

CURRICULUM VITAE

MILTON FRIEND

CURRENT POSITION Executive Director, Salton Sea Science Subcommittee  
U.S. Department of the Interior, Washington, D.C.

EDUCATION

B.S.	Wildlife Conservation; Forestry minor	University of Maine	1958
M.S.	Wildlife Management; Epidemiology minor	University of Massachusetts	1965
Ph.D.	Veterinary Science/ Wildlife Ecology; Epidemiology minor	University of Wisconsin-Madison	1971

PROFESSIONAL WORK EXPERIENCE

A. Positions Held

Executive Director, Salton Sea Science Subcommittee, U.S. Dept. of the Interior  
(1998 - Present)  
Director, National Wildlife Health Research Center (1975-1998)  
Adjunct Professor, Department of Animal Health and Biomedical Sciences,  
University of Wisconsin-Madison (1987-Present)  
Adjunct Assistant Professor, Department of Veterinary Science, University of  
Wisconsin-Madison (1975-1987)  
Section Chief, Pesticide-Wildlife Ecology, Denver Wildlife Research Center, U.S. Fish and  
Wildlife Service, (1973-75)  
Wildlife Biologist (Research), Denver Wildlife Research Center (1971-73)  
Research Project Leader, Wildlife Pathology and Physiology, New York State  
Conservation Department (1961-66)  
Conservation Biologist (Research), New York State Conservation Department (1960-61)  
Conservation Assistant (Fisheries), Massachusetts Fish and Game (1958)  
Assistant Waterfowl Biologist, Vermont Fish and Game (1956)

B. International Activities

Canada – Field investigations, wildlife health issues  
Mexico – Field investigations, committee involvement  
Australia – Site visits, lead poisoning issue  
New Zealand – Site visits, program review (endangered species), lead poisoning issue  
India – Program development (Wildlife Institute of India), site visits, field investigations  
Egypt – Program development (wildlife health) site visits  
Russia – Program development (wildlife health), field investigations, site visits  
England – Program development (wildlife health), field investigations, site visits

Denmark – Site visits, collaborative wildlife disease investigations  
Holland – Site visits and technology exchange (duck plague)  
France – Site visits, lead poisoning and avian botulism issues  
Consultations with and training of scientists from numerous other countries that visited  
the National Wildlife Health Center for varying periods of time during 1975-1998.

### PROFESSIONAL SPECIALTIES

Wildlife Disease  
Disease Ecology  
Wildlife Ecology  
Wildlife Management  
Epidemiology  
Teaching

### SCIENTIFIC ACTIVITIES/CONTRIBUTIONS

#### A. Current Professional Society Memberships

! The Wildlife Society  
North Central Chapter, The Wildlife Society  
Wildlife Disease Association  
American Association for the Advancement of Science

#### B. Honors/Awards

##### 1. Agency

U.S. Fish and Wildlife Service (FWS) Special Achievement Award - 1972  
Outstanding Publications Award, Denver Wildlife Research Center - 1973  
FWS Special Achievement Award (EEO) - 1979  
FWS National Refuge Academy Appreciation Award - 1978, 1979  
Region 3, FWS Special Achievement Award for work on Patoka River National  
Wildlife Refuge controversy - 1988  
Department of the Interior (DOI) - Meritorious Service Award - October 1988  
FWS Special Achievement Award - 1988  
FWS Suggestion Award - 1988  
FWS Outstanding Contribution Award for prairie restoration project  
(presented to NWHC) - 1993  
NBS Superior Service Award - 1994  
NBS Superior Service Award - 1995  
NBS Director's Cultural Achievement Award - 1995  
DOI Distinguished Service Award - November 1996  
FWS Recognition Award, Region 1, Office of Public Affairs, Salton  
Sea activities - 1996 to 1997  
Recognition for Outstanding Support of FWS-Office of International  
Affairs International Programs - September 1997

USGS Star Award (Biological Resources Division) - September 1998  
USGS Star Award (Biological Resources Division) - October 1999

2. Other Agencies

Wisconsin Department of Natural Resources Special Service Award - 1988  
National Association of Government Communicators Blue Pencil Award  
(publication for technical audience) - 1988

3. University Community

1986 Robert and Virginia Rausch Visiting Scientist Award, Western  
College of Veterinary Medicine, University of Saskatchewan, Canada  
Distinguished Wildlife Alumnus Award, College of Forest Resources,  
University of Maine-Orono - 1986  
ZEW Medicine Club, University of Illinois Appreciation Award - 1992  
Suez Canal University Faculty of Veterinary Medicine Appreciation Award - 1992  
Wildlife Information Network recognition award, WILDPRO<sup>R</sup>, Royal Veterinary  
College, London, UK - September 1999

4. Other

Appreciation Plaque Presented by Milwaukee County Conservation  
Alliance - 1981  
Distinguished Service Award, Wildlife Disease Association - 1987  
North American Association of Hunter Safety Coordinators Appreciation  
Award - 1987  
Capital Community Citizens Orchid Award for constructive achievement that improved  
the environment in Madison and Dane County - 1987 (presented to NWHC)

C. Professional Recognition/Activities

1. Major Invited Presentations

Keynote Speaker, Third International Wildlife Disease Conference,  
Munich, Germany - 1975  
Keynote Speaker, Wildlife Disease Association Annual Meeting, Baton Rouge - 1980  
Program Committee Member and Chairperson for Wildlife Health Symposium,  
49th Midwest Fish and Wildlife Conference, Milwaukee, Wisconsin - 1987  
Symposium convener on avian disease for 20th International Ornithological Congress,  
New Zealand - 1990  
Presentor, Symposium on Wildlife Disease, Institute of Medical Research,  
Victoria, Australia - 1990  
Presentor (multiple presentations), National Veterinary Medicine Student Conclave,  
Madison, Wisconsin - 1990  
Session Co-chair and presentor, International Seminar on Veterinary Medicine in Wild  
and Captive Animals, Bangalore, India - 1991

- Presentor, International Waterfowl Research Bureau Workshop, Lead Poisoning in Waterfowl, Brussels, Belgium - 1991
- Opening presentation, European Conference Wildlife Disease Association, Paris, France - 1994
- Plenary presentation, Midwest Fish & Wildlife Conference, 1997.
- Presentor, National Ecosystem Restoration Symposium, Baltimore, MD - July 1998
- Presentor, University of California - MEXUS Salton Sea Workshop, Riverside, CA - October 1998
- Seminar speaker, Conservation Problems for the Sonoran Desert in the 21<sup>st</sup> Century, Yuma, AZ - November 1998
- Presentor, The Wildlife Society, Western Section Annual Meeting, Monterey, CA - January 1999
- Keynote Speaker, New River/Salton Sea Symposium, Brawley, CA - February 1999
- Keynote Speaker, International Waterfowl Conference, London, UK - September 1999
- Presentor, A National Conference - Building on Leopold's Legacy, Conservation for A New Century, Madison, WI - October 1999
- Seminar speaker, Sesquicentennial Seminar Series, University of Wisconsin-Madison - October 1999

## 2. Technical Activities

- Secretary, Wildlife Disease Association - 1971 to 1973
- President, Wildlife Disease Association - 1974 to 1975
- Southeastern Cooperative Wildlife Disease Study Steering Committee - 1975 to 1998
- Expert witness for FWS in court case involving duck plague in California - 1976
- Expert witness for State of South Dakota, Department of Fish and Game in court case involving implementation of non-toxic shot for waterfowl hunting - 1980
- Expert witness for State of Florida, Department of Fish and Game in court case involving implementation of non-toxic shot for waterfowl hunting - 1982
- Certified Wildlife Biologist
- Technical Advisor, The Canvasback Society
- Member Fish and Wildlife Service endangered species tactical review team
- U.S. Delegate, Environment and Ecology Subgroup, Ninth Indo-U.S. Science and Technology Subcommission Meeting, New Delhi, India - 1987
- Member Wisconsin Department of Natural Resources Wildlife Disease Review Team - 1987 to 1988
- "Blue Ribbon Panel" on resident Canada geese, Rockland County, New York - 1993
- Technical evaluation of disease risks associated with New Zealand's endangered species program - 1993
- Wildlife Disease Consultant, Office International Des Épizooties, Paris, France - April 1994 to present
- International Union for the Conservation of Nature (IUCN)/Species Survival Commission (SSC) - August 1994 to present
- Trilateral panel of the Trilateral Committee for Wildlife and Ecosystem Conservation and Management to address wildlife health issues in Mexico - 1996

Reviewer for Geraldine Dodge Foundation Grants - 1996  
Reviewer for USDA National Research Initiative Competitive Grants Program  
(Animal Virology and Viral Immunology Panel) – 1996 to present  
NBS/Biological Resources Division (BRD) representative on the National  
Research Council on Climate, Infectious Diseases and Health - 1996  
USGS Committee on Environmental Effects on Human Health - 1996  
USGS Committee on the Drinking Water Initiative - 1996  
USGS Committee on Real-Time Hazards – 1997  
Reviewer for Journal of Wildlife Management and the Wildlife Society Bulletin –  
current and longstanding  
Reviewer for other scientific journals on an occasional basis

### 3. University Community

Adjunct Assistant Professor, Department of Veterinary Science, University of  
Wisconsin-Madison – 1975-1987  
Teaching, University of Wisconsin – 1975 to 1998  
Guest lectures, numerous universities – 1975 to present  
Adjunct Full Professor, Department of Animal Health and Biomedical Sciences,  
University of Wisconsin-Madison – 1987 to present  
Teaching, University of Illinois – 1992 to 1994  
University Associate - Wildlife, College of Natural Resources, University of  
Wisconsin-Stevens Point - 1993 to present  
Teaching, Zoological Society of London – 1995 to 1999  
Inducted to the University of Wisconsin-Madison Teaching Academy - 1997  
Evaluator for advancement of University faculty (University of Georgia-Athens,  
University of California-Davis, Texas A&M, School of Veterinary Medicine,  
New Zealand)  
Evaluation team member for review of Department of Wildlife Ecology, University  
of Wisconsin-Madison  
Evaluation team member for review of Department of Veterinary Science,  
University of Wisconsin-Madison

### 4. Other

National Biological Service (NBS) Council for a Diverse Workforce - 9/1/1994 to  
9/30/1996  
NBS Research Grade Evaluation Advisory Committee - 1995 to 1997  
NBS/U.S. Geological Survey Transition Steering Team and Co-Chair of the Team's  
Scientific Programs Subcommittee - 1996  
BRD Management Council - November 1996  
Listed in Who's Who in the Midwest  
Listed in Who's Who in Veterinary Science and Medicine  
Listed in The International Directory of Distinguished Leadership  
Listed in American Men and Women of Science  
Listed in Who's Who in the World  
Listed in Who's Who in Science and Engineering  
Listed in Who's Who in Government Service  
Listed in other Who's Who publications

D. Publications

- FRIEND, M. 1962. Tumors, streptothricosis and deer. *New York State Conservationist*. October-November, 32.
- FRIEND, M., E. T. Knoll, and H. Gruff. 1963. Tuberculosis in a wild white-tailed deer. *N.Y. Fish and Game Journal* 10(1):118-123.
- FRIEND, M., G. E. Cummings, and J. S. Morse. 1964. Effect of changes in winter water levels on muskrat weights at the Montezuma National Wildlife Refuge. *N.Y. Fish and Game Journal* 11(2):125-131.
- FRIEND, M., and S. B. Linhart. 1964. Use of the eye lens as an indicator of age in the red fox. *N.Y. Fish and Game Journal* 11(1):58-66.
- Evans, W., and M. FRIEND. 1965. Mastitis in a wild white-tailed deer. *Bulletin Wildlife Disease Association* 1:35.
- Muraschi, T. F., M. FRIEND, and D. Bolles. 1965. Erwinia-like micro-organisms isolated from animal and human hosts. *Applied Microbiology* 13(2):128-131.
- FRIEND, M., and W. Hesselton. 1966. A wooly-coated deer from New York State. *Journal of Mammalogy* 47(1):154-155.
- Debbie, J. G., and M. FRIEND. 1967. Lymphosarcoma in a white-tailed deer. *Bulletin Wildlife Disease Association* 3:38-39.
- FRIEND, M. 1967. Skin tumors in New York deer. *Bulletin Wildlife Disease Association* 3:102-104.
- FRIEND, M. 1967. Some observations regarding eye-lens weight as a criterion of age in animals. *N.Y. Fish and Game Journal* 14(2):91-121.
- FRIEND, M. 1967. Relationship between eye-lens weight and variations in diet. *N.Y. Fish and Game Journal* 14(2):122-151.
- FRIEND, M. 1967. A review of research concerning eye-lens weight as criterion of age in animals. *N.Y. Fish and Game Journal* 4(2):152-165.
- FRIEND, M., and L. G. Halterman. 1967. Serologic survey of two deer herds in New York State. *Bulletin Wildlife Disease Association* 3:32-34.
- FRIEND, M., and C. W. Severinghaus. 1967. Influence of nutrition on eye-lens weight in deer. *N.Y. Fish and Game Journal* 14(2):166-175.
- FRIEND, M. 1968. History and epidemiology of rabies in wildlife in New York. *N.Y. Fish and Game Journal* 15(1):71-97.

- FRIEND, M. 1968. The lens technique. Pages 279-298 in Transaction of 33rd North American Wildlife Conference. Washington, D.C.
- FRIEND, M., and D. O. Trainer. 1969. Aspergillosis in herring gulls. Bulletin Wildlife Disease Association 5:271-275.
- FRIEND, M. 1970. Quick-freezing as a standard method for eye lens collection. N.Y. Fish and Game Journal 17(2):124-125.
- FRIEND, M., and D. O. Trainer. 1970. Serologic evidence of Newcastle disease in captive mallards and swans. Journal Wildlife Disease 6(3):13-135.
- FRIEND, M., and D. O. Trainer. 1970. Pseudorabies. Pages 90-96 in J. W. Davis, L. H. Karstad, and D. O. Trainer, editors. Infectious diseases of wild mammals. The Iowa State University Press, Ames, IA.
- FRIEND, M., and D. O. Trainer. 1970. Some effects of sublethal levels of insecticides on vertebrates. Journal of Wildlife Diseases 6(4):335-342.
- FRIEND, M., and D. O. Trainer. 1970. Polychlorinated biphenyl: Interaction with DHV. Science 170:1314-1316.
- Doster, G. L., and M. FRIEND. 1971. Spiculopteragia (Nematoda) from deer in North America. Parasitology 57(3):468.
- Ragland, W. L., M. FRIEND, D. O. Trainer, and N. E. Sladek. 1971. Interaction between duck hepatitis virus and DDT in ducks. Research Communication in Chemical Pathology and Pharmacology 2(2):236-244.
- FRIEND, M. 1972. Book Review. A bibliography of avian mycosis. Journal of Wildlife Diseases 8(3):301-302.
- FRIEND, M. 1972. Interaction of PCB's and other organochlorines with duck hepatitis virus. Pages 117-123 in Proceedings of Environmental Chemicals Workshop. Colorado State University, Fort Collins, CO.
- FRIEND, M., and D. O. Trainer. 1972. Duck hepatitis virus interactions with DDT and dieldrin in adult mallards. Bulletin Environmental Contaminant Toxicology 7(4):202-206.
- FRIEND, M., and D. O. Trainer. 1972. Experimental duck virus hepatitis in the mallard. Avian Diseases 16(4):692-699.
- FRIEND, M., and D. O. Trainer. 1972. Experimental Newcastle disease studies in the mallard. Avian Diseases 16(4):700-713.

- Abel, J. H., Jr., and M. FRIEND. 1973. Current and future environmental threats. Human physiological concerns. Pages 55-60 in P.O. Foss, editor. Environmental Handbook. Colorado State University, Ft. Collins, CO.
- FRIEND, M., M. A. Haegele, and R. A. Wilson. 1973. DDE: Interference with extrarenal salt excretion in the mallard. Bulletin Environmental Contaminant Toxicology 9(1):49-53.
- FRIEND, M., and G. L. Pearson. 1973. Duck plague: the present situation. Pages 315-325 in Proceedings of the Annual Conference of Western Association of State Game and Fish Commissioners.
- FRIEND, M., and G. L. Pearson. 1973. Duck plague (Duck Virus Enteritis) in wild waterfowl. U.S. Department of Interior, Bureau of Sport Fisheries and Wildlife. U.S. Government Printing Office, Washington, D.C.
- FRIEND, M. 1974. Avian salt glands - an index to effects of environmental pollution. Pages 259-268 in E.P. Savage, editor. Annual Conference on Environmental Chemicals and Human Health. Colorado State University, Fort Collins, CO.
- FRIEND, M., and D. O. Trainer. 1974. Experimental DDT-duck hepatitis virus interaction studies. Journal Wildlife Management 38(4):887-895.
- FRIEND, M., and D. O. Trainer. 1974. Experimental dieldrin-duck hepatitis virus interaction studies. Journal Wildlife Management 38(4):896-902.
- FRIEND, M., and D. O. Trainer. 1974. Response of difference-age mallards to DDT. Bulletin of Environmental Contaminant Toxicology 11(1):49-56.
- FRIEND, M. 1975. New dimensions in diseases affecting waterfowl. Pages 155-162 in First International Waterfowl symposium. Ducks Unlimited.
- FRIEND, M. 1976. Wildlife diseases: philosophical considerations, Pages 7-18 in L. A. Page, editor. Wildlife Diseases. New York, NY.
- FRIEND, M. 1976. Diseases: A threat to our waterfowl. Ducks Unlimited Magazine 40(2):36-37.
- FRIEND, M. 1976. Combating waterfowl diseases. Ducks Unlimited Magazine 40(3):44-46.
- FRIEND, M. 1976. Disease problems and needs. Pages 2-7 in Proceedings of Second International Waterfowl Symposium. Ducks Unlimited.
- FRIEND, M., and J. H. Abel, Jr. 1976. Inhibition of mallard salt gland function by DDE and organophosphates. Pages 261-269 in L. A. Page, editor. Wildlife Disease, New York, NY.

- FRIEND, M. 1977. Diseases of Wildlife: Problems in diagnosis and control. Pages 83-92 in 20th Annual Proceedings American Association of Veterinary Laboratory Diagnosticians.
- FRIEND, M. 1977. The importance of water management to the health of continental waterfowl populations. Annual Convention Association of Midwest Fish and Wildlife Commissioners 44:E9-E18.
- FRIEND, M. 1978. (Chairman) Working group: Research Priorities. Pages 120-126 in M. L. Avey, editor. Impacts of Transmission Lines on Birds in Flight. U.S. Department of Interior.
- FRIEND, M., M. A. Haegle, D. L. Meeker, R. Hudson, and C. H. Baer. 1979. Correlations between residues of dichlorodiphenylethane, polychlorinated biphenyl, and dieldrin in the serum and tissues of mallard ducks (*Anas platyrhynchos*). Pages 319-326 in Animals as Monitors of Environmental Pollutants. National Academy of Sciences, Washington, D.C.
- FRIEND, M., P. D. Hagen, D. J. Voros, and M. E. McDonald. 1980. Disease problems in North American swans. Page 318 (Abstract) in G. V. T. Matthews, and M. Smart, editors. Second International Swan Symposium, Sapporo, Japan. International Waterfowl Research Bureau, Slimbridge, Glos, England.
- FRIEND, M. 1981. Waterfowl diseases -- changing perspectives for the future. Pages 189-196 in Fourth International Waterfowl Symposium. New Orleans, LA.
- FRIEND, M. 1981. Waterfowl management and waterfowl disease: independent or cause and effect relationships. Pages 94-103 in Transactions of the 46th North American Wildlife and Natural Resources Conference.
- Siegfried, L. M., and M. FRIEND. 1981. An overview of the National Wildlife Health Laboratory after 6 years. American Association of Veterinary Laboratory Diagnosticians 24:51-60.
- FRIEND, M. 1982. Diseases of wild waterfowl. Book review. Journal of Wildlife Diseases 18(4):523-524.
- FRIEND, M. 1984. Meeting migratory bird management needs by integrated disease control. Pages 480-488 in Transactions of the 49th North American Wildlife and Natural Resources Conference.
- FRIEND, M. 1984. Waterfowl get sick too. Pages 478-485 in A. S. Hawkins, R. C. Hanson, H. K. Nelson, and H. M. Reeves, editors. Flyways Pioneering Waterfowl Management in North America. U.S. Department of Interior, Fish and Wildlife Service. U.S. Govt. Printing Office, Washington, D.C.

- FRIEND, M. 1985. Wildlife health implications of sewage disposal in wetlands. Pages 262-269 in *Ecological Considerations in Wetlands Treatment of Municipal Wastewaters*. Van Nostrand Reinhold, New York.
- FRIEND, M., L. N. Locke, and J. J. Kennelly. 1985. Avian botulism. U.S. Government Printing Office, Washington, D.C. No. 579-039.
- FRIEND, M. 1986. Lead poisoning in waterfowl. Videotape (27 minutes 49 seconds). U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
- FRIEND, M. 1986. Obituary and comments -- Dr. Wayne I. Jensen. *Journal of Wildlife Diseases* 22(2):300-304.
- FRIEND, M. 1988. Avian botulism: An international perspective. Book review. P. 290. *Wildlife Review* No. 209.
- FRIEND, M. 1988. Avian cholera. Pages 69-82 in M. Friend, C. J. Laitman and R. S. Kampen, editors. *Field guide to wildlife diseases, Vol. 1. General field procedures and diseases of migratory birds*. U.S. Department of Interior, Fish and Wildlife Service, Resource Publication 167.
- FRIEND, M. 1988. Lead poisoning. Pages 175-189 in M. Friend, C. J. Laitman and R. S. Kampen, editors. *Field guide to wildlife diseases, Vol. 1. General field procedures and diseases of migratory birds*. U.S. Department of the Interior, Fish and Wildlife Service, Resource Publication 167.
- FRIEND, M. and J. C. Franson. 1988. Disease control operations. Pages 21-58 in M. Friend, C. J. Laitman and R. S. Kampen, editors. *Field guide to wildlife diseases, Vol. 1. General field procedures and diseases of migratory birds*. U.S. Department of the Interior, Fish and Wildlife Service, Resource Publication 167.
- FRIEND, M., C. J. Laitman and R. S. Kampen, editors. 1988. *Field guide to wildlife diseases, Vol. 1. General field procedures and diseases of migratory birds*. U.S. Department of the Interior, Fish and Wildlife Service, Washington D.C., Resource Publication 167.
- Locke, L. N. and M. FRIEND. 1988. Avian botulism. Pages 83-93 in M. Friend, C. J. Laitman and R. S. Kampen, editors. *Field guide to wildlife diseases, Vol. 1. General field procedures and diseases of migratory birds*. U.S. Department of the Interior, Fish and Wildlife Service, Resource Publication 167.
- Stroud, R. K. and M. FRIEND. 1988. Avian salmonellosis. Pages 101-106 in M. Friend, C. J. Laitman and R. S. Kampen, editors. *Field guide to wildlife diseases, Vol. 1. General field procedures and diseases of migratory birds*. U.S. Department of the Interior, Fish and Wildlife Service, Resource Publication 167.

- FRIEND, M. 1989. Avian cholera: a major new cause of waterfowl mortality. Fish and Wildlife Leaflet 13.2.5, Waterfowl Management Handbook, U.S. Department of the Interior.
- FRIEND, M. 1989. Lead poisoning: the invisible disease. Fish and Wildlife Leaflet 13.2.6, Waterfowl Management Handbook, U.S. Department of the Interior.
- Locke, L. N. and M. FRIEND. 1989. Avian botulism: geographic expansion of a historic disease. Fish and Wildlife Leaflet 13.2.4, Waterfowl Management Handbook, U.S. Department of the Interior.
- FRIEND, M. 1991. Introductory remarks: Disease ecology and the conservation of avian species. Acta XX Congressus Internationalis Ornithologici, Vol. IV:2323-2324, Christchurch, New Zealand.
- FRIEND, M. and N. J. Thomas. 1991. Disease prevention and control in endangered avian species: Special considerations and needs. Acta XX Congressus Internationalis Ornithologici, Vol. IV:2331-2337, Christchurch, New Zealand.
- FRIEND, M. and G. Wobeser. 1991. Concluding remarks: Disease ecology and the conservation of avian species. Acta XX Congressus Internationalis Ornithologici, Vol. IV:2356-2357, Christchurch, New Zealand.
- FRIEND, M. 1992. Perspectives from the National Wildlife Health Research Center. Pages 15-21 in W. Boyce, N. Elliott, and J. Mazet, editors. Wildlife Health Workshop. Fort Collins, CO.
- FRIEND, M. 1992. Environmental influences on major waterfowl diseases. Pages 517-525 in Transactions of the 57th North American Wildlife & Natural Resources Conference. Charlotte, NC.
- FRIEND, M. 1992. Control of avian influenza: philosophy and perspectives on behalf of migratory birds. Pages 393-399 in Proceedings of the Third International Symposium on Avian Influenza. University of Wisconsin-Madison, WI.
- Locke, L. N., and M. FRIEND. 1992. Lead poisoning of avian species other than waterfowl. Pages 19-22 in D. J. Pain, editor. IWRB Workshop, Brussels, Belgium. IWRB Special Publication 16, Slimbridge, UK.
- FRIEND, M., D. E. Toweill, R. L. Brownell, Jr., V. F. Nettles, D. S. Davis, and W. J. Foreyt. 1994. Guidelines for proper care and use of wildlife in field research. Pages 96-105 in Theodore A. Bookhout, editor. Research and Management Techniques for Wildlife and Habitats. Fifth edition. The Wildlife Society, Bethesda, MD.
- Roffe, T. J., M. FRIEND, and L. N. Locke. 1994. Evaluation of causes of wildlife mortality. Pages 324-348 in Research and Management Techniques for Wildlife and Habitats. Fifth edition. The Wildlife Society, Bethesda, MD.

- FRIEND, M. 1995. Disease considerations for waterfowl managers. Pages J-24-J-105 in W.R. Whitman, T. Strange, L. Widjeskog, R. Whittemore, and P. Kehoe/L. Roberts, editors. Waterfowl habitat restoration enhancement and management in the Atlantic Flyway. Atlantic Waterfowl Council, Dover, DE.
- FRIEND, M. 1995. Conservation Landmarks: Bureau of Biological Survey and National Biological Service. Pages 7-9 in LaRoe, E.T., G.S. Farris, C.E. Puckett, P.D. Doran, and M.J. Mac, editors. Our living resources: a report to the nation on the distribution, abundance, and health of U.S. plants, animals, and ecosystems. U.S. Department of the Interior, National Biological Service, Washington, D.C. 530 pp.
- FRIEND, M. 1995. Increased avian diseases with habitat change. Pages 401-405 in LaRoe, E.T., G.S. Farris, C.E. Puckett, P.D. Doran, and M.J. Mac, editors. Our living resources: a report to the nation on the distribution, abundance, and health of U.S. plants, animals, and ecosystems. U.S. Department of the Interior, National Biological Service, Washington, D.C. 530 pp.
- FRIEND, M. 1995. Diseases of wildlife: changing patterns and emerging trends. Pages 70-76 in J. Hagen, editor. Proceedings of the 1994 International Wildlife Rehabilitation Council Conference. San Diego, CA.
- FRIEND, M. and D. H. Cross. 1995. Waterfowl Diseases: Causes, Prevention, and Control. Waterfowl Management Handbook 13.2.3. National Biological Service, U.S. Department of the Interior.
- FRIEND, M. 1996. Investigation and management of disease in wild animals. Book review. Journal of Wildlife Diseases 32(2):414-415.
- FRIEND, M. 1997. Forward, i-ii, in: Saving the Salton Sea. U.S. Department of the Interior, Fish & Wildlife Service, Washington, D.C., 96 pp.
- Ruth, J. M. and M. FRIEND. 1997. Is your bird feeder safe? Bird Conservation Summer Nesting, p. 16.
- FRIEND, M. 1997. Forward, ix-x, in: Davidson, W. R. and V. F. Nettles. Field manual of wildlife diseases in the Southeastern United States. 2nd ed., Southeastern Cooperative Wildlife Disease Study, College of Vet. Med., Univ. Georgia, Athens.
- FRIEND, M. 1998. Duck plague: emergence of a new cause of waterfowl mortality. Pages 458-460; 471 in Mac, M. J., P. A. Opler, C. E. Puckett Haecker, and P. D. Doran, editors. Status and trends of the nation's biological resources. Vol. 2. U.S. Department of the Interior, U.S. Geological Survey, Reston, VA.
- FRIEND, M. and J. C. Franson. 1999. Editors. Field manual of wildlife diseases. General field procedures and diseases of birds. U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.

- FRIEND, M. and J. C. Franson. 1999. Disease control operations. Pages 19-48 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M, D. E. Toweill, R.L. Brownell Jr., V. F. Nettles, D. S. Davis, and W. J. Foreyt. 1999. Guidelines for proper care and use of wildlife in field research. Pages 53-71 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. 1999. Avian cholera. Pages 75-92 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. 1999. Avian tuberculosis. Pages 93-98 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. 1999. Salmonellosis. Pages 99-109 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. 1999. Mycoplasmosis. Pages 115-119 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. 1999. Miscellaneous bacterial diseases. Pages 121-126 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. 1999. Aspergillosis. Pages 129-133 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. 1999. Candidiasis. Pages 135-136 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.

- FRIEND, M. 1999. Miscellaneous fungal diseases. Pages 137-138 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. 1999. Duck plague. 1999. Pages 141-151 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- Docherty, D. E. and M. FRIEND. 1999. Pages 175-179 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. and J. C. Franson. 1999. Intestinal Coccidiosis. Pages 207-213 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- Tuggle, B. N. and M. FRIEND. 1999. Sarcocystis. Pages 219-222 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- Tuggle, B. N. and M. FRIEND. 1999. Gizzard worms. Pages 235-239 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- Cole, R. A. and M. FRIEND. 1999. Miscellaneous parasitic diseases. Pages 249-258 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- Rocke, T. E. and M. FRIEND. 1999. Avian botulism. Pages 271-281 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.
- FRIEND, M. and J. C. Franson. 1999. Chlorinated hydrocarbon insecticides. Pages 295-302 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.

FRIEND, M. and J. C. Franson. 1999. Polychlorinated biphenyls. Pages 303-307 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.

FRIEND, M. 1999. Lead. Pages 317-334 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.

Franson, J. C. and M. FRIEND. 1999. Salt. Pages 347-348 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.

FRIEND, M. 1999. Miscellaneous chemical toxins. Pages 351-353 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.

FRIEND, M. and N. J. Thomas. 1999. Miscellaneous diseases. Page 361 *in* M. Friend and J. C. Franson, editors. Field manual of wildlife diseases. General field procedures and diseases of birds, U.S. Department of the Interior, U.S. Geological Survey. Information and Technology Report 1999-001.

#### E. Major Distributed Reports

FRIEND, M., and C. I. Mason. 1961. A survey of the distribution and relative densities of pheasants surviving the winter in New York. New York State Conservation Dept. Mimeo.

FRIEND, M., and T. F. Muraschi. 1963. Montezuma muskrats and tularemia. Northeast Fish and Wildlife Conference, Portland, Maine. Mimeo.

FRIEND, M. 1963. The use of the eye lens as an indicator of age in game farm mallards. N.Y. State Conservation Dept. Mimeo.

FRIEND, M. 1964. Rabies: A review of the disease in bats, man, and wildlife. N.Y. State Conservation Dept. Mimeo.

FRIEND, M. 1964. The eye lens technique - variations and variables. N.Y. State Conservation Dept. Mimeo.

FRIEND, M. 1968. A bibliography and listing of wildlife eye lens investigations. N.Y. State Conservation Dept. Mimeo.

FRIEND, M. 1971. Lead poisoning of waterfowl *in* K. A. Neiland (Chairman), Report to the American Biological Council: The contributions to human welfare of basic research on wildlife disease. Sept. Mimeo.

FRIEND, M. 1971. Insecticide-wildlife relationships *in* K. A. Neiland (Chairman), Report to the American Biological Council: The contributions to human welfare of basic research on wildlife disease. Sept. Mimeo.

FRIEND, M. 1973. Duck plague: The Lake Andes Epizootic, A slide series (with nar.). Bureau of Sport Fisheries and Wildlife, Denver Wildlife Research Center.

FRIEND, M. 1973. Duck plague: A diagnostic slide series (with nar.). Bureau of Sport Fisheries and Wildlife, Denver Wildlife Research Center.

FRIEND, M. 1982. Playas and wildlife disease. Report for Eastern Energy Land Use Team, OBS, FWS. Mimeo.

FRIEND, M. 1987. Avian Diseases. Pages 38-41. In: Draft Environmental Assessment – Proposed Patoka River National Wildlife Refuge. U.S. Department of the Interior, Fish and Wildlife Service. 71 pp.

FRIEND, M. 1994. Threatened Species Management and Disease Risks: A Report of Findings for the Department of Conservation, New Zealand.

F. Presentations

I have not maintained a list of presentations. The following are estimates reflecting numbers of presentations by audiences addressed.

Audience/Type of Presentation	Examples	Estimated # of Events Since 1975
Civic Groups	Rotary, Optimist Club	10-15
Public Schools (K,1-12)	Endangered species and wetlands programs, biotechnology presentations, minority and gifted student classes	20-25
Sportsman Groups	Ducks Unlimited banquet speaker, Isaac Walton League, Audubon Society	15-20
University Seminars/Guest Lecturers	Schools of veterinary medicine, biology, and wildlife ecology departments, student organizations	60-70
Scientific Meetings	North American Wildlife Conference, Wildlife Disease Association	60-70
Workshops/Training Programs	National Refuge Academy, Wildlife Disease Workshops	25-35
Agency Seminars	Regional Offices, Research Centers	40-50
Hearings/Public Forums	Extended presentations on conservation issues	25-35
Outreach	Minority teachers, minority programs for students, science for women	20-30

Audience/Type of Presentation	Examples	Estimated # of Events Since 1975
Academic Courses	U of Wisconsin	Since 1975
	- Diseases of Wildlife	2
	- Regional Animal Disease Control	2
	- Wildlife Disease Graduate Seminar	3
	- Controversial Issues in Wildlife Management	
	Zoological Society of London	
	- MS Course in Wild Animal Health	5
	Introduction to Careers in the Veterinary Sciences	8-10
	University of Illinois	3
	- Envirovet	
Science Presentations in Other Nations	Canada, Germany, Denmark, England, France, New Zealand, Australia, Egypt, India, Sweden, Mexico, Russia, Belgium	50+

WORK RELATED TRAINING COURSES

<u>Title</u>	<u>Year</u>
EPA, Pesticides and Public Health: Advanced (24 hours)	1972
OPM, The Supervisor's Job, Part I (40 hours)	1972
Photo Data Institute, Instant Photoinstrumentation (16 hours)	1974
CSU, Environmental Chemicals: Human and Animal Health (24 hours)	1974
Management by Objectives for Nonprofit Organizations (24 hours)	1977
Leadership Methods for Supervisors in Nonprofit Organizations (16 hours)	1977
Supervising the Ineffective Employee (16 hours)	1977
Role of Managers and Supervisors in EEO (16 hours)	1978
Penn State Management Program for Natural Resource Managers (104 hours)	1979
EEO for Research Supervisors (40 hours)	1980
Supervisory Training, Part B (40 hours)	1980
The Leadership Lab (24 hours)	1984
EEO Training	1986
Market Your Non-Profit Organization (8 hours)	1987
Time Power (8 hours)	1987
How to Keep Burnout from Robbing You of Your Zest for Life (8 hours)	1989
What You Are is Where You See	1990
Drug Free Workplace	1990
EEO Training	1990
Now That We're Here – EEO Training	1990
Drug Free Workplace	1991
Total Quality Management (24 hours)	1992
Managing Cultural Diversity	1992
Professional Supervision Skills	1992
TQM Total Quality Midwest (24 hours)	1992
EEO Rules and Regulations	1992
Driver Awareness Video (1 hour)	1992
I'm Not Stupid – EEO Training	1992
Ethics Training Session	1993
OFC Aircraft Service Safety (8 hours)	1994

Milton Friend

<u>Title</u>	<u>Year</u>
Low Visibility and Driving (1 hour)	1994
HIV/Aids Training (4 hours)	1995
Natural Resources Seminar: Policies and Issues (80 hours)	1995
American Association for the Advancement of Science Internet Seminar (8 hours)	1996
Management Control Training	1996
A Winning Balance, The Art of Diversity Training (16 hours)	1997