritime and prairie populations of blue-winged teal. *Proc. Biol. Soc. Wash.* 69: 29-36.

**STEWART, ROBERT E., JAMES B. COPE, AND CHANDLER S. ROBBINS.**

- 1945. Live trapping of hawks and owls. *J. Wildl. Manage.* 9(2):99-104.

**STEWART, ROBERT E., JAMES B. COPE, C. S. ROBBINS, AND JOHN W. BRAINERD.**

- 1946. Effects of DDT on birds at the Patuxent Research Refuge. *J. Wildl. Manage.* 10(3):195-201.
- 1952. Seasonal distribution of bird populations at the Patuxent Research Refuge. *Am. Midl. Nat.* 47(2):257-363.

**STEWART, ROBERT E., AELRED GEIS, AND CHARLES EVANS.**

- 1958. Distribution of populations and hunting kill of the canvasback. *J. Wildl. Manage.* 22(4): 333-370.

**STEWART, R. E., M. KARPLUS, AND C. S. ROBBINS.**

- 1947. Eleventh breeding-bird census: damp deciduous scrub with numerous standing dead trees. *Audubon Field Notes* 1(6):200.

**STEWART, ROBERT E., AND JOSEPH H. MANNING.**

- 1958. Distribution and ecology of whistling swans in the Chesapeake Bay region. *Auk* 75(2):203-212.

**STEWART, ROBERT E., AND BROOKE MEANLEY.**

- 1943. Bachman's sparrow in Maryland. *Auk* 60(4): 605-606.
- 1960. Clutch size of the clapper rail. *Auk* 77(2): 221-222.

**STEWART, ROBERT E., AND CHANDLER S. ROBBINS.**

- 1947. Recent observations on Maryland birds. *Auk* 64(2):266-274.
- 1947. Eleventh breeding-bird census: virgin central hardwood deciduous forest. *Audubon Field Notes* 1(6):211-212.
- 1951. Fifteenth breeding-bird census: lightly grazed pasture. *Audubon Field Notes* 5(6):326-327.
- 1951. Fifteenth breeding-bird census: virgin spruce-hemlock bog forest. *Audubon Field Notes* 5(6): 317-318.
- 1951. Maryland and the District of Columbia. Pages 215-241 in Olin Sewell Pettingill, Jr., ed. *A guide to bird finding east of the Mississippi*. Oxford Univ. Press, New York.
- 1958. Birds of Maryland and the District of Columbia. U.S. Fish Wildl. Serv., North Am. Fauna 62. 401 pp.

**STEWART, ROBERT E., AND CLARK G. WEBSTER.**

- 1951. Fifteenth breeding-bird census: young spruce-fir forest. *Audubon Field Notes* 5(6):316-317.

**STICKEL, LUCILLE F.**

- 1946. Experimental analysis of methods for measuring small mammal populations. *J. Wildl. Manage.* 10(2):150-159.
- 1946. Field studies of a *Peromyscus* population in an area treated with DDT. *J. Wildl. Manage.* 10(3):216-218.
- 1946. The source of animals moving into a depopulated area. *J. Mammal.* 27(4):301-307.
- 1948. The trap line as a measure of small mammal populations. *J. Wildl. Manage.* 12(2):154-161.
- 1948. The effect of bait in live trapping *Peromyscus*. *J. Wildl. Manage.* 12(2):211-212.
- 1948. Observations on the effect of flood on animals. *Ecology* 29 (4):505-507.
- 1949. An experiment on *Peromyscus* homing. *Am. Midl. Nat.* 41(3):659-664.
- 1950. Populations and home range relationship of the box turtle, *Terrapene c. carolina* (Linnaeus). *Ecol. Monogr.* 20(4):351-378.
- 1951. Wood mouse and box turt'e populations in an area treated annually with DDT for five years. *J. Wildl. Manage.* 15(2):161-164.
- 1954. A comparison of certain methods of measuring ranges of small mammals. *J. Mammal.* 35(1):1-15.
- 1960. *Peromyscus* ranges at high and low population densities. *J. Mammal.* 41(4):433-441.
- 1964. Wildlife Studies, Patuxent Wildlife Research Center. Pages 77-115 in *Pesticide-Wildlife Studies, 1963: a review of Fish and Wildlife Service investigations during the calendar year*. U.S. Fish Wildl. Serv., Circ. 199.
- 1965. A method of approximating range size of small mammals. *J. Mammal.* 46(4):677-679.
- 1968. Home range and travels. Pages 373-411 in *Biology of *Peromyscus* (Rodentia)*. American Society of Mammalogists, Spec. Publ. 2.
- 1968. Organochlorine pesticides in the environment. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Wildl. 119. 32 pp.
- 1968. Environmental pollution. Pages 120-125 in *Black duck, evaluation, management and research: a symposium*. Atlantic Waterfowl Council and Wildlife Management Institute, Washington, D.C.
- 1972. Biological data on PCBs in animals other than man. Pages 158-172 in *Polychlorinated biphenyls and the environment*, by Interdepartmental Task Force on PCBs, Washington. National Technical Information Service, Springfield, Va., Accession No. COM-72-10419.

**STICKEL, LUCILLE F., compiler.**

- 1957. *Wildlife Abstracts, 1952-55*. U.S. Bur. Sport Fish. Wildl. 321 pp.

**STICKEL, L. F., N. J. CHURA, P. A. STEWART, C. M. MENZIE, R. M. PROUTY, AND W. L. REICHEL.**

- 1966. Bald eagle pesticide relations. *Trans. North Am. Wildl. Nat. Resour. Conf.* 31:191-200.

**STICKEL, LUCILLE F., AND EUGENE H. DUSTMAN.**

- 1972. Measuring the impact of pesticides on the ecology. *Pollut. Abstr.* 3(4):4-7.

STICKEL, L. F., AND R. G. HEATH.

1965. Wildlife Studies, Patuxent Wildlife Research Center. Pages 3-30 in Effects of pesticides on fish and wildlife. U.S. Fish Wildl. Serv., Circ. 226.

STICKEL, LUCILLE F., AND LEON I. RHODES.

1970. The thin eggshell problem. Pages 31-35 in James W. Gillett, ed. Proceedings of the Symposium on the biological impact of pesticides in the environment. Environmental Health Sciences Series No. 1, Oregon State Univ.

STICKEL, LUCILLE F., AND PAUL F. SPRINGER.

1957. Pesticides and wildlife. U.S. Fish Wildl. Serv., Wildl. Leafl. 392. 12 pp.

STICKEL, LUCILLE F., AND WILLIAM H. STICKEL.

1949. A *Sigmodon* and *Baiomys* population in ungrazed and unburned Texas prairie. J. Mammal. 30(2):141-150.

1969. Distribution of DDT residues in tissues of birds in relation to mortality, body condition, and time. Ind. Med. Surg. 38(3):44-53.

1972. Los plaguicidas y la contaminacion del medio ambiente Venezolano. Contribucion al Estudio Especial La Agricultura y la Contaminacion del Medio Ambiente de Venezuela. Consejo d Bienestar Rural, Caracas. 74 pp.

STICKEL, L. F., W. H. STICKEL, AND R. CHRISTENSEN.

1966. Residues of DDT in brains and bodies of birds that died on dosage and in survivors. Science 151(3717): 1549-1551.

STICKEL, LUCILLE F., AND OSCAR WARBACH.

1960. Small-mammal populations of a Maryland woodlot, 1949-1954. Ecology 41(2):269-286.

STICKEL, WILLIAM H.

1941. The subspecies of the spade-nosed snake, *Sonora occipitalis*. Bull. Chic. Acad. Sci. 6(7): 135-140.

1942. A partially scaleless garter-snake. Copeia 942 (3):181.

1943. The Mexican snakes of the genera *Sonora* and *Chionactis* with notes on the status of other *Colubrid* genera. Proc. Biol. Soc. Wash. 56:109-128.

1944. A simple and effective lizard snare. Copeia 1944(4):251-252.

1951. Distinctions between the snake genera *Contia* and *Eirenis*. Herpetologica 7(3):125-131.

1951. Occurrence and identification of the prairie deer-mouse in central Maryland. Proc. Biol. Soc. Wash. 64:25-31.

1952. Venomous snakes of the United States and treatment of their bites. U.S. Fish Wildl. Serv., Wildl. Leafl. 339. 29 pp.

1953. Control of snakes. U.S. Fish Wildl. Serv., Wildl. Leafl. 345. 8 pp.

1957. Review of *The mammals of Shenandoah National Park* by R. H. Manville. J. Wildl. Manage. 21(1):112.

1967. Wildlife, pesticides, and mosquito control. Pages 71-80 in Proceedings Northeastern Conference on Mosquito Suppression and Wildlife Manage-

ment (also published in Mass. Audubon 51:110-122).

1968. Mosquito control practices from a conservation viewpoint. Pages 68-87 in Proceedings of a training course on mosquitoes, biting flies, ticks and safe pesticide application. CDC, U.S. Public Health Service, Northeastern Mosquito Control Association, Northeastern Pesticide Coordinators of the Cooperative Extension Service.

1969. Lead shot poisoning of American birds. Pages 24-30 in Metals and ecology. Swedish Nat. Sci. Res. Council, Ecol. Res. Comm. Bull. 5.

1969. What should we publish? Pestic. Monit. J. 2(4):139.

1971. Ecologic effects of methylmercury contamination. Chapter 4 in Hazards of mercury. Environ. Res. 4(1):31-41.

STICKEL, WILLIAM H., editor.

1952-59. Wildlife review: an abstracting service for wildlife management Nos. 67-95. U.S. Bur. Sport Fish. Wildl.

STICKEL, WILLIAM H., AND KENNETH CHIAVETTA, editors.

1959. Wildlife review: an abstracting service for wildlife management No. 96. U.S. Bur. Sport Fish. Wildl. 79 pp.

STICKEL, WILLIAM H., AND JAMES B. COPE.

1947. The home range and wanderings of snakes. Copeia 1947 (2):127-136.

STICKEL, WILLIAM H., WENDELL E. DODGE, WILLIAM G. SHELDON, JAMES B. DEWITT, AND LUCILLE F. STICKEL.

1965. Body condition and response to pesticides in woodcocks. J. Wildl. Manage. 29(1):147-155.

STICKEL, WILLIAM H., DON W. HAYNE, AND LUCILLE F. STICKEL.

1965. Effects of heptachlor-contaminated earthworms on woodcocks. J. Wildl. Manage. 29(1): 132-146.

STICKEL, WILLIAM H., WILLIAM G. SHELDON, AND LUCILLE F. STICKEL.

1965. Care of captive woodcocks. J. Wildl. Manage. 29(1):161-172.

STICKEL, WILLIAM H., AND LUCILLE F. STICKEL.

1946. Sexual dimorphism in the pelvic spurs of *Enygrus*. Copeia 1946 (1):10-12.

1948. Mammals of northwestern Texas found in barn owl pellets. J. Mammal. 29(3):291-293.

STICKEL, WILLIAM H., LUCILLE F. STICKEL, AND FRANCES B. COON.

1970. DDE and DDD residues correlated with mortality of experimental birds. Pages 287-294 in W. B. Deichmann, ed. Pesticide symposia. Halos and Associates, Miami, Fla.

STICKEL, WILLIAM H., LUCILLE F. STICKEL, AND JAMES W. SPANN.

1969. Tissue residues of dieldrin in relation to mortality in birds and mammals. Pages 174-204 in Chemical fallout; current research on persistent pesticides. Proceedings of the First Rochester Conference on Toxicity. C. C. Thompson, Springfield, Ill.

STICKLEY, ALLEN R., JR.  
 1962. A black bear tagging study in Virginia. Proc. Annu. Conf. Southeast. Assoc. Game and Fish Comm. 15:43-54.  
 1963. Dividends from bear trapping. Va. Wildl. 24(2):7-9.

STICKLEY, ALLEN R., JR., AND JOSEPH L. GUARINO.  
 1972. A repellent for protecting corn seed from blackbirds and crows. J. Wildl. Manage. 36(1):150-152.

STOWERS, JACOB F., DONALD T. HARKE, AND ALLEN R. STICKLEY, JR.  
 1968. Vegetation used for nesting by the red-winged blackbird in Florida. Wilson Bull. 80(3):320-324.

STUDHOLME, ALLAN T., AND RALPH B. NESTLER.  
 1945. Bobwhite quail for post-war re-stocking. Game Breeder and Sportsman 50(7):74-75, 80-83.

TARSHIS, I. BARRY.  
 1965. Procurement and shipment of black fly eggs. Bull. Wildl. Dis. Assoc. 1(2):8-9.  
 1965. A simple method for the collection of black fly larvae. Bull. Wildl. Dis. Assoc. 1(2):8.  
 1965. Cockroach-proof containers for dry animal feeds. Lab. Anim. Care 15(3):206-207.  
 1966. A protective suit for aquatic research. J. Wildl. Manage. 30(2):421-422.  
 1966. A method of shipping live larvae of *Simulium vittatum* long distances (Diptera: Simuliidae). Ann. Entomol. Soc. Am. 59(4):866-867.  
 1968. Collecting and rearing black flies. Ann. Entomol. Soc. Am. 61(5):1072-1083.  
 1968. Use of fabrics in streams to collect black fly larvae. Ann. Entomol. Soc. Am. 61(4):960-961.  
 1971. Individual black fly rearing cylinders (Diptera: Simuliidae). Ann. Entomol. Soc. Am. 64(5):1192-1193.  
 1971. An unusual fatality of a yearling Canada goose. The Jack-Pine Warbler 49(4):128.  
 1972. The feeding of some ornithophilic black flies (Diptera: Simuliidae) in the laboratory and their role in the transmission of *Leucocytozoon simondi*. Ann. Entomol. Soc. Am. 65(4):842-848.

TARSHIS, I. BARRY, AND THEODORE R. ADKINS, JR.  
 1971. Equipment for transporting live black fly larvae (Diptera: Simuliidae). Ann. Entomol. Soc. Am. 64(5):1194-1195.

TARSHIS, I. B., AND J. N. STUHT.  
 1970. Two species of Simuliidae (Diptera), *Cnephia* important vector of *Leucocytozoon* in Canada geese? Bull. Wildl. Dis. Assoc. 1(2):10-11.

TARSHIS, I. B., AND W. NEIL.  
 1970. Mass movement of black fly larvae on silken threads (Diptera: Simuliidae). Ann. Entomol. Soc. Am. 63(2):607-610.

TARSHIS, I. B., AND J.N. STUHT.  
 1970. Two species of Simuliidae (Diptera), *Cnephia ornithophila* and *Prosimulium vernale*, from Maryland. Ann. Entomol. Soc. Am. 63(2):587-590.

TOEPPER, EDWARD W., JR.  
 1964. *Colpoda steinii* in oral swabbings from mourning doves (*Zenaidura macroura* L.). J. Parasitol. 50(5):703.

TOEPPER, E. W., L. N. LOCKE, AND L. H. BLANKENSHIP.  
 1966. The occurrence of *Trichomonas gallinae* in white-winged doves in Arizona. Bull. Wildl. Dis. Assoc. 2(2):18.

TOMLINSON, ROY E.  
 1972. Current status of the endangered masked bobwhite quail. Trans. North Am. Wildl. Nat. Resour. Conf. 37:294-311.

1972. Review of literature on the endangered masked bobwhite. U.S. Bur. Sport Fish. Wildl., Resour. Publ. 108. 28 pp.

TOMLINSON, ROY E., AND DAVID E. BROWN.  
 1970. Our bobwhites come home. Arizona Game and Fish Dep., Wildl. Views; May-June:5-11.

TRAUB, ROBERT, JAMES B. DEWITT, JACK F. WELCH, AND DORIS NEWMAN.  
 1950. Toxicity and repellency to rats of actidione. J. Am. Pharmacol. Assoc. 39(10):552-555.

TREICHLER, RAY, RICHARD W. STOW, AND A. L. NELSON.  
 1946. Nutrient content of some winter grouse foods. J. Wildl. Manage. 10(1):12-17.

UHLER, FRANCIS M.  
 1940. The western ring-necked snake in Idaho. Copeia 1940(2):136.  
 1944. Control of undesirable plants in waterfowl habitats. Trans. North Am. Wildl. Conf. 9:295-303.  
 1944. Facts about snakes. U.S. Fish Wildl. Serv., Wildl. Leafl. 257. 10 pp.  
 1954. Water chestnut menaces upper section of Chesapeake Bay. Md. Sportsman 12(9):4-5.  
 1956. New habitats for waterfowl. Trans. North Am. Wildl. Conf. 21:453-469.  
 1958. Waterfowl of the prairie edge. Minn. Nat. 9(1):5-7.  
 1964. Bonus from waste places. Pages 643-653 in Joseph P. Linduska, ed. Waterfowl tomorrow. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C.

UHLER, F. M., C. COTTAM, AND T. E. CLARK.  
 1939. Food of snakes of the George Washington National Forest, Virginia. Trans. North Am. Wildl. Conf. 4:605-622.

UHLER, F. M., AND STEPHEN CREECH.  
 1939. Protecting field crops from waterfowl damage by means of reflectors and revolving beacons. U.S. Dep. Inter., Bur. Biol. Surv., Wildl. Leafl. BS-149. 6 pp.

UHLER, FRANCIS M., AND NEIL HOTCHKISS.  
 1968. Vegetation and its succession in marshes and estuaries along the South Atlantic and Gulf Coasts. Pages 26-32 in Proceedings of the Marsh and Estuary Management Symposium, Louisiana State University, Baton Rouge.

UHLER, FRANCIS M., AND LEONARD M. LLEWELLYN.  
 1952. Fur productivity of submarginal farmland. J. Wildl. Manage. 16(1):79-86. (Summarized in Md. Conserv. 29(3):20-23.)

UHLER, FRANCIS M., AND LOUIS N. LOCK.  
 1970. A note on the stomach contents of two whooping cranes. Condor 72(2):246.

VAN VELZEN, ALDEEN C., WILBUR B. STILES, AND LUCILLE F. STICKEL.  
1972. Lethal mobilization of DDT by cowbirds. *J. Wildl. Manage.* 36 (3):733-739.

WALKER, J. W., C. J. PFOW, S. S. NEWCOMB, W. D. URBAN, H. E. NADLER, AND L. N. LOCKE.  
1970. Status of duck viral enteritis (duck plague) in the United States. *Proc. U.S. Anim. Health Assoc.* 73:254-279.

WALTON, B. C., P. M. BAUMAN, L. S. DIAMOND, AND C. M. HERMAN.  
1958. The isolation and identification of *Trypanosoma cruzi* from raccoons in Maryland. *Am. J. Trop. Med. Hyg.* 7(6):603-610.

WARBACH, OSCAR.  
1953. Control of Japanese honeysuckle in wildlife borders. *J. Wildl. Manage.* 17(3):301-304.  
1958. Bird populations in relation to changes in land use. *J. Wildl. Manage.* 22(1):23-28.

WARD, DORCAS, RODMAN WARD, AND JOHN T. LINEHAN.  
1966. Thirtieth breeding-bird census: coastal lowland mixed woods (Delaware). *Audubon Field Notes* 20(6):628.

WARD, JUSTUS C., AND JAMES B. DEWITT.  
1948. Hazards associated with handling the new organic phosphates. *Pests and Their Control* 16(3):34.

WEAVER, DAVID K., AND JOHN A. KADLEC.  
1970. A method for trapping breeding adult gulls. *Bird-Banding* 41(1):28-31.

WEBB, JOHN S., AND WILLIS C. ROYALL, JR.  
[1972.] National survey of blackbird-starling roosts. *Proc. Bird Control Semin. (Bowling Green State Univ., Dep. Biol.)* 5:134-135.

WEBB, JOHN S., AND DAVID K. WETHERBEE.  
1960. Southeastern breeding range of the brown-headed cowbird. *Bird-Banding* 31(2):83-87.

WEBSTER, CLARK G.  
1950. European teal in Maryland. *Md. Birdlife* 6(3): 37.  
1954. Nest boxes for wood ducks. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 351. 9 pp.  
1955. Hatching of wood duck eggs after abandonment. *Wilson Bull.* 67(4):306.  
1955. Selected references on controlled shooting and artificial propagation of wild ducks. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 371. 3 pp.  
1958. Better nest boxes for wood ducks. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 393. 18 pp.

WEBSTER, C. G., AND F. B. MCGILVREY.  
1966. Providing brood habitat for wood ducks. Pages 70-74 in *Wood duck management and research: a symposium*. Wildlife Management Institute, Washington, D.C.

WEBSTER, CLARK G., AND FRANCIS M. UHLER.  
1964. Improved nest structures for wood ducks. *U.S. Fish Wildl. Serv., Wildl. Leafl.* 458. 20 pp.

WEBSTER, HELEN L.  
1951. Summary of Maryland nest records, 1950. *Md. Birdlife* 7(1):8-16.

WEHR, EVERETT G., AND DON R. COBURN.  
1943. Some economically important parasites of the wild turkey and Hungarian partridge of Pennsylvania. *Pa. Game News* Feb.:14-15, 31.

WEHR, EVERETT E., AND CARLTON M. HERMAN.  
1954. Age as a factor in acquisition of parasites by Canada geese. *J. Wildl. Manage.* 18(2):239-247.  
1956. *Lophortofilaria californiensis*, N.G. N. Sp., (Filarioidea, Dipetalonematidae) from California quail, *Lophortyx californicus*, with notes on its microfilaria. *J. Parasitol.* 42(1):42-44.

WEST, RICHARD L., ROBERT E. JONES, J. R. LONGCORE, AND JOHN T. LINEHAN.  
1966. Thirtieth breeding-bird census: mature tulip poplar wood lot (Delaware). *Audubon Field Notes* 20(6):645-646.

WETHERBEE, DAVID K., RAYMOND P. COPPINGER, AND RICHARD E. WALSH.  
1972. Time lapse ecology, Muskeget Island, Nantucket, Massachusetts. *MSS Educational Publishing Co., Inc., New York.* 173 pp.

WETHERBEE, DAVID K., AND BROOKE MEANLEY.  
1965. Natal plumage characters in rails. *Auk* 82(3): 500-501.

WETMORE, PSYCHE W.  
1941. Blood parasites of birds of the District of Columbia and Patuxent Research Refuge vicinity. *J. Parasitol.* 27(5):379-393.

WIEMEYER, STANLEY N.  
1971. Reproductive success of Potomac River ospreys—1970. *Chesapeake Sci.* 12(4):278-280.

WIEMEYER, S. N., B. M. MULHERN, F. J. LIGAS, R. J. HENSEL, J. E. MATHISEN, F. C. ROBARDS, AND S. POSTUPALSKY.  
1972. Residues of organochlorine pesticides, polychlorinated biphenyls, and mercury in bald eagle eggs and changes in shell thickness—1969 and 1970. *Pestic. Monit. J.* 6(1):50-55.

WIEMEYER, STANLEY N., AND R. D. PORTER.  
1970. DDE thins eggshells of captive American kestrels. *Nature (Lond.)* 227(5259):737-738.

WILBUR, SANFORD R.  
1971. The condor's place. *Western Tanager (Los Angeles Audubon Soc.)* 37(11):1-2.  
1972. Copulation by California condors. *Auk* 89(2): 444-445.

WILBUR, SANFORD R., W. DEAN CARRIER, JOHN C. BORNEMAN, AND ROBERT W. MALLETT.  
1972. Distribution and numbers of the California condor, 1966-1971. *American Birds* 26(33): 819-823.

WILBUR, SANFORD R., W. D. CARRIER, AND C. McCASKIR.  
1971. The lark bunting in California. *Calif. Birds* 2:73-76.

WILBUR, SANFORD R., AND CHARLES F. YOCOM.  
1971. Unusual geese in the Pacific Coast States. *Murrelet* 52(2):16-19.

WILKE, FORD, AND BROOKE MEANLEY.  
1942. Fluctuation in the fall food of the sora rail. *Md. Conserv.* 19(4):13.

WINSLOW, D. J., D. L. PRICE, R. C. NEAFIE, AND C. M.  
HERMAN.  
1966. Trichinosis in Maryland raccoons. Bull. Wildl.  
Dis. Assoc. 2 (3):81-82.

ZEVE, VICTOR H., DONALD L. PRICE, AND CARLTON M.  
HERMAN.  
1966. Electron microscope study of *Sarcocystis* sp.  
Exp. Parasitol. 18(3):338-346.

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