

Alphabetic List, 1659 references

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Abelson, P. H. 1991. Excessive Fear of PCBs. *Science* 253:361.

Abrahamson, L. J., and J. R. Allen. 1973. The Biological Response of Infant Nonhuman Primates to a Polychlorinated Biphenyl. *Environ. Health Perspec.* June:81-86.

Absher, J. D., and J. R. Collins. 1987. Southern Lake Michigan Sportfishery: Angler Profiles and Specialization Index for Illinois and Indiana - Final Research Report. Illinois-Indiana Sea Grant Program, IL-IN-SG-R-87-2. January.

Achman, D. R., K. C. Hornbuckle, and S. J. Eisenreich. 1992. Volatilization of Polychlorinated Biphenyls from Green Bay, Lake Michigan. Data Report, U Minn., February 1992, approx 50 pp.

Achman, D. R., K. C. Hornbuckle, and S. J. Eisenreich. 1993. Volatilization of Polychlorinated Biphenyls from Green Bay, Lake Michigan. *Environ. Sci. Technol.* 27(1):75-87.

Adams, S. M., K. D. Ham, M. S. Greeley, R. F. LeHew, D. E. Hinton, and C. F. Saylor. 1996. Downstream Gradients in Bioindicator Responses: Point Source Contaminant Effects on Fish Health. *Can. J. Fish. Aquat. Sci.* 53:2177-2187.

Addison, E. M., G. A. Fox, and M. Gilbertson [eds.]. 1991. Proceedings of the Expert Consultation Meeting on Mink and Otter. International Joint Commission, Windsor, Ontario.

Addison, R. F., M. E. Zinck, and D. E. Willis. 1978. Induction of Hepatic Mixed-Function Oxidase (MFO) Enzymes in Trout (*Salvelinus fontinalis*) by Feeding Aroclor 1254 or 3-methylcholanthrene. *Comp. Biochem. Physiol.* 61C:323-325.

Agrawal, A. K., H. A. Tilson, and S. C. Bondy. 1981. 3,4,3',4'-Tetrachlorobiphenyl Given to Mice Prenatally Produces Long-Term Decreases in Striatal Dopamine and Receptor Binding Sites in the Caudate Nucleus. *Toxicol. Lett.* 7:417-424.

Ahrnsbrak, W. F. 1971. A Diffusion Model for Green Bay, Lake Michigan. Ph.D. Dissertation, University of Wisconsin Sea Grant Program Technical Report No. 7. WIS-SG-71-207.

Ahrnsbrak, W. F., and R. A. Ragotzkie. 1970. Mixing Processes in Green Bay. Proceedings of the 13th Conference on Great Lakes Research, Buffalo, New York, pp. 880-890.

Akerman, G., U. Tjarnlund, E. Noaksson, and L. Balk. 1997. Studies with Oxythiamine to Mimic Reproduction Disorders Among Fish Early Life Stages. *Marine Environ. Res.*

Albright, B., I. Beaty, R. Jeong, E. Meyer, and A. Pressentin. 1998. Ecological Risk Assessment of PCB Contamination in the Little Mississinewa River, Indiana. Indiana University School of Public and Environmental Affairs.

Allan, R. J., A. J. Ball, V. W. Cairns, G. A. Fox, A. P. Gilman, D. B. Peakall, D. A. Piekarz, J. C. Van Oostdam, D. C. Villeneuve, and D. T. Williams. 1991. Toxic Chemicals in the Great Lakes and Associated Effects, Vol. II, Effects. Environment Canada, Fisheries and Oceans Canada, Health and Welfare Canada, Toronto, Burlington, Ottawa.

Allan, R. J., A. J. Ball, V. W. Cairns, G. A. Fox, A. P. Gilman, D. B. Peakall, D. A. Piekarz, J. C. Van Oostdam, D. C. Villeneuve, and D. T. Williams. 1991. Toxic Chemicals in the Great Lakes and Associated Effects, Vol. I, Contaminant Levels and Trends. Environment Canada, Fisheries and Oceans Canada, Health and Welfare Canada, Toronto, Burlington, Ottawa.

Allen, J. R., and D. A. Barsotti. 1976. The Effects of Transplacental and Mammary Movement of PCBs on Infant Rhesus Monkeys. *Toxicology* 6:331-340.

Allen, J. R., L. A. Carstens, and D. A. Barsotti. 1974. Residual Effects of Short-Term, Low-Level Exposure of Nonhuman Primates to Polychlorinated Biphenyls. *Toxicol. Appl. Pharmacol.* 30:440-451.

Allen, P., J. Sullivan, and L. Persson. 1987. Toxic Substances Management Technical Advisory Committee Report: Lower Green Bay Remedial Action Plan. WDNR PUBL-WR-166 87, 133 pp.

Allouez. 1993. Village of Allouez Five Year Action Plan 1994-1999. Adopted December 7, 1993.

Ambrose, R. B. J., T. A. Wool, J. P. Connolly, and R. W. Schanz. 1988. WASP4 - A Hydrodynamic and Water Quality Model - Model Theory, User's Manual and Program Guide. EPA/600/3-87/039, USEPA, Environmental Research Laboratory, Athens, GA.

Amin, O. M. 1985. The Relationship Between the Size of Some Salmonid Fishes and the Intensity of their Acanthocephalan Infections. *Can. J. Zool.* 63:924-927.

Amundson, T. E. 1986. Environmental Contaminant Monitoring of Wisconsin Wild Game 1985-86. Bureau of Wildlife management, WDNR, Madison.

Anderson, D. J., T. B. Bloem, R. K. Blankenbaker, and T. A. Stanko. 1999. Concentrations of Polychlorinated Biphenyls in the Water Column of the Laurentian Great Lakes: Spring 1993. *J. Great Lakes Res.* 25(1):160-170.

Anderson, D. P., and M. G. Zeeman. 1995. Immunotoxicology in Fish, Pages 371-402 in *Fundamentals of Aquatic Toxicology: Effects, Environmental*

Fate, and Risk Assessment (G. M. Rand, Ed.). Taylor & Francis, Washington, D.C.

Anderson, D. W., and J. J. Hickey. 1972. Eggshell Changes in Certain North American Birds, Pages 514-540 in Proceedings of the XVth International Ornithological Congress (K. H. Voous, Ed.), The Hague, Netherlands.

Anderson, H. A. 1996. Awareness of Sport Fish Health Advisories. Presented at Mercury in the Midwest: Current Status and Future Directions. October.

Anderson, L. M., S. D. Fox, D. Dixon, L. E. Beebe, and H. J. Issaq. 1991. Long-Term Persistence of Polychlorinated Biphenyl Congeners in Blood and Liver and Elevation of Liver Aminopyrine Demethylase Activity after a Single High Dose of Aroclor 1254 to Mice. Environ. Toxicol. Chem. 10(3):681-690.

Ankley, G. T., P. M. Cook, and A. R. Carlson. 1992. Bioaccumulation of PCBs from Sediments by Oligochaetes and Fishes: Comparison of Laboratory and Field Studies. Can. J. Fish. Aquat. Sci. 49:2080-2085.

Ankley, G. T., A. Katko, and J. W. Arthur. 1990. Identification of Ammonia as an Important Sediment-Associated Toxicant in the Lower Fox River and Green Bay, Wisconsin. Environ. Toxicol. Chem. 9:313-322.

Ankley, G. T., K. Lodge, D. J. Call, M. D. Balcer, L. T. Brooke, P. M. Cook, R. G. J. Kreis, A. R. Carlson, R. D. Johnson, G. J. Niemi, R. A. Hoke, C. W. West, J. P. Giesy, P. D. Jones, and Z. C. Fuying. 1992. Integrated Assessment of Contaminated Sediments in the Lower Fox River and Green Bay, Wisconsin. Ecotoxicol. Environ. Saf. 23:46-63.

Ankley, G. T., G. J. Niemi, K. B. Lodge, H. J. Harris, D. L. Beaver, D. E. Tillitt, T. R. Schwartz, J. P. Giesy, P. D. Jones, and C. Hagley. 1993. Uptake of Planar Polychlorinated Biphenyls and 2,3,7,8-Substituted Polychlorinated Dibenzofurans and Dibenzo-p-dioxins by Birds Nesting in the Lower Fox River and Green Bay, Wisconsin, USA. Arch. Environ. Contam. Toxicol. 24:332-344.

Ankley, G. T., D. E. Tillitt, and J. P. Giesy. 1989. Maternal Transfer of Bioactive Polychlorinated Aromatic Hydrocarbons in Spawning Chinook Salmon (*Oncorhynchus tshawytscha*). Marine Environ. Res. 28:231-234.

Ankley, G. T., D. E. Tillitt, J. P. Giesy, P. D. Jones, and D. A. Verbrugge. 1991. Bioassay-Derived 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents in PCB-Containing Extracts from the Flesh and Eggs of Lake Michigan Chinook Salmon (*Oncorhynchus tshawytscha*) and Possible Implications for Reproduction. Can. J. Fish. Aquat. Sci. 48:1685-1690.

Anon. 1974. Wisconsin Tissue Effluent Plant Pioneers European Process Here. Paper Trade Journal March 11:32-36.

Anon. 1988. Guidelines for the Management of Dredged Material. Ontario Ministry of Environment, Toronto, Ontario, Canada.

Anon. 1988. Report and Recommendations on Artificial Habitat Policy for Wisconsin's Great Lakes Waters. May 24, 1988.

Anon. 1990. Report of the Surveillance Subcommittee to the Great Lakes Water Quality Board - Proceedings of the Mass Balance Workshop. March 1990, 110 pp.

Anon. 1993. Lab Output of 4 Samples Taken 7/10/1993, Water Column PCB Data at Fox River Stations, SLOH. December 1993, 16 pp.

Anon. 1998. Hormone Mimics: They're In Our Food; Should We Worry? Consumer Reports June:52-55.

Anthony, R. G., A. K. Miles, J. A. Estes, and F. B. Isaacs. 1999. Productivity, Diets, and Environmental Contaminants in Nesting Bald Eagles from the Aleutian Archipelago. Environ. Toxicol. Chem. 18(9):2054-2062.

APE Panel. 1997. UK Study Points to Natural Hormones in Sewage Effluents. Alkylphenols Bulletin, January 27, 1997; an update from the CMA Alkylphenols & Ethoxylates Panel, Arlington, VA.

Appleton. 1989. Fox River Corridor Study. City of Appleton Department of Planning and Development, City Plan Commission, December 1989.

Appleton Parks and Recreation Commission, and Appleton Parks and Recreation Department. 1994. Appleton, Wisconsin Parks and Recreation Master Plan 1995-1999. Adopted by the Appleton Common Council October 5, 1994.

Arkoosh, M. R., E. Clemons, M. Myers, and E. Casillas. 1994. Suppression of B-cell Mediated Immunity in Juvenile Chinook Salmon (*Oncorhynchus tshawytscha*) After Exposure to Either a Polycyclic Aromatic Hydrocarbon or to Polychlorinated Biphenyls. Immunopharmacology and Immunotoxicology 16(2):293-314.

Armstrong, D., B. Baker, M. Hammers, A. Harr, D. Hildreth, K. Klepinger, T. Kubiak, L. Liebenstein, L. Lueschow, G. Milburn, D. Patterson, J. Sullivan, and M. Witt. 1983. Final Report of the Toxic Substances Task Force on the Lower Fox River System. WDNR, USGS, USFWS, USEPA, UW-Water Chemistry Dept.

Armstrong, F. 1979. Effects of Mercury Compounds on Fish, Pages 657-670 in The Biogeochemistry of Mercury in the Environment (J. Nriagu, Ed.). Elsevier Press, Amsterdam.

Army Corps of Engineers. 1987. Environmental Engineering for Deep-Draft Navigation Projects. Engineer Manual 1110-2-1202, 29 May 1987.

Army Corps of Engineers. 1997. Fox River Project, Wisconsin, Navigation System. Draft Final Disposition Report, Draft Environmental Impact Statement, April 1997; Volume I, Main Report and Draft Environmental Impact Statement.

Army Corps of Engineers. 1997. Fox River Project, Wisconsin, Navigation System. Draft Final Disposition Report, Draft Environmental Impact Statement, April 1997; Volume II, Supporting Documentation.

ATSDR. 1989. Toxicological Profile for Selected PCBs (Aroclor-1260, -1254, -1248, -1242, -1232, -1221, and -1016). Agency for Toxic Substances and Disease Registry, U.S. Public Health Service. ATSDR/TP-88/21. June 1989.

ATSDR. 1994. Toxicological Profile for Mercury (Update). Agency for Toxic Substances and Disease Registry, U.S. Department of Health and Human Services. May 1994.

ATSDR. 1996. Public Health Implications of PCB Exposures. The Agency for Toxic Substances and Disease Registry, U.S. Department of Health and Human Services, Atlanta, Georgia; The U.S. Environmental Protection Agency, Washington, D.C. December, 1996.

Aubert, E. J., and T. L. Richards [eds.]. 1981. IFYGL - The International Field Year for the Great Lakes. NOAA, Great Lakes Environmental Research Laboratory, US Dept of Commerce, Ann Arbor, MI.

Audet, D., D. Scott, and S. Wiemeyer. 1992. Organochlorines and Mercury in Osprey Eggs from the Eastern United States. J. Raptor Res. 26(4):219-244.

Auer, N. A. 1996. Response of Spawning Lake Sturgeon to Change in Hydroelectric Facility Operation. Trans. Amer. Fish. Soc. 125:66-77.

Augustyniak, C. M. 1993. Economic Valuation of Services Provided by Natural Resources: Putting a Price on the "Priceless". Baylor Law Review 45(2), Spring 1993:389-403.

Aulerich, R. J., S. J. Bursian, W. J. Breslin, B. A. Olson, and R. K. Ringer. 1985. Toxicological Manifestations of 2,4,5,2',4',5'-, 2,3,6,2',3',6'-, and 3,4,5,3',4',5'-Hexachlorobiphenyl and Aroclor 1254 in Mink. Journal of Toxicology and Environmental Health 15:63-79.

Aulerich, R. J., S. J. Bursian, M. G. Evans, J. R. Hochstein, K. A. Koudele, B. A. Olson, and A. C. Napolitano. 1987. Toxicity of 3,4,5,3',4',5'-Hexachlorobiphenyl to Mink. Arch. Environ. Contam. Toxicol. 16:53-60.

Aulerich, R. J., and R. K. Ringer. 1977. Current Status of PCB Toxicity to Mink, and Effect on Their Reproduction. Arch. Environ. Contam. Toxicol. 6:279-292.

Aulerich, R. J., and R. K. Ringer. 1980. Toxicity of the Polychlorinated Biphenyl Aroclor 1016 to Mink. U.S. EPA Report No. 600/3-80-033, USEPA, Duluth, Minnesota. 24 pp.

- Aulerich, R. J., R. K. Ringer, and S. Iwamoto. 1973. Reproductive Failure and Mortality in Mink Fed on Great Lakes Fish. *J. Reprod. Fert. Suppl.* 19:365-376.
- Aulerich, R. J., R. K. Ringer, and S. Iwamoto. 1974. Effects of Dietary Mercury on Mink. *Arch. Environ. Contam. Toxicol.* 2(1):43-51.
- Aulerich, R. J., R. K. Ringer, and J. Safronoff. 1986. Assessment of Primary and Secondary Toxicity of Aroclor 1254 to Mink. *Arch. Environ. Contam. Toxicol.* 15:393-399.
- Aulerich, R. J., R. K. Ringer, H. L. Seagrin, and W. G. Youatt. 1971. Effects of Feeding Coho Salmon and Other Great Lakes Fish on Mink Reproduction. *Can. J. Zool.* 49:611-616.
- Ax, R. L., and L. G. Hansen. 1975. Effects of Purified Polychlorinated Biphenyl Analogs on Chicken Reproduction. *Poultry Science* 54:895-900.
- Axelman, J., and D. Broman. 1999. Inventories and Fluxes of Polychlorinated Biphenyls from a Contaminated Industrial Site. *Environ. Toxicol. Chem.* 18(9):1871-1881.
- Baba, R. K., P. K. Johnsen, G. J. Knaap, and L. J. Smith. 1990. Public Perceptions and Attitudes Toward Water Quality Rehabilitation of the Lower Green Bay Watershed. A Report to the Green Bay Remedial Action Plan Implementation Committee and Community; Center for Public Affairs Working Paper Number 90.12, November 1990.
- Backlin, B.-M., and A. Bergman. 1992. Morphological Aspects on the Reproductive Organs in Female Mink (*Mustela vison*) Exposed to Polychlorinated Biphenyls and Fractions Thereof. *Ambio* 21(8):596.
- Bailey, G., D. Selivonchick, and J. Hendricks. 1987. Initiation, Promotion, and Inhibition of Carcinogenesis in Rainbow Trout. *Environ. Health Perspec.* 71 (April):147-153.
- Baker, J. E., and S. J. Eisenreich. 1990. Concentrations and Fluxes of Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls Across the Air-Water Interface of Lake Superior. *Environ. Sci. Technol.* 24(3):342-352.
- Baker, R. A. [ed.]. 1980. Contaminants and Sediments: Fate and Transport, Case Studies, Modeling, Toxicity, Vol. 1. Ann Arbor Science Publishers, Inc., Ann Arbor.
- Baker, R. A. [ed.]. 1980. Contaminants and Sediments: Analysis, Chemistry, Biology, Vol. 2. Ann Arbor Science Publishers, Inc., Ann Arbor.
- Ball, J., T. Gibson, F. Priznar, J. Delfino, D. Dube, and P. Peterman. 1978. Investigation of Chlorinated and Nonchlorinated Compounds in the Lower Fox River Watershed. USEPA, GLNPO: EPA-905/3-78-004. WDNR.

Banerjee, B. D., A. Ray, and S. T. Pasha. 1996. A Comparative Evaluation of Immunotoxicity of DDT and its Metabolites in Rats. *Indian J. Exper. Biol.* 34(6):517-522.

Bantle, J., W. W. Bowerman, C. Carey, T. Colborn, S. De Guise, S. Dodson, C. F. Facemire, G. Fox, M. Fry, M. Gilbertson, K. Grasman, T. Gross, L. J. Guillette, C. Henny, D. S. Henschel, J. E. Hose, P. A. Klein, T. J. Kubiak, G. Lahvis, B. Palmer, C. Peterson, M. Ramsey, and D. White. 1995. [Consensus] Statement from the Work Session on Environmentally-Induced Alterations in Development: A Focus on Wildlife. *Environ. Health Perspec.* 103 Supplement 4:3-5.

Barker, D. E., R. A. Khan, and R. Hooper. 1994. Bioindicators of Stress in Winter Flounder, *Pleuronectes americanus*, Captured Adjacent to a Pulp and Paper Mill in St. George's Bay, Newfoundland. *Can. J. Fish. Aquat. Sci.* 51:2203.

Barron, M. G., M. Anderson, D. Beltman, T. Podrabsky, W. Walsh, D. Cacela, J. Lipton, S. J. Teh, D. E. Hinton, J. T. Zelikoff, A. L. Dikkeboom, D. E. Tillitt, M. Holey, P. Bouchard, and N. Denslow. 1999. Association Between PCBs, Liver Lesions, and Biomarker Responses in Adult Walleye (*Stizostedion vitreum*) Collected from Green Bay, Wisconsin. Prepared by Stratus Consulting, Inc., Boulder, CO, for the U.S. Fish and Wildlife Service, Green Bay Field Office.

Barron, M. G., H. Galbraith, and D. Beltman. 1995. Comparative Reproductive and Developmental Toxicology of PCBs in Birds. *Comp. Biochem. Physiol.* 112C:1-14.

Barron, M. G., J. J. Yurk, and D. B. Crothers. 1994. Assessment of Potential Cancer Risk from Consumption of Polychlorinated Biphenyl Bioaccumulated in Fish and Shellfish. *Environ. Health Perspec.* 102:562-567.

Barsotti, D. A., R. J. Marlar, and J. R. Allen. 1976. Reproductive Dysfunction in Rhesus Monkeys Exposed to Low Levels of Polychlorinated Biphenyls (Aroclor 1248). *Food and Cosmetic Toxicology* 14:99-103.

Batty, J., R. A. Leavitt, N. Biondo, and D. Polin. 1990. An Ecotoxicological Study of a Population of the White Footed Mouse (*Peromyscus leucopus*) Inhabiting a Polychlorinated Biphenyls-Contaminated Area. *Arch. Environ. Contam. Toxicol.* 19:283-290.

Baumann, P. C., and J. C. Harshbarger. 1995. Decline in Liver Neoplasms in Wild Brown Bullhead Catfish after Coking Plant Closes and Environmental PAHs Plummet. *Environ. Health Perspec.* 103(2):168-170.

Baumann, P. C., M. J. Mac, S. B. Smith, and J. C. Harshbarger. 1991. Tumor Frequencies in Walleye (*Stizostedion vitreum*) and Brown Bullhead (*Ictalurus nebulosus*) and Sediment Contaminants in Tributaries of the Laurentian Great Lakes. *Can. J. Fish. Aquat. Sci.* 48:1804-1810.

Baumann, P. C., I. R. Smith, and C. D. Metcalfe. 1996. Linkages Between Chemical Contaminants and Tumors in Benthic Great Lakes Fish. *J. Great Lakes Res.* 22(2):131-152.

Baumann, P. C., and D. M. Whittle. 1988. The Status of Selected Organics in the Laurentian Great Lakes: An Overview of DDT, PCBs, Dioxins, Furans, and Aromatic Hydrocarbons. *Aquat. Toxicol.* 11:241-257.

Baur, R. J. 1988. A Mail Survey of Anglers Who Sport Fished in Illinois Between April 1, 1986 and March 31, 1987. Illinois Department of Conservation Special Fisheries Report No. 53. May.

BBL. 1996. Supplemental Phase II/RCRA Facility Investigation Report for Housatonic River and Silver Lake. Blasland, Bouck & Lee, Inc. Report: Volume I of II, General Electric Company, Pittsfield, Massachusetts, January 1996.

Beauford, W., J. Barger, and A. R. Barringer. 1977. Uptake and Distribution of Mercury Within Higher Plants. *Physiol. Plant.* 39:261-265.

Beck, D. R. M. 1995. Return to Nama'o Uskiwamit: The Importance of Sturgeon in Menominee Indian History. *Wisconsin Magazine of History* Autumn 1995:32-48.

Becker, P. H., S. Schuhmann, and C. Koepff. 1993. Hatching Failure in Common Terns (*Sterna hirundo*) in Relation to Environmental Chemicals. *Environ. Pollut.* 79:207-213.

Bedard, D. L., S. C. Bunnell, and L. A. Smullen. 1996. Stimulation of Microbial Paradechlorination of Polychlorinated Biphenyls That Have Persisted in Housatonic River Sediment for Decades. *Environ. Sci. Technol.* 30:687-694.

Beijer, K., and A. Jernelov. 1979. Methylation of Mercury in Natural Waters, Pages in *The Biogeochemistry of Mercury in the Environment* (J. O. Nriagu, Ed.). Elsevier/North Holland Biomedical Press, New York.

Belisle, A. A., W. L. Reichel, L. N. Locke, T. G. Lamont, B. M. Mulhern, R. M. Prouty, R. B. DeWolf, and E. Cromartie. 1972. Residues of Organochlorine Pesticides, Polychlorinated Biphenyls, and Mercury and Autopsy Data for Bald Eagles, 1969 and 1970. *Pestic. Monit. J.* 6(3):133-138.

Belton, T., R. Roundy, and N. Weinstein. 1986. Urban Fisherman: Managing the Risks of Toxic Exposure. *Environment* 28(9):19-37.

Beltran, R. F. 1992. The Green Bay/Fox River Mass Balance Study Management Summary: Preliminary Management Summary. IL-IN-SG-R-93-1; Green Bay/Fox River Mass Balance Study Management Committee, Published by Illinois-Indiana Sea Grant Program, for USEPA, GLNPO.

Bengtsson, B.-E., and C. Hill. 1995. Summary of the Second Workshop on Reproduction Disturbances in Fish. Swedish Environmental Protection Agency, Lidingsö, Stockholm.

Bennie, D. T., C. A. Sullivan, H.-B. Lee, T. E. Peart, and R. J. Maguire. 1997. Occurrence of Alkylphenols and Alkylphenol Mono- and Diethoxylates in Natural Waters of the Laurentian Great Lakes Basin and the Upper St. Lawrence River. *The Science of the Total Environment* 193:263-275.

Bergen, B. J., W. G. Nelson, and R. J. Pruell. 1993. Bioaccumulation of PCB Congeners by Blue Mussels (*Mytilus edulis*) Deployed in New Bedford Harbor, Massachusetts. *Environ. Toxicol. Chem.* 12:1671-1681.

Bergman, A., M. Athanasiadou, S. Bergek, K. Haraguchi, S. Jensen, and E. K. Wehler. 1992. PCB and PCB Methyl Sulfones in Mink Treated with PCB and Various PCB Fractions. *Ambio* 21(8):570-576.

Bergman, A., B.-M. Backlin, B. Jarplid, L. Grimelius, and E. Wilander. 1992. Influence of Commercial Polychlorinated Biphenyls and Fractions Thereof on Liver Histology in Female Mink (*Mustela vison*). *Ambio* 21(8):591-595.

Bergman, A., R. J. Norstrom, K. Haraguchi, H. Kuroki, and P. Beland. 1994. PCB and DDE Methyl Sulfones in Mammals from Canada and Sweden. *Environ. Toxicol. Chem.* 13(1):121-128.

Bergstrom, D. W. 1968. Economics of Secondary Fiber Usage. *Tappi* 51(4):76A-77A.

Berlin, W. H., R. J. Hesselberg, and M. J. Mac. 1981. Growth and Mortality of Fry of Lake Michigan Lake Trout During Chronic Exposure to PCB's and DDE. Contribution 563 of the Great Lakes Fishery Laboratory. U.S. FWS, Technical Paper 105:11-22.

Bern, H. A., P. Blair, S. Brasseur, T. Colborn, G. R. Cunha, W. Davis, K. Dohler, G. Fox, M. Fry, E. Gray, R. Green, M. Hines, T. Kubiak, J. McLachlan, J. P. Myers, R. E. Peterson, P. J. H. Reijnders, A. Soto, G. Van der Kraak, F. vom Saal, and P. Whitten. 1992. The Statement of Consensus, Pages 1-8 in *Chemically-Induced Alterations in Sexual and Functional Development: The Wildlife/Human Connection* (T. Colborn and C. Clement, Eds.). Princeton Scientific, Princeton, NJ.

Bertrand, G., J. Lang, and J. Ross. 1976. The Green Bay Watershed: Past/Present/Future. UW Sea Grant Program Technical Report #229.

Best, D. A., W. W. Bowerman, T. J. Kubiak, S. R. Winterstein, S. Postupalsky, M. C. Shieldcastle, and J. P. Giesy. 1993. Reproductive Impairment of Bald Eagles Along the Great Lakes Shoreline of Michigan and Ohio. Proc. IV World Conf. on Birds of Prey and Owls. Berlin, Germany.

Best, D. A., W. W. Bowerman, T. J. Kubiak, S. R. Winterstein, S. Postupalsky, M. C. Shieldcastle, and J. P. Giesy. 1994. Reproductive Impairment of Bald Eagles Along the Great Lakes Shorelines of Michigan and Ohio, Pages 697-701 in *Raptor Conservation Today* (B. U. Meyerburg and R. D. Chancellor, Eds.). World Working Group on Birds of Prey and The Pica Press, East Sussex, Great Britain.

Bidleman, T. F., and L. L. McConnell. 1995. A Review of Field Experiments to Determine Air-Water Gas Exchange of Persistent Organic Pollutants. *The Science of the Total Environment* 159:101-117.

Bierman, V. J., J. V. DePinto, T. C. Young, P. W. Rodgers, S. C. Martin, R. Raghunathan, and S. C. Hinz. 1992. Development and Validation of an Integrated Exposure Model for Toxic Chemicals in Green Bay, Lake Michigan. Final Report to the U.S. EPA, Duluth, MN. September 1.

Bierman, V. J. J. 1990. Equilibrium Partitioning and Biomagnification of Organic Chemicals in Benthic Animals. *Environ. Sci. Technol.* 24(9):1407-1412.

Bills, T. D., L. L. Marking, and L. E. Olson. 1977. Effects of Residues of the Polychlorinated Biphenyl Aroclor 1254 on the Sensitivity of Rainbow Trout to Selected Environmental Contaminants. *Prog. Fish-Cult.*:150.

Binder, R. L., and J. J. Lech. 1984. Xenobiotics Transferred to Gametes of Lake Michigan Lake Trout Induce Hepatic Monooxygenase Activity in Their Offspring. *Marine Environ. Res.* 14:431-432.

Binder, R. L., and J. J. Lech. 1984. Xenobiotics in Gametes of Lake Michigan Trout (*Salvelinus namaycush*) Induce Hepatic Monooxygenase Activity in Their Offspring. *Fundamental and Applied Toxicology* 4:1042-1054.

Bingley, M. 1993. Cost Effective Implementation of the Remedial Action Plan Habitat Objectives. N.E.W. Waters for Tomorrow, Inc., and Severn Trent Water. April 5, 1993.

Bird, D. M., P. H. Tucker, G. A. Fox, and P. C. Lague. 1983. Synergistic Effects of Aroclor 1254 and Mirex on the Semen Characteristics of American Kestrels. *Arch. Environ. Contam. Toxicol.* 12:633-640.

Birge, W., J. Black, J. Hudson, and D. Bruser. 1979. Embryo-Larval Toxicity Tests with Organic Compounds, Pages 131-147 in *Aquatic Toxicology* (L. Marking and R. Kimmerles, Eds.). American Society for Testing and Materials STP 667, Philadelphia, PA.

Birge, W., J. Black, and B. Ramey. 1981. The Reproductive Toxicology of Aquatic Contaminants, Pages 59-115 in *Hazard Assessment of Chemicals: Current Developments*, Vol. 1 (J. Sexena and F. Fisher, Eds.). Academic Press, New York.

Birge, W., J. Black, G. Westerman, and J. Hudson. 1979. The Effects of Mercury on Reproduction of Fish and Amphibians, Pages 269-655 in *The Biogeochemistry of Mercury in the Environment* (J. Nriagu, Ed.). Elsevier Press, Amsterdam.

Birge, W. J., J. A. Black, D. M. Bruser, and A. M. Stern. 1979. Toxicity of Organic Chemicals to Embryo-Larval Stages of Fish. Prepared by the Thomas Hunt Morgan School of Biological Sciences for, and reviewed by, the Office of Toxic Substances within the Department of Commerce as a

National Technical Information Service PB80-101637, Contract #68-01-4321. 60 pp.

Birnbaum, L. S., H. Wever, M. W. Harris, I. C. Lamb, and I. D. McKinney. 1985. Toxic Interaction of Specific PCBs and 2,3,7,8-TCDD: Increased Incidence of Cleft Palate in Mice. *Toxicol. Appl. Pharmacol.* 77:292-302.

Bishop, C., and D. V. Weseloh. 1990. Contaminants in Herring Gull Eggs from the Great Lakes. Environment Canada, Ottawa. State of the Environment Fact Sheet No. 90-2.

Bishop, C. A., R. J. Brooks, J. H. Carey, P. Ny, R. J. Norstrom, and D. R. S. Lean. 1991. The Case for a Cause-Effect Linkage Between Environmental Contamination and Development in Eggs of the Common Snapping Turtle (*Chelydra s. serpentina*) from Ontario, Canada. *Journal of Toxicology and Environmental Health* 33:521-548.

Bishop, C. A., M. D. Koster, A. A. Chek, D. J. T. Hussell, and K. Jock. 1995. Chlorinated Hydrocarbons and Mercury in Sediments, Red-Winged Blackbirds (*Agelaius phoeniceus*) and Tree Swallows (*Tachycineta bicolor*) from Wetlands in the Great Lakes-St. Lawrence River Basin. *Environ. Toxicol. Chem.* 4(3):491-501.

Bishop, C. A., D. V. Weseloh, N. M. Burgess, J. Struger, R. J. Norstrom, R. Turle, and K. A. Logan. 1992. Technical Report Series, No. 152: An Atlas of Contaminants in Eggs of Fish-Eating Colonial Birds of the Great Lakes (1970-1988), Vol. I. Accounts by Species and Location. Canadian Wildlife Service, Ontario Region, Burlington.

Bishop, C. A., D. V. Weseloh, N. M. Burgess, J. Struger, R. J. Norstrom, R. Turle, and K. A. Logan. 1992. Technical Report Series, No. 153: An Atlas of Contaminants in Eggs of Fish-Eating Colonial Birds of the Great Lakes (1970-1988), Vol. II. Accounts by Chemical. Canadian Wildlife Service, Ontario Region, Burlington.

Bishop, R., A. Lyke, P. Champ, D. Bush, and J. R. Swinton. 1994. The Wisconsin Great Lakes Sport Fisheries for Trout and Salmon - A Socioeconomic Profile. Draft Copy; University of Wisconsin Sea Grant Institute.

Bishop, R. C., K. J. Boyle, and M. P. Welsh. 1987. Toward Total Economic Valuation of Great Lakes Fishery Resources. *Trans. Amer. Fish. Soc.* 116:339-345.

Bishop, R. C., S. R. Milliman, K. J. Boyle, and B. L. Johnson. 1990. Benefit-Cost Analysis of Fishery Rehabilitation Projects: A Great Lakes Case Study. *Ocean & Shoreline Management* 13:253-274.

Bishop, R. C., and M. Welsh. 1992. Existence Values in Benefit-Cost Analysis and Damage Assessment. *Land Economics* 68(4):405-417.

Bitman, J., H. C. Cecil, and S. J. Harris. 1972. Biological Effects of Polychlorinated Biphenyls in Rats and Quail. *Environ. Health Perspec.* 145-149.

Bjornberg, A., L. Hakanson, and K. Lundbergh. 1988. A Theory on the Mechanisms Regulating Bioavailability of Mercury in Natural Waters. *Environ. Pollut.* 49:53-61.

Blancher, P. J., C. L. Furlonger, and D. K. McNicol. 1987. Technical Report Series: Diet of Nestling Tree Swallows (*Tachycineta bicolor*) Near Sudbury, Ontario, Summer 1986. Canadian Wildlife Service, Ontario Region, Ottawa. No. 31.

Blancher, P. J., and D. K. McNicol. 1988. Breeding Biology of Tree Swallows in Relation to Wetland Acidity. *Can. J. Zool.* 66:842-849.

Blasland & Bouck Engineers. 1993. Remedial Investigation/Feasibility Study: Little Lake Butte des Morts Sediment Deposit A. Blasland & Bouck Engineers, P.C. (Blasland, Bouck & Lee) report to WDNR for P.H. Glatfelter Company.

Bleavins, M. R., R. J. Aulerich, and R. K. Ringer. 1980. Polychlorinated Biphenyls (Aroclors 1016 and 1242): Effects on Survival and Reproduction in Mink and Ferrets. *Arch. Environ. Contam. Toxicol.* 9:627-635.

Bleavins, M. R., R. J. Aulerich, R. K. Ringer, and T. G. Bell. 1982. Excessive Nail Growth in the European Ferret Induced by Aroclor 1242. *Arch. Environ. Contam. Toxicol.* 11:305-312.

Blus, L. J. 1995. Organochlorine Pesticides, Pages 275-300 in *Handbook of Ecotoxicology* (D. J. Hoffman, B. A. Rattner, G. A. J. Burton, and J. J. Cairns, Eds.). Lewis Publishers, CRC Press, Inc., Boca Raton, Florida.

Blus, L. J., M. J. Melancon, D. J. Hoffman, and C. J. Henny. 1998. Contaminants in Eggs of Colonial Waterbirds and Hepatic Cytochrome P450 Enzyme Levels in Pipped Tern Embryos, Washington State. *Arch. Environ. Contam. Toxicol.* 35:492-497.

Blus, L. L. 1982. Further Interpretation of the Relation of Organochlorine Residues in Brown Pelican Eggs to Reproductive Success. *Environ. Pollut.* (Series A), 28:15-33.

Boersma, D. C., J. A. Ellenton, and A. Yagminas. 1986. Investigation of the Hepatic Mixed-Function Oxidase System in Herring Gull Embryos in Relation to Environmental Contaminants. *Environ. Toxicol. Chem.* 5:309-318.

Boiko, K. 1975. A Super Waste Treatment Plant. *Paper Trade Journal* December 1:32-36.

Bolattino, C. 1994. A Summary of Contaminated Sediment Activities Within the United States Great Lakes Areas of Concern. EPA 905-R94-002. Prepared by National Network for Environmental Management Studies Program, Indiana University, Bloomington, Indiana, for EPA GLNPO, August, 1993. 78 pp.

Boon, J. P., F. Eijgenraam, J. Everaats, and J. Duinker. 1989. A Structure-Activity Relationship (SAR) Approach Towards Metabolism of PCBs

in Marine Animals from Different Trophic Levels. *Marine Environ. Res.* 27:159-176.

Boon, J. P., J. M. Everaarts, M. T. J. Hillebrand, M. L. Eggens, J. Pijnenburg, and A. Goksoyr. 1992. Changes in Levels of Hepatic Biotransformation Enzymes and Haemoglobin Levels in Female Plaice (*Pleuronectes platessa*) after Oral Administration of a Technical Polychlorinated Biphenyl Mixture (Clophen A40). *The Science of the Total Environment* 114:113-133.

Borg, K., K. Erne, E. Hanko, and H. Wanntorp. 1970. Experimental Secondary Methylmercury Poisoning in the Goshawk (*Accipiter g. gentilis* L.). *Environ. Pollut.* 1:91-104.

Borgman, U., and D. M. Whittle. 1991. Contaminant Concentration Trends in Lake Ontario Lake Trout (*Salvelinus namaycush*): 1977 to 1988. *J. Great Lakes Res.* 17:368-381.

Borgmann, U., and D. M. Whittle. 1991. Contaminant Concentration Trends in Lake Ontario Lake Trout (*Salvelinus namaycush*): 1977 to 1988. *J. Great Lakes Res.* 17(3):368-381.

Borlakoglu, J. T., V. A. Welch, C. H. Walker, and R. R. Dils. 1989. Role of Lipoproteins and Plasma Proteins in the Transport of Polychlorinated Biphenyls in Birds. *Marine Environ. Res.* 28:235-239.

Borlakoglu, J. T., J. P. G. Wilkins, and C. H. Walker. 1988. Polychlorinated Biphenyls in Fish-Eating Sea Birds - Molecular Features and Metabolic Interpretations. *Marine Environ. Res.* 24:15-19.

Bosveld, A. T. C. 1995. Effects of Polyhalogenated Aromatic Hydrocarbons on Piscivorous Avian Wildlife. Ph.D. Dissertation, University of Utrecht.

Bosveld, A. T. C., J. Gradener, A. J. Murk, A. Brouwer, M. Van Kampen, E. H. G. Evers, and M. Van den Berg. 1995. Effects of PCDDs, PCDFs and PCBs in Common Tern (*Sterna hirundo*) Breeding in Estuarine and Coastal Colonies in the Netherlands and Belgium. *Environ. Toxicol. Chem.* 14(1):99-115.

Bosveld, A. T. C., and M. Van den Berg. 1994. Effects of Polychlorinated Biphenyls (PCBs), Dibenzo-p-dioxins (PCDDs), and Dibenzofurans (PCDFs) on Fish-Eating Birds. *Environmental Review* 2:147-166.

Bosveld, A. T. C., M. Van den Berg, and R. M. C. Theelen. 1992. Assessment of the EROD Inducing Potency of Eleven 2,3,7,8-substituted PCDD/Fs and Three Coplanar PCBs in the Chick Embryo. *Chemosphere* 25:911-916.

Boudou, A., M. Delnomdedieu, D. Georgescauld, F. Ribeyre, and E. Saouter. 1991. Fundamental Roles of Biological Barriers in Mercury Accumulation and Transfer in Freshwater Ecosystems. *Water, Air, Soil Pollut.* 56:807-821.

Bowerman, W. W. 1993. Regulation of Bald Eagle (*Haliaeetus leucocephalus*) Productivity in the Great Lakes Basin: An Ecological and Toxicological Approach. Ph.D. Dissertation, Michigan State University, East Lansing, Michigan.

Bowerman, W. W., D. A. Best, E. D. Evans, S. Postupalsky, M. S. Martel, K. Kozie, R. L. Welch, R. H. Schell, D. F. Darling, J. C. Rogers, T. J. Kubiak, D. E. Tillitt, T. R. Schwartz, P. D. Jones, and J. P. Giesy. 1990. PCB Concentration in Plasma of Nesting Bald Eagles from the Great Lakes Basin, North America, Pages 203-206 in *Toxicology--Environment, Food, and Exposure Risk for Halogenated Hydrocarbons* (O. Hutzinger and H. Fiedler, Eds.). Eco-Informa Press, Bayreuth, Germany.

Bowerman, W. W., D. A. Best, T. J. Kubiak, M. S. Martell, S. Postupalsky, and J. P. J. Giesy. 1994. The Influence of Environmental Contaminants on Bald Eagle Populations in the Laurentian Great Lakes, North America, Pages 703-707 in *Raptor Conservation Today* (B. U. Meyerburg and R. D. Chancellor, Eds.). World Working Group on Birds of Prey and The Pica Press, East Sussex, Great Britain.

Bowerman, W. W., J. P. Giesy, D. A. Best, and V. J. Kramer. 1995. A Review of Factors Affecting Productivity of Bald Eagles in the Great Lakes Region: Implications for Recovery. *Environ. Health Perspec.* 103(Suppl 4):51-59.

Bowerman, W. W., T. J. Kubiak, J. B. J. Holt, D. L. Evans, R. G. Eckstein, C. R. Sindelar, D. A. Best, and K. D. Kozie. 1994. Observed Abnormalities in Mandibles of Nestling Bald Eagles (*Haliaeetus leucocephalus*). *Bull. Environm. Contam. Toxicol.* 53:450-457.

Bowker, J. M., and J. R. Stoll. 1988. Use of Dichotomous Choice Nonmarket Methods to Value the Whooping Crane Resource. *Amer. J. Ag. Econ.* May:372-381.

Boyer, I. J., C. J. Kokoski, and P. M. Bolger. 1991. Role of FDA in Establishing Tolerable Levels for Dioxin and PCBs in Aquatic Organisms. *Journal of Toxicology and Environmental Health* 33:93-101.

Boyle, K. J., and R. C. Bishop. 1987. Valuing Wildlife in Benefit-Cost Analyses: A Case Study Involving Endangered Species. *Water Resources Research* 23(5):943-950.

Boyle, K. J., W. H. Desvougues, F. R. Johnson, R. W. Dunford, and S. P. Hudson. 1994. An Investigation of Part-Whole Biases in Contingent-Valuation Studies. *J. Environ. Econ. Manag.* 27:64-83.

Brandon, D. L., C. R. Lee, J. W. Simmers, H. E. Tatem, and J. G. Skogerboe. 1991. Information Summary, Area of Concern: Saginaw River and Saginaw Bay. Final Report, prepared by USEPA.

Brandt, S., J. DePinto, M. Hansen, K. Hartman, E. Mills, R. O'Gorman, P. Rand, H. Riessen, L. Rudstam, R. Snyder, and D. Stewart. 1996. A Review of the Current Status of Lake Ontario's Pelagic Fish Community. Report of

the 1996 Lake Ontario Technical Panel. Great Lakes Research Review 2(2):4-10.

Brandt, S. B., J. J. Magnuson, and L. B. Crowder. 1980. Thermal Habitat Partitioning by Fishes in Lake Michigan. Can. J. Fish. Aquat. Sci. 37:1557-1564.

Branson, D. R., G. E. Blau, H. C. Alexander, and W. B. Neely. 1975. Bioconcentration of 2,2',4,4'-Tetrachlorobiphenyl in Rainbow Trout as Measured by an Accelerated Test. Trans. Amer. Fish. Soc. 4:785-792.

Braune, B. M., and R. J. Norstrom. 1989. Dynamics of Organochlorine Compounds in Herring Gulls: II, Tissue Distribution and Bioaccumulation in Lake Ontario Gulls. Environ. Toxicol. Chem. 8:957-968.

Bray, R. N. 1979. Dredging: A Handbook for Engineers. Edward Arnold (Publishers) Ltd, London.

Brazner, J., and W. DeVita. 1998. PCBs, DDE, and Mercury in Young-of-The-Year Littoral Fishes from Green Bay, Lake Michigan. J. Great Lakes Res. 24(1):83-92.

Brazner, J. C., and J. J. Magnuson. 1994. Patterns of Fish Species Richness and Abundance in Coastal Marshes and Other Nearshore Habitats in Green Bay, Lake Michigan. Verh. Internat. Verein. Limnol. 25:2098-2104.

Bremle, G. 1997. Polychlorinated Biphenyls (PCBs) in a River Ecosystem. Ph.D. Dissertation, Departement of Ecology, Chemical Ecology and Ecotoxicology, Lund University, Sweden.

Brewer, R., G. A. McPeak, and R. J. Adams. 1991. The Atlas of Breeding Birds of Michigan. Michigan State University Press, East Lansing.

Brezner, S., J. Terkel, and A. S. Perry. 1984. The Effect of Aroclor 1254 (PCB) on the Physiology of Reproduction in the Female Rat - I. Comp. Biochem. Physiol. 77C(1):65-70.

Briggs, D. M., and J. R. Harris. 1973. Polychlorinated Biphenyls Influence on Hatchability. Poultry Science 52:1291-1294.

Britton, W. M., and T. M. Huston. 1973. Influence of Polychlorinated Biphenyls in the Laying Hen. Poultry Science 52:1620-1624.

Broley, C. L. 1958. The Plight of the American Bald Eagle. Audubon Magazine 60:162-163.

Brouwer, A. 1991. Role of Biotransformation in PCB-Induced Alterations in Vitamin A and Thyroid Hormone Metabolism in Laboratory and Wildlife Species, Pages 731-737 in The Role of Enzymes in Regulating the Toxicity of Xenobiotics (,). Reading University, Reading, PA.

Brouwer, A., A. J. Murk, and J. H. Koeman. 1990. Biochemical and Physiological Approaches in Ecotoxicology. Func. Ecol. 4:275-281.

- Brouwer, A., K. J. Van den Berg, and A. Kukler. 1985. Time and Dose Responses of the Reduction in Retinoid Concentrations in C57BL/Rij and DBA/2 Mice Induced by 3,4,3',4'-tetrachlorobiphenyl. *Toxicol. Appl. Pharmacol.* 78:180-189.
- Brown, J. F. J., G. M. Frame II, D. R. Olson, and J. L. Webb. 1995. The Sources of the Coplanar PCBs. *Organohalogen Compounds* 26:427-430.
- Brown, J. F. J., and R. E. Wagner. 1990. PCB Movement, Dechlorination, and Detoxication in the Acushnet Estuary. *Environ. Toxicol. Chem.* 9:1215-1233.
- Brown, J. F. J., R. E. Wagner, H. Feng, D. L. Bedard, M. J. Brennan, J. C. Carnahan, and R. J. May. 1987. Environmental Dechlorination of PCBs. *Environ. Toxicol. Chem.* 6:579-593.
- Brown, S. B., K. Haya, L. Burrige, E. O. Swansburg, J. T. Arsenault, J. G. Eales, J. Sherry, D. Bennie, and W. L. Fairchild. 1998. Effects of Water-Borne 4-Nonylphenol on Atlantic Salmon (*Salmo salar*) Smolts. Poster presentation at 25th Annual Aquatic Toxicity Workshop, Quebec City, PQ (October 1998); Poster presentation at SETAC 19th Annual Meeting, Charlotte, NC (November 1998).
- Brownawell, B. J., R. D. Flood, and X. Wang. 1994. The Role of Seasonal Resuspension in Contaminant Cycling in Lake Ontario. *Great Lakes Research Review* 1(1):29-35.
- Brown County Park Commission. 1990. Brown County, Wisconsin Open Space and Outdoor Recreation Plan, 1990 Update. Developed by Ad Hoc Recreation Committee of the Brown Co. Park Commission, Brown County Planning Commission Staff Report No. 113, February 1990.
- Brown County Planning Commission. 1989. Village of Ashwaubenon Comprehensive Park and Recreation Plan. Adopted January 24, 1989.
- Brown County Planning Commission. 1991. Town of Bellevue Comprehensive Outdoor Recreation Plan. Staff Report No. 124, December 1991.
- Brown County Planning Commission. 1991. Town of Hobart Comprehensive Outdoor Recreation Plan. Staff Report No. 121, June 1991.
- Brown County Planning Commission. 1994. Village of Howard Comprehensive Outdoor Recreation Plan. Staff Report No. 132, February 1994.
- Brown County Planning Commission, and Brown County Park Department. 1995. Kelly to Howard State Recreational Trail Master Plan. Staff Report No. 136, January 1995.
- Brown County Planning Commission, and East River Parkway Committee. 1991. East River Parkway Plan, Town of Bellevue. March 1991.
- Broyles, R. H., and M. I. Noveck. 1979. Uptake and Distribution of 2,5,2',5'-Tetrachlorobiphenyl in Developing Lake Trout. *Toxicol. Appl. Pharmacol.* 50:291-298.

Broyles, R. H., and M. I. Noveck. 1979. Uptake and Distribution of 2,4,5,2',4',5'-Hexachlorobiphenyl in Fry of Lake Trout and Chinook Salmon and its Effects on Viability. *Toxicol. Appl. Pharmacol.* 50:299-308.

Bruggerman, W. A., L. B. J. M. Martron, D. Kooiman, and O. Hutzinger. 1981. Accumulation and Elimination Kinetics of Di-, Tri-, and Tetrachlorobiphenyls by Goldfish After Dietary and Aqueous Exposure. *Chemosphere* 10:811-815.

Brumley, C. M., V. S. Haritos, J. T. Ahokas, and D. A. Holdway. 1995. Validation of Biomarkers of Marine Pollution Exposure in Sand Flathead Using Aroclor 1254. *Aquat. Toxicol.* 31:249-262.

Bruner, K. A., S. W. Fisher, and P. F. Landrum. 1994. The Role of the Zebra Mussel, *Dreissena polymorpha*, in Contaminant Cycling: I. The Effect of Body Size and Lipid Content on the Bioconcentration of PCBs and PAHs. *J. Great Lakes Res.* 20(4):725-734.

Bruner, K. A., S. W. Fisher, and P. F. Landrum. 1994. The Role of the Zebra Mussel, *Dreissena polymorpha*, in Contaminant Cycling: II. Zebra Mussel Contaminant Accumulation from Algae and Suspended Particles, and Transfer to the Benthic Invertebrate, *Gammarus fasciatus*. *J. Great Lakes Res.* 20(4):735-750.

Brunstrom, B. 1988. Sensitivity of Embryos from Duck, Goose, Herring Gull, and Various Chicken Breeds to 3,3',4,4'-Tetrachlorobiphenyl. *Poultry Science* 67:52-57.

Brunstrom, B. 1989. Toxicity of Coplanar Polychlorinated Biphenyls in Avian Embryos. *Chemosphere* 19:765-768.

Brunstrom, B. 1990. Mono-ortho-chlorinated Chlorobiphenyls: Toxicity and Induction of 7-ethoxyresorufin O-deethylase (EROD) Activity in Chick Embryos. *Arch. Toxicol.* 64:188-192.

Brunstrom, B. 1991. Effects of Various Fractions of Clophen A50 on Hepatic EROD Activities in Adult Female Mink and Their Kids. In: *Proceedings of DIOXIN '91*, Vol. 1, 73-76.

Brunstrom, B. 1992. Induction of Cytochrome P-450-Dependent Enzyme Activities in Female Mink (*Mustela vison*) and their Kits by Technical PCB Preparations and Fractions Thereof. *Ambio* 21(8):585.

Brunstrom, B., and L. Andersson. 1988. Toxicity and 7-Ethoxyresorufin O-Deethylase-Inducing Potency of Coplanar Polychlorinated Biphenyls (PCBs) in Chick Embryos. *Arch. Toxicol.* 62:263-266.

Brunstrom, B., D. Broman, and C. Naf. 1990. Embryotoxicity of Polycyclic Aromatic Hydrocarbons (PAHs) in Three Domestic Avian Species, and of PAHs and Coplanar Polychlorinated Biphenyls (PCBs) in the Common Eider. *Environ. Pollut.* 67:133-143.

Brunstrom, B., H. Hakansson, and K. Lundberg. 1991. Effects of a Technical PCB Preparation and Fractions Thereof on Ethoxyresorufin O-Deethylase Activity, Vitamin A Levels and Thymic Development in the Mink (*Mustela vison*). *Pharmacology and Toxicology* 69:421-426.

Brunstrom, B., and J. Lund. 1988. Differences Between Chick and Turkey Embryos in Sensitivity to 3,3',4,4'-tetrachlorobiphenyl and in Concentration/Affinity of the Hepatic Receptor for 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Comp. Biochem. Physiol.* 91C:507-512.

Brunstrom, B., and L. Reutergardh. 1986. Differences in Sensitivity of Some Avian Species to the Embryotoxicity of a PCB, 3,3'4,4'-Tetrachlorobiphenyl, Injected into the Eggs. *Environ. Pollut. (Series A)*, 42:37-45.

Brussels. 1995. Town of Brussels Outdoor Recreation Plan. April 1995.

Bruzner, J., and W. DeVita. 1998. PCBs, DDE, and Mercury in Young-of-the-Year Littoral Fishes from Green Bay, Lake Michigan. *J. Great Lakes Res.* 24(1):83-92.

Buelow, C. R. 1982. Organics in the Lower Fox River System: Selected Neutral Compounds. MS Thesis, University of Wisconsin, Madison.

Buisson, R. S. K., P. W. W. Kirk, and J. N. Lester. 1990. Fate of Selected Chlorinated Organic Compounds During Semi-Continuous Anaerobic Sludge Digestion. *Arch. Environ. Contam. Toxicol.* 19:428-432.

Bulger, F. A. 1993. The Evolution of the "Grossly Disproportionate" Standard in Natural Resource Damage Assessments. *Baylor Law Review* 45(2), Spring 1993:459-471.

Burger, J., and M. Gochfeld. 1991. *The Common Tern: Its Breeding Biology and Social Behavior*. Columbia University Press, New York, NY.

Burke, M. D., and R. T. Mayer. 1974. Ethoxyresorufin: Direct Fluorimetric Assay of a Microsomal O-Dealkylation Which is Preferentially Inducible by 3-Methylcholanthrene. *Drug Metabolism and Disposition* 2(6):583-588.

Burkhard, L., D. Armstrong, and A. Andren. 1985. Partitioning Behavior of Polychlorinated Biphenyls. *Chemosphere* 14:1703-1716.

Burkhard, L. P., and D. Weininger. 1987. Determination of Polychlorinated Biphenyls Using Multiple Regression with Outlier Detection and Elimination. *Analytical Chemistry* 59(8):1187-1190.

Burness, G. P., R. D. Morris, and J. P. Bruce. 1994. Seasonal and Annual Variation in Brood Attendance, Prey Type Delivered to Chicks, and Foraging Patterns of Male Common Terns (*Sterna hirundo*). *Can. J. Zool.* 72:1243-1251.

Bush, B., A. H. Bennett, and J. T. Snow. 1986. Polychlorobiphenyl Congeners, p,p'-DDE, and Sperm Function in Humans. *Arch. Environ. Contam. Toxicol.* 15:333-341.

Byrne, J. J., and D. W. Sepkovic. 1987. Inhibition of Monovalent Cation Transport Across the Cell Membrane by Polychlorinated Biphenyl but not by Polybrominated Biphenyl. *Arch. Environ. Contam. Toxicol.* 16:573-577.

Cahill, R. A. 1981. *Geochemistry of Lake Michigan Sediments*. Circular 517, Illinois State Geological Survey. 94 pp.

Calabrese, E., and L. Baldwin. 1993. *Performing Ecological Risk Assessments*. Lewis Publishers, Chelsea, Michigan.

Call, D. J., M. D. Balcer, L. T. Brooke, S. J. Lozano, and D. D. Vaishnav. 1991. *Sediment Quality Evaluation in the Lower Fox River and Southern Green Bay of Lake Michigan*. Center for Lake Superior Environmental Studies. University of Wisconsin, Superior, WI.

Callahan, M. A., M. W. Slimak, N. W. Gabel, and I. P. May. 1979. *Water-Related Environmental Fate of 129 Priority Pollutants*. Volume I and II. EPA-440/4-79-029a, US.EPA, Washington, DC.

Camanzo, J., C. P. Rice, D. J. Jude, and R. Rossman. 1987. Organic Priority Pollutants in Nearshore Fish From 14 Lake Michigan Tributaries and Embayments. *J. Great Lakes Res.* 13(3):296-309.

Camp, B. J., E. Hejtmancik, and C. Armour. 1974. Acute Effects of Aroclor 1254 (PCB) on *Ictalurus punctatus* (Catfish). *Bull. Environm. Contam. Toxicol.* 12(2):204-208.

Campbell, T. A. 1993. Natural Resource Damage Assessments: A Glance Backward and a Look Forward. *Baylor Law Review* 45(2), Spring 1993:221-232.

Campo, J. J., B. C. Thompson, J. C. Barron, R. C. Telfair II, P. Durocher, and S. Gutreuter. 1993. Diet of Double-Crested Cormorants Wintering in Texas. *J. Field Ornithol.* 64(2):135-144.

Cantara Trustee Council. 1996. *Cantara Trustee Council Annual Report, 1996*. Progress report on the Sacramento River restoration.

Canter, K. J., and G. R. De Snoo. 1993. Chemical Threat to Birds and Mammals in The Netherlands. *Rev. Environ. Contam. Toxicol.* 130:1-29.

Cantrell, S. M., M. Hannink, and D. Tillitt. 1996. N-Acetyl Cysteine Provides Partial Protection Against TCDD-Induced Lethality in Fish Embryos. *Marine Environ. Res.* 42(1-4):113-118.

Carlson, R. W., and R. T. Duby. 1973. Embryotoxic Effects of Three PCBs in the Chicken. *Bull. Environm. Contam. Toxicol.* 9:261-266.

Carney, S. M., M. F. Sorensen, and E. M. Martin. 1975. *Distribution in States and Counties of Waterfowl Species Harvested During 1961-70 Hunting Seasons*. U.S. FWS Special Scientific Report - Wildlife No. 187.

Carney, S. M., M. F. Sorensen, and E. M. Martin. 1983. Distribution of Waterfowl Species Harvested in States and Counties During 1971-80 Hunting Seasons. U.S. FWS Special Scientific Report - Wildlife No. 254.

Carpenter, D. O. 1994. Multidisciplinary Study of Hazardous Wastes at a Great Lakes Superfund Site. Great Lakes Research Review 1(1):37-39.

Carpenter, S. R. 1995. Forum: Organochlorine Contaminants in the Great Lakes. Ecological Applications 5(2):291-292.

Carr, R. A., R. L. Durfee, and E. G. McKay. 1977. PCBs Involvement in the Pulp and Paper Industry. Prepared by Versar, Inc., Springfield, Virginia, for the U.S. EPA, Washington, DC, February 25. EPA 560/6-77-005.

Carrick, H. J., and G. L. Fahnenstiel. 1989. Biomass, Size Structure, and Composition of Phototrophic and Heterotrophic Nanoflagellate Communities in Lakes Huron and Michigan. Can. J. Fish. Aquat. Sci. 46:1922-1928.

Carson, R. T., W. Hanemann, R. Kopp, J. Krosnik, R. Mitchell, S. Presser, P. Ruud, and V. K. Smith. 1994. Prospective Interim Lost Use Value Due to DDT and PCB Contamination in the Southern California Bight. Prepared by Natural Resource Damage Assessment, Inc. for NOAA. September.

Carson, R. T., W. M. Hanemann, R. J. Kopp, J. A. Krosnick, R. C. Mitchell, S. Presser, P. A. Ruud, and V. K. Smith. 1994. Prospective Interim Lost Use Value Due to DDT and PCB Contamination in the Southern California Bight - Volume I. Prepared by Natural Resource Damage Assessment, Inc., for the National Oceanic and Atmospheric Administration. September 30.

Carson, R. T., R. C. Mitchell, W. M. Hanemann, R. J. Kopp, S. Presser, and P. A. Ruud. 1992. A Contingent Valuation Study of Lost Passive Use Values Resulting from the Exxon Valdez Oil Spill. Prepared for the Attorney General of the State of Alaska. November 10.

Carson, R. T., J. Wright, A. Alberini, N. Carson, and N. Flores. 1994. A Bibliography of Contingent Valuation Studies and Papers. Prepared by Natural Resource Damage Assessment, Inc., La Jolla, California. March.

Carter, J. W., and S. I. Koo. 1988. Evaluation of the Polychlorobiphenyl Aroclor 1254 in an Animal Model of Atherosclerosis. Arch. Environ. Contam. Toxicol. 17:307-312.

Casillas, E., D. Misitano, L. L. Johnson, L. D. Rhodes, T. K. Collier, J. E. Stein, B. B. McCain, and U. Varanasi. 1991. Inducibility of Spawning and Reproductive Success of Female English Sole (*Parophrys vetulus*) from Urban and Nonurban Areas of Puget Sound, Washington. Marine Environ. Res. 31:99-122.

Casselman, J. M., D. M. Brown, and J. A. Hoyle. 1996. Resurgence of Lake Whitefish, *Coregonus clupeaformis*, in Lake Ontario in the 1980s. Great Lakes Research Review 2(2):20-28.

Cattin, P., and D. R. Wittink. 1982. Commercial Use of Conjoint Analysis: A Survey. *Journal of Marketing* 46(Summer):44-53.

Caulkins, P. P., R. C. Bishop, and N. W. Bouwes. 1986. The Travel Cost Model for Lake Recreation: A Comparison of Two Methods for Incorporating Site Quality and Substitution Effects. *Amer. J. Ag. Econ.* 68(2):291-297.

Cecil, H. C., J. Bitman, R. J. Lillie, G. F. Fries, and J. Verrett. 1974. Embryotoxic and Teratogenic Effects in Unhatched Fertile Eggs from Hens Fed Polychlorinated Biphenyls (PCBs). *Bull. Environm. Contam. Toxicol.* 11(6):489-495.

Cecil Consulting. 1997. Conference on Restoration of Lost Human Uses of the Environment. Washington, D.C., May 7 & 8, 1997.

Celander, M., M. J. Leaver, S. G. George, and L. Forlin. 1993. Induction of Cytochrome P450 1A1 and Conjugating Enzymes in Rainbow Trout (*Oncorhynchus mykiss*) Liver: A Time Course Study. *Comp. Biochem. Physiol.* 106C(2):343-349.

Chambers, R. L., and B. J. Eadie. 1980. Nearshore Chemistry in the Vicinity of the Grand River, Michigan. Great Lakes Environmental Research Laboratory. NOAA Technical Memorandum ERL GLERL-28, Ann Arbor, Michigan.

Chan, C. H., and L. H. Perkins. 1989. Monitoring of Trace Organic Contaminants in Atmospheric Precipitation. *J. Great Lakes Res.* 15:465-475.

Chapman, J. A., and G. A. Feldhamer [eds.]. 1982. *Wild Mammals of North America: Biology, Management, Economics*. The Johns Hopkins University Press, Baltimore.

Chapman, R. G. 1984. An Approach to Estimating Logit Models of a Single Decision Maker's Choice Behavior. *Advances in Consumer Research* 11:656-661.

Chen, R. L., D. R. Keeney, and T. H. McIntosh. 1983. The Role of Sediments in the Nitrogen Budget of Lower Green Bay, Lake Michigan. *J. Great Lakes Res.* 9(1):23-31.

Chen, S.-W., P. J. Dziuk, and B. M. Francis. 1994. Effect of Four Environmental Toxicants on Plasma Ca and Estradiol 17B and Hepatic P450 in Laying Hens. *Environ. Toxicol. Chem.* 13:789-796.

Chen, T. T., P. C. Reid, R. V. Beneden, and R. A. Sonstegard. 1986. Effect of Aroclor 1254 and Mirex on Estradiol-Induced Vitellogenin Production in Juvenile Rainbow Trout (*Salmo gairdneri*). *Can. J. Fish. Aquat. Sci.* 43:169-173.

Chen, T. T., and R. A. Sonstegard. 1984. Development of a Rapid, Sensitive and Quantitative Test for the Assessment of the Effects of Xenobiotics on Reproduction in Fish. *Marine Environ. Res.* 14:429-430.

Cho, C. Y. 1983. Nutrition and Fish Health, Pages 63-73 in A Guide to Integrated Fish Health Management in the Great Lakes Basin, Special Publication No. 83-2 ed. (F. P. Meyer, J. W. Warren, and T. G. Carey, Eds.). Great Lakes Fishery Commission, Ann Arbor, MI.

Choksi, N. Y., P. R. S. Kodavanti, and R. G. Booth. 1997. Effects of Polychlorinated Biphenyls (PCBs) on Brain Tyrosine Hydroxylase Activity and Dopamine Synthesis in Rats. *Fundamental and Applied Toxicology* 39:76-80.

Chou, S. F. J., and R. A. Griffin. 1986. Solubility and Soil Mobility of Polychlorinated Biphenyls, Pages 101-120 in PCBs and the Environment, Vol. I (J. S. Waid, Ed.). CRC Press, Boca Raton, FL.

Christie, J., and L. Meyers. 1987. Biota and Habitat Management Technical Advisory Committee Report. Lower Green Bay Remedial Action Plan, PUBL-WR-165 87.

Chu, I., D. C. Villeneuve, A. Yagminas, P. Lecavalier, H. Hakansson, U. G. Ahlborg, V. E. Valli, S. W. Kennedy, A. Bergman, R. F. Seegal, and M. Feeley. 1995. Toxicity of PCB 77 (3,3',4,4'-Tetrachlorobiphenyl) and PCB 118 (2,3',4,4',5-Pentachlorobiphenyl) in the Rat Following Subchronic Dietary Exposure. *Fundamental and Applied Toxicology* 26:282-292.

Ciborowski, J., and L. Corkum. 1988. Organic Contaminants in Adult Aquatic Insects of the St. Clair and Detroit Rivers, Ontario, Canada. *J. Great Lakes Res.* 14(2):148-156.

CIESIN. 1995. Compendium of Great Lakes Data Sets. Developed by The Consortium for International Earth Science Information Network (CIESIN), for the U.S.EPA, Cooperative Agreement CX821505 (Task 4), May 31.

CIESIN. 1997. Lower Green Bay and Fox River Area Of Concern. Report: <http://epaserver.ciesin.org/glreis/nonpo/nprog/aocrap/michigan/fox-home.html>; 9/16/97.

Clapp, R., P. deFur, E. Silbergeld, and P. Washburn. 1995. EPA on the Right Track. *Environ. Sci. Technol.* 29(1):29A-30A.

Clark, D. R., Jr. 1981. Bats and Environmental Contaminants: A Review. Special Scientific Report - Wildlife No. 235, U.S. Fish and Wildlife Service, Department of the Interior, Washington, D.C. 27 pages.

Clark, D. R., Jr., and R. M. Prouty. 1977. Experimental Feeding of DDE and PCB to Female Big Brown Bats (*Eptesicus fuscus*). *Journal of Toxicology and Environmental Health* 2:917-928.

Clark, D. R., Jr., and C. J. Stafford. 1981. Effects of DDE and PCB (Aroclor 1260) on Experimentally Poisoned Female Little Brown Bats (*Myotis lucifugus*): Lethal Brain Concentrations. *Journal of Toxicology and Environmental Health* 7:925-934.

- Clark, K. E., L. J. Niles, and W. Stansley. 1998. Environmental Contaminants Associated with Reproductive Failure in Bald Eagle Eggs in New Jersey. *Bull. Environm. Contam. Toxicol.* 61:247-254.
- Clarke, J., and V. McFarland. 1991. Assessing Bioaccumulation in Aquatic Organisms Exposed to Contaminated Sediments. U.S. Army Corps of Engineers Waterways Experiment Station Misc. Paper D-91-2.
- Clarkson, T. W., and D. O. Marsh. 1982. Mercury Toxicity in Man, Pages 549-568 in *Clinical, Biochemical, and Nutritional Aspects of Trace Elements*, Vol. 6 (A. S. Prasad, Ed.). Alan R. Liss, Inc., New York.
- Cleland, C. E., and R. C. Bishop. 1984. An Assessment of the Economic Conditions of the Bay Mills Indian Community, Sault St. Marie Tribe of Chippewa Indians, and Grand Traverse Band of Ottawa and Chippewa Indians, and a Cost-Return Analysis of Treaty Commercial Fishermen-1981. Prepared for the Native American Rights Fund. April.
- Cleland, G. B., P. J. McElroy, and R. A. Sonstegard. 1988. The Effect of Dietary Exposure to Aroclor 1254 and/or Mirex on Humoral Immune Expression of Rainbow Trout (*Salmo gairdneri*). *Aquat. Toxicol.* 2:141-146.
- Clement Associates. 1985. Chemical, Physical, and Biological Properties of Compounds Present at Hazardous Waste Sites. Final Report. Clement Associates, Inc. September 27, 1985.
- Clifford, P. A., D. E. Barchers, D. F. Ludwig, R. L. Sielken, J. S. Klingensmith, R. V. Graham, and M. I. Banton. 1995. An Approach to Quantifying Spatial Components of Exposure for Ecological Risk Assessment. *Environ. Toxicol. Chem.* 14(5):895-906.
- Cochrane, J. A., R. C. Bishop, and D. B. Ives. 1992. Lake Michigan Salmonid Stocking Costs in Wisconsin. *Marine Resource Economics* 7:169-185.
- Cocking, D., R. Hayes, M. L. King, M. J. Rohrer, R. Thomas, and D. Ward. 1991. Compartmentalization of Mercury in Biotic Components of Terrestrial Floodplain Ecosystems Adjacent to the South River at Waynesboro, VA. *Water, Air, Soil Pollut.* 57-58:159-170.
- Coffey, M. 1998. Screening Level Ecological Risk Assessment for Nahant Marsh, Davenport, Iowa. Final Report - June 9, 1998; Prepared by U.S. Fish & Wildlife Service for U.S. Environmental Protection Agency, Region VII.
- Cogswell, S. 1998. Fishery Surveys on Five Tributaries in the Oneida Indian Reservation, Wisconsin, 1997. Report No. 98-1, U.S. Fish and Wildlife Service Fishery Resources Office, 1015 Challenger Court, Green Bay, WI 54311, January 20, 1998.
- Cogswell, S., and D. Bougie. 1998. Duck Creek Fisheries Assessment, Final Report. Report 98-2, U.S. Fish and Wildlife Service, Green Bay Fishery Resources Office; Wisconsin Dept. of Natural Resources, Green Bay Area, October 30, 1998.

Colborn, T. 1991. Epidemiology of Great Lakes Bald Eagles. *Journal of Toxicology and Environmental Health* 33:395-454.

Colborn, T., and C. Clement [eds.]. 1993. *Chemically-Induced Alterations in Sexual and Functional Development: the Wildlife-Human Connection*. Princeton Scientific Publishing, Princeton, New Jersey.

Colborn, T., F. S. vom Saal, and A. M. Soto. 1993. Developmental Effects of Endocrine-Disrupting Chemicals in Wildlife and Humans. *Environ. Health Perspec.* 101(5):378-384.

Connelly, N. A., B. A. Knuth, and J. E. Vena. 1993. New York State Angler Cohort Study: Health Advisory Knowledge and Related Attitudes and Behavior, With a Focus on Lake Ontario. HDRU Series No. 93-9. September.

Connolly, J. F., T. F. Parkerton, J. D. Quadrini, S. T. Taylor, and A. J. Thumann. 1992. Development and Application of a Model of PCBs in the Green Bay, Lake Michigan Walleye and Brown Trout and their Food Webs. Prepared for U.S. EPA. October 2.

Connolly, J. P. 1993. Refined Bioaccumulation Models of Green Bay Walleye and Brown Trout and Their Food Webs. Memorandum Report, Hydroqual, December 1993, 19 pp.

Connolly, J. P., T. F. Parkerton, J. D. Quadrini, S. T. Taylor, and A. J. Thumann. 1992. Development and Application of a Model of PCBs in the Green Bay, Lake Michigan Walleye and Brown Trout and Their Food Webs. USEPA Cooperative Agreement CR-815396, October 2, 1992.

Connolly, J. P., and R. V. Thomann. 1982. Calculated Contribution of Surface Microlayer PCB to Contamination of Lake Michigan Lake Trout. *J. Great Lakes Res.* 8(2):367-375.

Connor, K., K. Ramamoorthy, M. Moore, M. Mustain, I. Chen, S. Safe, T. Zacharewski, B. Gillesby, A. Joyeu, and P. Balaguer. 1997. Hydroxylated Polychlorinated Biphenyls (PCBs) as Estrogens and Antiestrogens: Structure-Activity Relationships. *Toxicol. Appl. Pharmacol.* 145:111-123.

Cook, P. M., E. W. Zabel, and R. E. Peterson. 1997. The TCDD Toxicity Equivalence Approach for Characterizing Risks for Early Life Stage Mortality in Trout. In: *Chemical Induced Alterations in Functional Development of Reproduction of Fishes*, Proceedings from a Session at the 1995 Wingspread Conference. Society of Environmental Toxicology and Chemistry.

Cooke, A. S. 1973. Shell Thinning in Avian Eggs by Environmental Pollutants. *Environ. Pollut.* 4:85-152.

Cooke, P. S., Y.-D. Zhao, and L. G. Hansen. 1996. Neonatal Polychlorinated Biphenyl Treatment Increases Adult Testis Size and Sperm Production in the Rat. *Toxicol. Appl. Pharmacol.* 136:112-117.

Coon, N. C. 1983. Organochlorines in Bald Eagle Eggs. Progress Reports from the Patuxent Wildlife Research Center for the Year 1982. U.S. FWS, Washington, DC.

Cooper, W. E. 1995. Risks of Organochlorine Contaminants to Great Lakes Ecosystems are Overstated. *Ecological Applications* 5(2):293-298.

Costanza, R., R. D'Arge, R. De Groot, S. Farber, M. Grasso, B. Hannon, K. Limburg, S. Naeem, R. V. O'Neill, J. Paruelo, R. G. Raskin, P. Sutton, and M. Van Den Belt. 1997. The Value of the World's Ecosystem Services and Natural Capital. *Nature* 387:253-260.

Cotham, W. E., and T. F. Bidleman. 1995. Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls in Air at an Urban and a Rural Site near Lake Michigan. *Environ. Sci. Technol.* 29:2782-2789.

Courtney, P., and H. Blokpoel. 1980. Food and Indicators of Food Availability for Common Terns on the Lower Great Lakes. *Can. J. Zool.* 58:1318-1323.

Crane, J. L. 1996. Carcinogenic Human Health Risks Associated with Consuming Contaminated Fish from Five Great Lakes Areas of Concern. *J. Great Lakes Res.* 22(3):653-668.

Croke, K., R. Fabian, and G. Brenniman. 1986-1987. Estimating the Value of Improved Water Quality in an Urban River System. *Journal of Environmental Systems* 16(1):13-23.

Croley, T. E. 1992. Long-term Heat Storage in the Great Lakes. *Water Resources Research* 28:69-81.

Cross, G. R., C. Flores-Pineda, and E. Hindin. 1990. Expert Systems for Hazardous Waste Remedial Action Decisions. *Hazardous Waste & Hazardous Materials* 7(2):185-200.

Cross, J. N., and J. E. Hose. 1988. Evidence for Impaired Reproduction in White Croaker (*Genyonemus lineatus*) from Contaminated Areas Off Southern California. *Marine Environ. Res.* 24:185-188.

Cubbage, J., S. Breidenbach, B. Betts, and T. Gries. 1994. Creation of Freshwater Sediment Quality Database and Preliminary Analysis of Freshwater Apparent Effects Thresholds. Washington State Department of Ecology, Olympia, Washington. Document 94-118.

Custer, C. M., T. W. Custer, P. D. Allen, and K. L. Stromborg. 1995. Contaminants and Tree Swallows in the Fox River Drainage, Green Bay, Wisconsin. *NBS Information Bulletin* No. 28.

Custer, C. M., T. W. Custer, P. D. Allen, K. L. Stromborg, and M. J. Melancon. 1998. Reproduction and Environmental Contamination in Tree Swallows Nesting in the Fox River Drainage and Green Bay, Wisconsin, USA. *Environ. Toxicol. Chem.* 17(9):1786-1798.

Custer, T. W., J. W. Bickham, T. B. Lyne, T. Lewis, L. A. Ruedas, C. M. Custer, and M. J. Melancon. 1994. Flow Cytometry for Monitoring Contaminant Exposure in Black-Crowned Night-Herons. *Arch. Environ. Contam. Toxicol.* 27:176-179.

Custer, T. W., and C. Bunck. 1992. Feeding Flights of Breeding Double-Crested Cormorants at Two Wisconsin Colonies. *J. Field Ornithol.* 63(2):203-211.

Custer, T. W., and C. M. Custer. 1995. Transfer and Accumulation of Organochlorines from Black-Crowned Night-Heron Eggs to Chicks. *Environ. Toxicol. Chem.* 14(3):533-536.

Custer, T. W., C. M. Custer, R. K. Hines, S. Gutreuter, K. L. Stromborg, P. D. Allen, and M. J. Melancon. 1999. Organochlorine Contaminants and Reproductive Success of Double-Crested Cormorants from Green Bay, Wisconsin, USA. *Environ. Toxicol. Chem.* 18(6):1209-1217.

Custer, T. W., C. M. Custer, R. K. Hines, S. Gutreuter, K. L. Stromborg, P. D. Allen, and M. J. Melancon. In press. Organochlorine Contaminant Effects on Double-Crested Cormorants Nesting in Green Bay, Wisconsin. *Environ. Toxicol. Chem.*

Custer, T. W., C. M. Custer, and K. L. Stromborg. 1997. Distribution of Organochlorine Contaminants in Double-Crested Cormorant Eggs and Sibling Embryos. *Environ. Toxicol. Chem.* 16(8):1646-1649.

Custer, T. W., and G. H. Heinz. 1980. Reproductive Success and Nest Attentiveness of Mallard Ducks Fed Aroclor 1254. *Environ. Pollut. A* 21:313-318.

Custer, T. W., R. K. Hines, M. J. Melancon, D. J. Hoffman, J. K. Wickliffe, J. W. Bickham, J. W. Martin, and D. S. Henshel. 1997. Contaminant Concentrations and Biomarker Response in Great Blue Heron Eggs from 10 Colonies on the Upper Mississippi River, USA. *Environ. Toxicol. Chem.* 16(2):260-271.

Custer, T. W., R. K. Hines, P. M. Stewart, M. J. Melancon, D. S. Henshel, and D. W. Sparks. 1998. Organochlorines, Mercury, and Selenium in Great Blue Heron Eggs from Indiana Dunes National Lakeshore, Indiana. *J. Great Lakes Res.* 24(1):3-11.

Custer, T. W., G. Pendleton, and H. M. Ohlendorf. 1990. Within- and Among-Clutch Variation of Organochlorine Residues in Eggs of Black-Crowned Night-Herons. *Environmental Monitoring and Assessment* 15:83-89.

Custer, T. W., B. A. Rattner, H. M. Ohlendorf, and M. J. Melancon. 1991. Herons and Egrets as Proposed Indicators of Estuarine Contamination in the United States. *Acta XX Congressus Internationalis Ornithologici*:2474-2479.

Cutkomp, L. K., H. H. Yap, D. Desai, and R. B. Koch. 1972. The Sensitivity of Fish ATPases to Polychlorinated Biphenyls. *Environ. Health Perspec.*:165-168.

Da Costa, E. G., and L. R. Curtis. 1995. Bioaccumulation of Dietary 2,2',4,4',5,5'-Hexachlorobiphenyl and Induction of Hepatic Arylhydrocarbon Hydroxylase in Rainbow Trout (*Oncorhynchus mykiss*). *Environ. Toxicol. Chem.* 14(10):1711-1717.

Dahlgren, J. H., and R. L. Linder. 1974. Effects of Dieldrin in Pinned Pheasants Through the Third Generation. *J. Wildl. Mgmt.* 38:320-330.

Dahlgren, R. B. 1991. Fur Trapping Records from the Upper Mississippi River Wildlife and Fish Refuge, 1939-1988, Pages 6-11 in Proceedings of the Expert Consultation Meeting on Mink and Otter (E. M. Addison, G. A. Fox, and M. Gilbertson, Eds.). International Joint Commission, Windsor, Ontario.

Dahlgren, R. B., R. J. Bury, R. L. Linder, and R. F. J. Reidinger. 1972. Residue Levels and Histopathology in Pheasants Given Polychlorinated Biphenyls. *J. Wildl. Mgmt.* 36:524-533.

Dahlgren, R. B., and R. L. Linder. 1971. Effects of Polychlorinated Biphenyls on Pheasant Reproduction, Behavior, and Survival. *J. Wildl. Mgmt.* 35(2):315-319.

Dahlgren, R. B., R. L. Linder, and C. W. Carlson. 1972. Polychlorinated Biphenyls: Their Effects on Pinned Pheasants. *Environ. Health Perspec.* 1:89-101.

Dale, T. B., and K. L. Stromborg. 1993. Reconnaissance Surveys of Contaminants Potentially Affecting Green Bay and Gravel Island National Wildlife Refuges. U.S. Fish and Wildlife Service, Green Bay Ecological Services Field Office, 1015 Challenger Court, Green Bay, WI 54311, December 1993.

Daly, H. B. 1993. Laboratory Rat Experiments Show Consumption of Lake Ontario Salmon Causes Behavioral Changes: Support for Wildlife and Human Research Results. *J. Great Lakes Res.* 19:784-788.

Daly, H. B., D. R. Hertzler, and D. M. Sargent. 1989. Ingestion of Environmentally Contaminated Lake Ontario Salmon by Laboratory Rats Increases Avoidance of Unpredictable Aversive Nonreward and Mild Electric Shock. *Behav. Neurosci.* 103(6).

Danse, I. R., R. J. Jaeger, R. Kava, M. Kroger, W. M. London, F. C. Lu, R. P. Maickel, J. J. McKetta, G. W. Newell, S. Shindell, F. J. Stare, and E. M. Whelan. 1997. Review: Position Paper of the American Council on Science and Health: Public Health Concerns about Environmental Polychlorinated Biphenyls (PCBs). *Ecotoxicol. Environ. Saf.* 38:71-84.

Dar, E., M. S. Kanarek, H. A. Anderson, and W. C. Sonzogni. 1992. Fish Consumption and Reproductive Outcomes in Green Bay, Wisconsin. *Environmental Res.* 59:189-201.

Das, S. K., A. Sharma, and G. Talukder. 1982. Effects of Mercury on Cellular Systems in Mammals - A Review. *Nucleus (Calcutta)* 25:193-230.

- David, M., L. M. Brondyk, and W. C. Sonzogni. 1994. Distribution of PCB Congeners in Sheboygan River (Wisconsin) Sediments. *J. Great Lakes Res.* 20:510-522.
- Davis, J. M., and D. J. Svendsgaard. 1994. U-Shaped Dose-Response Relationships in Toxicology. Published by the Society of Toxicology from a presentation given at the 33rd meeting of the society in Dallas, Texas, March, 1994 (with abstracts in Vol 14 No. 1 of the *Toxicologist*).
- Dean, K. E., M. M. Shafer, and D. E. Armstrong. 1993. Particle-Mediated Transport and Fate of a Hydrophobic Organic Contaminant in Southern Lake Michigan: The Role of Major Water Column Particle Species. *J. Great Lakes Res.* 19:480-496.
- DeAngelis, D. L., L. W. Barnthouse, W. VanWinkle, and R. G. Otto. 1990. A Critical Appraisal of Population Approaches in Assessing Fish Community Health. *J. Great Lakes Res.* 16(4):576-590.
- DeBruijn, J., F. Busser, W. Seinen, and J. Hermens. 1989. Determination of Octanol/Water Partition Coefficients for Hydrophobic Organic Chemicals with the "Slow-Stirring" Method. *Environ. Toxicol. Chem.* 8:499-512.
- DeFoe, D. L., G. D. Veith, and R. W. Carlson. 1978. Effects of Aroclor 1248 and 1260 on the Fathead Minnow (*Pimephales promelas*). *J. Fish. Res. Board Can.* 35:997-1002.
- Degurse, P., and V. Duter. 1975. Chlorinated Hydrocarbon Residues in Fish from Major Waters in Wisconsin. Wisconsin Department of Natural Resources and Bureau of Fish and Wildlife Management. July.
- De Haan, L. H. J., S. Halfwerk, S. E. L. Hovens, B. De Roos, J. J. Koeman, and A. Brouwer. 1995. Inhibition of Intercellular Communication and Induction of Ethoxyresorufin-O-Deethylase Activity by Polychlorobiphenyls, -Dibenzo-p-dioxins and -Dibenzofurans in Mouse hepalc1c7 Cells. *Environmental Toxicology and Pharmacology Preview Issue*:3-13.
- Delfino, J. J. 1979. Toxic Substances in the Great Lakes. *Environ. Sci. Technol.* 13(December):4.
- Delfino, J. J., and D. B. Easty. 1979. Interlaboratory Study of the Determination of Polychlorinated Biphenyls in a Paper Mill Effluent. *Analytical Chemistry* 51(13):2235-2239.
- DeLonay, A. J., E. E. Little, J. Lipton, D. Woodward, and J. Hansen. 1995. Avoidance Response as Evidence of Injury: the Use of Behavioral Testing in Support of Natural Resource Damage Assessments, Pages in *Environmental Toxicology and Risk Assessment* (T. W. LaPoint, F. T. Price, and E. E. Little, Eds.). American Society for Testing and Materials, Philadelphia.

den Boer, M. H. 1984. Reproduction Decline of Harbour Seals: PCBs in the Food and their Effect on Mink, Pages 77-86 in Annual Report 1983 (,). Research Institute for Nature Management, Arnhem, Leersum en Texel.

DePinto, J. V. 1994. Role of Mass Balance Modeling in Research and Management of Toxic Chemicals in the Great Lakes: The Green Bay Mass Balance Study. Great Lakes Research Review 1(1):1-8.

DePinto, J. V. 1994. Recalibrated Scenario Runs Using GBTOX Including Constant 1989 Loads, No Action and No Loads; Includes April 1994 FAX with Tabular Results. Memorandum Report, SUNY Buffalo, October 1993 and April 1994, 26 pp.

DePinto, J. V., and R. Narayanan. 1997. What Other Ecosystem Changes have Zebra Mussels Caused in Lake Erie: Potential Bioavailability of PCBs. Great Lakes Research Review 3(1):1-8.

DePinto, J. V., R. Raghunathan, V. J. Bierman, P. W. Rodgers, T. C. Young, and S. C. Martin. 1993. Analysis of Organic Carbon Sediment Water Exchange in Green Bay, Lake Michigan, USA. Water Science and Technology 28:149-159.

DePinto, J. V., R. Raghunathan, P. Sierzenga, X. Zhang, V. J. Bierman, P. W. Rodgers, and T. C. Young. 1994. Recalibration of GBTOX: An Integrated Exposure Model for Toxic Chemicals in Green Bay, Lake Michigan. SUNY, Buffalo. March 1994, approx 150 pp.

Desvousges, W., V. K. Smith, and A. Fisher. 1987. Option Price Estimates for Water Quality Improvements: A Contingent Valuation Study for the Monongahela River. J. Environ. Econ. Manag. 14:248-267.

Desvousges, W. H., and V. A. Skahen. 1987. Techniques to Measure Damages to Natural Resources. Final Report, Prepared for CERCLA 301 Task Force, U.S. DOI, Washington, D.C.

DeVault, D. 1983. Polychlorinated Dibenzo Dioxins in Fish from the Great Lakes and Region V Rivers. Prepared for the Great Lakes National Program Office.

DeVault, D. 1984. Polychlorinated Dioxins and Polychlorinated Furans in Fish from the Great Lakes and Midwest. Prepared for the U.S. EPA, Chicago, Illinois. EPA 905/3-84-006. October.

DeVault, D., W. Dunn, P. A. Bergqvist, K. Wiberg, and C. Rappe. 1989. Polychlorinated Dibenzofurans and Polychlorinated Dibenzo-p-dioxins in Great Lakes Fish: A Baseline and Interlake Comparison. Environ. Toxicol. Chem. 8:1013-1022.

DeVault, D., G. Lehvis, J. Barney, and H. Zar. 1986. Dioxin (2,3,7,8-tetrachlorodibenzo-p-dioxin) in Great Lakes Fish. U.S. EPA.

DeVault, D. S., J. M. Clark, G. Lahvis, and J. Weishaar. 1988. Contaminants and Trends in Fall Run Coho Salmon. J. Great Lakes Res. 14(1):23-33.

De Vault, D. S., R. Hesselberg, P. W. Rodgers, and T. J. Feist. 1996. Contaminant Trends in Lake Trout and Walleye From the Laurentian Great Lakes. *J. Great Lakes Res.* 22(4):884-895.

DeVault, D. S., R. Hesselberg, P. W. Rodgers, and T. J. Feist. 1997. Contaminant Trends in Lake Trout From the Laurentian Great Lakes. SETAC Abstract, April 1997; U.S. EPA, GLNPO.

DeVault, D. S., R. Hesselberg, P. W. Rogers, and T. J. Feist. 1996. Contaminant Trends in Lake Trout and Walleye from the Laurentian Great Lakes. *J. Great Lakes Res.* 22(4):884-895.

DeVault, D. S., W. A. Willford, and R. J. Hesselberg. 1985. Contaminant Trends in Lake Trout (*Salvelinus namaycush*) of the Upper Great Lakes. EPA 905/3-85-001 and GLFL no. 639. For US EPA, GLNPO.

DeVoogt, P., and U. Brinkman. 1989. Production, Properties, and Usage of Polychlorinated Biphenyls, Pages 3-46 in *Halogenated Biphenyls, Terphenyls, Naphthalenes, Dibenzodioxins and Related Products, Topics in Environmental Health ed., Vol. 4* (R. Kimbrough and A. Jensen, Eds.). Elsevier Press, Amsterdam.

DeWeese, L. R. 1985. Organochlorine Residues and Eggshell Measurements for Tree Swallows, *Tachycineta bicolor*, in Colorado. *Bull. Environm. Contam. Toxicol.* 35:767-775.

Dexter, R. N., W. G. Hines, E. Quinlan, and S. P. Pavlou. 1978. Dynamics of Polychlorinated Biphenyls in the Upper Mississippi River. Final Report. Phase I, Task 2: Evaluation of Compiled Information. URS Company, for the U.S. Fish & Wildlife Service, Contract Number 14-16-009-78-026.

Dickie, M., A. Fisher, and S. Gerking. 1987. Market Transactions and Hypothetical Demand Data: A Comparative Study. *Journal of the American Statistical Association* 82(397):69-75.

Dillon, T. M., W. H. Benson, R. A. Stackhouse, and A. M. Crider. 1990. Effects of Selected PCB Congeners on Survival, Growth, and Reproduction in *Daphnia magna*. *Environ. Toxicol. Chem.* 9:1317-1326.

Dilworth, T. G., J. A. Keith, P. A. Pearce, and L. M. Reynolds. 1972. DDE and Eggshell Thickness in New Brunswick Woodcock. *J. Wildl. Mgmt.* 36(4):1186-1193.

DiToro, D. M., and T. F. Parkerton. 1990. Technical Progress Report: Probabilistic Modeling and Uncertainty Analysis for Green Bay and Lake Ontario. Manhattan College, September 1990, 21 pp.

DiToro, D. M., and T. F. Parkerton. 1993. Final Report: Uncertainty Analysis Methodology for Green Bay Models. Manhattan College, November 1993, approx 60 pp.

Dolan, D. M., A. K. Yui, and R. D. Geist. 1981. Evaluation of River Load Estimation Methods for Total Phosphorus. *J. Great Lakes Res.* 7:207-214.

Dolbeer, R. A. 1991. Migration Patterns of Double-Crested Cormorants East of the Rocky Mountains. *J. Field Ornithol.* 62(1):83-93.

Donaldson, G. M., J. L. Shutt, and P. Hunter. 1999. Organochlorine Contamination in Bald Eagle Eggs and Nestlings from the Canadian Great Lakes. *Arch. Environ. Contam. Toxicol.* 36:70-80.

Door County Soil & Water Conservation Department, Kewaunee County Land Conservation Department, Brown County Land Conservation Department, WDNR, WDATCP, and City of Sturgeon Bay. 1996. Nonpoint Source Control Plan for the Red River/Sturgeon Bay Priority Watershed Project. The Wisconsin Nonpoint Source Water Pollution Abatement Program, Publication WT-466-96, August 1996.

Douglas, A. J., and R. L. Johnson. 1993. Instream Flow Assessment and Economic Valuation: A Survey of Nonmarket Benefits Research. *Intern. J. Environmental Studies* 43:89-104.

Duinker, J. C., D. E. Schulz, and G. Petrick. 1988. Multidimensional Gas Chromatography with Electron Capture Detection for the Determination of Toxic Congeners in Polychlorinated Biphenyl Mixtures. *Analytical Chemistry* 60(5):478-482.

Dunnivant, F. M., J. T. Coates, and A. W. Elzerman. 1988. Experimentally Determined Henry's Law Constants for 17 Polychlorobiphenyl Congeners. *Environ. Sci. Technol.* 22:448-453.

Dunstan, T. C., and J. F. Harper. 1975. Food Habits of Bald Eagles in North-Central Minnesota. *J. Wildl. Mgmt.* 39(1):140-143.

Durnil, G. K., E. D. Fulton, D. L. Totten, R. S. K. Welch, C. Lanthier, and H. P. Cleveland. 1990. Fifth Biennial Report Under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the State and Provincial Governments of the Great Lakes Basin. International Joint Commission, Washington, DC; Ottawa; Windsor. Part II.

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, Pages 118-133 in Transactions of the Thirty-Sixth North American Wildlife and Natural Resources Conference, March 7, 8, 9, 10, 1971 (,). Wildlife Management Institute, Washington, D.C.

Dykstra, C. J. R., and M. W. Meyer. 1996. Effects of Contaminants on Reproduction of Bald Eagles on Green Bay, Lake Michigan. U.S. FWS and Wisconsin DNR. February.

Dykstra, C. R., M. W. Meyer, D. K. Warnke, W. H. Karasov, D. E. Andersen, W. W. Bowerman, and J. P. Giesy. 1998. Low Reproductive Rates of Lake Superior Bald Eagles: Low Food Delivery Rates or Environmental Contaminants? *J. Great Lakes Res.* 24(1):32-44.

Eadie, B. J., G. L. Bell, and N. Hawley. 1991. Sediment Trap Study in the Green Bay Mass Balance Program: Mass and Organic Carbon Fluxes, Resuspension, and Particle Settling Velocities. NOAA Technical Memorandum ERL GLERL-75. 29 pp.

Eadie, B. J., N. R. Morehead, J. V. Klump, and P. F. Landrum. 1992. Distribution of Hydrophobic Organic Compounds Between Dissolved and Particulate Organic Matter in Green Bay Waters. J. Great Lakes Res. 18(1):91-97.

East Central Wisconsin Regional Planning Commission. 1993. Shawano County Outdoor Recreation Plan. April 1993.

East Central Wisconsin Regional Planning Commission. 1997. Fox River Locks Abandonment Issues. Recommendations for Lock Restoration, Recent and Proposed Waterfront Developments on the Lower Fox River, Major Tourist Attractions Accessible from the Lower Fox River; Report to the U.S. Army Corps of Engineers, January 1997.

East Central Wisconsin Regional Planning Commission. 1997. Fox River Heritage State Parkway Concept Plan. April, 1997.

Eastern Research Group Inc. 1998. Report from the Workshop on the Application of 2,3,7,8-TCDD Toxicity Equivalency Factors to Fish and Wildlife. Chicago, Illinois, January 20-22, 1998. Submitted to: Risk Assessment Forum, U.S. Environmental Protection Agency, March 31, 1998.

Easty, D. B., and B. A. Wabers. 1977. Determination of Polychlorinated Biphenyls in Paper Mill Effluents and Process Streams. Analytical Letters 10(11):857-867.

Easty, D. B., and B. A. Wabers. 1977. Determination of Polychlorinated Biphenyls in Paper Mill Effluents: The Influence of Suspended Solids. IPC Technical Paper Series Number 45, The Institute of Paper Chemistry, Appleton, Wisconsin, October 1977.

Eckstein, R., B. Ishmael, J. Nelson, M. Meyer, S. Stubenvoll, and L. Tesky. 1994. Wisconsin Bald Eagle and Osprey Surveys, 1993. Wisconsin Department of Natural Resources report.

ECWRPC. 1989. Lower Fox River/Winnebago Pool Long-Range Plan. East Central Wisconsin Regional Planning Commission.

Eder, T., P. Muldoon, M. Van Putten, and J. Jackson. 1991. A Prescription for Healthy Great Lakes. Report of the Program for Zero Discharge; a joint project of the National Wildlife Federation and the Canadian Institute for Environmental Law and Policy, February 1991.

Eder, T., and W. Schmidt. 1995. Organochlorine Contaminants in the Great Lakes: The Risks Are Real and Demand Action. Ecological Applications 5(2):298-301.

Edqvist, L.-E., A. Madej, and M. Forsberg. 1992. Biochemical Blood Parameters in Pregnant Mink Fed PCB and Fractions of PCB. *Ambio* 21(8):577.

Edsall, T. A., M. E. Holey, B. A. Manny, and G. W. Kennedy. 1995. An Evaluation of Lake Trout Reproductive Habitat on Clay Banks Reef, Northwestern Lake Michigan. *J. Great Lakes Res.* 21 (Supplement 1):418-432.

Edsall, T. A., and G. W. Kennedy. 1995. Availability of Lake Trout Reproductive Habitat in the Great Lakes. *J. Great Lakes Res.* 21 (Supplement 1):290-301.

Edwards, C. J., R. A. Ryder, and T. R. Marshall. 1990. Using Lake Trout as a Surrogate of Ecosystem Health for Oligotrophic Waters of the Great Lakes. *J. Great Lakes Res.* 16(4):591-608.

Egerton, F. N. 1987. Pollution and Aquatic Life in Lake Erie: Early Scientific Studies. *Environmental Review* 11(3):189-205.

Eggold, B. T., J. F. Amrhein, and M. A. Coshun. 1996. PCB Accumulation by Salmonine Smolts and Adults in Lake Michigan and its Tributaries and its Effect on Stocking Policies. *J. Great Lakes Res.* 22(2):403-413.

Eisenreich, S. J. 1987. The Chemical Limnology of Nonpolar Organic Contaminants: Polychlorinated Biphenyls in Lake Superior, Pages 393-469 in *Sources and Fates of Aquatic Pollutants* (R. A. Hites and S. J. Eisenreich, Eds.). American Chemical Society, .

Eisler, R. 1986. Contaminant Hazard Reviews, Report No. 7: Polychlorinated Biphenyl Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Fish and Wildlife Service, USDO, Laurel, MD. Biological Report 85(1.7).

Eisler, R. 1986. Dioxin Hazards to Fish, Wildlife and Invertebrates: A Synoptic Review. U.S. Fish and Wildlife Service Biological Report, 85(1.8), 37 pp.

Eisler, R. 1987. Mercury Hazards to Fish, Wildlife, and Invertebrates: a Synoptic Review. Biological Report 85(1.10). Contaminant Hazard Reviews Report No. 10. U.S. Fish and Wildlife Service, Laurel, MD.

Eisler, R., and A. A. Belisle. 1996. Planar PCB Hazards to fish, Wildlife, and Invertebrates: A Synoptic Review. U.S. DOI, NBS, Biological Report 31, Contaminant Hazard Reviews, August 1996, Report 31.

Elder, J. F., R. V. James, and J. J. Steuer. 1996. Mobility of 2,2',5,5'-Tetrachlorobiphenyl in Model Systems Containing Bottom Sediments and Water from the Lower Fox River, Wisconsin. *J. Great Lakes Res.* 22(3):697-706.

Elliott, J. E., S. W. Kennedy, and A. Lorenzen. 1997. Comparative Toxicity of Polychlorinated Biphenyls to Japanese Quail (*Coturnix c.*

japonica) and American Kestrels (*Falco sparverius*). *Journal of Toxicology and Environmental Health* 51:57-75.

Elliott, J. E., S. W. Kennedy, D. B. Peakall, and H. Won. 1990. Polychlorinated Biphenyl (PCB) Effects on Hepatic Mixed Function Oxidases and Porphyria in Birds. I. Japanese Quail. *Comp. Biochem. Physiol.* 96C:205-210.

Elliott, J. E., and R. J. Norstrom. 1998. Chlorinated Hydrocarbon Contaminants and Productivity of Bald Eagle Populations on the Pacific Coast of Canada. *Environ. Toxicol. Chem.* 17(6):1142-1153.

Elliott, J. E., R. J. Norstrom, and J. A. Keith. 1988. Organochlorines and Eggshell Thinning in Northern Gannets (*Sula bassanus*) from Eastern Canada. *Environ. Pollut.* 52:81-102.

Elliott, J. E., R. J. Norstrom, A. Lorenzen, L. E. Hart, H. Philibert, S. W. Kennedy, J. J. Stegeman, G. D. Bellward, and K. M. Cheng. 1996. Biological Effects of Polychlorinated Dibenzo-p-dioxins, dibenzofurans, and biphenyls in Bald Eagle (*Haliaeetus leucocephalus*) Chicks. *Environ. Toxicol. Chem.* 15:782-793.

Elliott, J. M. 1994. *Quantitative Ecology of the Brown Trout*. Oxford University Press, New York.

Elskus, A. A., R. Pruell, and J. J. Stegeman. 1992. Endogenously-Mediated, Pretranslational Suppression of Cytochrome P4501A in PCB-Contaminated Flounder. *Marine Environ. Res.* 34:97-101.

Elskus, A. A., J. J. Stegeman, J. W. Gooch, D. E. Black, and R. J. Pruell. 1994. Polychlorinated Biphenyl Congener Distributions in Winter Flounder as Related to Gender, Spawning Site, and Congener Metabolism. *Environ. Sci. Technol.* 28:401-407.

Endicott, D., M. Velleux, and K. Freeman. 1992. Development and Calibration of a Mass Balance Model for Estimating the Export of In-Place Pollutants from the Lower Fox River to Green Bay. December 1992.

Endicott, D. D., W. Richardson, and D. J. Kandt. 1992. MICHTOX: A Mass Balance and Bioaccumulation Model for Toxic Chemicals in Lake Michigan. USEPA/AScI, July 1992, 76 pp.

Endicott, D. D., W. L. Richardson, T. F. Parkerton, and D. M. Di Toro. Date unknown. A Steady State Mass Balance and Bioaccumulation Model for Toxic Chemicals in Lake Ontario. U.S. EPA Report to the Lake Ontario Fate of Toxics Committee. 120 pp.

Environment Canada. 1991. *Toxic Chemicals in the Great Lakes and Associated Effects*. Minister of Supply and Services Canada.

Environment Canada. 1995. *The Rise of the Double-Crested Cormorant on the Great Lakes: Winning the War Against Contaminants*. Great Lakes Fact Sheet. Environment Canada, Canadian Wildlife Service, Burlington, Ontario.

Environment Canada, and U.S. EPA. 1995. State of the Great Lakes. ISBN 0-662-61887-4/Catalogue No. En40-11/35-1995; EPA 905-R-95-010, July 1995.

Erdman, T. C., and J. P. Jacobs [eds.]. 1991. Birds of Brown County - A Checklist With Migration graphs. Richter Natural History Museum, UWGB, Green Bay. Research Report No. 3.

Erickson, M. D. 1997. Analytical Chemistry of PCBs. Lewis Publishers, New York.

Eriksson, P., U. Lundkvist, and A. Fredriksson. 1991. Neonatal Exposure to 3,3',4,4'-Tetrachlorobiphenyl: Changes in Spontaneous Behavior and Cholinergic Muscarinic Receptors in the Adult Mouse. *Toxicology* 69:27-34.

Erwin, R. M., and T. W. Custer. 1982. Estimating Reproductive Success in Colonial Waterbirds: An Evaluation. *Colonial Waterbirds* 5:49-56.

Eshenroder, R. L., M. E. Holey, T. K. Gorenflo, and R. D. Clark. 1995. Fish Community Objectives for Lake Michigan. Great Lakes Fishery Commission Special Publication 95-3. 56 p.

Etkin, D. S. 1994. The Financial Costs of Oil Spills. Cutter Information Corp., Arlington, MA.

Evans, D. O., M. A. Quigley, and J. A. Wojcik. 1990. Comparative Ecology of *Pontoporeia hoyi* Populations in Southern Lake Michigan: The Profundal Region Versus the Slope and Shelf Regions. *J. Great Lakes Res.* 16(1):27-40.

Evans, D. O., G. J. Warren, and V. W. Cairns. 1990. Assessment and Management of Fish Community Health in the Great Lakes: Synthesis and Recommendations. *J. Great Lakes Res.* 16(4):639-669.

Evans, M. S., G. E. Noguchi, and C. P. Rice. 1991. The Biomagnification of Polychlorinated Biphenyls, Toxaphene, and DDT Compounds in a Lake Michigan Offshore Food Web. *Arch. Environ. Contam. Toxicol.* 20:87-93.

Ewins, P. J., D. V. Weseloh, R. J. Norstrom, K. Legierse, H. J. Auman, and J. P. Ludwig. 1994. Caspian Terns on the Great Lakes: Organochlorine Contamination, Reproduction, Diet, and Population Changes, 1972-91. Occasional Paper Number 85, Canadian Wildlife Service.

Expert Panel on Chlorinated Organic Chemicals. 1994. Interpretive Review of the Potential Adverse Effects of Chlorinated Organic Chemicals on Human Health and the Environment. *Regulatory Toxicology and Pharmacology* 20:S1-S1056.

Fabacher, D. L., J. M. Besser, C. J. Schmitt, J. C. Harshbarger, P. H. Peterman, and J. A. Lebo. 1991. Contaminated Sediments from Tributaries of the Great Lakes: Chemical Characterization and Carcinogenic Effects in Medaka (*Oryzias latipes*). *Arch. Environ. Contam. Toxicol.* 20:17-34.

Fabacher, D. L., C. J. Schmitt, J. M. Besser, and M. J. Mac. 1988. Chemical Characterization and Mutagenic Properties of Polycyclic Aromatic Compounds in Sediment from Tributaries of the Great Lakes. *Environ. Toxicol. Chem.* 7:529-543.

Faber, R. A., and J. J. Hickey. 1973. Eggshell Thinning, Chlorinated Hydrocarbons, and Mercury in Inland Aquatic Bird Eggs, 1969 and 1970. *Pestic. Monit. J.* 7(1):27-36.

Fahnenstiel, G. L., and D. Scavia. 1987. Dynamics of Lake Michigan Phytoplankton: Primary Production and Growth. *Can. J. Fish. Aquat. Sci.* 44:499-508.

Fairchild, W. 1999. Study Suggests Link Between Past Chemical Use and Declines in Wild Salmon Populations. *Fisheries and Oceans Canada B-M-99-01*:6.

Falconer, R. L., T. F. Bidleman, and W. E. Cotham. 1995. Preferential Sorption of Non- and Mono-ortho-polychlorinated Biphenyls to Urban Aerosols. *Environ. Sci. Technol.* 29:1666-1673.

Faulkender, C. R., J. F. Byrd, and D. W. Martin. 1970. Green Bay, Wisconsin - Joint Treatment of Pulp Mill and Municipal Wastes. *Journal / Water Pollution Control Federation* 42 (3):360-370.

Fedkiw, J. 1987. Coming Back to Market Value and Valuation for the Great Lakes Fisheries. *Trans. Amer. Fish. Soc.* 116:346-351.

Fein, C. G., J. L. Jacobsen, S. W. Jacobsen, P. M. Schwarz, and J. K. Dowler. 1984. Prenatal Exposure to Polychlorinated Biphenyls: Effects on Birth Size and Gestational Age. *J. Ped.* 105(2):315-320.

Ferreri, C. P., W. W. Taylor, and D. B. Hayes. 1995. Evaluation of Age-0 Survival and Its Effect on Lake Trout Rehabilitation in the Michigan Waters of Lake Superior. *J. Great Lakes Res.* 21 (Supplement 1):218-224.

Ferreri, C. P., W. W. Taylor, and J. F. Koonce. 1995. Effects of Improved Water Quality and Stream Treatment Rotation on Sea Lamprey Abundance: Implications for Lake Trout Rehabilitation in the Great Lakes. *J. Great Lakes Res.* 21 (Supplement 1):176-184.

Feyk, L. A., J. P. Giesy, and G. H. Lambert. 1999. Relationship Between Polychlorinated Biphenyl 126 Treatment and Cytochrome P4501A Activity in Chickens, As Measured by In Vivo Caffeine and Ex Vivo Ethoxyresorufin Metabolism. *Environ. Toxicol. Chem.* 18(9):2013-2022.

Field, J. A., and R. L. Reed. 1996. Nonylphenol Polyethoxy Carboxylate Metabolites of Nonionic Surfactants in U.S. Paper Mill Effluents, Municipal Sewage Treatment Plant Effluents, and River Waters. *Environ. Sci. Technol.* 30(12):3544-3550.

Field, L. J., and R. N. Dexter. 1988. A Discussion of PCB Target Levels in Aquatic Sediments. NOAA, January 11, 1988.

Fimreite, N. 1979. Accumulation and Effects of Mercury on Birds, Pages 601-627 in *The Biogeochemistry of Mercury in the Environment* (J. Nriagu, Ed.). Elsevier Press, Amsterdam.

Finch, C., L. Wible, R. Rohrer, A. Andren, A. Beeton, G. Veith, K. Fenner, M. Gade, and B. Robertson. 1989. Green Bay/Fox River Mass Balance Study. Green Bay Mass Balance Study Plan: A Strategy for Tracking Toxics in the Bay of Green Bay, Lake Michigan; USEPA, GLNPO, EPA-905/8-89/001, GLNPO Report 06-89, April 1989.

Fiore, B. J., H. A. Anderson, L. P. Hanrahan, L. J. Olson, and W. C. Sonzogni. 1989. Sport Fish Consumption and Body Burden Levels of Chlorinated Hydrocarbons: A Study of Wisconsin Anglers. *Archives of Environmental Health* 44(2):82-88.

Fischer, L. J., P. M. Bolger, G. P. Carlson, J. L. Jacobson, B. A. Knuth, M. J. Radike, M. A. Roberts, P. T. Thomas, K. B. Wallace, and K. G. Harrison. 1995. Critical Review of a Proposed Uniform Great Lakes Fish Advisory Protocol. Michigan Environmental Science Board, Lansing. September, 1995.

Fisher, A., and R. Raucher. 1984. Intrinsic Benefits of Improved Water Quality: Conceptual and Empirical Perspectives. *Advances in Applied Micro-Economics* 3:37-66.

Fisher, J. P., J. D. Fitzsimons, G. F. Combs Jr., and J. M. Spitsbergen. 1996. Naturally Occurring Thiamine Deficiency Causing Reproductive Failure in Finger Lakes Atlantic Salmon and Great Lakes Lake Trout. *Trans. Amer. Fish. Soc.* 125:167-178.

Fisher, L. J., R. F. Seegal, P. E. Ganey, I. N. Pessah, and P. R. S. Kodavanti. 1998. Symposium Overview: Toxicity of Non-Coplanar PCBs. *Toxicol. Sci.* 41:49-61.

Fitchko, J. 1986. Literature Review of the Effects of Persistent Toxic Substances on Great Lakes Biota. Report of the Health of Aquatic Communities Task Force, International Joint Commission, Great Lakes Regional Office, Windsor, Ontario, December, 1986, 256 pp.

Fitzgerald, S. A., and J. J. Steuer. 1996. The Fox River PCB Transport Study - Stepping Stone to a Healthy Great Lakes Ecosystem. USGS Fact Sheet FS-116-96.

Fitzgerald, S. A., and J. J. Steuer. 1996. Polychlorinated Biphenyls (PCBs) as Tracers of Biogeochemical Processes in Rivers. Abstract: 212th American Chemical Society (ACS) National Meeting, August 25-29, 1996, Orlando, Florida.

Fitzgerald, S. A. 1997. Results of Quality-Control Sampling of Water, Bed Sediment, and Tissue in the Western Lake Michigan Drainages Study Unit of the National Water-Quality Assessment Program. U.S. Geological Survey, Water-Resources Investigations Report 97-4148, National Water-Quality Assessment Program.

Fitzpatrick, F. A., and E. M. P. Giddings. 1997. Stream Habitat Characteristics of Fixed Sites in the Western Lake Michigan Drainages, Wisconsin and Michigan, 1993-1995. U.S. Geological Survey, Water-Resources Investigations Report 95-4211-B, National Water Quality Assessment Program.

Fitzpatrick, F. A., E. M. Peterson, and J. S. Stewart. 1996. Habitat Characteristics of Benchmark Streams in Agricultural Areas of Eastern Wisconsin. Abstract, USGS Water-Resources Investigations Report 96-4038-B.

Fitzsimons, J. D. 1995. A Critical Review of the Effects of Contaminants on Early Life Stage (ELS) Mortality of Lake Trout in the Great Lakes. J. Great Lakes Res. 21 (Supplement 1):267-276.

Fitzsimons, J. D. 1995. The Effect of B-Vitamins on a Swim-up Syndrome in Lake Ontario Lake Trout. J. Great Lakes Res. 21 (Supplement 1):286-289.

Fitzsimons, J. D., S. Huestis, and B. Williston. 1995. Occurrence of a Swim-up Syndrome in Lake Ontario Lake Trout in Relation to Contaminants and Cultural Practices. J. Great Lakes Res. 21 (Supplement 1):277-285.

Fleming, W. J., D. R. Clark Jr., and C. J. Henny. 1983. Organochlorine Pesticides and PCB's: A Continuing Problem for the 1980s, Pages 186-199 in Transactions of the 48th N. American Wildlife & Natural Resources Conference (The Wildlife Management Institute, Ed.). The Wildlife Management Institute, Washington, D.C.

Flouriot, F., F. Pakdel, B. Ducouret, and Y. Valotaire. 1995. Influence of Xenobiotics on Rainbow Trout Liver Estrogen Receptor and Vitellogenin Gene Expression. Journal of Molecular Endocrinology 15:143-151.

Fogarty, D. 1985. Great Lakes Toxic Hotspots: A Citizen's Action Guide. Toxic Control Program, Lake Michigan Federation.

Foley, R. E., S. J. Jackling, R. J. Sloan, and M. K. Brown. 1988. Organochlorine and Mercury Residues in Wild Mink and Otter. Comparison with Fish. Environ. Toxicol. Chem. 7:363-374.

Folmar, L. C., N. D. Denslow, V. Rao, M. Chow, D. A. Crain, J. Enblom, J. Marcino, and L. J. J. Guillette. 1996. Vitellogenin Induction and Reduced Serum Testosterone Concentrations in Feral Male Carp (*Cyprinus carpio*) Captured Near a Major Metropolitan Sewage Treatment Plant. Environ. Health Perspec. 104(10):1096-1101.

Fond du Lac. 1994. City of Fond du Lac Recreation Plan, 1995-1999. Final Draft, July 1994.

Ford, R. G., and J. L. Casey. 1989. Seabird Mortality Resulting from the Nestucca Oil Spill Incident, Winter 1988-89: Preliminary Draft Report. Prepared by Ecological Consulting, Inc., Portland, OR, for Washington Department of Wildlife. October. 37 pp.

- Fowles, J. R., A. Fairbrother, K. A. Trust, and N. I. Kerkvliet. 1997. Effects of Aroclor 1254 on the Thyroid Gland, Immune Function, and Hepatic Cytochrome P450 Activity in Mallards. *Environmental Res.* 75:119-129.
- Fox, G., M. Gilbertson, A. Gillman, and T. Kubiak. 1991. A Rationale for the Use of Colonial Fish-Eating Birds to Monitor the Persistence of Developmental Toxicants in Great Lakes Fish. *J. Great Lakes Res.* 17:151-152.
- Fox, G. A. 1976. Eggshell Quality: Its Ecological and Physiological Significance in a DDE-Contaminated Common Tern Population. *The Wilson Bulletin* 88:459-477.
- Fox, G. A. 1991. Practical Causal Inference for Ecoepidemiologists. *Journal of Toxicology and Environmental Health* 33:359-373.
- Fox, G. A. 1993. What Have Biomarkers Told Us About the Effects of Contaminants on the Health of Fish-Eating Birds in the Great Lakes? The Theory and a Literature Review. *J. Great Lakes Res.* 19(4):722-736.
- Fox, G. A., B. Collins, E. Hayakawa, D. V. Weseloh, J. P. Ludwig, T. J. Kubiak, and T. C. Erdman. 1991. Reproductive Outcomes in Colonial Fish-Eating Birds: A Biomarker for Developmental Toxicants in Great Lakes Food Chains. II. Spatial Variation in the Occurrence and Prevalence of Bill Defects in Young Double-Crested Cormorants in the Great Lakes, 1979-1987. *J. Great Lakes Res.* 17(2):158-167.
- Fox, G. A., M. Gilbertson, A. P. Gilman, and T. J. Kubiak. 1991. Editorial: A Rationale for the Use of Colonial Fish-Eating Birds to Monitor the Presence of Developmental Toxicants in Great Lakes Fish. *J. Great Lakes Res.* 17(2):151-152.
- Fox, G. A., A. P. Gilman, D. B. Peakall, and F. W. Anderka. 1978. Behavioral Abnormalities of Nesting Lake Ontario Herring Gulls. *J. Wildl. Mgmt.* 42:477-483.
- Fox, G. A., S. W. Kennedy, R. J. Norstrom, and D. C. Wigfield. 1988. Porphyria in Herring Gulls: A Biochemical Response to Chemical Contamination of Great Lakes Food Chains. *Environ. Toxicol. Chem.* 7:831-839.
- Fox, G. A., D. V. Weseloh, T. J. Kubiak, and T. C. Erdman. 1991. Reproductive Outcomes in Colonial Fish-Eating Birds: A Biomarker for Developmental Toxicants in Great Lakes Food Chains. I. Historical and Ecotoxicological Perspectives. *J. Great Lakes Res.* 17(2):153-157.
- Fox, R., and M. Tuchman [eds.]. 1996. *Journal of Great Lakes Research: Special Section on The Assessment and Remediation of Contaminated Sediments (ARCS) Program, Vol. 22(3).* International Association of Great Lakes Research, Ann Arbor.

Francis, G. R., J. J. Magnuson, H. A. Regier, and D. R. Talhelm. 1979. Rehabilitating Great Lakes Ecosystems. Technical Report No. 37 - Great Lakes Fishery Commission.

Franz, T. P., and S. J. Eisenreich. 1991. Wet Deposition of Polychlorinated Biphenyls from Green Bay, Lake Michigan. Data Report, U Minn., September 1991, 40 pp.

Franz, T. P., and S. J. Eisenreich. 1993. Wet Deposition of Polychlorinated Biphenyls to Green Bay, Lake Michigan. *Chemosphere* 26:1767-1788.

Fraser, G. S. 1994. Feeding and Nesting Behaviors of the Forster's Tern on Lake Osakis, Minnesota. Masters Thesis, North Dakota State University, Fargo, ND.

Frederick, L. L. 1975. Comparative Uptake of a Polychlorinated Biphenyl and Dieldrin by the White Sucker (*Catostomus commersoni*). *J. Fish. Res. Board Can.* 32(10):1705-1709.

Freeman, A. M. 1993. The Measurement of Environmental and Resource Values. *Resources for the Future*, Washington, DC.

Freeman, H. C., and D. R. Idler. 1975. The Effect of Polychlorinated Biphenyl on Steroidogenesis and Reproduction in the Brook Trout (*Salvelinus fontinalis*). *Canadian Journal of Biochemistry* 53:666.

Friend, M., and D. O. Trainer. 1970. Polychlorinated Biphenyl: Interaction with Duck Hepatitis Virus. *Science* 170:1314-1316.

Froese, K. L., and J. P. Giese. 1998. Bioaccumulation of Polychlorinated Biphenyls from Sediments to Aquatic Insects and Tree Swallow Eggs and Nestlings in Saginaw Bay, Michigan, USA. *Environ. Toxicol. Chem.* 17(3):484-492.

Fry, D. M. 1995. Reproductive Effects in Birds Exposed to Pesticides and Industrial Chemicals. *Environ. Health Perspec.* 103(Suppl. 7):165-171.

Gailani, J., C. K. Ziegler, and W. Lick. 1991. Transport of Suspended Solids in the Lower Fox River. *J. Great Lakes Res.* 17:479-494.

Gaines, T. B. 1969. Acute Toxicity of Pesticides. *Toxicol. Appl. Pharmacol.* 14:515-534.

Galley, R. A. E. 1952. Problems Arising from the Use of Chemicals in Food. *Chemistry and Industry* 19:342-344.

Gannon, J. E. 1990. International Position Statement and Evaluation Guidelines for Artificial Reefs in the Great Lakes. Great Lakes Fishery Commission Special Publication 90-2.

GAO. 1996. Superfund - Status of Selected Federal Natural Resource Damage Settlements. U.S. General Accounting Office Report to the Chairman,

Committee on Commerce, House of Representatives, November 1996. GAO/RCED-97-10.

Gardner, W. S., M. A. Quigley, G. L. Fahnenstiel, D. Scavia, and W. A. Frez. 1990. *Pontoporeia hoyi* - A Direct Trophic Link between Spring Diatoms and Fish in Lake Michigan, Pages 632-644 in *Large Lakes - Ecological Structure and Function* (M. M. Tilzer and C. Serruya, Eds.). Springer-Verlag, Berlin, Heidelberg, New York, London, Paris, Tokyo, Hong Kong.

Garner, C. E., W. N. Jefferson, L. T. Burka, H. B. Matthews, and R. R. Newbold. 1999. In Vitro Estrogenicity of the Catechol Metabolites of Selected Polychlorinated Biphenyls. *Toxicol. Appl. Pharmacol.* 154:188-197.

Gasiewicz, T. A., G. Rucci, E. C. Henry, and R. B. Baggs. 1986. Changes in Hamster Hepatic Cytochrome P-450, Ethoxycoumarin o-deethylase, and Reduced nad(p): Menadione Oxidoreductase Following Treatment with 2,3,7,8-Tetrachlorodibenzo-p-dioxin. *Biochemical Pharmacology* 35(16):2737-2742.

Gatz, D. F., C. W. Sweet, I. Basu, S. Vermette, K. Harlin, and S. Bauer. 1994. Great Lakes Integrated Atmospheric Deposition Network (IADN). Data Report 1990-1992. Prepared for USEPA GLNPO, Chicago, Illinois under grant X-995786-01.

Gaumnitz, L. 1997. Uncertain Danger. Wisconsin Natural Resources December:11-16.

Gerry, R. W., and F. V. Muir. 1976. Performance of Red x Rock Sex-Linked Hens Subjected to Restricted Feeding During the Laying Period. *Poultry Science* 55:1941-1946.

Gevao, B., J. Hamilton-Taylor, C. Murdoch, K. C. Jones, M. Kelly, and B. Tabner. 1997. Depositional Time Trends and Remobilization of PCBs in Lake Sediments. *Environ. Sci. Technol.* 31(11):3274-3280.

Gibraltar. 1995. Town of Gibraltar Outdoor Recreation Plan. April 1995.

Giesy, J. P., W. W. Bowerman, M. A. Mora, D. A. Verbrugge, R. A. Othoudt, J. L. Newsted, C. L. Summer, R. J. Aulerick, S. J. Bursian, J. P. Ludwig, G. A. Dawson, T. J. Kubiak, D. A. Best, and D. E. Tillitt. 1995. Contaminants in Fishes from Great Lakes-Influenced Sections and Above Dams of Three Michigan Rivers. III: Implications for Health of Bald Eagles. *Arch. Environ. Contam. Toxicol.* 29:309-321.

Giesy, J. P., J. P. Ludwig, and D. E. Tillitt. 1994. Deformities in Birds of the Great Lakes Region: Assigning Causality. *Environ. Sci. Technol.* 28(3):128A-135A.

Giesy, J. P., J. P. Ludwig, and D. E. Tillitt. 1994. Dioxins, Dibenzofurans, PCBs and Colonial, Fish-Eating Water Birds, Pages 249-307 in *Dioxins and Health* (A. Schecter, Ed.). Plenum Press, New York.

Giesy, J. P., D. A. Verbrugge, R. A. Othout, W. W. Bowerman, M. A. Mora, P. D. Jones, J. L. Newsted, C. Vandervoort, S. N. Heaton, R. J. Aulerich, S. J. Bursian, J. P. Ludwig, M. Ludwig, G. A. Dawson, T. J. Kubiak, D. A. Best, and D. E. Tillitt. 1994. Contaminants in Fishes from Great Lakes-Influenced Sections and Above Dams of Three Michigan Rivers. I. Concentrations of Organochlorine Insecticides, Polychlorinated Biphenyls, Dioxin Equivalents and Mercury. *Arch. Environ. Contam. Toxicol.* 27:202-212.

Giesy, J. P., D. A. Verbrugge, R. A. Othout, W. W. Bowerman, M. A. Mora, P. D. Jones, J. L. Newsted, C. Vandervoort, S. N. Heaton, R. J. Aulerich, S. J. Bursian, J. P. Ludwig, G. A. Dawson, T. J. Kubiak, D. A. Best, and D. E. Tillitt. 1994. Contamination in Fishes from Great Lakes-Influenced Sections and Above Dams of Three Michigan Rivers. II. Implications for the Health of Mink. *Arch. Environ. Contam. Toxicol.* 27:213-223.

Gilbertson, M. 1988. Epidemics in Birds and Mammals Caused by Chemicals in the Great Lakes, Pages 133-152 in *Toxic Contaminants and Ecosystem Health; A Great Lakes Focus* (M. S. Evans, Ed.). John Wiley & Sons, New York, New York, USA.

Gilbertson, M. 1988. Restoring the Great Lakes - Means and Ends. *Canadian Field-Naturalist* 102(3):555-557.

Gilbertson, M. [ed.]. 1989. *Proceedings of the Workshop on Cause-Effect Linkages*, Chicago, IL, March 28-30, 1989. International Joint Commission, Windsor.

Gilbertson, M. 1992. PCB and Dioxin Research and Implications for Fisheries Research and Resource Management. *Can. J. Fish. Aquat. Sci.* 49:1078-1079.

Gilbertson, M. 1995. Guest Commentary: Complexity, Causality, and the Ecosystem Approach. *Great Lakes Research Review* 1:3-4.

Gilbertson, M. 1997. Are Causes Knowable? Some Consequences of Successional Versus Toxicological Interpretations of the Great Lakes Water Quality Agreement. *Can. J. Fish. Aquat. Sci.* 54:483-495.

Gilbertson, M., T. Kubiak, J. Ludwig, and G. Fox. 1991. Great Lakes Embryo Mortality, Edema, and Deformities Syndrome (GLEMEDS) in Colonial Fish-Eating Birds: Similarity to Chick-Edema Disease. *Journal of Toxicology and Environmental Health* 33:455-520.

Gilbertson, M., R. D. Morris, and R. A. Hunter. 1976. Abnormal Chicks and PCB Residue Levels in Eggs of Colonial Birds on the Lower Great Lakes (1971-73). *The Auk* 93:434-442.

Gilman, A., P. Beland, T. Colborn, G. Fox, J. Giesy, J. Hesse, T. Kubiak, and D. Piekarz. 1991. Environmental and Wildlife Toxicology of Exposure to Toxic Chemicals, Pages 61-91 in *Human Health Risks from Chemical Exposure: The Great Lakes Ecosystem* (R. W. Flint and J. Vena, Eds.). Lewis Publishers, Chelsea, MI.

Gilman, A. P., G. A. Fox, D. B. Peakall, S. M. Teeple, T. R. Carroll, and G. T. Haymes. 1977. Reproductive Parameters and Egg Contaminant Levels of Great Lakes Herring Gulls. *J. Wildl. Mgmt.* 41(3):458-468.

GLNPO. 1996. Mining Ideas: Turning a Grant Assistance Program into a Knowledge Base. A Report on the Ecological Protection and Restoration Program in the Great Lakes Basin, Great Lakes National Program Office, April 1996.

Gobas, F. 1993. A Model for Predicting the Bioaccumulation of Hydrophobic Organic Chemicals in Aquatic Food-Webs: Application to Lake Ontario. *Ecol. Modelling* 69:1-17.

Gobas, F., J. R. McCorquodale, and G. D. Haffner. 1993. Intestinal Absorption and Biomagnification of Organochlorines. *Environ. Toxicol. Chem.* 12(3):567-576.

Gobas, F., and X. Zhang. 1994. A Bioaccumulation and Trophic Transfer Model for Contaminants in Aquatic Food Webs; Version 1. School of Resource Management, Simon Fraser University, Burnaby, B.C., Canada.

Golden, K. A., C. S. Wong, J. D. Jeremiason, S. J. Eisenreich, G. Sanders, J. Hallgren, D. L. Swackhamer, D. R. Engstrom, and D. T. Long. 1993. Accumulation and Preliminary Inventory of Organochlorines in Great Lakes Sediments. *Water Science and Technology* 28:19-31.

Goldstein, J. A. 1980. Structure-Activity Relationships for the Biochemical Effects and the Relationship to Toxicity, Pages 151-190 in Halogenated Biphenyls, Terphenyls, Naphthalenes, Dibenzodioxins, and Related Products. *Topics in Environmental Health* 4 (R. Kimbrough and A. Jensen, Eds.). Elsevier Press, Amsterdam.

Goldstein, J. A., J. D. McKinney, G. W. Lucier, P. Hickman, H. Bergman, and J. A. Moore. 1976. Toxicological Assessment of Hexachlorobiphenyl Isomers and 2,3,7,8 Tetrachlorodibenzofuran in Chicks. Part 2: Effects of Drug Metabolism and Porphyrin Accumulation. *Toxicol. Appl. Pharmacol.* 36(1):81-92.

Golub, M. S., J. M. Donald, and J. A. Reyes. 1991. Reproductive Toxicity of Commercial PCB Mixtures: LOAELs and NOAELs from Animal Studies. *Environ. Health Perspec.* 94:245-253.

Gooch, J. W., A. A. Elskus, P. J. Kloepper-Sams, M. E. Hahn, and J. J. Stegeman. 1989. Effects of Ortho- and Non-ortho-Substituted Polychlorinated Biphenyl Congeners on the Hepatic Monooxygenase System in Scup (*Stenotomus chrysops*). *Toxicol. Appl. Pharmacol.* 98:422-433.

Goodman, A. C. 1989. Identifying Willingness to Pay for Heterogeneous Goods with Factorial Survey Methods. *J. Environ. Econ. Manag.* 16:58-79.

Gorsuch, A. M., J. D. Denit, R. W. Dellinger, and W. D. Smith. 1982. Development Document for Proposed Effluent Limitations Guidelines and Standards for Control of Polychlorinated Biphenyls in the Deink

Subcategory of the Pulp, Paper, and Paperboard Point Source Category. Effluent Guidelines Division, Office of Water, USEPA.

Gossiaux, D. C., P. F. Landrum, and S. W. Fisher. 1996. Effect of Temperature on the Accumulation Kinetics of PAHs and PCBs in the Zebra Mussel, *Dreissena polymorpha*. J. Great Lakes Res. 22(2):379-388.

Gottlieb, E. S. 1992. Variability of the Stratified Flow in the Passages Connecting Green Bay and Lake Michigan. Ph.D. Dissertation, University of Michigan.

Gottlieb, E. S., J. H. Saylor, and G. S. Miller. 1990. Currents and Water Temperatures Observed in Green Bay, Lake Michigan. Part I: Winter 1988-1989; Part II: Summer 1989. NOAA Technical Memorandum ERL GLERL-73. Great Lakes Environmental Research Laboratory, Ann Arbor, Michigan.

Gould, B. W., and R. C. Bishop. 1989. Costs of Fisheries Rehabilitation in Green Bay and the Bay of Quinte. Great Lakes Fishery Commission Research Completion Report.

Gould, J. C., K. R. Cooper, and C. G. Scanes. 1997. Effects of Polychlorinated Biphenyl Mixtures and Three Specific Congeners on Growth and Circulating Growth-Related Hormones. Gen. Compar. Endocrinol. 106:221-230.

Graef Anhalt Schloemer & Associates Inc. 1996. Remedial Investigation Report for Contaminated Sediment Deposits on the Fox River (Little Lake Butte Des Morts to the De Pere Dam). Prepared for State of Wisconsin Department of Administration, Division of Facilities Development, September 24, 1996. Prepared by Graef, Anhalt, Schloemer & Associates Inc. Consulting Engineers & Scientists, Milwaukee, Wisconsin; and Science Applications International Corporation, Bothell, Washington.

Grasman, K. A., G. A. Fox, P. F. Scanlon, and J. P. Ludwig. 1996. Organochlorine-associated Immunosuppression in Prefledgling Caspian Terns and Herring Gulls from the Great Lakes: An Ecoepidemiological Study. Environ. Health Perspec. 104, Supplement 4:829-842.

Grassle, B., and A. Bliessmann. 1982. Effects of DDT, Polychlorinated Biphenyls and Thiouracil on Circulating Thyroid Hormones, Thyroid Histology and Eggshell Quality in Japanese Quail (*Coturnix coturnix japonica*). Chem.-Biol. Interact. 42:371-377.

Grau, C. R. 1996. Nutritional Needs for Egg Formation in the Shag (*Phalacrocorax aristotelis*). Ibis 138:756-764.

Graves, J. B., F. L. Bonner, W. F. McKnight, A. B. Watts, and E. A. Epps. 1969. Residues in Eggs, Preening Glands, Liver, and Muscle from Feeding Dieldrin-Contaminated Rice Bran to Hens and its Effect on Egg Production, Egg Batch, and Chick Survival. Bull. Environm. Contam. Toxicol. 4:375.

Gray, L. E., Jr., J. Ostby, R. Marshall, and J. Andrews. 1993. Reproductive and Thyroid Effects of Low-Level Polychlorinated Biphenyl (Aroclor 1254) Exposure. Fundamental and Applied Toxicology 20:288-294.

Great Lakes Basin Commission. 1976. Existing River Mouth Loading Data in U.S. Great Lakes Basin. PLUARG, International Joint Commission, Windsor, Ontario.

Great Lakes Fishery Commission. 1981-1988. Great Lakes Commercial Fish Values, 1981-1988. Ann Arbor, MI.

Great Lakes Fishery Commission. Date unknown. Commercial Fish Production in the Great Lakes, 1867-1977. Technical Report No. 3.

Great Lakes Program, G. L. R. C., and New York Sea Grant. 1994. Understanding Toxic Substance Exposure in the Great Lakes. Great Lakes Research Review 1(1):40 pp.

Great Lakes Science Advisory Board. 1986. 1985 Annual Report: Report of the Aquatic Ecosystems Objectives Committee to the International Joint Commission. International Joint Commission, Windsor, Ontario. February.

Great Lakes Water Quality Board. 1987. 1987 Report on Great Lakes Water Quality: Appendix A, Progress in Developing Remedial Action Plans for Areas of Concern in the Great Lakes Basin. Report to the International Joint Commission, presented at Toledo, Ohio, November 1987.

Green, P. E., A. M. Krieger, and M. K. Agarwal. 1991. Adaptive Conjoint Analysis: Some Caveats and Suggestions. Journal of Marketing Research XXVII (May):215-222.

Green, P. E., and V. Srinivasan. 1990. Conjoint Analysis in Marketing: New Developments With Implications for Research and Practice. Journal of Marketing 54(October):3-19.

Green Bay Planning Commission, and Green Bay Park Committee. 1995. Comprehensive Waterfront Plan, Green Bay, Wisconsin. Staff Report Number 144, September 1995.

Grieb, T., C. Driscoll, S. Gloss, C. Schofield, G. Bowie, and D. Porcella. 1990. Factors Affecting Mercury Accumulation in Fish in the Upper Michigan Peninsula. Environ. Toxicol. Chem. 9:919-930.

Grier, J. W. 1972. Current Status of the Bald and Golden Eagles in North America: A Summary of Information and Opinions from Field Researchers. In Transactions of the 36th Federal-Provincial Wildlife Conference, pp. 76-78.

Grier, J. W. 1974. Reproduction, Organochlorines, and Mercury in Northwestern Ontario Bald Eagles. Canadian Field-Naturalist 88:469-475.

Grier, J. W. 1982. Ban of DDT and Subsequent Recovery of Reproduction in Bald Eagles. Science 212:1232-1235.

Groose, J. E. 1982. Organics in the Lower Fox River System: Selected Acidic Compounds. MS Thesis, University of Wisconsin, Madison.

- Gruger, E. H. J., M. M. Wekell, P. T. Numoto, and D. R. Craddock. 1977. Induction of Hepatic Aryl Hydrocarbon Hydroxylase in Salmon Exposed to Petroleum Dissolved in Seawater and to Petroleum and Polychlorinated Biphenyls, Separate and Together, in Food. Bull. Environm. Contam. Toxicol. 17(5):512-520.
- Guengerich, F. P. 1993. Cytochrome P450 Enzymes. American Scientist 81:440-447.
- Guillette, L. J. J., D. A. Crain, A. A. Rooney, and D. B. Pickford. 1995. Organization Versus Activation: The Role of Endocrine Disrupting Contaminants (EDCs) During Embryonic Development in Wildlife. Environ. Health Perspec. 103(Suppl. 7):157-164.
- Guiney, P. D., M. J. Melancon, J. J. Lech, and R. E. Peterson. 1979. Effects of Egg and Sperm Maturation and Spawning on the Distribution and Elimination of Polychlorinated Biphenyl in Rainbow Trout (*Salmo gairdneri*). Toxicol. Appl. Pharmacol. 47:261-272.
- Gurtner-Zimmerman, A. 1995. A Mid-Term Review of Remedial Action Plans: Difficulties with Translating Comprehensive Planning into Comprehensive Action. J. Great Lakes Res. 21:234-247.
- Gutenmann, W. H., J. G. J. Ebel, H. T. Kuntz, K. S. Yourstone, and D. J. Lisk. 1992. Residues of p,p'-DDE and Mercury in Lake Trout as a Function of Age. Arch. Environ. Contam. Toxicol. 22:452-455.
- Haake, J. M., S. Safe, K. Mayura, and T. D. Phillips. 1987. Aroclor 1254 as an Antagonist of the Teratogenicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin. Toxicol. Lett. 38:299-306.
- Hacking, M. A., J. Budd, and K. Hodson. 1978. The Ultrastructure of the Liver of the Rainbow Trout: Normal Structure and Modifications After Chronic Administration of a Polychlorinated Biphenyl Aroclor 1254. Can. J. Zool. 56:477-491.
- Haffner, G. D. 1994. Exposure Dynamics of Organic Contaminants in the Western Basin of Lake Erie. Great Lakes Research Review 1(1):15-21.
- Hahn, M. E., T. M. Lamb, M. E. Schultz, R. M. Smolowitz, and J. J. Stegeman. 1993. Cytochrome P4501A Induction and Inhibition by 3,3',4,4'-Tetrachlorobiphenyl in an Ah Receptor-Containing Fish Hepatoma Cell Line (PLHC-1). Aquat. Toxicol. 26:185-208.
- Hakanson, L. 1980. An Ecological Risk Index for Aquatic Pollution Control. A Sedimentological Approach. Water Research 14:975-1001.
- Hakansson, H., E. Manzoor, and U. G. Ahlborg. 1992. Effects of Technical PCB Preparations and Fractions Thereof on Vitamin A Levels in the Mink (*Mustela vison*). Ambio 21(8):588.
- Hall, D. W., and T. E. Behrendt. 1995. Polychlorinated Biphenyls and Pesticides in Lake Michigan Tributaries, 1993-1995. Chemical and Physical Aspects of the Lake Michigan Tributary Monitoring Program.

- Halter, M. T., and H. E. Johnson. 1974. Acute Toxicities of a Polychlorinated Biphenyl (PCB) and DDT Alone and in Combination to Early Life Stages of Coho Salmon (*Oncorhynchus kisutch*). J. Fish. Res. Board Can. 31(9):1543-1547.
- Hansen, D. J. 1974. Aroclor 1254: Effect on Composition of Developing Estuarine Animal Communities in the Laboratory. Marine Science 18:19-33.
- Hansen, D. J., P. R. Parrish, and J. Forester. 1974. Aroclor 1016: Toxicity to and Uptake by Estuarine Animals. Environmental Res. 7:363-373.
- Hansen, D. J., P. R. Parrish, J. I. Lowe, A. J. Wilson Jr., and P. D. Wilson. 1971. Chronic Toxicity, Uptake, and Retention of Aroclor 1254 in Two Estuarine Fishes. Bull. Environm. Contam. Toxicol. 6:113-119.
- Hansen, D. J., S. C. Schimmel, and J. Forester. 1975. Effects of Aroclor 1016 on Embryos, Fry, Juveniles, and Adults of Sheepshead Minnows (*Cyprinodon variegatus*). Trans. Amer. Fish. Soc. 3:584-588.
- Hansen, D. J., S. C. Schimmel, and E. Matthews. 1974. Avoidance of Aroclor 1254 by Shrimp and Fishes. Bull. Environm. Contam. Toxicol. 12:253-256.
- Hansen, L. G., W. B. Wiekhorst, and J. Simon. 1976. Effects of Dietary Aroclor 1254 on Channel Catfish (*Ictalurus punctatus*) and the Selective Accumulation of PCB Components. J. Fish. Res. Board Can. 33:1343-1352.
- Hansen, M. J. 1986. Size and Condition of Trout and Salmon from the Wisconsin Waters of Lake Michigan, 1969-84. Fish Management Report 126, Wisconsin DNR. January.
- Hansen, M. J., P. T. Schultz, and B. A. Lasee. 1990. Changes in Wisconsin's Lake Michigan Salmonid Sport Fishery, 1969-1985. North American Journal of Fisheries Management 10:442-457.
- Harper, N., K. Conner, M. Steinberg, and S. Safe. 1995. Immunosuppressive Activity of Polychlorinated Biphenyl Mixtures and Congeners: Nonadditive (Antagonistic) Interactions. Fundamental and Applied Toxicology 27:131-139.
- Harr, J. R., R. R. Claeys, and N. Benedict. 1970. Dieldrin Toxicosis in Rats: Long Term Study of Brain and Vascular Effects. Am. J. Vet. Res. 32:1853.
- Harr, J. R., R. R. Claeys, J. F. Bone, and T. W. McCorcle. 1970. Dieldrin Toxicosis: Rat Reproduction. Am. J. Vet. Res. 31:181-189.
- Harries, J. E., D. A. Sheahan, S. Jobling, P. Matthiessen, P. Neall, E. J. Routledge, R. Rycroft, J. P. Sumpter, and T. Tylor. 1996. A Survey of Estrogenic Activity in United Kingdom Inland Waters. Environ. Toxicol. Chem. 15(11):1993-2002.

Harris, G. E., Y. Kiparissis, and C. D. Metcalfe. 1994. Assessment of the Toxic Potential of PCB Congener 81 (3,4,4',5-Tetrachlorobiphenyl) to Fish in Relation to Other Non-Ortho-Substituted PCB Congeners. *Environ. Toxicol. Chem.* 13:1405-1413.

Harris, G. E., T. L. Metcalfe, C. D. Metcalfe, and S. Y. Huestis. 1994. Embryotoxicity of Extracts from Lake Ontario Rainbow Trout (*Oncorhynchus mykiss*) to Japanese Medaka (*Oryzias latipes*). *Environ. Toxicol. Chem.* 13:1393-1403.

Harris, H. J. 1987. Key Actions to Restore Beneficial Uses of the Lower Green Bay Area of Concern: A Summary Report. UW Sea Grant Publication No. WIS-SG-87-248; DNR Publication No. PUBL-WR-172 87, July 1987.

Harris, H. J., T. C. Erdman, G. T. Ankley, and K. B. Lodge. 1993. Measures of Reproductive Success and Polychlorinated Biphenyl Residues in Eggs and Chicks of Forster's Terns on Green Bay, Lake Michigan, Wisconsin - 1988. *Arch. Environ. Contam. Toxicol.* 25:304-314.

Harris, H. J., C. Holden, S. Martinson, T. Bosse, E. Bassett-Piehl, M. Von Hoff, and N. Yarbrough [eds.]. 1990. State of the Bay - A Capsule View. Institute for Land and Water Studies, UWGB, Green Bay.

Harris, H. J., and C. Kraft. 1993. The State of the Bay: A Watershed Perspective. UWGB, Institute for Land and Water Studies.

Harris, H. J., and J. Pletcher. 1992. Fox River/Green Bay Bibliography. University of Wisconsin-Green Bay. January.

Harris, H. J., P. E. Sager, C. J. Yarbrough, and H. J. Day. 1986. Evolution of Water Resource Management: A Laurentian Great Lakes Case Study. Prepared at the University of Wisconsin-Green Bay.

Harris, H. J., D. R. Talhelm, J. J. Magnuson, and A. M. Forbes [eds.]. 1982. Technical Report Series: Green Bay in the Future - A Rehabilitative Prospectus. Great Lakes Fishery Commission, Ann Arbor. Technical Report No. 38.

Harris, S. J., H. C. Cecil, J. Bitman, and R. J. Lillie. 1976. Antibody Response and Reduction in Bursa of Fabricius and Spleen Weights of Progeny of Chickens Fed PCBs. *Poultry Science* 55:1933-1940.

Harris, V. A., and J. Christie. 1987. Nutrient and Eutrophication Management Technical Advisory Committee Report. Lower Green Bay Remedial Action Plan, PUBL-WR-167 87.

Hart, A. D. M. 1993. Relationships Between Behavior and the Inhibition of Acetylcholinesterase in Birds Exposed to Organophosphorus Pesticides. *Environ. Toxicol. Chem.* 12:321-336.

Hart, C. A., M. E. Hahn, I. C. T. Nisbet, M. J. Moore, S. W. Kennedy, and D. M. Fry. 1998. Feminization in Common Terns (*Sterna hirundo*): Relationships to Dioxin Equivalents and Estrogenic Compounds. *Marine Environ. Res.* 46:174-175.

Hart, L. E., K. M. Cheng, P. E. Whitehead, R. M. Shah, R. J. Lewis, S. R. Ruschkowski, R. W. Blair, D. C. Bennett, S. M. Bandiera, R. J. Norstrom, and G. D. Bellward. 1991. Dioxin Contamination and Growth and Development in Great Blue Heron Embryos. *Journal of Toxicology and Environmental Health* 32:331-344.

Hartig, J. H., J. F. Kitchell, D. Scavia, and S. B. Brandt. 1991. Rehabilitation of Lake Ontario: The Role of Nutrient Reduction and Food Web Dynamics. *Can. J. Fish. Aquat. Sci.* 48:1574-1580.

Haseltine, S. D., G. H. Heinz, W. L. Reichel, and J. F. Moore. 1981. Organochlorine and Metal Residues in Eggs of Waterfowl Nesting on Islands in Lake Michigan off Door County, Wisconsin, 1977-78. *Pestic. Monit. J.* 15(2):90-97.

Haseltine, S. D., and R. M. Prouty. 1980. Aroclor 1242 and Reproductive Success of Adult Mallards (*Anas platyrhynchos*). *Environmental Res.* 23:29-34.

Hatch, J. J. 1995. Changing Populations of Double-Crested Cormorants. *Colonial Waterbirds* 18:8-24.

Hawker, D. W. 1989. Vapor Pressures and Henry's Law Constants of Polychlorinated Biphenyls. *Environ. Sci. Technol.* 23(10):1250-1253.

Hawley, N., and J. Niester. 1993. Measurement of Horizontal Sediment Transport in Green Bay, May-October, 1989. *J. Great Lakes Res.* 19:368-378.

Hays, R. G., and Risebrough. 1972. Pollutant Concentrations in Abnormal Young Terns from Long Island Sound. *The Auk* 89:19-35.

Hazeltine, S., T. Peterle, L. Nagode, A. Parsons, and S. Lustick. 1975. Physiology of the Eggshell Thinning Response to DDE. XII Cong. Intl. Union Game Biol.:237-243.

Hazeltine, S., K. Uebelhart, T. Peterle, and S. Lustick. 1974. DDE, PTH and Eggshell Thinning in Mallard, Pheasant and Ring Dove. *Bull. Environm. Contam. Toxicol.* 2:139-145.

Heath, R. G., J. W. Spann, E. F. Hill, and J. F. Kreitzer. 1972. Comparative Dietary Toxicities of Pesticides to Birds. U.S. Fish and Wildlife Service, Special Scientific Report - Wildlife No. 152, Washington, DC.

Heath, R. G., J. W. Spann, J. F. Kreitzer, and C. Vance. 1972. Effects of Polychlorinated Biphenyls on Birds, Pages 475-485 in *Proceedings of the XVth International Ornithological Congress* (,). E.J. Brill, Leiden.

Heaton, S. N. 1992. Effects on Reproduction of Ranch Mink Fed Carp from Saginaw Bay, Michigan. MS Thesis, Michigan State University, East Lansing, Michigan.

- Heaton, S. N., S. J. Bursian, J. P. Giesy, D. E. Tillitt, J. A. Render, P. D. Jones, D. A. Verbrugge, T. J. Kubiak, and R. J. Aulerich. 1995. Dietary Exposure of Mink to Carp from Saginaw Bay, Michigan. 1. Effects on Reproduction and Survival, and the Potential Risks to Wild Mink Populations. *Arch. Environ. Contam. Toxicol.* 28:334-343.
- Heaton, S. N., S. J. Bursian, J. P. Giesy, D. E. Tillitt, J. A. Render, P. D. Jones, D. A. Verbrugge, T. J. Kubiak, and R. J. Aulerich. 1995. Dietary Exposure of Mink to Carp from Saginaw Bay, Michigan: 2. Hematology and Liver Pathology. *Arch. Environ. Contam. Toxicol.* 29:411-417.
- Hebert, C. E., R. J. Norstrom, M. Simon, B. M. Braune, D. V. Weseloh, and C. R. Macdonald. 1994. Temporal Trends and Sources of PCDDs and PCDFs in the Great Lakes: Herring Gull Egg Monitoring, 1981-1991. *Environ. Sci. Technol.* 28:1268-1277.
- Hebert, C. E., R. J. Norstrom, J. Zhu, and C. R. Macdonald. 1999. Historical Changes in PCB Patterns in Lake Ontario and Green Bay, Lake Michigan, 1971 to 1982, from Herring Gull Egg Monitoring Data. *J. Great Lakes Res.* 25(1):220-233.
- Heil, T. P., and R. C. Lindsay. 1989. Toxicological Properties of Thio- and Alkylphenols Causing Flavor Tainting in Fish from the Upper Wisconsin River. *Journal of Environmental Science and Health B24(4)*:349-360.
- Heinz, G. H. 1998. Contaminant Effects on Great Lakes Fish-Eating Birds: A Population Perspective, Pages 141-154 in *Principles and Processes for Evaluating Endocrine Disruption in Wildlife* (R. J. Kendall, Ed.). SETAC Press, Pensacola, Florida.
- Heinz, G. H., T. C. Erdman, S. D. Haseltine, and C. Stafford. 1985. Contaminant Levels in Colonial Waterbirds from Green Bay and Lake Michigan, 1975-80. *Environmental Monitoring and Assessment* 5:223-236.
- Heinz, G. H., S. D. Haseltine, R. J. Hall, and A. J. Krynitsky. 1980. Organochlorine and Mercury Residues in Snakes from Pilot and Spider Islands, Lake Michigan-1978. *Bull. Environm. Contam. Toxicol.* 25:738-743.
- Heinz, G. H., S. D. Haseltine, W. L. Reichel, and G. L. Hensler. 1983. Relationships of Environmental Contaminants to Reproductive Success in Red-Breasted Mergansers (*Mergus serrator*) from Lake Michigan. *Environ. Pollut. A* 32:211-232.
- Heinz, G. H., E. F. Hill, and J. F. Contrera. 1980. Dopamine and Norepinephrine Depletion in Ring Doves Fed DDE, Dieldrin, and Aroclor 1254. *Toxicol. Appl. Pharmacol.* 53:75-82.
- Heinz, G. H., D. S. Miller, B. J. Ebert, and K. L. Stromborg. 1994. Declines in Organochlorines in Eggs of Red-Breasted Mergansers from Lake Michigan, 1977-1978 versus 1990. *Environmental Monitoring and Assessment* 33:175-182.

- Heinz, G. H., D. M. Swineford, and D. E. Katsma. 1984. High PCB Residues in Birds from the Sheboygan River, Wisconsin. *Environmental Monitoring and Assessment* 4:155-161.
- Helander, B., A. Olsson, A. Bignert, K. Litzen, L. Asplund, and A. Bergman. 1998. Abnormal Dehydration in Eggs of the White-Tailed Sea Eagle (*Haliaeetus albicilla*) in Sweden - A Persisting Effect from High Exposure to Organochlorines? *Organohalogen Compounds* 39:423-426.
- Helander, B., A. Olsson, and L. Reutergardh. 1982. Residue Levels of Organochlorine and Mercury Compounds in Unhatched Eggs and the Relationships to Breeding Success in White-Tailed Sea Eagles *Haliaeetus albicilla* in Sweden. *Holarct. Ecol.* 5:349-366.
- Henshel, D. S. 1998. Developmental Neurotoxic Effects of Dioxin and Dioxin-like Compounds on Domestic and Wild Avian Species. *Environ. Toxicol. Chem.* 17(1):88-98.
- Henshel, D. S., J. W. Martin, R. J. Norstrom, J. Elliott, K. M. Cheng, and J. DeWitt. 1997. Morphometric Brain Abnormalities in Double-Crested Cormorant Chicks Exposed to Polychlorinated Dibenzo-p-dioxins, Dibenzofurans, and Biphenyls. *J. Great Lakes Res.* 23:11-26.
- Henshel, D. S., M. Vo, B. Hehn, and J. D. Steeves. 1993. The Embryotoxicity of 2,3,7,8 Tetrachlorodibenzo-p-dioxin on Avian Embryos 1. LD50 Studies. *Toxicol. Appl. Pharmacol.*
- Herman, R. 1995. Improving the Predictive Power of Conjoint Analysis. *Marketing Research* 7(January):29.
- Hermanson, M. H., and E. R. Christensen. 1991. Recent Sedimentation in Lake Michigan. *J. Great Lakes Res.* 17(1):33-50.
- Hermanson, M. H., E. R. Christensen, D. J. Buser, and L. M. Chen. 1991. Polychlorinated Biphenyls in Dated Sediment Cores from Green Bay and Lake Michigan. *J. Great Lakes Res.* 17(1):94-108.
- Hesse, J. 1976. Oversight Hearings to Examine the Impact of Polychlorinated Biphenyls and Similar Toxic Substances on Fisheries and Wildlife Resources. Testimony Before the U.S. House of Representatives Subcommittee on Fisheries and Wildlife Conservation and the Environment.
- Hesselberg, R. J., J. P. Hickey, and D. A. Nortrup. 1988. Bans Effective in Reducing Contaminant Burden in Bloaters from Lake Michigan. *Research Information Bulletin*, U.S. Department of the Interior, Fish and Wildlife Service, No. 88-52, July 1988.
- Hesselberg, R. J., J. P. Hickey, D. A. Nortrup, and W. A. Willford. 1990. Contaminant Residues in the Bloater (*Coregonus hoyi*) of Lake Michigan, 1969-1986. *J. Great Lakes Res.* 16:121-129.
- Hesser, R. B. Date unknown. Water Pollution: Major Types and Their Sources. Prepared by a Fishery Resource Biologist for the Pennsylvania Fish Commission as a Pamphlet. 4pp.

Hickey, J. J., and D. W. Anderson. 1968. Chlorinated Hydrocarbons and Eggshell Changes in Raptorial and Fish-Eating Birds. *Science* 162:271-273.

Hill, E. F., R. G. Heath, J. W. Spann, and J. D. Williams. 1974. Polychlorinated Biphenyl Toxicity to Japanese Quail as Related to Degree of Chlorination. *Poultry Science* 53:597-604.

Hinton, D. E., H. Glaumann, and B. F. Trump. 1978. Studies on the Cellular Toxicity of Polychlorinated Biphenyls (PCBs). 1. Effect of PCBs on Microsomal Enzymes and on Synthesis and Turnover of Microsomal and Cytoplasmic Lipids of Rat Liver - A Morphological and Biochemical Study. *Virchows Arch. B. Cell. Path.* 27:279-306.

Hobson, K. A., R. W. Knapton, and W. Lysack. 1989. Population, Diet, and Reproductive Success of Double-Crested Cormorants Breeding on Lake Winnipegosis, Manitoba, in 1987. *Colonial Waterbirds* 12(2):191-197.

Hoff, R. M. 1994. An Error Budget for the Determination of the Atmospheric Mass Loading of Toxic Chemicals in the Great Lakes. *J. Great Lakes Res.* 20(1):229-239.

Hoff, R. M., D. C. G. Muir, and N. P. Grift. 1992. Annual Cycle of Polychlorinated Biphenyls and Organohalogen Pesticides in Air in Southern Lake Ontario. 1. Air Concentration Data. *Environ. Sci. Technol.* 26(2):266-275.

Hoff, R. M., W. M. J. Strachan, C. W. Sweet, C. H. Chan, M. Shackleton, T. F. Bidleman, K. A. Brice, D. A. Burniston, S. Cussion, D. F. Gatz, K. Harlin, and W. H. Shroeder. 1995. Atmospheric Deposition of Toxic Chemicals to the Great Lakes: a Review of Data through 1994.

Hoffman, D. J. 1992. Measurements of Oxidative Stress for Monitoring Contamination of Wildlife. *Research Information Bulletin*, 1992, No. 34, U.S. Department of the Interior, Fish and Wildlife Service.

Hoffman, D. J., M. J. Melancon, J. D. Eisemann, and P. N. Klein. 1995. Comparative Developmental Toxicity of Planar PCB Congeners by Egg Injection. In *Proceedings, 2nd SETAC World Congress, Vancouver, BC, Canada, November 5-9*, p. 207.

Hoffman, D. J., M. J. Melancon, P. N. Klein, J. D. Eisemann, and J. W. Spann. 1998. Comparative Developmental Toxicity of Planar Polychlorinated Biphenyl Congeners in Chickens, American Kestrels, and Common Terns. *Environ. Toxicol. Chem.* 17(4):747-757.

Hoffman, D. J., M. J. Melancon, P. N. Klein, C. P. Rice, J. D. Eiseman, R. K. Hines, J. W. Spann, and G. W. Pendleton. 1996. Developmental Toxicity of PCB 126 (3,3',4,4',5-Pentachlorobiphenyl) in Nestling American Kestrels (*Falco sparverius*). *Fundamental and Applied Toxicology* 34:188-200.

Hoffman, D. J., B. A. Rattner, C. M. Bunck, A. Krynitsky, H. M. Ohlendorf, and R. W. Lowe. 1986. Association Between PCBs and Lower

Embryonic Weight in Black-Crowned Night Herons in San Francisco Bay. *Journal of Toxicology and Environmental Health* 19:383-391.

Hoffman, D. J., B. A. Rattner, L. Sileo, D. Docherty, and T. J. Kubiak. 1987. Embryotoxicity, Teratogenicity, and Aryl Hydrocarbon Hydroxylase Activity in Forster's Terns on Green Bay, Lake Michigan. *Environmental Res.* 42:176-184.

Hoffman, D. J., C. P. Rice, and T. J. Kubiak. 1995. PCBs and Dioxins in Birds, Pages in *Interpreting Environmental Contaminants in Animal Tissue* (W. N. Beyer, G. Heinz, and A. Redmon-Norwood, Eds.). Lewis Publishers, Ann Arbor, MI.

Hoffman, D. J., C. P. Rice, and T. J. Kubiak. 1996. PCBs and Dioxins in Birds, Pages 165-207 in *Environmental Contaminants in Wildlife - Interpreting Tissue Concentrations* (N. W. Beyer, G. H. Heinz, and A. W. Redmon, Eds.). CRC-Lewis Publishers, Boca Raton, FL.

Hoffman, D. J., G. J. Smith, and B. A. Rattner. 1993. Biomarkers of Contaminant Exposure in Common Terns and Black-Crowned Night Herons in the Great Lakes. *Environ. Toxicol. Chem.* 12:1095-1103.

Hogan, J. W., and J. L. Brauhn. 1975. Abnormal Rainbow Trout Fry from Eggs Containing High Residues of a PCB (Aroclor 1242). *Prog. Fish-Cult.* 37:229-230.

Hoke, R. A., J. P. Giesy, and R. G. Kreis Jr. 1992. Sediment Pore Water Toxicity Identification in the Lower Fox River and Green Bay, Wisconsin, Using the Microtox Assay. *Ecotoxicol. Environ. Saf.* 23:343-354.

Holcomb, R. 1989. The Nestucca Oil Spill: Responding to a Major Spill, A Case Study. *Baseline* 8(5):6-8.

Holey, M. E., R. W. Rybicki, G. W. Eck, E. H. J. Brown, J. E. Marsden, D. S. Lavis, M. L. Toney, T. N. Trudeau, and R. M. Horrall. 1995. Progress Toward Lake Trout Restoration in Lake Michigan. *J. Great Lakes Res.* 21 (Supplement 1):128-151.

Holm, G., L. Norrgren, T. Andersson, and A. Thuren. 1993. Effects of Exposure to Food Contaminated with PBDE, PCN or PCB on Reproduction, Liver Morphology and Cytochrome P450 Activity in the Three-Spined Stickleback, *Gasterosteus aculeatus*. *Aquat. Toxicol.* 27:33-50.

Hondorp, D. W., and S. B. Brandt. 1996. Spatially-Explicit Models of Fish Growth Rate: Tools for Assessing Habitat Quality. *Great Lakes Research Review* 2(2):11-19.

Hontela, A., J. B. Rasmussen, C. Audet, and G. Chevalier. 1992. Impaired Cortisol Stress Response in Fish from Environments Polluted by PAHs, PCBs, and Mercury. *Arch. Environ. Contam. Toxicol.* 22:278-283.

Hornbuckle, K. C., D. R. Achman, and S. J. Eisenreich. 1993. Over-Water and Over-Land Polychlorinated Biphenyls in Green Bay, Lake Michigan. *Environ. Sci. Technol.* 27(1):87-98.

Hornbuckle, K. C., J. D. Jeremiason, C. W. Sweet, and S. J. Eisenreich. 1994. Seasonal Variations in Air-Water Exchange of Polychlorinated Biphenyls in Lake Superior. *Environ. Sci. Technol.* 28:1491-1501.

Hornbuckle, K. C., C. W. Sweet, R. F. Pearson, D. L. Swackhamer, and S. J. Eisenreich. 1995. Assessing Annual Water-Air Fluxes of Polychlorinated Biphenyls in Lake Michigan. *Environ. Sci. Technol.* 29:869-877.

Horns, W. H. 1989. A Survey of Sport Fishing in the Illinois Portion of Lake Michigan, April 1988 through March 1989. Illinois Natural History Survey, Aquatic Ecology Technical Report 98/6. September.

Horns, W. H. 1990. A Survey of Sport Fishing in the Illinois Portion of Lake Michigan, Annual Report, F-52-R4. Illinois Natural History Survey, Aquatic Ecology Technical Report 90/3. February.

Horns, W. H., B. Belonger, G. Boronow, M. Coshun, B. Eggold, M. Holey, T. Kroeff, T. Lychwick, P. Peeters, and M. Toney. 1992. A Review of the 1986 Lake Michigan Fisheries Management Plan. Administrative Report No. 34, Wisconsin Department of Natural Resources, Bureau of Fisheries Management, Madison, Wisconsin, November 1992.

Horns, W. H., and R. W. Gorden. 1986. A Sport Fishing Creel Survey of the Illinois Portion of Lake Michigan, 1 April 1985 through 31 March 1986: Final Report. Illinois Natural History Survey, Aquatic Biology Technical Report 1986(3). July.

Horns, W. H., and R. W. Gorden. 1988. A Sport Fishing Creel Survey of the Illinois Portion of Lake Michigan. Annual Performance Report F-52-R2, Illinois Natural History Survey, Aquatic Biology Section Technical Report 88/2. January.

Hornshaw, T. C., R. J. Aulerich, and H. E. Johnson. 1983. Feeding Great Lakes Fish to Mink: Effects on Mink and Accumulation and Elimination of PCBs by Mink. *Journal of Toxicology and Environmental Health* 11:933-946.

Horvath, F. J. 1984. PCBs in Fish, Sediments, and Water of the Lower Kalamazoo River and Nearby Lake Michigan. Michigan Department of Natural Resources, MDNR Publication No. 3730-0043.

House, L. B. 1990. Data on Polychlorinated Biphenyls, Dieldrin, Lead, and Cadmium in Wisconsin and Upper Michigan Tributaries to Green Bay, July 1987 through April 1988. U.S. Geological Survey Open-File Report 89-52.

House, L. B. 1995. Distribution and Transport of Polychlorinated Biphenyls in Little Lake Butte des Morts, Fox River, Wisconsin, April 1987-October 1988. U.S. Geological Survey Open-File Report 93-31.

House, L. B., P. E. Hughes, and R. J. Waschbusch. 1993. Concentrations and Loads of Polychlorinated Biphenyls in Major Tributaries Entering Green Bay, Lake Michigan, 1989-90. U.S. Geological Survey Open-File Report 93-132. Prepared by the U.S. Geological Survey in Cooperation with the U.S. EPA and the Wisconsin DNR.

Hovinga, M. E., M. F. Sowers, and H. E. B. Humphrey. 1992. Historical Changes in Serum PCB and DDT Levels in an Environmentally-Exposed Cohort. *Arch. Environ. Contam. Toxicol.* 22:362-366.

Howard Needles Tammen & Bergendoff. 1992. Fox River Upper Flats Development Opportunities, A Strategic Plan. The City of Appleton, Wisconsin, 13 January 1992.

Howe, R. W., A. T. Wold, and T. C. Erdman. 1993. A Study of Wintering Bald Eagles on the Fox River of Northeast Wisconsin. Report to REPAP, Wisconsin, Inc.

Howell, J. C. 1963. The 1961 Status of Some Bald Eagle Nest Sites in East-Central Florida. *The Auk* 79:716-718.

Howmiller, R. P., and A. M. Beeton. 1970. The Oligochaete Fauna of Green Bay, Lake Michigan. *Great Lakes Research Review*:15-46.

Howmiller, R. P., and A. M. Beeton. 1971. Biological Evaluation of Environmental Quality, Green Bay, Lake Michigan. *Journal / Water Pollution Control Federation* 43:123-133.

Huang, Y.-W., M. J. Melancon, R. E. Jung, and W. H. Karasov. 1998. Induction of Cytochrome P450-Associated Monooxygenases in Northern Leopard Frogs, *Rana pipiens*, by 3,3',4,4',5-Pentachlorobiphenyl. *Environ. Toxicol. Chem.* 17(8):1564-1569.

Huber, J., D. R. Wittink, J. A. Fielder, and R. Miller. 1993. The Effectiveness of Alternative Preference Elicitation Procedures in Predicting Choice. *Journal of Marketing Research* XXX(February):105.

Huckabee, J., J. Elwood, and S. Hildebrand. 1979. Accumulation of Mercury in Freshwater Biota, Pages 277-302 in *The Biogeochemistry of Mercury in the Environment* (J. Nriagu, Ed.). Elsevier Press, Amsterdam.

Huckins, J. N., T. R. Schwartz, J. D. Petty, and L. M. Smith. 1988. Determination, Fate, and Potential Significance of PCBs in Fish and Sediment Samples with Emphasis on Selected AHH-Inducing Congeners. *Chemosphere* 17(10):1995-2016.

Hudson, R. H., R. K. Tucker, and M. A. Haegele. 1984. *Handbook of Toxicity of Pesticides to Wildlife*. U.S. Fish and Wildlife Service, Resour. Publ. 153. 90 pp.

Huestis, S. Y., M. R. Servos, D. M. Whittle, and D. G. Dixon. 1996. Temporal and Age-Related Trends in Levels of Polychlorinated Biphenyl Congeners and Organochlorine Contaminants in Lake Ontario Lake Trout (*Salvelinus namaycush*). *J. Great Lakes Res.* 22(2):310-330.

Hughes, K. D., D. V. Weseloh, and B. M. Braune. 1998. The Ratio of DDE to PCB Concentrations in Great Lakes Herring Gull Eggs and its Use in Interpreting Contaminants Data. *J. Great Lakes Res.* 24(1):12-31.

- Hulsey, B., and E. Uram. 1997. Something's Fishy: What You Don't Know about Polluted Fish Can Hurt You. Sierra Club Great Lakes Program. July.
- Hummel, H., J. P. UitOudeGroeneveld, J. Niewenhuize, J. M. van Liere, R. H. Bogaards, and L. de Wolf. 1989. Relationship Between PCB Concentrations and Reproduction in Mussels *Mytilis edulis*. Marine Environ. Res. 28:489-493.
- Humphrey, H. E. B., and J. L. Hesse. 1986. Sport Caught Fish Consumption Advisories: Philosophy, Procedures, and Process. Prepared by Michigan Department of Public Health, Lansing. Draft Procedural Statement. November.
- Hurley, J. P., S. E. Cowell, M. M. Shafer, and P. E. Hughes. 1995. Methylmercury in Great Lakes Tributaries: Implications for Mass Balances. Chemical and Physical Aspects of the Lake Michigan Tributary Monitoring Program.
- Hutchison, R. 1992. Acculturation in the Hmong Community. University of Wisconsin-Green Bay, Center for Public Affairs.
- Hutchison, R., and C. Craft. 1994. Hmong Fishing Activity and Fish Consumption. J. Great Lakes Res. 20(2):471.
- Hutchison, R., and C. E. Kraft. 1994. Hmong Fishing Activity and Fish Consumption. J. Great Lakes Res. 20(2):471-478.
- Hutzinger, O., R. W. Frei, E. Merian, and F. Pocchiari [eds.]. 1982. Chlorinated Dioxins and Related Compounds: Impact on the Environment. Pergamon Press, Oxford, New York, Toronto, Sydney, Paris, Frankfurt.
- HydroQual Inc. 1995. Addendum to Green Bay Final Report Food Chain Model Projections. Prepared by HydroQual, Inc., Mahwah, NJ, November. USEPA Job Number ABTA0204.
- HydroQual Inc. 1995. Bioaccumulation of Superlipophilic Organic Chemicals: Data Compilation and Analysis. Prepared by HydroQual, Inc., Mahwah, NJ. November.
- IJC. 1997. Commission Approves List/Delist Criteria for Great Lakes Areas of Concern. Report: <http://www.ijc.org/focus/listdelist/>; 9/16/97.
- Illinois Department of Conservation. 1994. Illinois Fishing Information. Effective April 1, 1994 to March 31, 1995.
- Illinois EPA. 1994. Waukegan Harbor: Final Stage II Report - Remedial Action Plan.
- Ingebrigtsen, K., H. Hektoen, T. Andersson, A. Bergman, and I. Brandt. 1990. Species-Specific Accumulation of the Polychlorinated Biphenyl (PCB) 2,3,3',4,4'-Pentachlorobiphenyl in Fish Brain: A Comparison Between Cod (*Gadus morhua*) and Rainbow Trout (*Oncorhynchus mykiss*). Pharmacology and Toxicology 67:344-345.

Institute of Paper Chemistry. 1976. Polychlorinated Biphenyls in Pulp and Paper Mills: Part 1. Analytical Methodology. The Institute of Paper Chemistry, Appleton, Wisconsin. Project 3295, Report One, A Progress Report to Members of the Institute of Paper Chemistry, September 3, 1976.

Institute of Paper Chemistry. 1978. Distribution of PCBs in the Aquatic Food Chain of the Fox River. The Institute of Paper Chemistry, Appleton, Wisconsin, Project 3294, Report One, A Progress Report to Members of the Institute of Paper Chemistry.

International Joint Commission. 1998. Ninth Biennial Report on Great Lakes Water Quality.

International Joint Commission United States and Canada. 1990. Fifth Biennial Report Under the Great Lakes Water Quality Agreement of 1978 to the Government of the United States and Canada and the State and Provincial Governments of the Great Lakes Basin-Part II.

Ip, H. M. H., and D. J. H. Phillips. 1989. Organochlorine Chemicals in Human Breast Milk in Hong Kong. Arch. Environ. Contam. Toxicol. 18:490-494.

Iwata, H., S. Tanabe, N. Sakai, and R. Tatsukawa. 1993. Distribution of Persistent Organochlorines in the Oceanic Air and Surface Seawater and the Role of Ocean on Their Global Transport and Fate. Environ. Sci. Technol. 27(6):1080-1098.

Iwata, Y., and F. A. Gunther. 1976. Translocation of the Polychlorinated Biphenyl Aroclor 1254 from Soil into Carrots Under Field Conditions. Arch. Environ. Contam. Toxicol. 4:44-59.

Iwata, Y., F. A. Gunther, and W. E. Westlake. 1974. Uptake of a PCB (Aroclor 1254) from Soil by Carrots Under Field Conditions. Bull. Environm. Contam. Toxicol. 11:523-528.

Jackson, L. J., and S. R. Carpenter. 1995. PCB Concentrations of Lake Michigan Invertebrates: Reconstruction Based on PCB Concentrations of Alewives (*Alosa pseudoharengus*) and Their Bioenergetics. J. Great Lakes Res. 21(1):112-120.

Jacobson, J. L. 1994. Children of Great Lakes Fish Consumers, Pages 9-15 in Applying Weight of Evidence: Issues and Practice, A Report of a Workshop Held 24 October 1993 at the Biennial Meeting of the International Joint Commission, Windsor, Ontario (M. Gilbertson and S. Cole-Misch, Eds.). International Joint Commission, Washington, D.C., U.S.A. and Ottawa, Ontario, Canada.

Jacobson, J. L., and S. W. Jacobson. 1993. A 4-year Followup Study of Children Born to Consumers of Lake Michigan Fish. J. Great Lakes Res. 19:776-783.

Jacobson, J. L., and S. W. Jacobson. 1996. Intellectual Impairment in Children Exposed to Polychlorinated Biphenyls In Utero. N. Engl. J. Med. 335(11):783-789.

- Jahan-Parwar, B., L. W. Wood, and B. Bush. 1990. Assimilation of Polychlorinated Biphenyls by a Marine Mollusc and Comparison with a Rat. *Arch. Environ. Contam. Toxicol.* 19:944-951.
- Jansen, H. T., P. S. Cooke, J. Porcelli, and T.-C. Liu. 1993. Estrogenic and Antiestrogenic Actions of PCBs in the Female Rat: In Vitro and In Vivo Studies. *Reproductive Toxicology* 7:237-248.
- Janssen, P. A. H., A. Bergman, and J. G. D. Lambert. 1993. Polluted Harbour Sediment and the Annual Reproductive Cycle of the Female Flounder, *Platichthys flesus* (L.). Prepared by the Comparative Endocrinology Department of Utrecht University, The Netherlands. 1pp.
- Janz, D. M., and G. D. Bellward. 1996. In Ovo 2,3,7,8-Tetrachloro-p-dioxin Exposure in Three Avian Species. 1. Effects on Thyroid Hormones and Growth During the Perinatal Period. *Toxicol. Appl. Pharmacol.* 139:281-291.
- Janz, D. M., and C. D. Metcalfe. 1991. Relative Induction of Aryl Hydrocarbon Hydroxylase by 2,3,7,8-TCDD and Two Coplanar PCBs in Rainbow Trout (*Oncorhynchus mykiss*). *Environ. Toxicol. Chem.* 10:917-923.
- Janz, D. M., and C. D. Metcalfe. 1991. Nonadditive Interactions of Mixtures of 2,3,7,8-TCDD and 3,3',4,4'-Tetrachlorobiphenyl on Aryl Hydrocarbon Hydroxylase Induction in Rainbow Trout (*Oncorhynchus mykiss*). *Chemosphere* 23(4):467-472.
- Jarman, W. M., S. A. Burns, R. R. Chano, R. D. Stephens, R. J. Nordstrom, M. Simon, and J. Linthicum. 1993. Determination of PCDDs, PCDFs, and PCBs in California Peregrine Falcons (*Falco peregrinus*). *Environ. Toxicol. Chem.* 12:105-114.
- Jefferies, D. J. 1971. Some Sublethal Effects of pp'-DDT and its Metabolite pp'-DDE on Breeding Passerine Birds. *Meded. Fakult Landbouwwetenschappen Gent.* 36:34-42.
- Jefferies, D. J., and J. L. F. Parslow. 1976. Thyroid Changes in PCB-Dosed Guillemots and Their Indication of One of the Mechanisms of Action of These Materials. *Environ. Pollut.* 10:295-311.
- Jensen, A. L. 1984. PCB Uptake and Transfer to Humans by Lake Trout. *Environ. Pollut. (Series A)* 34:73-82.
- Jensen, A. L., S. A. Spigarelli, and M. M. Thommes. 1982. PCB Uptake by Five Species of Fish in Lake Michigan, Green Bay of Lake Michigan, and Cayuga Lake, New York. *Can. J. Fish. Aquat. Sci.* 39:700-709.
- Jensen, S., J. E. Kihlstrom, N. Olsson, C. Lundberg, and J. Orberg. 1977. Effects of PCB and DDT on Mink (*Mustela vison*) During the Reproductive Season. *Ambio* 6:239.

Jepsen, R., and W. Lick. 1996. Parameters Affecting the Adsorption of PCBs to Suspended Sediments from the Detroit River. *J. Great Lakes Res.* 22(2):341-353.

Jeremiason, J. D., K. C. Hornbuckle, and S. J. Eisenreich. 1994. PCBs in Lake Superior, 1978-1992: Decreases in Water Concentrations Reflect Loss By Volatilization. *Environ. Sci. Technol.* 28:903-914.

Jernelov, A., A. H. Johansson, L. Sorenson, and A. Svenson. 1976. Methyl Mercury Degradation in Mink. *Toxicology* 6:315-321.

Jobling, S., D. Sheahan, J. A. Osborne, P. Matthiessen, and J. P. Sumpter. 1996. Inhibition of Testicular Growth in Rainbow Trout (*Onchorhynchus mykiss*) Exposed to Estrogenic Alkylphenolic Chemicals. *Environ. Toxicol. Chem.* 15(2):194-202.

Johannsson, O. 1992. Life History and Productivity of *Mysis Relicta* in Lake Ontario. *J. Great Lakes Res.* 18:154-168.

Johansson, N., A. Larsson, and K. Lewander. 1972. Metabolic Effects of PCB (Polychlorinated Biphenyls) on the Brown Trout (*Salmo trutta*). *Comp. Gen. Pharmac.* 3:310-314.

Johnsen, P. K., G. J. Knaap, and L. J. Smith. 1992. Public Perceptions and Attitudes Toward Environmental Rehabilitation of the Lower Green Bay Watershed. *Coastal Management* 20:9-23.

Johnson, B. L., S. R. Milliman, R. C. Bishop, and J. F. Kitchell. 1992. Evaluating Fishery Rehabilitation Under Uncertainty: A Bioeconomic Analysis of Quota Management for Green Bay Yellow Perch Fishery. *North American Journal of Fisheries Management* 12:703-720.

Johnson, F. R., W. H. Desvousges, E. E. Fries, and L. L. Wood. 1995. Conjoint Analysis of Individual and Aggregate Environmental Preferences. TER Technical Working Paper No. T-9502. March.

Johnson, H. T., J. E. Keil, R. G. Gaddy, C. B. Loadholt, G. R. Henigar, and E. M. Walker. 1976. Prolonged Ingestion of Commercial DDT and PCB: Effects on Progesterone Levels and Reproduction in the Mature Female Rat. *Arch. Environ. Contam. Toxicol.* 3:479-490.

Johnson, J. 1995. Dioxin Risk: Are We Sure Yet? *Environ. Sci. Technol.* 29(1):24A-25A.

Johnson, J. 1995. Incinerators Targeted by EPA. *Environ. Sci. Technol.* 29(1):33A-35A.

Johnson, L. L., E. Casillas, T. K. Collier, B. B. McCain, and U. Varanasi. 1988. Contaminant Effects on Ovarian Development in English Sole (*Parophrys vetulus*) from Puget Sound, Washington. *Can. J. Fish. Aquat. Sci.* 45:2133-2146.

Johnson, R. M. 1991. Comment on "Adaptive Conjoint Analysis: Some Caveats and Suggestions". *Journal of Marketing Research* XXVII(May):223-225.

- Jones, C. A. 1989. An Economic Model to Assess Fish-Kill Damages. Resources Fall 1989 No.97:14-16.
- Jones, C. A., and Y. D. Sung. 1991. Valuation of Environmental Quality at Michigan Recreational Fishing Sites: Methodological Issues and Policy Applications. Prepared Under Contract for U.S. EPA, No. CR-816247-01-2.
- Jones, D. H., D. H. Lewins, T. E. Eurell, and M. S. Cannon. 1979. Alteration of the Immune Response of Channel Catfish (*Ictalurus punctatus*) by Polychlorinated Biphenyls. Abstract from a Symposium on Pathobiology of Environmental Pollutants: Animal Models and Wildlife as Monitors. pp 385-386.
- Jones, M. L., G. W. Eck, D. O. Evans, M. C. Fabrizio, M. H. Hoff, P. L. Hudson, J. Janssen, D. Jude, R. O'Gorman, and J. F. Savino. 1995. Limitations to Lake Trout (*Salvelinus namaycush*) Rehabilitation in the Great Lakes Imposed by Biotic Interactions Occurring at Early Life Stages. J. Great Lakes Res. 21 (Supplement 1):505-517.
- Jones, P. D., G. T. Ankley, D. A. Best, R. Crawford, N. DeGalan, J. P. Giesy, T. J. Kubiak, J. P. Ludwig, J. L. Newsted, D. E. Tillitt, and D. A. Verbrugge. 1993. Biomagnification of Bioassay Derived 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents. Chemosphere 26(6):1203-1212.
- Jones, P. D., J. P. Giesy, J. L. Newsted, D. A. Verbrugge, D. L. Beaver, G. T. Ankley, D. E. Tillitt, K. B. Lodge, and G. J. Niemi. 1993. 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents in Tissues of Birds at Green Bay, Wisconsin, USA. Arch. Environ. Contam. Toxicol. 24:345-354.
- Jones, P. D., J. P. Giesy, J. L. Newsted, D. A. Verbrugge, J. P. Ludwig, M. E. Ludwig, H. J. Auman, R. Crawford, D. E. Tillitt, T. J. Kubiak, and D. A. Best. 1994. Accumulation of 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents By Double-crested Cormorant (*Phalacrocorax auritis*, *Pelicaniformes*) Chicks in the North American Great Lakes. Ecotoxicol. Environ. Saf. 27:192-209.
- Jota, M. A. T., and J. P. Hassett. 1991. Effects of Environmental Variables on Binding of a PCB Congener by Dissolved Humic Substances. Environ. Toxicol. Chem. 10:483-491.
- Kaiser, J. 1996. Endocrine Disrupters: Scientists Angle for Answers. Science 274:1837-1838.
- Kamrin, M. A., and R. K. Ringer. 1996. Toxicological Implications of PCB Residues in Mammals, Pages 153-163 in Environmental Contaminants in Wildlife: Interpreting Tissue Concentrations (SETAC Special Publications Series) (W. Nelson, G. H. Heinz, and A. W. Redmon-Norwood, Eds.). CRC Press, Boca Raton, FL.
- Kannan, N., S. Tanabe, M. Ono, and R. Tatsukawa. 1989. Critical Evaluation of Polychlorinated Biphenyl Toxicity in Terrestrial and Marine Mammals: Increasing Impact of Non-ortho and Mono-ortho Coplanar

Polychlorinated Biphenyls from Land to Ocean. Arch. Environ. Contam. Toxicol. 18:850-857.

Kannan, N., S. Tanabe, and R. Tatsukawa. 1988. Toxic Potential of Non-ortho and Mono-ortho Coplanar PCBs in Commercial PCB Preparations: 2,3,7,8 TCDD Toxicity Equivalence Factors Approach. Bull. Environm. Contam. Toxicol. 41:267-276.

Kannan, N., S. Tanabe, T. Wakimoto, and R. Tatsukawa. 1987. Coplanar Polychlorinated Biphenyls in Aroclor and Kanechlor Mixtures. J. Assoc. Off. Anal. Chem. 70(3):451-454.

Katz, E. F., and S. Schuler. 1995. Baseline Survey: Eight Great Lakes States' Public Knowledge and Opinions about Great Lakes Issues; Research Results, 1995 Final Report. U.S. Environmental Protection Agency, Great Lakes National Program Office, September 1995.

Kealy, M. J., and R. C. Bishop. 1986. Theoretical and Empirical Specifications Issues in Travel Cost Demand Studies. Amer. J. Ag. Econ. August:660-667.

Keeler, G. J. 1994. Lake Michigan Urban Air Toxics Study. EPA/600/R-94/191.

Keillor, P. 1996. Creating an Economic Decision Framework for Estimating the Benefits and Costs of Sediment Remediation. CATS III Congress Proceedings: Characterization and Treatment of Clean-up Sludge from Dredging, Sewage Sludge, Drinking Water Sludge and Comparable Industrial Process Sludge, G. De Schutter et al., eds., pp 287-299, Oostende, Belgium, March 1996.

Keillor, P. 1997. Creating an Economic Decision Framework for Estimating the Benefits and Costs of Sediment Remediation. Abstract: Sea Grant Abstracts, Vol 12, No. 3-4, 1997, page 75. In CATS III Congress Proceedings, March 1996.

Keilty, T. J. 1990. Evidence for Alewife (*Alosa pseudoharengus*) Predation on the European Cladoceran *Bythotrephes cederstroemi* in Northern Lake Michigan. J. Great Lakes Res. 16:330-333.

Keith, J. A. 1966. Reproduction in a Population of Herring Gulls (*Larus argentatus*) Contaminated by DDT. J. Appl. Ecol. 3(Suppl):57-70.

Kelso, D. D., and M. Kendziorek. 1991. The Alaska Oil Spill: Its Effects and Lessons-Alaska's Response to the Exxon Valdez Oil Spill. Environ. Sci. Technol. 25(1):16-23.

Kempinger, J. J. 1988. Spawning and Early Life History of Lake Sturgeon in the Lake Winnebago System. American Fisheries Symposium 5:110-122.

Kenaga, E. E. 1973. Factors to be Considered in the Evaluation of the Toxicity of Pesticides to Birds in their Environments, Pages 166-181 in Environmental Quality and Safety, Global Aspects of Chemistry, Toxicology

and Technology as Applied to the Environment, Vol. II (F. Coulston and F. Korte, Eds.). Academic Press, Inc., New York.

Kenna, B. T., D. E. Averett, P. A. Zappi, and S. M. Yaksich. 1994. Demonstration of Equipment for Dredging Contaminated Sediments at Buffalo River, Buffalo, New York, Pages 885-895 in Dredging '94 - Proceedings of the Second International Conference on Dredging and Dredged Material Placement, Vol. 2 (,). American Society of Civil Engineers, .

Kennedy, J. A. 1982. Water-Mass Structures and Exchanges in Green Bay, Lake Michigan. MS Thesis, University of Wisconsin, Milwaukee.

Kennedy, S. W., and G. A. Fox. 1990. Highly Carboxylated Porphyrins as a Biomarker of Polyhalogenated Aromatic Hydrocarbon Exposure in Wildlife: Confirmation of their Presence in Great Lakes Herring Gull Chicks in the Early 1970s and Important Methodological Details. Chemosphere 21:407-415.

Kennedy, S. W., A. Lorenzen, and S. P. Jones. 1993. Comparison of the Sensitivity of Various Primary Avian Hepatocyte Cell Cultures to the Effects of Polychlorinated Biphenyls (PCBs) and Related Chemicals. Society of Environ. Toxicol. Chem. Abstract Book, 1993 Annual Meeting. Society of Environ. Toxicol. Chem., Pensacola, FL. 251 pp.

Kennedy, S. W., A. Lorenzen, S. P. Jones, M. E. Hahn, and J. J. Stegeman. 1996. Cytochrome P4501A Induction in Avian Hepatocyte Cultures: A Promising Approach for Predicting the Sensitivity of Avian Species to Toxic Effects of Halogenated Aromatic Hydrocarbons. Toxicol. Appl. Pharmacol. 141:214-230.

Kennedy, S. W., A. Lorenzen, and R. J. Norstrom. 1996. Chicken Embryo Hepatocyte Bioassay for Measuring Cytochrome P4501A-Based 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalent Concentrations in Environmental Samples. Environ. Sci. Technol. 30:706-715.

Kernan, L. T. 1995. Lake Trout: Valuable Native Fauna or Just Grease? J. Great Lakes Res. 21 (Supplement 1):198-201.

Kernan, L. T., J. T. Addis, B. Belonger, C. Bleser, R. Bruch, T. Dehring, M. Hansen, M. Holey, D. Ives, C. Krueger, T. Lychwick, J. McNelly, J. Moore, P. Peeters, T. Pellett, R. Poff, D. Schenborn, P. Schultz, and M. Toney. 1986. Lake Michigan Fisheries Management Plan. Administrative Report No. 25, Wisconsin Department of Natural Resources, Bureau of Fish Management, Madison, Wisconsin, March 1986.

Khan, H. M., and L. K. Cutkomp. 1982. In Vitro Studies of DDT, DDE, and ATPas as Related to Avian Eggshell Thinning. Arch. Environ. Contam. Toxicol. 11(5):627-633.

Khan, R. A., and J. Thulin. 1991. Influence of Pollution on Parasites of Aquatic Animals. Advances in Parasitology 30:201-237.

Khera, K. S. 1979. Teratogenic and Genetic Effects of Mercury Toxicity, Pages 501-518 in The Biogeochemistry of Mercury in the Environment (J. O. Nriagu, Ed.). Elsevier/North Holland Biomedical Press, New York.

- Kiff, L. F. 1980. Historical Changes in Resident Populations of California Islands Raptors, Pages 651-673 in *The California Islands: Proceedings of a Multidisciplinary Symposium* (D. M. Power, Ed.). Santa Barbara Natural History Museum, Santa Barbara, CA.
- Kihlstrom, J. E., M. Olsson, S. Jensen, A. Johannson, J. Ahlbom, and A. Bergman. 1992. Effects of PCB and Different Fractions of PCB on the Reproduction of the Mink (*Mustela vison*). *Ambio* 21(8):563-569.
- Kimbrough, R. D. 1995. Polychlorinated Biphenyls (PCBs) and Human Health: An Update. *Critical Reviews in Toxicology* 25(2):133-163.
- Kime, D. E. 1995. The Effects of Pollution on Reproduction in Fish. *Reviews in Fish Biology and Fisheries* 5:52-96.
- King, K. A., T. W. Custer, and J. S. Quinn. 1991. Effects of Mercury, Selenium, and Organochlorine Contaminants on Reproduction of Forster's Terns and Black Skimmers Nesting in a Contaminated Texas Bay. *Arch. Environ. Contam. Toxicol.* 20:32-40.
- King, K. A., C. J. Stafford, B. W. Cain, A. J. Mueller, and H. D. Hall. 1987. Industrial, Agricultural, and Petroleum Contaminants in Cormorants Wintering near the Houston Ship Channel, Texas, USA. *Colonial Waterbirds* 10(1):93-99.
- King, P. S. 1995. *Clean Lakes, Clean Sediments: A Citizen's Guide and Common Sense Action Plan*, 1st ed. Sierra Club Great Lakes Ecoregion Program, Madison.
- Kitchell, J. F. 1995. Toxic Contaminants in the Great Lakes: A Polythetic View of the Issues and Evidence. *Ecological Applications* 5(2):304-307.
- Kitchell, J. F., M. S. Evans, D. Scavia, and L. B. Crowder. 1988. Regulation of Water Quality in Lake Michigan: Report of the Food Web Workshop. *J. Great Lakes Res.* 14(1):109-114.
- Kleinert, S. J. 1976. Sources of Polychlorinated Biphenyls in Wisconsin. *WDNR Bulletin*, Jan-Feb 1976.
- Kleinert, S. J. 1976. The PCB Problem in Wisconsin. WDNR report prepared for the Joint Hearing of the Assembly Environmental Quality Committee with the Senate and Assembly Natural Resources Committees on NR 212 Admin. rules for PCB Effluent Stds, 9/21/76.
- Kloepper-Sams, P. J., and E. Benton. 1994. Exposure of Fish to Biologically Treated Bleached-Kraft Effluent. 2. Induction of Hepatic Cytochrome P4501A in Mountain Whitefish (*Prosopium williamsoni*) and Other Species. *Environ. Toxicol. Chem.* 13(9):1483-1496.
- Kloepper-Sams, P. J., S. M. Swanson, T. Marchant, R. Schryer, and J. W. Owens. 1994. Exposure of Fish to Biologically Treated Bleached-Kraft Effluent. 1. Biochemical, Physiological and Pathological Assessment of

Rocky Mountain Whitefish (*Prosopium williamsoni*) and Longnose Sucker (*Catostomus catostomus*). *Environ. Toxicol. Chem.* 13(9):1469-1482.

Kluwe, W. M., C. L. Herrmann, and J. B. Hook. 1979. Effects of Dietary Polychlorinated Biphenyls and Polybrominated Biphenyls on the Renal and Hepatic Toxicities of Several Chlorinated Hydrocarbon Solvents in Mice. *Journal of Toxicology and Environmental Health* 5:605-615.

Knight, J. W., P. S. Price, D. G. Gunster, and M. N. Gray. 1991. The Role of Predator (Mink) Feeding Ranges in Establishing Soil/Sediment Cleanup Standards. Middle Marsh Investigation Final Report: Sullivan's Ledge Site, New Bedford, Massachusetts. (Ed: Charters, DW) U.S. EPA, Environmental Response Team. March 29, 1991.

Knuth, B. A., and N. A. Connelly. 1992. Is New York's Health Advisory on Fish Consumption Making a Difference? *Coastlines* 22(4):4-5.

Knuth, B. A., N. A. Connelly, and M. A. Shapiro. 1993. Angler Attitudes and Behavior Associated with Ohio River Health Advisories. Human Dimensions Research Unit, Dept. of Natural Resources, New York State College of Agriculture and Life Sciences. HDRU Series No. 93-6. July.

Knuth, B. A., S. Lerner, N. A. Connelly, and L. Gigliotti. 1995. Fishery and Environmental Managers' Attitudes About and Support for Lake Trout Rehabilitation in the Great Lakes. *J. Great Lakes Res.* 21 (Supplement 1):185-197.

Kohler, C., W. Gould, W. Downs, J. Fothergill, C. Shinnars, P. Smith, L. Weimer, S. Wittman, M. Castonia, and W. Bridgers. 1980. The Invisible Menace - Contaminants in the Great Lakes. University of Wisconsin Sea Grant Program, Madison. WIS-SG-80-133.

Kohn, M. C., C. H. Sewall, G. W. Lucier, and C. J. Portier. 1996. A Mechanistic Model of Effects of Dioxin on Thyroid Hormones in the Rat. *Toxicol. Appl. Pharmacol.* 165:29-48.

Koistinen, J., J. T. Sanderson, J. P. Giesy, T. Nevalainen, and J. Paasivirta. 1996. Ethoxyresorufin-O-Deethylase Induction Potency of Polychlorinated Diphenyl Ethers in H4IIE Rat Hepatoma Cells. *Environ. Toxicol. Chem.* 15(11):2028-2034.

Kojala, G. J., and D. E. Hinton. 1976. Histopathological Alterations in Shell Gland Accompanying DDT-induced Thinning of Eggshell. *Environ. Pollut.* 10:225-231.

Kojala, G. J., and D. E. Hinton. 1978. Ultrastructural Alterations in the Eggshell Gland Epithelium of the Mallard Duck after Chronic Exposure to DDT. *Environ. Pollut.* 17:237-244.

Komissarenko, V. P., A. S. Mikosha, and E. P. Polovko. 1997. Action of o,p'-DDE on the ATPase of the Adrenal Cortex. *Problemy Endokrinologii* 24(2):85-89.

Konrad, J. G. 1992. Estimates of Lead, Cadmium, and PCB Loading to the Lower Fox River and Lower Green Bay. Printed in Research Management Findings, Bureau of Research, Wisconsin DNR; Number 33, May 1992.

Konrad, J. G. 1992. Quarterly Reports for WDNR Activities in the Green Bay/Fox River Mass Balance Study, December 1988 to August 1992. Memorandum data report, WDNR, approx 100 pp.

Koonce, J. F. 1995. Aquatic Health..., etc. 1994 State of the Lakes Ecosystem Conference (SOLEC). EPA 905-R-95-012, August 1995.

Koonce, J. F., and M. L. Jones. 1994. Sustainability of the Intensively Managed Fisheries of Lake Michigan and Lake Ontario. Final report of the SIMPLE group, Great Lakes Fisheries Commission, Ann Arbor, Michigan, USA.

Korach, K. S., P. Sarver, K. Chae, J. A. McLachlan, and J. D. McKinney. 1987. Estrogen Receptor-Binding Activity of Polychlorinated Hydroxybiphenyls: Conformationally Restricted Structural Probes. *Molecular Pharmacology* 33:120-126.

Kornbrust, D., B. Gillis, B. Collins, T. Goehl, B. Gupta, and B. Schwetz. 1986. Effects of 1,1-Dichloro-2,2-bis(p-chlorophenyl)ethylene (DDE) on Lactation in Rats. *Journal of Toxicology and Environmental Health* 17(1):23-36.

Koslowski, S. E., C. D. Metcalfe, R. Lazar, and G. D. Haffner. 1994. The Distribution of 42 PCBs, Including Three Coplanar Congeners, in the Food Web of the Western Basin of Lake Erie. *J. Great Lakes Res.* 20:260-270.

Kosmond, L. D. 1995. Lower Fox River System Sediment Characterization: Sediment Quality Triad Assessment and Application of Sediment Quality Guidelines. Public Review Draft, April 1995, WDNR, Sediment Management and Remedial Techniques Team.

Kovacs, T. G., P. H. Martel, R. H. Voss, P. E. Wrist, and R. F. Willes. 1993. Aquatic Toxicity Equivalency Factors for Chlorinated Phenolic Compounds Present in Pulp Mill Effluents. *Environ. Toxicol. Chem.* 12:281-289.

Kozie, K. D., and T. J. Kubiak. 1991. Reproduction in Bald Eagles and Gulls in the High Copper Environment of Torch Lake, Michigan. Final Report to U.S. EPA Region V Superfund Program under Interagency Agreement No. DW 14934338-0, 53 pages.

Kraemer, B. A., and J. Gusloff. 1994. Comprehensive Park and Recreation Plan, Oshkosh, 1994-1998. May 1994.

Kraft, C. 1982. Green Bay's Yellow Perch Fishery. UW Sea Grant Reprint. WIS-SG-82-425.

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.* 3:136-140.

- Kraus, M. L. 1989. Bioaccumulation of Heavy Metals in Pre-Fledgling Tree Swallows, *Tachycineta bicolor*. Bull. Environm. Contam. Toxicol. 43:407-414.
- Krupnick, A. J., and M. L. Cropper. 1992. The Effect of Information on Health Risk Valuations. Journal of Risk and Uncertainty 5:29-48.
- Krutilla, J. V. 1967. Conservation Revisited. American Economics Review 57:777-786.
- Kubiak, T. J., and D. A. Best. 1991. Wildlife Risks Associated with Passage of Contaminated Anadromous Fish at Federal Energy Regulatory Commission Licensed Dams in Michigan. U.S. Fish and Wildlife Service White Paper. Contaminants Program, Division of Ecological Services, USFWS, East Lansing, MI.
- Kubiak, T. J., H. J. Harris, L. M. Smith, T. R. Schwartz, D. L. Stalling, J. A. Trick, L. Sileo, D. E. Docherty, and T. C. Erdman. 1989. Microcontaminants and Reproductive Impairment of the Forster's Tern on Green Bay, Lake Michigan-1983. Arch. Environ. Contam. Toxicol. 18:706-727.
- Kupfer, D., and W. H. Bulger. 1976. Interactions of Chlorinated Hydrocarbons with Steroid Hormones. Federation Proceedings 35(14):2603.
- Kuratsune, M., T. Yoshimura, J. Matsuzaka, and A. Yamaguchi. 1971. Yusho, a Poisoning Caused by Rice Oil Contaminated with Polychlorinated Biphenyls. HSMHA Health Reports 86(12):1083-1091.
- Landrum, P. F., B. J. Eadie, and W. R. Faust. 1991. Toxicokinetics and Toxicity of a Mixture of Sediment-Associated Polycyclic Aromatic Hydrocarbons to the Amphipod *Diporeia* sp. Environ. Toxicol. Chem. 10:35-46.
- Langford, H. D. 1979. Looking at Polychlorinated Biphenyls as Environmental Object Lesson. News Rep. 29(9):1-5.
- Langhan, N. P. E. 1972. Chick Survival in Terns (*Sterna* spp.) with Particular Reference to the Common Tern. J. Anim. Ecol. 41:385-395.
- Larson, B., S. Bowadt, and S. Facchetti. 1992. Separation of Toxic Congeners from PCB Mixtures on Two Series Coupled Narrow-Bore Columns (50 m SIL-8 and 25 m HT-5). International Journal of Environmental Analytical Chemistry 47:147-166.
- Larson, J. M. 1991. Reproductive and Developmental Abnormalities in Double-Crested Cormorants in Lake Michigan. MS Thesis, University of Wisconsin, Madison.
- Larson, J. M., W. H. Karasov, L. Sileo, K. L. Stromborg, B. A. Hanbidge, J. P. Giesy, P. D. Jones, D. E. Tillitt, and D. A. Verbrugge. 1996. Reproductive Success, Developmental Anomalies, and Environmental Contaminants in Double-Crested Cormorants (*Phalacrocorax auritus*). Environ. Toxicol. Chem. 15(4):553-559.

Larsson, P., L. Orla, and L. Collvin. 1993. Reproductive Status and Lipid Content as Factors in PCB, DDT and HCH Contamination of a Population of Pike (*Esox lucius* L.). *Environ. Toxicol. Chem.* 12:855-861.

Lathrop, R. G. J., J. R. Vande Castle, and T. M. Lillesand. 1990. Monitoring River Plume Transport and Mesoscale Circulation in Green Bay, Lake Michigan, Through Satellite Remote Sensing. *J. Great Lakes Res.* 16(3):471-484.

Lead, W. A., E. Steinnes, and K. C. Jones. 1996. Atmospheric Deposition of PCBs to Moss (*Hylocomium splendens*) in Norway Between 1977 and 1990. *Environ. Sci. Technol.* 30:524-530.

Leatherland, J. F. 1993. Field Observations on Reproductive and Developmental Dysfunction in Introduced and Native Salmonids from the Great Lakes. *J. Great Lakes Res.* 19:737-751.

Leblanc, G. A. 1995. Trophic Level Differences in the Bioconcentration of Chemicals - Implications in Assessing Environmental Biomagnification. *Environ. Sci. Technol.* 29:154-160.

Lech, J. J., M. J. Vodicnik, and C. R. Elcombe. 1982. Induction of Monooxygenase Activity in Fish, Pages 107-149 in *Aquatic Toxicology* (L. J. Weber, Ed.). Raven Press, New York.

Lee, C. R., D. L. Brandon, J. W. Simmers, H. E. Tatem, and J. G. Skogerboe. 1991. Information Summary, Area of Concern: Buffalo River, New York. Final Report, prepared for USEPA.

Leece, B., M. A. Denomme, R. Towner, S. M. A. Li, and S. Safe. 1985. Polychlorinated Biphenyls: Correlation between In Vivo and In Vitro Quantitative Structure-Activity Relationships (QSARs). *Journal of Toxicology and Environmental Health* 16:379-388.

Lehman, J. T. 1988. Algal Biomass Unaltered By Food-Web Changes in Lake Michigan. *Nature* 332:537-538.

Lenz, B. N. 1997. Feasibility of Combining Two Aquatic Benthic Macroinvertebrate Community Databases for Water-Quality Assessment. U.S. Geological Survey Fact Sheet FS-132-97, National Water-Quality Assessment Program.

Leonards, P. E. G., T. H. DeVries, W. Minnaard, S. Stuijffzand, P. DeVoogt, W. P. Cofino, N. M. VanStraalen, and B. VanHattum. 1995. Assessment of Experimental Data on PCB-Induced Reproduction Inhibition in Mink, Based on an Isomer-and-Congener-Specific Approach Using 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalency. *Environ. Toxicol. Chem.* 14:639-652.

Leonards, P. E. G., B. Van Hattum, W. P. Cofino, and U. A. T. Brinkman. 1993. The Occurrence of Non-ortho, Mono-ortho and Diortho Substituted PCB Congeners in Different Organs and Tissues of Polecats (*Mustela putorius* L.) from The Netherlands. *Environ. Toxicol. Chem.* In Press.

- Leonards, P. E. G., B. VanHattum, W. P. Cofino, and U. A. T. Brinkman. 1994. Occurrence of Non-ortho, Mono-ortho, and Di-ortho Substituted PCB Congeners in Different Organs and Tissues of Polecats (*Mustela putorius* L.) from the Netherlands. *Environ. Toxicol. Chem.* 13:129-142.
- Leonzio, C., M. C. Fossi, L. Lari, and S. Focardi. 1992. Influence of Cadmium on Polychlorobiphenyl Uptake, MFO Activity, and Serum Lipid Levels in Japanese Quail. *Arch. Environ. Contam. Toxicol.* 22:238-241.
- Leung, P.-S. K., and N. J. Sell. 1982. Effect of the Paper Industry on Water Quality of the Lower Fox River. *Water Resources Bulletin* 18(3):495-502.
- Levin, E. D., S. L. Schantz, and R. E. Bowman. 1988. Delayed Spatial Alternation Deficits Resulting from Perinatal PCB Exposure in Monkeys. *Arch. Toxicol.* 62:267-273.
- Levine, S. L., J. T. Oris, and T. E. Wissing. 1995. Influence of Environmental Factors on the Physiological Condition and Hepatic Ethoxyresorufin o-Deethylase (EROD) Activity of Gizzard Shad (*Dorosoma cepedianum*). *Environ. Toxicol. Chem.* 14(1):123-128.
- Lichtkoppler, F. R., and L. J. Hushak. 1993. Ohio's 1990 Lake Erie Charter Fishing Industry. *Fisheries* 18(1):14-21.
- Lichtkoppler, F. R., D. O. Kelch, and M. A. Berry. 1993. Attitudes of 1990, 1991, and 1992 Mid-America Boat Show and 1991 Fairport Fishing Symposium Patrons Concerning the Zebra Mussel (*Dreissena polymorpha*), Lake Erie, and Great Lakes Pollution. *J. Great Lakes Res.* 19(1):129-135.
- Lick, W., J. Gailani, J. Lick, C. K. Ziegler, J. McNeil, and S. Borglin. 1992. Sediment and Contaminant Transport and Fate. Presented at the Green Bay/Fox River Mass Balance Study Management Summary Meeting, December 3-4, 1992.
- Lick, W., Y. J. Xu, and J. McNeil. 1995. Resuspension Properties of Sediments from the Fox, Saginaw, and Buffalo Rivers. *J. Great Lakes Res.* 21(2):257-274.
- Lidman, U., L. Forlin, O. Molander, and G. Axelson. 1976. Induction of the Drug Metabolizing System in Rainbow Trout (*Salmo gairdnerii*) Liver by Polychlorinated Biphenyls (PCBs). *Acta Pharmacol. Toxicol.* 39:262-272.
- Lieb, A. J., D. D. Bills, and R. O. Sinnhuber. 1974. Accumulation of Dietary Polychlorinated Biphenyls (Aroclor 1254) by Rainbow Trout. *J. Agr. Food Chem.* 22(4):638-642.
- Lien, G. J., K. E. Biesinger, L. E. Anderson, E. N. Leonard, and M. A. Gibbons. 1986. A Toxicity Evaluation of Lower Fox River Water and Sediments. EPA/600/3-86/008, March 1986.

- Lillie, R. J., H. C. Cecil, J. Bitman, and G. F. Fries. 1974. Differences in Response of Caged White Leghorn Layers to Various Polychlorinated Biphenyls (PCBs) in the Diet. *Poultry Science* 53:726-732.
- Lillie, R. J., H. C. Cecil, J. Bitman, G. F. Fries, and J. Verrett. 1975. Toxicity of Certain Polychlorinated and Polybrominated Biphenyls on Reproductive Efficiency of Caged Chickens. *Poultry Science* 54:1550-1555.
- Lincer, J. L. 1975. DDE-Induced Eggshell-Thinning in the American Kestrel: A Comparison of the Field Situation and Laboratory Results. *J. Appl. Ecol.* 12:781-793.
- Lincer, J. L., and D. B. Peakall. 1970. Metabolic Effects of Polychlorinated Biphenyls in American Kestrel. *Nature* 228:783.
- Lindstrom-Seppa, P., P. J. Korytko, M. E. Hahn, and J. J. Stegeman. 1994. Uptake of Waterborne 3,3',4,4'-Tetrachlorobiphenyl and Organ Cell-Specific Induction of Cytochrome P4501A in Adult and Larval Fathead Minnow (*Pimephales promelas*). *Aquat. Toxicol.* 28:147-167.
- Link, D., J. Gray, K. Peterson, A. Miller, and G. Woock. Date unknown. 1982 Charter Boat Operator Study. Recreation Resources Center, UW Sea Grant Institute, WIS-SG-85-427.
- Linzey, A. V. 1987. Effects of Chronic Polychlorinated Biphenyls Exposure on Reproductive Success of White-Footed Mice (*Peromyscus leucopus*). *Arch. Environ. Contam. Toxicol.* 16:455-460.
- Liu, Y., J. Schwartz, and C. L. Cavallaro. 1995. Catalytic Dechlorination of Polychlorinated Biphenyls. *Environ. Sci. Technol.* 29(3):836-840.
- Lockwood-Post. 1997. Lockwood-Post's Directory of the Pulp, Paper and Allied Trades. Lockwood's Directory of the Paper and Allied Trades, 1950-1987; Lockwood-Post's Directory of the Pulp, Paper and Allied Trades, 1988-1997: Wisconsin Sections of each edition.
- Lohr, T. 1988. Lower Fox River and Green Bay Harbor PCB Sediment Sampling Data. Wisconsin DNR, Bureau of Water Resources Management. 35 pp.
- Loizeau, V., and A. Menesguen. 1993. A Steady-State Model of PCB Accumulation in Dab Food Web. *Oceanologica Acta* 16:633-640.
- Longcore, J. R., and F. B. Samson. 1973. Eggshell Breakage by Incubating Black Ducks Fed DDE. *J. Wildl. Mgmt.* 37(3):390-394.
- Longwell, A. C., S. Chang, A. Hebert, J. B. Hughes, and D. Perry. 1992. Pollution and Developmental Abnormalities of Atlantic Fishes. *Environmental Biology of Fishes* 35:1-21.
- Lonky, E., J. Reihman, T. Darvill, J. S. Mather, and H. Daly. 1996. Neonatal Behavioral Assessment Scale Performance in Humans Influenced by Maternal Consumption of Environmentally Contaminated Lake Ontario Fish. *J. Great Lakes Res.* 22(2):198-212.

- Lopez Garcia, A., A. C. den Boer, and A. P. J. M. De Jong. 1996. Determination of Non- and Mono-ortho-polychlorinated biphenyls In Background Ambient Air. *Environ. Sci. Technol.* 30:1032-1037.
- Lorenzen, A., J. L. Shutt, and S. W. Kennedy. 1997. Sensitivity of Common Tern (*Sterna hirundo*) Embryo Hepatocyte Cultures to CYP1A Induction and Porphyrin Accumulation by Halogenated Aromatic Hydrocarbons and Common Tern Egg Extracts. *Arch. Environ. Contam. Toxicol.* 32:126-134.
- Louviere, J. J. 1983. Integrating Conjoint and Functional Measurement with Discrete Choice Theory: An Experimental Design Approach. *Advances in Consumer Research* 10:151-156.
- Louviere, J. J. 1986. A Conjoint Model for Analyzing New Product Positions in a Differentiated Market with Price Competition. *Advances in Consumer Research* 13:375-380.
- Lowe, P. T., and R. C. Stendell. 1991. Eggshell Modifications in Captive American Kestrels Resulting from Aroclor 1248 in the Diet. *Arch. Environ. Contam. Toxicol.* 20:519-522.
- Lucier, G. W. 1991. Humans Are a Sensitive Species to Some of the Biochemical Effects of Structural Analogs of Dioxin. *Environ. Toxicol. Chem.* 10(6):727-735.
- Ludwig, J. P. 1965. Biology and Structure of the Caspian Tern (*Hydroprogne caspia*) Population of the Great Lakes from 1896-1964. *Bird Banding* 36:217-233.
- Ludwig, J. P. 1984. Decline, Resurgence and Population Dynamics of Michigan and Great Lakes Double-Crested Cormorants. *Jack Pine Warbler* 62:91-102.
- Ludwig, J. P., H. J. Auman, H. Kurita, M. E. Ludwig, L. M. Campbell, J. P. Giesy, D. E. Tillitt, P. Jones, N. Yamashita, S. Tanabe, and R. Tatsukawa. 1993. Caspian Tern Reproduction in the Saginaw Bay Ecosystem Following a 100-Year Flood Event. *J. Great Lakes Res.* 19(1):96-108.
- Ludwig, J. P., H. J. Auman, D. V. Weseloh, G. A. Fox, J. P. Giesy, and M. E. Ludwig. 1995. Evaluation of the Effects of Toxic Chemicals in Great Lakes Cormorants: Has Causality Been Established? *Colonial Waterbirds* 18(Special Publication):60-69.
- Ludwig, J. P., W. E. Cooper, M. Gilbertson, S. R. Carpenter, L. J. Jackson, J. F. Kitchell, and C. A. Stow. 1996. Letters to the Editor: 1. Contaminants Effectuated Widespread Changes of Great Lakes Populations and Communities; and 2. Organochlorine Contaminants in the Great Lakes. *Ecological Applications*, 6(3), 1996, pp. 962-974.
- Ludwig, J. P., J. P. Giesy, C. L. Summer, W. Bowerman, R. Aulerich, S. Bursian, H. J. Auman, P. D. Jones, L. L. Williams, D. E. Tillitt, and M. Gilbertson. 1993. A Comparison of Water Quality Criteria for the Great Lakes Based on Human and Wildlife Health. *J. Great Lakes Res.* 19(4):789-807.

Ludwig, J. P., H. Kurita-Matsuba, H. J. Auman, M. E. Ludwig, C. L. Summer, J. P. Giesy, D. E. Tillitt, and P. D. Jones. 1996. Deformities, PCBs, and TCDD-Equivalents in Double-Crested Cormorants (*Phalacrocorax auritus*) and Caspian Terns (*Hydroprogne caspia*) of the Upper Great Lakes 1986-1991: Testing a Cause-Effect Hypothesis. *J. Great Lakes Res.* 22(2):172-197.

Ludwig, J. P., and M. E. Ludwig. Undated report. Food Habits of the Double-Crested Cormorant in Michigan, 1986-1988: Implications for the Acquisition of Toxic Contaminants from Fish by Breeding Females. Michigan Department of Natural Resources.

Ludwig, J. P., and M. P. Ludwig. Undated report. Productivity and Deformities in Chicks of the Michigan Great Lakes' Colonies of Double-Crested Cormorants (*Phalacrocorax auritus*) and Caspian Terns (*Hydroprogne caspia*). Michigan Department of Natural Resources.

Ludwig, J. P., and C. S. Tomoff. 1966. Reproductive Success and Insecticide Residues in Lake Michigan Herring Gulls. *Jack-Pine Warbler* 44:77-84.

Lundholm, E. 1987. Thinning of Eggshells of Birds by DDE: Mode of Action on the Eggshell Gland. *Comp. Biochem. Physiol.* 88C:1-22.

Luxon, P. L., P. V. Hodson, and U. Borgman. 1987. Hepatic Aryl Hydrocarbon Hydroxylase Activity of Lake Trout (*Salvelinus namaycush*) as an Indicator of Organic Pollution. *Environ. Toxicol. Chem.* 6:649-657.

Lyke, A. J. 1993. Discrete Choice Models to Value Changes in Environmental Quality: A Great Lakes Case Study. Ph.D. Dissertation, University of Wisconsin-Madison.

Maack, L., and W. C. Sonzogni. 1988. Analysis of Polychlorobiphenyl Congeners in Wisconsin Fish. *Arch. Environ. Contam. Toxicol.* 17:711-719.

Mac, M. J. 1981. Vulnerability of Young Lake Trout to Predation After Chronic Exposure to PCB's and DDE. *Technical Papers of the U.S. Fish and Wildlife Service* 105:29-32.

Mac, M. J. 1988. Toxic Substances and Survival of Lake Michigan Salmonids: Field and Laboratory Approaches, Pages 389-401 in *Toxic Contaminants and Ecosystem Health; a Great Lakes Focus* (M. S. Evans, Ed.). John Wiley & Sons, Inc., New York.

Mac, M. J., and R. A. Bergstedt. 1981. Temperature Selection by Young Lake Trout After Chronic Exposure to PCB's and DDE. *Technical Papers of the U.S. Fish and Wildlife Service* 105:33-35.

Mac, M. J., W. H. Berlin, and D. V. Rottiers. 1981. Comparative Hatchability of Lake Trout Eggs Differing in Contaminant Burden and Incubation Conditions. *Technical Papers of the U.S. Fish and Wildlife Service* 105:8-22.

Mac, M. J., and C. C. Edsall. 1991. Environmental Contaminants and the Reproductive Success of Lake Trout in the Great Lakes: An Epidemiological Approach. *Journal of Toxicology and Environmental Health* 33:375-394.

Mac, M. J., C. C. Edsall, and R. J. Hesselberg. 1985. Accumulation of PCBs and Hg by Fish and Earthworms During Field and Laboratory Exposures to Green Bay Sediments. Administrative Report No. 85-4, USFWS-GLFL/AR-85-4, November 1985.

Mac, M. J., C. C. Edsall, R. J. Hesselberg, and R. E. J. Sayers. 1984. Flow-Through Bioassay for Measuring Bioaccumulation of Toxic Substances from Sediment. Great Lakes National Program Office, USEPA, Chicago. Final Report, May 1984, Interagency Agreement DW 930095-01-0, Report No. EPA-905/3-84-007.

Mac, M. J., C. C. Edsall, and J. G. Seelye. 1985. Survival of Lake Trout Eggs and Fry Reared in Water from the Upper Great Lakes. *J. Great Lakes Res.* 11(4):520-529.

Mac, M. J., G. E. Noguchi, R. J. Hesselberg, C. C. Edsall, J. A. Shoesmith, and J. D. Bowker. 1990. A Bioaccumulation Bioassay for Freshwater Sediments. *Environ. Toxicol. Chem.* 9:1405-1414.

Mac, M. J., and T. R. Schwartz. 1992. Investigations into the Effects of PCB Congeners on Reproduction in Lake Trout from the Great lakes. *Chemosphere* 25(1-2):189-192.

Mac, M. J., T. R. Schwartz, C. C. Edsall, and A. M. Frank. 1993. Polychlorinated Biphenyls in Great Lakes Lake Trout and Their Eggs: Relations to Survival and Congener Composition 1979-1988. *J. Great Lakes Res.* 19(4):752-765.

Macdonald, C. R., and C. D. Metcalfe. 1991. Concentration and Distribution of PCB Congeners in Isolated Ontario Lakes Contaminated by Atmospheric Deposition. *Can. J. Fish. Aquat. Sci.* 48:371-381.

MacDonald, C. R., C. D. Metcalfe, G. C. Balch, and T. L. Metcalfe. 1993. Distribution of PCB Congeners in Seven Lake Systems: Interactions Between Sediment and Food-web Transport. *Environ. Toxicol. Chem.* 12:1991-2003.

MacDonald, H. F., and K. J. Boyle. 1997. Effect of a Statewide Sport Fish Consumption Advisory on Open-Water Fishing in Maine. *North American Journal of Fisheries Management* 17:687-695.

MacDonald, R. W., M. G. Ikonou, and D. W. Paton. 1998. Historical Inputs of PCDDs, PCDFs, and PCBs to a British Columbia Interior Lake: The Effect of Environmental Controls on Pulp Mill Emissions. *Environ. Sci. Technol.* 32:331-337.

MacDonald Environmental Sciences Ltd. 1999. Development and Evaluation of Consensus-Based Sediment Effect Concentrations for PCBs in the Hudson River. Prepared for Damage Assessment Center, NOAA, Silver Spring, MD, through Industrial Economics Inc., Cambridge, MA, March 1999.

- MacKay, D. 1982. Correlation of Bioconcentration Factors. *Environ. Sci. Technol.* 16:274-278.
- Mackay, D. 1989. Modeling the Long-term Behavior of an Organic Contaminant in a Large Lake: Application to PCBs in Lake Ontario. *J. Great Lakes Res.* 15:283-297.
- Mackay, D., A. Bobra, D. W. Chan, and W. Y. Shiu. 1982. Vapor Pressure Correlations For Low-volatility Environmental Chemicals. *Environ. Sci. Technol.* 16(10):645-649.
- Mackay, D., and A. Di Guardo. 1995. Organochlorines in the Great Lakes Ecosystem: Sources, Partitioning, and Control. *Ecological Applications* 5(2):301-304.
- Mackay, D., S. Paterson, S. J. Eisenreich, and M. S. Simmons [eds.]. 1983. *Physical Behavior of PCBs in the Great Lakes*. Ann Arbor Science Publishers, Inc., Ann Arbor.
- Mackay, D., S. Sang, P. Vlahos, M. Diamond, F. Gobas, and D. Dolan. 1994. A Rate Constant Model of Chemical Dynamics in a Lake Ecosystem: PCBs in Lake Ontario. *J. Great Lakes Res.* 20:625-642.
- MacKenzie, J. 1992. Evaluating Recreation Trip Attributes and Travel Time Via Conjoint Analysis. *Journal of Leisure Research* 24(2):171-184.
- MacLatchy, D., L. Peters, J. Nickle, and G. Van der Kraak. 1997. Exposure to B-Sitosterol Alters the Endocrine Status of Goldfish Differently than 17B-Estradiol. *Environ. Toxicol. Chem.* 16(9):1895-1904.
- MacNeill, D. B. 1996. Guest Commentary: Lay Perspectives on Lake Ontario Fisheries. *Great Lakes Research Review* 2(2):1-3.
- Madariaga, B., and K. McConnell. 1987. Exploring Existence Value. *Water Resources Research* 23(5):57-70.
- Madej, A., M. Forsberg, and L.-E. Edqvist. 1992. Urinary Excretion of Cortisol and Oestrone Sulfate in Pregnant Mink Fed PCB and Fractions of PCB. *Ambio* 21(8):582.
- Madenjian, C. P., S. R. Carpenter, G. W. Eck, and M. A. Miller. 1993. Accumulation of PCBs by Lake Trout (*Salvelinus namaycush*): An Individual-Based Model Approach. *Can. J. Fish. Aquat. Sci.* 50(1):97-109.
- Madenjian, C. P., S. R. Carpenter, and G. E. Noguchi. 1993. Individual-Based Model for Dieldrin Contamination in Lake Trout. *Arch. Environ. Contam. Toxicol.* 24:78-82.
- Madenjian, C. P., S. R. Carpenter, and P. S. Rand. 1994. Why Are the PCB Concentrations of Salmonine Individuals from the Same Lake So Highly Variable. *Can. J. Fish. Aquat. Sci.* 51:800-807.
- Madenjian, C. P., T. J. DeSorcie, R. M. Stedman, E. H. J. Brown, G. W. Eck, L. J. Schmidt, R. J. Hesselberg, S. M. Chernyak, and D. R. Passino-

Reader. 1999. Spatial Patterns in PCB Concentrations of Lake Michigan Lake Trout. *J. Great Lakes Res.* 25(1):149-159.

Madenjian, C. P., G. E. Noguchi, R. C. Haas, and K. S. Schrouder. 1998. Sexual Difference in Polychlorinated Biphenyl Accumulation Rates of Walleye (*Stizostedion vitreum*). *Can. J. Fish. Aquat. Sci.* 55:1085-1092.

Madenjian, C. P., D. M. Whittle, J. H. Elrod, R. O'Gorman, and R. W. Owens. 1995. Use of a Simulation Model to Reconstruct PCB Concentrations in Prey of Lake Ontario Lake Trout. *Environ. Sci. Technol.* 29(10):2610-2615.

Madra, S., F. Mann, J. E. Francis, M. M. Manson, and A. G. Smith. 1996. Modulation by Iron of Hepatic Microsomal and Nuclear Cytochrome P450, and Cytosolic Glutathione s-Transferase and Peroxidase in C57BL/10ScSn Mice Induced with Polychlorinated Biphenyls (Aroclor 1254). *Toxicol. Appl. Pharmacol.* 136:79-86.

Mahanty, H. K. 1973. A Study on the Effects of Polychlorinated Biphenyl (Aroclor 1242) on an Aquatic Plant - *Spirodela oligorrhiza* (Kurz) Helm. *Bull. Environm. Contam. Toxicol.* 14:558.

Manchester, J. B. 1993. The Role of Porewater in the Remobilization of Sediment-Bound PCB Congeners. Ph.D. Dissertation, University of Wisconsin-Madison.

Manchester-Neesvig, J. B., A. W. Andren, and D. N. Edgington. 1996. Patterns of Mass Sedimentation and of Deposition of Sediment Contaminated by PCBs in Green Bay. *J. Great Lakes Res.* 22(2):444-462.

Mark, D. J., N. W. Scheffner, H. L. Butler, B. W. Bunch, and M. S. Dortch. 1993. Hydrodynamic and Water Quality Modeling of Lower Green Bay, Wisconsin. Volume I; Main Text and Appendices A-E. US Army Corp of Engineers: Technical Report CERC-93-16.

Marquette County Outdoor Recreation Plan Committee, Marquette County Rural Planning Committee, and F. Scharnke. 1991. Marquette County Outdoor Recreation Plan. December 1991.

Marti, E. 1984. Polychlorinated biphenyls in Sixteen Lake Michigan Tributaries. Masters of Science Dissertation, University of Wisconsin - Madison, Madison, Wisconsin.

Marti, E. A., and D. E. Armstrong. 1990. Polychlorinated Biphenyls in Lake Michigan Tributaries. *J. Great Lakes Res.* 16(3):396-405.

Martin, E. M. 1991. Tables of Average 1981-90 Waterfowl Harvest by Species and County for the Mississippi Flyway. Draft Report. U.S. FWS, Office of Migratory Bird Management Waterfowl Harvest Surveys Section, Laurel MD. October 21.

Martin, J. L., W. L. Richardson, and S. C. McCutcheon. 1991. Modeling Studies for Planning: The Green Bay Project. *Journal AWRA* 27(3):8 pp.

Martin, L. R. G. 1987. Economic Impact Analysis of a Sport Fishery on Lake Ontario: An Appraisal of Method. Trans. Amer. Fish. Soc. 116:461-468.

Masnado, R. G. 1987. Polychlorinated Biphenyl Concentrations of Eight Salmonid Species from the Wisconsin Waters of Lake Michigan: 1985. Fish Management Report 132. Prepared by the Bureau of Fish Management, Wisconsin DNR. Madison, WI, February.

Matteson, S. W. 1988. Wisconsin Common Tern Recovery Plan. Wisconsin Endangered Resources Report 41. Bureau of Endangered Resources, Wisconsin Department of Natural Resources, Madison.

Matteson, S. W. 1993. Wisconsin Caspian Tern Recovery Plan. Bureau of Endangered Resources, Wisconsin Department of Natural Resources, Madison.

Matteson, S. W., and T. C. Erdman. 1992. Lower Green Bay Colonial Waterbird Management Plan. Draft, December 30, 1992.

Matzen, A. M., and D. A. Saad. 1996. Pesticides in Ground Water in the Western Lake Michigan Drainages, Wisconsin and Michigan, 1983-1995. USGS Fact Sheet FS-192-96.

Mauck, W. L., P. M. Mehrle, and F. L. Mayer. 1978. Effects of the Polychlorinated Biphenyl Aroclor 1254 on Growth, Survival, and Bone Development in Brook Trout (*Salvelinus fontinalis*). J. Fish. Res. Board Can. 35:1084-1088.

Maves, K. L. 1961. The Economics of Recovery in a Deinking System. Tappi 44(4):171A-172A.

May, T., and G. McKinney. 1981. Cadmium, Lead, Mercury, Arsenic, and Selenium Concentrations in Freshwater Fish, 1976-77 - National Pesticide Monitoring Program. Pestic. Monit. J. 15(1):14-38.

Mayer, F. L., P. M. Mehrle, and H. O. Sanders. 1977. Residue Dynamics and Biological Effects of Polychlorinated Biphenyls in Aquatic Organisms. Arch. Environ. Contam. Toxicol. 5:501-511.

Mayer, K. S., F. L. Mayer, and A. Witt Jr. 1985. Waste Transformer Oil and PCB Toxicity to Rainbow Trout. Trans. Amer. Fish. Soc. 114:869-886.

May Passino, D. R. 1981. Biochemistry and Metabolism of Lake Trout: Laboratory and Field Studies on the Effects of Contaminants. Technical Papers of the U.S. Fish and Wildlife Service 105:36-42.

May Passino, D. R. 1984. Biochemical Indicators of Stress in Fishes: An Overview, Pages 37-50 in Contaminant Effects on Fisheries (V. W. Cairns, P. V. Hodson, and J. O. Nriagu, Eds.). John Wiley & Sons, Inc., New York.

May Passino, D. R. 1986. Predictive Models in Hazard Assessment of Great Lakes Contaminants for Fish. Proceedings of the Technology Transfer Conference, Ontario Ministry of the Environment, Toronto, Ontario,

Canada, December 8 and 9, 1986. Contribution 670, National Fisheries Center-Great Lakes.

McCarty, J. P., and A. L. Secord. 1999. Nest-Building Behavior in PCB-Contaminated Tree Swallows. *The Auk* 116(1):55-63.

McCarty, J. P., and A. L. Secord. 1999. Reproductive Ecology of Tree Swallows (*Tachycineta bicolor*) with High Levels of Polychlorinated Biphenyl Contamination. *Environ. Toxicol. Chem.* 18(7):1433-1439.

McConnell, L. L., W. E. Cotham, and T. F. Bidleman. 1993. Gas Exchange of Hexachlorocyclohexane in the Great Lakes. *Environ. Sci. Technol.* 27:1304-1311.

McFarland, V. A., and J. U. Clarke. 1989. Environmental Occurrence, Abundance, and Potential Toxicity of Polychlorinated Biphenyl Congeners: Considerations for a Congener-Specific Analysis. *Environ. Health Perspec.* 81:225-239.

McKinney, J. D., J. Fawkes, S. Jordan, K. Chae, S. Oatley, R. E. Coleman, and W. Briner. 1985. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) As a Potent and Persistent Thyroxine Agonist: A Mechanistic Model for Toxicity Based on Molecular Reactivity. *Environ. Health Perspec.* 61:41-53.

McMaster, M. E., G. J. Van Der Kraak, and K. R. Munkittrick. 1996. An Epidemiological Evaluation of the Biochemical Basis for Steroid Hormonal Depressions in Fish Exposed to Industrial Wastes. *J. Great Lakes Res.* 22(2):153-171.

MDNR. 1983. A Survey of PCBs in the Kalamazoo River and Portage Creek Sediments, Kalamazoo to Lake Allegan, 1983. Michigan Department of Natural Resources, Surface Water Quality Division, November 1983.

MDNR. 1984. PCB and Mercury Concentrations in Carp (*Cyprinus carpio*) from the Lower Kalamazoo River, July, 1983. Michigan Department of Natural Resources, Surface Water Quality Division.

MDNR. 1987. Analysis of PCB Concentrations in a Numerically Large Sample of Carp from Lake Allegan (Kalamazoo River), July, 1986. Michigan Department of Natural Resources, Surface Water Quality Division. May, 1987.

MDNR. 1990. 1990 Superfund Research on Manistique Papers, Inc.

MDNR. 1995. White Lake Area of Concern, Remedial Action Plan: 1994 Update. Prepared for Michigan Department of Natural Resources by Public Sector Consultants, Inc. April 1995.

MDNR. 1997. Michigan Fishing Guide. Department of Natural Resources, Fisheries Division, Michigan DNR.

Mehrle, P. M., T. A. Haines, S. Hamilton, J. L. Ludke, F. L. Mayer, and M. A. Ribick. 1982. Relationship between Body Contaminants and Bone

Development in East-Coast Striped Bass. Trans. Amer. Fish. Soc. 111:231-241.

Melancon, M. J. 1995. Bioindicators Used in Aquatic and Terrestrial Monitoring, Pages 220-240 in Handbook of Ecotoxicology (D. J. Hoffman, B. A. Rattner, G. A. J. Burton, and J. J. Cairns, Eds.). Lewis Publishers, CRC Press, Inc., Boca Raton, Florida.

Melancon, M. J. 1997. Development of Cytochromes P450 in Avian Species as a Biomarker for Environmental Contaminant Exposure and Effect: Procedures and Baseline Values, Pages in Environmental Toxicology and Risk Assessment: Biomarkers and Risk Assessment (5th Volume), ASTM STP 1306, Vol. 5 (D. A. Bengtson and D. S. Henschel, Eds.). American Society for Testing and Materials, Philadelphia.

Melancon, M. J., R. Alscher, W. Benson, G. Kruzynski, R. F. Lee, H. C. Sikka, and R. B. Spies. 1989. Metabolic Products as Biomarkers, Pages 87-123 in Biomarkers - Biochemical, Physiological, and Histological Markers of Anthropogenic Stress (R. J. Huggett, R. A. Kimerle, P. M. J. Mehrle, and H. L. Bergman, Eds.). Lewis Publishers, Chelsea, MI.

Melancon, M. J., and J. J. Lech. 1983. Dose-Effect Relationship for Induction of Hepatic Monooxygenase Activity in Rainbow Trout and Carp by Aroclor 1254. Aquat. Toxicol. 4:51-61.

Melancon, M. J., K. A. Turnquist, and J. J. Lech. 1989. Relation of Hepatic Microsomal Monooxygenase Activity to Tissue PCBs in Rainbow Trout (*Salmo gairdneri*) Injected With [¹⁴C] PCBs. Environ. Toxicol. Chem. 8:777-782.

Melancon, M. J., S. E. Yeo, and J. J. Lech. 1987. Induction of Hepatic Microsomal Monooxygenase Activity in Fish by Exposure to River Water. Environ. Toxicol. Chem. 6:127-135.

City of Menasha Parks and Recreation Board, and East Central Wisconsin Regional Planning Commission. 1996. City of Menasha Open Space and Recreation Facilities Plan. August 1996.

Merna, J. W. 1986. Contamination of Stream Fishes with Chlorinated Hydrocarbons from Eggs of Great Lakes Salmon. Trans. Amer. Fish. Soc. 115:69-74.

Merson, M. H., and R. L. Kirkpatrick. 1976. Reproductive Performance of Captive White-Footed Mice Fed a PCB. Bull. Environm. Contam. Toxicol. 16:392-398.

Mes, J., D. L. Arnold, F. Bryce, D. J. Davies, and K. Karpinski. 1989. The Effect of Long-Term Feeding of Aroclor 1254 to Female Rhesus Monkeys on Their Polychlorinated Biphenyl Tissue Levels. Arch. Environ. Contam. Toxicol. 18:858-865.

Metcalf, C. D., G. E. Harris, D. M. Janz, and Y. Kipirissis. 1993. Toxic Equivalency Factors for Coplanar PCBs in Fish. Proceedings of the International Association for Great Lakes Research, 36th Conference.

International Association of Great Lakes Research, De Pere, Wisconsin. 110 pp.

Meyer, M. W. 1990. Annual Summary of Bald Eagle Productivity in Wisconsin Contaminant Concern Areas - 1990. WDNR Bureau of Research, October 1990.

Meyer, M. W. 1995. Elevated Contaminant Exposure is Associated with Bald Eagle Reproductive Impairment on Wisconsin's Green Bay/Lake Michigan Shoreline. Prepared by the Wisconsin DNR's Bureau of Research.

Michigan State University. 1994. Use of Egg Injections to Determine the Potential Effects of Polyhalogenated Environmental Contaminants on Avian Species. Prepared for the U.S. Fish and Wildlife Service.

Michigan Water Resources Commission. 1982. Polychlorinated Biphenyls Survey of the Kalamazoo River and Portage Creek in the Vicinity of the City of Kalamazoo. Report of the Bureau of Water Management.

Miller, G. S., and J. H. Saylor. 1985. Currents and Temperatures in Green Bay, Lake Michigan. J. Great Lakes Res. 11:97-109.

Miller, G. S., and J. H. Saylor. 1993. Low-Frequency Water Volume Transport through the Midsection of Green Bay, Lake Michigan, Calculated from Current and Temperature Observations. J. Great Lakes Res. 19:361-367.

Miller, J. R., and M. J. Hay. Date Unknown. Estimating the Substate Values of Fishing and Hunting. Transactions of the North American Wildlife and Natural Resource Conference.

Miller, M. A. 1993. Maternal Transfer of Organochlorine Compounds in Salmonines to Their Eggs. Can. J. Fish. Aquat. Sci. 50:1405-1413.

Miller, M. A. 1994. Organochlorine Concentration Dynamics in Lake Michigan Chinook Salmon (*Oncorhynchus tshawytscha*). Arch. Environ. Contam. Toxicol. 27:367-374.

Miller, M. A., N. M. Kassulke, and M. D. Walkowski. 1993. Organochlorine Concentrations in Laurentian Great Lakes Salmonines: Implications for Fisheries Management. Arch. Environ. Contam. Toxicol. 25:212-219.

Miller, M. A., C. P. Madenjian, and R. G. Masnado. 1992. Patterns of Organochlorine Contamination in Lake Trout from Wisconsin Waters of the Great Lakes. J. Great Lakes Res. 18(4):742-754.

Miller, T. J., and T. J. Kubiak. 1988. Emerging Issues - Ongoing and Emerging. 6.1 Wildlife. Unpublished Report, U.S. Fish and Wildlife Service, East Lansing, Michigan.

Mitchell, R. C., and R. T. Carson. 1989. Using Surveys to Value Public Goods: The Contingent Valuation Method. Johns Hopkins Press for Resources for the Future, Washington, DC.

- MITW. 1995. Menominee Reservation Lake Sturgeon Management Plan. Menominee Reservation Sturgeon Management Planning Committee, May 1995.
- Moccia, R. D., G. A. Fox, and A. Britton. 1986. A Quantitative Assessment of Thyroid Histopathology of Herring Gulls (*Larus argentatus*) from the Great Lakes and a Hypothesis on the Causal Role of Environmental Contaminants. *J. Wild. Dis.* 22:60-70.
- Modlin, R. F., and A. M. Beeton. 1970. Dispersal of Fox River Water in Green Bay, Lake Michigan. In *Proceedings 13th Conference Great Lakes Research*. pp 468-476.
- Monks, V. 1997. Children At Risk. *National Wildlife* June/July:18-27.
- Monosson, E. 1999. Reproductive, Developmental and Immunotoxic Effects of PCBs in Fish: a Summary of Laboratory and Field Studies. Prepared for Damage Assessment Center, NOAA, Silver Spring, MD through Industrial Economics, Inc., Cambridge, MA, March 1999.
- Monosson, E., W. J. Fleming, and C. V. Sullivan. 1994. Effects of the Planar PCB 3,3',4,4'-Tetrachlorobiphenyl (TCB) on Ovarian Development, Plasma Levels of Sex Steroid Hormones and Vitellogenin, and Progeny Survival in the White Perch (*Morone americana*). *Aquat. Toxicol.* 29:1-19.
- Monteith, T. J., and W. C. Sonzogni. 1981. Variations in the U.S. Great Lakes Tributary Flows and Loadings. Great Lakes Environmental Planning Study (GLEPS) Contribution No. 47, Great Lakes Basin Commission, Ann Arbor, Michigan.
- Montopoli, G. J., and D. A. Anderson. 1991. A Logistic Model for the Cumulative Effects of Human Intervention on Bald Eagle Habitat. *J. Wildl. Mgmt.* 55(2):290-293.
- Montz, W. E., W. C. Card, and R. L. Kirkpatrick. 1982. Effects of Polychlorinated Biphenyls and Nutritional Restriction on Barbiturate-Induced Sleeping Times and Selected Blood Characteristics in Raccoons (*Procyon lotor*). *Bull. Environm. Contam. Toxicol.* 28:578-583.
- Moon, T. W., D. M. E. Otto, D. M. Arquette, and J. K. Buttner. 1996. Detection of Contaminant Exposure in Fish by Activation of Detoxication Enzymes. *Great Lakes Research Review* 2(2):36-40.
- Moore, J. R., and R. P. Meyer. 1969. Progress Report on the Geological-Geophysical Survey of Green Bay, 1968. Technical Report No. 1, University of Wisconsin Sea Grant Program, Madison. 16 pp.
- Mora, M. A. 1996. Congener-Specific Polychlorinated Biphenyl Patterns in Eggs of Aquatic Birds from the Lower Laguna Madre, Texas. *Environ. Toxicol. Chem.* 15(6):1003-1010.
- Mora, M. A., H. J. Auman, J. P. Ludwig, J. P. Giesy, D. A. Verbrugge, and M. E. Ludwig. 1993. Polychlorinated Biphenyls and Chlorinated Insecticides in Plasma of Caspian Terns: Relationships with Age,

Productivity, and Colony Site Tenacity in the Great Lakes. Arch. Environ. Contam. Toxicol. 24:320-331.

Morey, E. R., R. D. Rowe, and D. Waldman. 1995. Assessment of Damages to Anglers and Other Recreators from Injuries to the Upper Clark Fork River Basin. Prepared by Hagler Bailly Consulting, Inc. for the State of Montana Natural Resource Damage Litigation Program. October.

Morgan, M. D., and A. M. Beeton. 1978. Life History and Abundance of *Mysis relicta* in Lake Michigan. J. Fish. Res. Board Can. 35:1165-1170.

Morse, D. C., and A. Brouwer. 1995. Fetal, Neonatal, and Long-Term Alterations in Hepatic Retinoid Levels Following Maternal Polychlorinated Biphenyl Exposure in Rats. Toxicol. Appl. Pharmacol. 131:175-182.

Mortimer, C. H. 1965. Spectra of Long Surface Waves and Tides in Lake Michigan and at Green Bay, Wisconsin. Pub. No. 13, Great Lakes Research Division, The University of Michigan.

Mortimer, C. H. 1978. Water Movement, Mixing, and Transport in Green Bay, Lake Michigan. A Review with Speculations Prepared for the Green Bay Workshop: University of Wisconsin Sea Grant College Program, 14-16 September.

Mossman, M. J. 1988. Wisconsin Forster's Tern Recovery Plan. Bureau of Endangered Resources, Wisconsin Department of Natural Resources, Madison.

Moza, P., I. Weisberger, W. Klein, and F. Korte. 1974. Metabolism of 2,2'-Dichlorobiphenyl-14C in Two Plant-Water-Soil Systems. Bull. Environm. Contam. Toxicol. 12(5):541.

Muir, D. C. G., C. A. Ford, N. P. Grift, D. A. Metner, and W. L. Lockhart. 1990. Geographic Variation of Chlorinated Hydrocarbons in Burbot (*Lota lota*) from Remote Lakes and Rivers in Canada. Arch. Environ. Contam. Toxicol. 19:530-542.

Munawar, M., and I. F. Munawar. 1981. A General Comparison of the Taxonomic Composition and Size Analysis of the Phytoplankton of the North American Great Lakes. Verh. Internat. Verein. Limnol. 21:1695-1716.

Munkittrick, K. R., M. R. Van den Heuvel, D. A. Metner, W. L. Lockhart, and J. J. Stegeman. 1993. Interlaboratory Comparison and Optimization of Hepatic Microsomal Ethoxyresorufin o-Deethylase Activity in White Sucker (*Catostomus commersoni*) Exposed to Bleached Kraft Pulp Mill Effluent. Environ. Toxicol. Chem. 12:1273-1282.

Munkittrick, K. R., G. J. Van der Kraak, M. E. McMaster, C. B. Portt, M. R. Van den Heuvel, and M. R. Servos. 1994. Survey of Receiving-Water Environmental Impacts Associated with Discharges from Pulp Mills. 2. Gonad Size, Liver Size, Hepatic EROD Activity and Plasma Sex Steroid Levels in White Sucker. Environ. Toxicol. Chem. 13(7):1089-1101.

- Murai, K., K. Okamura, H. Tsuji, E. Kajiwara, H. Watanabe, K. Akagi, and M. Fujishima. 1987. Thyroid Function in "Yusho" Patients Exposed to Polychlorinated Biphenyls (PCB). *Environmental Res.* 44:179-187.
- Murk, A. J., A. T. C. Bosveld, M. Van den Berg, and A. Brouwer. 1994. Effects of Polyhalogenated Aromatic Hydrocarbons (PHAHs) on Biochemical Parameters in Chicks of the Common Tern (*terna hirundo*). *Aquat. Toxicol.* 30:91-115.
- Murk, A. J., A. Spenkelink, A. Brouwer, M. Van Kampen, A. T. C. Bosveld, J. Gradener, and M. Van den Berg. 1993. Effects of PCBs, PCDDs and PCDFs on Reproductive Success, and Morphological, Physiological, and Biochemical Parameters in Chicks of the Common Tern (*Sterna hirundo*). Part II: Laboratory Study. Tidal Waters Division, The Hague, The Netherlands Report DGW-93.011.
- Murphy, T. J. 1983. Atmospheric Inputs of Chlorinated Hydrocarbons to the Great Lakes, Pages 53-79 in *Toxic Contaminants in the Great Lakes*, Vol. 14 (J. O. Nriagu and M. S. Simmons, Eds.). John Wiley & Sons, New York.
- Murphy, T. J. 1995. Comment on "Seasonal Variations in Air-Water Exchange of Polychlorinated Biphenyls in Lake Superior" (Hornbuckle et al, 1994). *Environ. Sci. Technol.* 29:846-847.
- Murphy, T. J., and C. P. Rzeszutko. 1977. Precipitation Inputs of PCBs to Lake Michigan. *J. Great Lakes Res.* 3:305-312.
- Murphy, T. J., and C. W. Sweet. 1994. Contamination of Teflon Surfaces by PCBs in the Atmosphere. *Atmospheric Environment* 28:361-364.
- Nadeau, R. J., and R. A. Davis. 1976. Polychlorinated Biphenyls in the Hudson River (Hudson Falls-Fort Edward, New York State). *Bull. Environm. Contam. Toxicol.* 16(4):436-444.
- Nalepa, T. F. 1987. Long-Term Changes in the Macrobenthos of Southern Lake Michigan. *Can. J. Fish. Aquat. Sci.* 44:515-524.
- Nalepa, T. F. 1989. Estimates of Macroinvertebrate Biomass in Lake Michigan. *J. Great Lakes Res.* 15(3):437-443.
- Nalepa, T. F., D. J. Hartson, G. W. Gostenik, D. L. Fanslow, and G. A. Lang. 1996. Changes in the Freshwater Mussel Community of Lake St. Clair: From Unionidae to *Dreissena polymorpha* in Eight Years. *J. Great Lakes Res.* 22(2):354-369.
- Nalepa, T. F., and M. A. Quigley. 1983. Abundance and Biomass of the Meiobenthos in Nearshore Lake Michigan with Comparisons to the Macrobenthos. *J. Great Lakes Res.* 9(4):530-547.
- Nalepa, T. F., and A. Robertson. 1981. Screen Mesh Size Affects Estimates of Macro- and Meio-Benthos Abundance and Biomass in the Great Lakes. *Can. J. Fish. Aquat. Sci.* 38:1027-1034.

- NAS (National Academy of Sciences). 1979. Polychlorinated Biphenyls. United States National Academy of Sciences, National Research Council, Subcommittee on Zinc. Baltimore, MD: University Park Press.
- National Research Council. 1999. Hormonally Active Agents in the Environment. Committee on Hormonally Active Agents in the Environment, Board on Environmental Studies and Toxicology, Commission on Life Sciences; Prepublication Copy, National Academy Press.
- NAWQA News. 1995. National Water-Quality Assessment Program, Western Lake Michigan Drainage Basin. Newsletter, Vol. 1, No. 1, February 1995.
- NAWQA News. 1995. National Water-Quality Assessment Program, Western Lake Michigan Drainage Basin. Newsletter, No. 2, September 1995.
- NAWQA News. 1996. National Water-Quality Assessment Program, Western Lake Michigan Drainage Basin. Newsletter, No. 3, June 1996.
- NAWQA News. 1997. National Water-Quality Assessment Program, Western Lake Michigan Drainage Basin. Newsletter, No. 4, April 1997.
- Naylor, C. G., J. B. Williams, P. T. Varineau, D. A. Webb, and D. F. Sanders. 1996. Nonylphenol Ethoxylates in an Industrial River. Report on NPE Project, Fox River.
- NCI/DHEW. 1978. Bioassays of DDT, TDE, & p,p-DDE for Possible Carcinogenicity. Report #TR-131. DHEW Publication No. 78-1386 in BIOSIS.
- Ndayibagira, A., M.-J. Cloutier, P. D. Anderson, and P. A. Spear. 1995. Effects of 3,3',4,4'-Tetrachlorobiphenyl on the Dynamics of Vitamin A in Brook Trout (*Salvelinus fontinalis*) and Intestinal Retinoid Concentrations in Lake Sturgeon (*Acipenser fulvescens*). Can. J. Fish. Aquat. Sci. 52:512-520.
- Nebeker, A. V., M. A. Cairns, J. H. Gakstatter, K. W. Malueg, G. S. Schuytema, and D. F. Krawczyk. 1984. Biological Methods for Determining Toxicity of Contaminated Freshwater Sediments to Invertebrates. Environ. Toxicol. Chem. 3:617-630.
- Nebeker, A. V., F. A. Puglisi, and D. L. DeFoe. 1974. Effect of Polychlorinated Biphenyl Compounds on Survival and Reproduction of the Fathead Minnow and Flagfish. Trans. Amer. Fish. Soc. 103(3):562-568.
- Neidermeyer, W. J., and J. J. Hickey. 1976. Chronology of Organochlorine Compounds in Lake Michigan Fish, 1929-66. Pestic. Monit. J. 10:92-94.
- Nelson, A. A., and G. Woodard. 1949. Severe Adrenal Cortical Atrophy (Cytotoxic) and Hepatic Damage Produced in Dogs by Feeding 2,2-bis-(parachlorophenyl)-1,1-dichloroethane (DDD or TDE). Arch. Pathol. 48:387-394.
- Nelson, M. V. 1980. Startup and Operation of a High-Purity, Oxygen-Activated-Sludge Secondary Treatment Plant. Tappi 63(3):61-64.

Nestel, H., and J. Budd. 1975. Chronic Oral Exposure of Rainbow Trout (*Salmo gairdneri*) to a Polychlorinated Biphenyl (Aroclor 1254): Pathological Effects. *Can. J. Comp. Med.* 39:208-215.

Nettleship, D. N., and D. C. Duffy [eds.]. 1995. The Double-Crested Cormorant: Biology, Conservation and Management. Colonial Waterbirds Volume 18 (Special Publication 1). Colonial Waterbird Society, Rochester, Michigan.

Neuman, J., D. L. Pearl, P. J. Ewins, R. Black, D. V. Weseloh, M. Pike, and K. Karwowski. 1997. Spatial and Temporal Variation in the Diet of Double-Crested Cormorants (*Phalacrocorax auritus*) Breeding on the Lower Great Lakes in the Early 1990s. *Can. J. Fish. Aquat. Sci.* 54:1569-1584.

Neumann, J., and H. Blokpoel. 1997. The Terns of the Canadian Great Lakes. Great Lakes Fact Sheet, Environment Canada, 16 pp.

Newsted, J. L., J. P. Giesy, G. T. Ankley, D. E. Tillitt, R. A. Crawford, J. W. Gooch, P. D. Jones, and M. S. Denison. 1995. Development of Toxic Equivalency Factors for PCB Congeners and the Assessment of TCDD and PCB Mixtures in Rainbow Trout. *Environ. Toxicol. Chem.* 14(5):861-871.

NEWWT. 1993. Cost Effective Implementation of Water Resources Objectives in the Fox-Wolf Basin. Executive Summary for the Wisconsin Department of Natural Resources, July 6, 1993.

New York State Department of Health. 1994. 1994-1995 Health Advisories: Chemicals in Sportfish or Game. Prepared as a public pamphlet. 13 pp.

Nicholson, W. J., and J. A. Moore [eds.]. 1979. Annals of the New York Academy of Sciences: Health Effects of Halogenated Hydrocarbons, Vol. 320. The New York Academy of Sciences, New York.

Nielsen, L. A., and D. L. Johnson. 1983. Entanglement Gears, Pages 96-100 in *Fisheries Techniques* (,), . (Chapter 6. Excerpt 6.2.1 "Gill Nets.")

Niimi, A. J. 1983. Biological and Toxicological Effects of Environmental Contaminants in Fish and Their Eggs. *Can. J. Fish. Aquat. Sci.* 40:306-312.

Niimi, A. J., and B. G. Oliver. 1989. Distribution of Polychlorinated Biphenyl Congeners and Other Halocarbons in Whole Fish and Muscle among Lake Ontario Salmonids. *Environ. Sci. Technol.* 23(1):83-88.

Nikolaidis, E., B. Brunstrom, and L. Dencker. 1988. Effects of TCDD Congeners 3,3',4,4'-Tetrachlorobiphenyl and 3,3',4,4'-Tetrachloroazoxybenzene on Lymphoid Development in the Bursa Fabricus of the Chick Embryo. *Toxicol. Appl. Pharmacol.* 92:315-323.

Nimmo, D. R., D. J. Hansen, J. A. Couch, N. R. Cooley, R. R. Parrish, and J. I. Lowe. 1975. Toxicity of Aroclor 1254 and its Physiological Activity in Several Estuarine Organisms. *Arch. Environ. Contam. Toxicol.* 3(1):22-39.

Nisbet, I. C. T. 1989. Organochlorines, Reproductive Impairment and Declines in Bald Eagle (*Haliaeetus leucocephalus*) Populations: Mechanisms and Dose-Response Relationships, Pages in Raptors in the Modern World (B. U. Meyburg and R. D. Chancellor, Eds.). World Working Group on Birds of Prey, Berlin.

Nisbet, I. C. T., D. M. Fry, J. J. Hatch, and B. Lynn. 1996. Feminization of Male Common Tern Embryos Is Not Correlated to Specific PCB Congeners. Bull. Environm. Contam. Toxicol. 57:895-901.

Nisbet, I. C. T., and L. M. Reynolds. 1984. Organochlorine Residues in Common Terns and Associated Estuarine Organisms, Massachusetts, USA, 1971-81. Marine Environ. Res. 11:33-66.

Nisbet, I. C. T., and R. W. Risebrough. 1994. Relationship of DDE to Productivity of Bald Eagles *Haliaeetus leucocephalus* in California and Arizona, USA, Pages in Raptor Conservation Today (B. U. Meyburg and R. D. Chancellor, Eds.). WWGBP/The Pica Press, .

NOAA (1992): Recreational Chart 14916: Lake Winnebago and Lower Fox River. NOAA. . . .

NOAA. 1997. Scaling Compensatory Restoration Actions - Guidance Document for Natural Resource Damage Assessment Under the Oil Pollution Act of 1990. Public Review Draft; prepared by the Damage Assessment and Restoration Program, NOAA, May 5, 1997.

Noguchi, G. E., and R. J. Hesselberg. 1991. Parental Transfer of Organic Contaminants to Young-of-the-Year Spottail Shiners, *Notropis hudsonius*. Bull. Environm. Contam. Toxicol. 46:745-750.

Norback, D. H., and R. H. Weltman. 1985. Polychlorinated Biphenyl Induction of Hepatocellular Carcinoma in the Sprague-Dawley Rat. Environ. Health Perspec. 60:97-105.

Norstrom, R. J., D. J. Hallett, and R. A. Sonstegard. 1978. Coho Salmon (*Oncorhynchus kisutch*) and Herring Gulls (*Larus argentatus*) as Indicators of Organochlorine Contamination in Lake Ontario. J. Fish. Res. Board Can. 35:1401-1409.

Nosek, J. A., J. R. Sullivan, S. R. Craven, A. Gendron-Fitzpatrick, and R. E. Peterson. 1993. Embryotoxicity of 2,3,7,8-Tetrachloro-p-dioxin in the Ring-Necked Pheasant. Environ. Toxicol. Chem. 12:1215-1222.

Nriagu, J. O., and M. S. Simmons [eds.]. 1983. Toxic Contaminants in the Great Lakes, Vol. 14. John Wiley & Sons, New York, Chichester, Brisbane, Toronto, Singapore.

Oguri, K., M. Hatsumura, Y. Ishii, Y. Koga, N. Ariyoshi, and H. Yoshimura. 1993. Modification of the Gluconeogenesis Is Not Involved in the Co-Planar PCB Toxicity in Highly Sensitive Guinea Pigs. Chemosphere 27:2295-2303.

- Okamoto, A. R., D. Campeau, and L. O. Viani. 1997. Green Stuff: Spill Dollars at Work for Bay Wetlands. 1990-1997 Progress Report of the Shell Oil Spill Litigation Settlement Trustee Committee, Spring 1997.
- Olafsson, P. G., A. M. Bryan, B. Bush, and W. Stone. 1983. Snapping Turtles - A Biological Screen for PCBs. *Chemosphere* 12:1525-1532.
- Oliver, B. G., M. N. Charlton, and R. W. Durham. 1989. Distribution, Redistribution, and Geochronology of Polychlorinated Biphenyl Congeners and Other Chlorinated Hydrocarbons in Lake Ontario Sediments. *Environ. Sci. Technol.* 23:200-208.
- Oliver, B. G., and A. Niimi. 1988. Trophodynamic Analysis of Polychlorinated Biphenyl Congeners and Other Chlorinated Hydrocarbons in the Lake Ontario Ecosystem. *Environ. Sci. Technol.* 22:388-397.
- Olsson, A., B. Helander, A. Bignert, K. Litzen, L. Asplund, and A. Bergman. 1998. Is PCB Responsible for Embryo Toxicity in White-Tailed Sea Eagle (*Haliaeetus albicilla*) from the Swedish Baltic Coast? *Organohalogen Compounds* 39:17-20.
- Olsson, M., A. Bergman, S. Jensen, and J. E. Kihlstrom. 1991. Effects of Various Fractions of PCB on Mink Reproduction: Preliminary Results from Experimental Studies Within the Swedish Seal Project. In: *Proceedings of DIOXIN '91*, Vol 1, 393-396.
- Olsson, M., S. Jensen, and L. Reutergard. 1977. Seasonal Variation of PCB Levels in Fish - An Important Factor in Planning Aquatic Monitoring Programs. Report from Swedish Museum of Natural History and Swedish Environment Protection Board.
- Omer, V. V. St. 1970. Chronic and Acute Toxicity of the Chlorinated Hydrocarbon Insecticides in Mammals and Birds. *The Canadian Veterinary Journal* 11(11):215-226.
- Opaluch, J. J., S. K. Swallow, T. Weaver, C. W. Wessels, and D. Wichelns. 1993. Evaluating Impacts from Noxious Facilities: Including Public Preferences in Current Siting Mechanisms. *J. Environ. Econ. Manag.* 24:41-59.
- Oppewal, H., J. J. Louviere, and H. J. P. Timmermans. 1994. Modeling Hierarchical Conjoint Processes with Integrated Choice Experiments. *Journal of Marketing Research* 31:92.
- Opresko, D. M., B. E. Sample, and G. W. Suter. 1993. Toxicological Benchmarks for Wildlife. Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge. 65 pages.
- Paasivirta, J., and J. Koistinen. 1990. Environmental Significance of Organochlorines in Water Ecosystems. Relative Risk of Damages from Pulp Chlorobleaching Wastes. Pacific Paper Expo, Vancouver, BC, Canada. November 7-9.

Palace, V. P., and S. B. Brown. 1994. HPLC Determination of Tocopherol, Retinol, Dehydroretinol and Retinol Palmitate in Tissues of Lake Char (*Salvelinus namaycush*) Exposed to Coplanar 3,3',4,4',5-Pentachlorobiphenyl. *Environ. Toxicol. Chem.* 13(3):473-476.

Palace, V. P., J. F. Klaverkamp, W. L. Lockhart, D. A. Metner, D. C. G. Muir, and S. B. Brown. 1996. Mixed-Function Oxidase Enzyme Activity and Oxidative Stress in Lake Trout (*Salvelinus namaycush*) Exposed to 3,3',4,4',5-Pentachlorobiphenyl (PCB-126). *Environ. Toxicol. Chem.* 15(6):955-960.

Palermo, M. R. 1994. Placement Techniques for Capping Contaminated Sediments, Pages 1111-1121 in *Dredging '94 - Proceedings of the Second International Conference on Dredging and Dredged Material Placement*, Vol. 2 (,). American Society of Civil Engineers, .

Panshin, S. Y., and R. A. Hites. 1994. Atmospheric Concentrations of Polychlorinated Biphenyls at Bermuda. *Environ. Sci. Technol.* 28:2001-2007.

Panshin, S. Y., and R. A. Hites. 1994. Atmospheric Concentrations of Polychlorinated Biphenyls at Bloomington, Indiana. *Environ. Sci. Technol.* 28:2008-2013.

Parker, J. I. 1980. Predation by *Mysis relicta* on *Pontoporeia hoyi*: a Food Chain Link of Potential Importance in the Great Lakes. *J. Great Lakes Res.* 6:164-166.

Parkerton, T., J. Connolly, R. Thomann, and C. Uchrin. 1993. Do Aquatic Effects or Human Health End Points Govern the Development of Sediment-Quality Criteria for Nonionic Organic Chemicals? *Environ. Toxicol. Chem.* 12:507-523.

Parkinson, A., and S. Safe. 1987. Mammalian Biologic and Toxic Effects of PCBs, Pages in *Polychlorinated Biphenyls (PCBs): Mammalian and Environmental Toxicology* (S. Safe and O. Hutzinger, Eds.). Springer-Verlag., Berlin.

Parnell, J. F., D. G. Ainley, H. Blokpoel, B. Cain, T. W. Custer, J. L. Dusi, S. Kress, J. A. Kushlan, W. E. Southern, L. E. Stenzel, and B. C. Thompson. 1988. Colonial Waterbird Management in North America. *Colonial Waterbirds* 11(2):129-169.

Parrott, J. L., P. V. Hodson, M. R. Servos, S. L. Huestis, and D. G. Dixon. 1995. Relative Potency of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans for Inducing Mixed-Function Oxygenase Activity in Rainbow Trout. *Environ. Toxicol. Chem.* 14:1041-1050.

Patin, T. R. [ed.]. 1992. Management of Bottom Sediments Containing Toxic Substances: Proceedings of the 13th U.S./Japan Experts Meeting. U.S. Army Corps of Engineers, Water Resources Support Center, Fort Belvoir, VA.

Patin, T. R. [ed.]. 1992. Management of Bottom Sediments Containing Toxic Substances: Proceedings of the 12th U.S./Japan Experts Meeting. U.S. Army Corps of Engineers, Water Resources Support Center, Fort Belvoir, VA.

Patnode, K. A., and L. R. Curtis. 1994. 2,2',4,4',5,5'- and 3,3',4,4',5,5'-Hexachlorobiphenyl Alteration of Uterine Progesterone and Estrogen Receptors Coincides with Embryotoxicity in Mink (*Mustela vison*). *Toxicol. Appl. Pharmacol.* 127:9-18.

Patterson, D. 1984. Water Quality Modeling of the Lower Fox River for Wasteload Allocation Development: Cluster III - Hydrodynamic Modeling. Wisconsin Department of Natural Resources.

Patterson, D. 1986. Water Quality Modeling of the Lower Fox River for Wasteload Allocation Development, Cluster III - Water Quality Modeling. WDNR, 1985, PUBL-WR-127 86.

Patterson, D., X. Zhang, P. Jopke, and J. Steuer. 1993. The Green Bay Mass Balance Project, Historical Perspective and Future Considerations. Presented at the 6th International Symposium of the International Association for Sediment-Water Science, University of California-Santa Barbara (December 5-8), Santa Barbara, California.

Patterson, D. J., X. Zhang, P. Jopke, and J. J. Steuer. 1994. The Green Bay Mass Balance Project, Historical Perspective and Future Projections. WDNR.

Peach, J. D. 1986. Water Resources: Legislation Needed to Extend the Life of Confined Disposal Facilities. GAO Report to the Honorable Les Aspin, House of Representatives. GAO/RCED-86-145.

Peakall, D. 1993. Animal Biomarkers as Pollution Indicators, *Ecotoxicology Series* 1 ed. Chapman and Hall, London, England.

Peakall, D., R. Allan, V. Cairns, J. Cooley, G. Fox, A. Gilman, D. Piekarz, J. Van Oostdam, D. Villeneuve, and M. Whittle. 1991. Toxic Chemicals in the Great Lakes and Associated Effects - Synopsis. Environment Canada, Fisheries and Oceans Canada, Health and Welfare Canada, Toronto, Burlington, Ottawa.

Peakall, D. B. 1975. PCBs and Their Environmental Effects. *CRC Critical Reviews in Environmental Control* 5(4):469-510.

Peakall, D. B. 1988. Known Effects of Pollutants on Fish-Eating Birds in the Great Lakes of North America, Pages 39-54 in (,), .

Peakall, D. B., and J. L. Lincer. 1970. Polychlorinated Biphenyls: Another Long-life Widespread Chemical in the Environment. *BioScience* 20(17):958-964.

Peakall, D. B., and J. L. Lincer. 1996. Do PCBs Cause Eggshell Thinning? *Environ. Pollut.* 91:127-129.

Peakall, D. B., J. L. Lincer, and S. E. Bloom. 1972. Embryonic Mortality and Chromosomal Alterations Caused by Aroclor 1254 in Ring Doves. *Environ. Health Perspec.* 1:103-104.

Peakall, D. B., D. S. Miller, and W. B. Kinter. 1975. Blood Calcium Levels and the Mechanism of DDE-induced Eggshell Thinning. *Environ. Pollut.* 9:289-294.

Peakall, D. B., and M. L. Peakall. 1973. Effect of a Polychlorinated Biphenyl on the Reproduction of Artificially and Naturally Incubated Dove Eggs. *J. Appl. Ecol.* 10:863-867.

Pearson, R. F., K. C. Hornbuckle, S. J. Eisenreich, and D. L. Swackhamer. 1996. PCBs in Lake Michigan Water Revisited. *Environ. Sci. Technol.* 30:1429-1436.

Pearson, R. F., D. L. Swackhamer, S. J. Eisenreich, and D. T. Long. 1998. Atmospheric Inputs of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans to the Great Lakes: Compositional Comparison of PCDD and PCDF in Sediments. *J. Great Lakes Res.* 24(1):65-82.

Peden-Adams, M., K. Alonzo, C. Godard, S. Skipper, W. Mashburn, J. Hoover, C. Charbonneau, D. Henshel, and R. Dickerson. 1998. Effects of Environmentally Relevant Concentrations of 2,3,7,8-TCDD on Domestic Chicken Immune Function and CYP450 Activity: F1 Generation and Egg Injection Studies. *Chemosphere* 37:1923-1939.

Pekarik, C., D. V. Weseloh, G. C. Barrett, M. Simon, C. A. Bishop, and K. E. Pettit. 1998. An Atlas of Contaminants in Eggs of Fish-Eating Colonial Birds of the Great Lakes (1993-1997). Vol. 1. Accounts by Location. Environment Canada, Canadian Wildlife Service. Technical Report Series No. 321.

Pelissero, C., G. Flouriot, J. L. Foucher, B. Bennetau, J. Dunogues, F. L. Gac, and J. P. Sumpster. 1993. Vitellogenin Synthesis in Cultured Hepatocytes: An In Vitro Test for the Estrogenic Potency of Chemicals. *J. Steroid Biochem. Molec. Biol.* 44(3):263-272.

Pelletier, J.-P., R. Santiago, and J. Lajeunesse. 1994. Evolution of Cable Arm Clamshell Bucket, Pages 1050-1060 in *Dredging '94 - Proceedings of the Second International Conference on Dredging and Dredged Material Placement*, Vol. 2 (,). American Society of Civil Engineers, .

Pernie, G. L., D. Scavia, M. L. Pace, and H. J. Carrick. 1990. Micrograzer Impact and Substrate Limitation of Bacterioplankton in Lake Michigan. *Can. J. Fish. Aquat. Sci.* 47:1836-1841.

Perrson, L., C. Lukas, H. J. Harris, J. Christies, L. Meyers, J. Sullivan, and V. Harris. 1987. Remedial Action Plan for the Lower Green Bay and Lower Fox River Area of Concern. Green Bay: Wisconsin Department of Natural Resources and the University of Wisconsin Sea Grant Institute.

Persson, L., V. Harris, C. Lukas, J. Christie, H. J. Harris, L. Meyers, J. Sullivan, P. Allen, and R. Baba. 1988. Lower Green Bay Remedial Action

Plan: For the Lower Fox River and Lower Green Bay Area of Concern. WDNR PUBL-WR-175-87 REV 88, February.

Peterman, P. H. 1988. Analyses of PCDF, PCDD, and Non-O-PCBs by GC/MS. Final Laboratory Report FY-88-30-5B, Work Unit 889.06, Task 7, National Fisheries Contaminant Research Center, to Dr. Mike Mac.

Peterman, P. H., and J. J. Delfino. 1990. Identification of Isopropylbiphenyl, Alkyl Diphenylmethanes, Diisopropylnaphthalene, Linear Alkyl Benzenes and Other Polychlorinated Biphenyl Replacement Compounds in Effluents, Sediments and Fish in the Fox River System, Wisconsin. Biomedical and Environmental Mass Spectrometry 19:755-770.

Peterman, P. H., J. J. Delfino, D. J. Dube, T. A. Gibson, and F. J. Priznar. 1980. Chloro-organic Compounds in the Lower Fox River, Wisconsin, Pages 16 in "Hydrocarbons and Halogenated Hydrocarbons in the Aquatic Environment" (B. K. Afghan and D. Mackay, Eds.). Plenum Publishing Corporation, .

Peters, C. A. 1995. National Water Quality Assessment (NAWQA) Program: Scope of the Western Lake Michigan Drainages NAWQA Study-Unit Investigation. Abstract: American Water Resources Association, Wisconsin Section annual meeting.

Peters, C. A. 1995. National Water Quality Assessment Program, Western Lake Michigan Drainages - Summaries of Liaison Committee Meeting. Green Bay, Wisconsin, March 28-29, 1995; U.S. Geological Survey Open-File Report 95-163.

Peters, C. A. 1997. Environmental Setting and Implications for Water Quality in the Western Lake Michigan Drainages. U.S.D. Geological Survey, Water-Resources Investigations Report 97-4196, National Water Quality Assessment Program.

Peters, C. A., D. M. Robertson, D. A. Saad, D. J. Sullivan, B. C. Scudder, F. A. Fitzpatrick, K. D. Richards, J. S. Stewart, S. A. Fitzgerald, and B. N. Lenz. 1998. Water Quality in the Western Lake Michigan Drainages, Wisconsin and Michigan, 1992-1995. U.S. Geological Survey Circular 1156.

Peters, C. A., and M. C. Yurewicz. 1997. Partnerships in Science and Education: Examples from the National Water-Quality Assessment Program. Abstract: American Water Resources Association (AWRA), Water Resources Education, Training, and Practice: Opportunities for the Next Century, June 29-July 3, 1997, Keystone, Colorado.

Petersen, R. E., H. M. Theobald, and G. L. Kimmel. 1993. Development and Reproductive Toxicity of Dioxins and Related Compounds: Cross-Species Comparisons. Critical Reviews in Toxicology 23:283-335.

Peterson, D. E., M. S. Kanarek, M. A. Kuykendall, J. M. Diedrich, H. A. Anderson, P. L. Remington, and T. B. Sheffy. 1994. Fish Consumption Patterns and Blood Mercury Levels in Wisconsin Chippewa Indians. Archives of Environmental Health 49(1):53-58.

Peterson, E. M., and F. A. Fitzpatrick. 1996. Variations Among Geomorphic Characteristics in Agricultural Benchmark Streams in Eastern Wisconsin and Effects on Available Aquatic Habitat. Abstract: American Water Resources Association, Wisconsin Section annual meeting.

Peterson, R. E., H. M. Theobald, and G. L. Kimmel. 1993. Developmental and Reproductive Toxicity of Dioxins and Related Compounds: Cross-Species Comparisons. *Critical Reviews in Toxicology* 23(3):283-335.

Pettit, K. E., C. A. Bishop, D. V. Weseloh, and R. J. Norstrom. 1994. An Atlas of Contaminants in the Eggs of Fish-Eating Colonial Birds of the Great Lakes (1989-1992) Volume I, Accounts by Location. Technical Report Series No. 193, Canadian Wildlife Service, Ecosystems Health Branch, Ontario Region. 319 pages.

Pettit, K. E., C. A. Bishop, D. V. Weseloh, and R. J. Norstrom. 1994. An Atlas of Contaminants in the Eggs of Fish-Eating Colonial Birds of the Great Lakes (1989-1992) Volume 2, Accounts by Chemical. Technical Report Series No. 194, Canadian Wildlife Service, Environmental Conservation Branch, Ontario Region.

Phillips, D. L., J. L. Pirkle, V. W. Burse, J. T. J. Bernert, L. O. Henderson, and L. L. Needham. 1989. Chlorinated Hydrocarbon Levels in Human Serum: Effects of Fasting and Feeding. *Arch. Environ. Contam. Toxicol.* 18:495-500.

Phillips, L. J., and G. F. Birchard. 1991. Regional Variations in Human Toxics Exposure in the USA: An Analysis Based on the National Human Adipose Tissue Survey. *Arch. Environ. Contam. Toxicol.* 21:159-168.

Pignatello, J. J., and G. Chapa. 1994. Degradation of PCBs by Ferric Ion, Hydrogen Peroxide and UV Light. *Environ. Toxicol. Chem.* 13(3):423-427.

Pirrone, N., G. J. Keeler, and T. M. Holsen. 1995. Dry Deposition of Semivolatile Organic Compounds to Lake Michigan. *Environ. Sci. Technol.* 29:2123-2132.

Platonow, N. S., and H. S. Funnell. 1971. Anti-Androgenic-Like Effect of Polychlorinated Biphenyls in Cockerels. *Veterin. Record* 83:109-110.

Platonow, N. S., and L. H. Karstad. 1973. Dietary Effects of Polychlorinated Biphenyls on Mink. *Can. J. Comp. Med.* 37:391-400.

Platonow, N. S., and B. S. Reinhart. 1973. The Effects of Polychlorinated Biphenyls (Aroclor 1254) on Chicken Egg Production, Fertility and Hatchability. *Can. J. Comp. Med.* 37:341-346.

PLUARG. 1978. Environmental Management Strategy for the Great Lakes System. Final Report to the International Joint Commission from the International Reference Group on Great Lakes Pollution from Land Use Activities, PLUARG, July 1978, Windsor, Ontario.

Postupalsky, S. 1971. Toxic Chemicals and Declining Bald Eagle and Cormorants in Ontario. Canadian Wildlife Service, Petic. Sec., MS Rep. 20. 70pp.

Postupalsky, S. 1985. The Bald Eagles Return. Natural History 87:62-63.

Powell, D. C. 1995. Egg Injection Studies to Determine the Effects of Polyhalogenated Environmental Contaminants on Avian Species. MS Thesis, Michigan State University.

Powell, D. C., R. J. Aulerich, J. C. Meadows, D. E. Tillitt, J. P. Giesy, K. L. Stromborg, and S. J. Bursian. 1996. Effects of 3,3',4,4',5-Pentachlorobiphenyl (PCB 126) and 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Injected into the Yolks of Chicken (*Gallus domesticus*) Eggs Prior to Incubation. Arch. Environ. Contam. Toxicol. 31:404-409.

Powell, D. C., R. J. Aulerich, J. C. Meadows, D. E. Tillitt, M. E. Kelly, K. L. Stromborg, M. J. Melancon, S. D. Fitzgerald, and S. J. Bursian. 1998. Effects of 3,3',4,4',5-Pentachlorobiphenyl and 2,3,7,8-Tetrachlorodibenzo-p-dioxin Injected into the Yolks of Double-Crested Cormorant (*Phalacrocorax auritus*) Eggs Prior to Incubation. Environ. Toxicol. Chem. 17(10):2035-2040.

Powell, D. C., R. J. Aulerich, J. C. Meadows, D. E. Tillitt, J. F. Powell, J. C. Restum, K. L. Stromborg, J. P. Giesy, and S. J. Bursian. 1997. Effects of 3,3',4,4',5-Pentachlorobiphenyl (PCB 126), 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD), or an Extract Derived from Field-Collected Cormorant Eggs Injected into Double-Crested Cormorant (*Phalacrocorax auritus*) Eggs. Environ. Toxicol. Chem. 16(7):1450-1455.

Powell, D. C., R. J. Aulerich, J. C. Meadows, D. E. Tillitt, K. L. Stromborg, T. J. Kubiak, J. P. Giesy, and S. J. Bursian. 1997. Organochlorine Contaminants in Double-Crested Cormorants from Green Bay, Wisconsin: II. Effects of an Extract Derived from Cormorant Eggs on the Chicken Embryo. Arch. Environ. Contam. Toxicol. 32:316-322.

Powell, D. C., R. J. Aulerich, A. C. Napolitano, K. L. Stromborg, and S. J. Bursian. 1996. Incubation of Double-Crested Cormorant Eggs (*Phalacrocorax auritus*). Colonial Waterbirds 19(2):256-259.

Powell, D. C., R. J. Aulerich, K. L. Stromborg, and S. J. Bursian. 1996. Effects of 3,3',4,4'-Tetrachlorobiphenyl, 2,3,3',4,4'-Pentachlorobiphenyl, and 3,3',4,4',5-Pentachlorobiphenyl on the Developing Chicken Embryo When Injected Prior to Incubation. Journal of Toxicology and Environmental Health 49:319-338.

Praeger, T. H., S. D. Messur, and R. P. DiFiore. 1996. Remediation of PCB-Containing Sediments Using Surface Water Diversion "Dry Excavation": A Case Study. Water Science and Technology 33(6):239-245.

Prest, H. F., B. J. Richardson, L. A. Jacobson, J. Vedder, and M. Martin. 1995. Monitoring Organochlorines with Semi-Permeable Membrane Devices (SPMDs) and Mussels (*Mytilus edulis*) in Corio Bay, Victoria, Australia. Marine Pollution Bulletin 30(8):543-554.

Preston, S. D., V. J. Bierman, and S. E. Silliman. 1989. An Evaluation of Methods for the Estimation of Tributary Mass Loads. *Water Resources Research* 25:1379-1389.

Prestt, I., D. J. Jefferies, and N. W. Moore. 1970. Polychlorinated Biphenyls in Wild Birds in Britain and Their Avian Toxicity. *Environ. Pollut.* 1:3-26.

Prey, J., and T. Lohr. 1988. The Wisconsin Water Quality Resources Management Plan. Report No. 5, Economic Overview of Wisconsin Water Resources, May, 1988, Bureau of Water Resources Management, Department of Natural Resources, P.O. Box 7921, Madison, Wisconsin 53707. PUBL-WR-182-88.

Proulx, G., D. V. C. Weseloh, J. E. Elliott, S. Teeple, P. A. M. Anghern, and P. Mineau. 1987. Organochlorine and PCB Residues in Lake Erie Mink Populations. *Bull. Environm. Contam. Toxicol.* 39:939-944.

QEA. 1999. PCBs in the Upper Hudson River. Prepared for General Electric, Albany, New York, by Quantitative Environmental Analysis, LLC, May 1999.

Quigley, M. A. 1988. Gut Fullness of the Deposit-Feeding Amphipod, *Pontoporeia hoyi*, in Southeastern Lake Michigan. *J. Great Lakes Res.* 14(2):178-187.

Raghunathan, R. 1992. Scenario Results from GBTOX -- Base Run Constant 1989 Loading, No Action (4 Cases), 100 Year Event, Upstream Remediation, DePere Loads Reduced 25, 50, 75 and 100%, Flow Clipping, Phosphorus Load Reductions, All with 2 Boundary Condition Assumptions. Memorandum Report, SUNY Buffalo/LTI, October 1992, approx 50 pp.

Raghunathan, R. K. 1990. Development of a Dynamic Mass Balance Model for PCBs in Green Bay. MS Thesis, Department of Civil and Environmental Engineering, Clarkson University, Potsdam, New York.

Rakoczy, G. P. 1992. Technical Report: Sportfishing Catch and Effort from the Michigan Waters of Lakes Michigan, Huron, Erie, and Superior, April 1, 1990 - March 31, 1991. Prepared for the Michigan DNR, Fisheries Division. Number 92-8. June 24.

Rakoczy, G. P., and R. D. Rogers. 1987. Technical Report: Sportfishing Catch and Effort from the Michigan Waters of Lakes Michigan, Huron, Erie, and Superior, and Their Important Tributary Streams, April 1, 1986 - March 31, 1987. Prepared for the Michigan DNR, Fisheries Division. Number 87-6a. November 12.

Rakoczy, G. P., and R. D. Rogers. 1987. Technical Report: Sportfishing Catch and Effort from the Michigan Waters of Lakes Michigan, Huron, Erie, and Superior, and Their Important Tributary Streams, April 1, 1986 - March 31, 1987. Appendices. Prepared for the Michigan DNR, Fisheries Division. Number 87-6b. November 12.

Rakoczy, G. P., and R. D. Rogers. 1988. Technical Report: Sportfishing Catch and Effort from the Michigan Waters of Lakes Michigan, Huron, Erie and Superior, and Their Important Tributary Streams, April 1, 1987 - March 31, 1988. Appendices. Prepared for the Michigan DNR, Fisheries Division. Number 88-9b. October 7.

Rakoczy, G. P., and R. D. Rogers. 1991. Technical Report: Sportfishing Catch and Effort from the Michigan Waters of Lakes Michigan, Huron, Erie, and Superior, and Their Important Tributary Streams, April 1, 1989 - March 31, 1990. Appendices. Prepared for the Michigan DNR, Fisheries Division. Number 91-10a. July 23.

Rakoczy, G. P., and R. D. Rogers. 1991. Technical Report: Sportfishing Catch and Effort from the Michigan Waters of Lakes Michigan, Huron, Erie and Superior, and Their Important Tributary Streams, April 1, 1989 - March 31, 1990. Appendices. Prepared for the Michigan DNR, Fisheries Division. Number 91-10b. July 23.

Ram, R. G., and J. W. Gillett. 1993. An Aquatic/Terrestrial Foodweb Model for Polychlorinated Biphenyls (PCBs), Pages 192-212 in Environmental Toxicology and Risk Assessment (W. G. Landis, J. S. Hughes, and M. A. Lewis, Eds.). American Society for Testing and Materials, Philadelphia.

Ramaswami, P., M. Cardenas, and W. Lick. 1995. The Transport and Fate of Sediments in the Lower Fox River Between Little Kaukauna and DePere Locks. UCSB, November 1995, approx 100 pp.

Rand, P. S., B. F. Lantry, R. O'Gorman, R. W. Owens, and D. J. Stewart. 1994. Energy Density and Size of Pelagic Prey Fishes in Lake Ontario, 1978-1990: Implications for Salmonine Energetics. Trans. Amer. Fish. Soc. 123:519-534.

Randall, A., and J. Stoll. 1983. Existence Value in a Total Valuation Framework, Pages 265-274 in Managing Air Quality and Scenic Resources at National Parks and Wilderness Areas (R. Rowe and L. Chestnut, Eds.). Westview Press, Boulder, CO.

Rang, S. 1994. The State of Toxic Contaminants in the Great Lakes. Draft #4. Prepared for the State of the Lakes Conference. March. 40 pp.

Rasmussen, J. B., D. J. Rowan, D. R. S. Lean, and J. H. Carey. 1990. Food Chain Structure in Ontario Lakes Determines PCB Levels in Lake Trout (*Salvelinus namaycush*) and Other Pelagic Fish. Can. J. Aquat. Sci. 47:2030-2038.

Ratcliffe, D. A. 1967. Decrease in Eggshell Weight in Certain Birds of Prey. Nature 215:208-210.

Rattner, B. A., J. S. Hatfield, M. J. Melancon, T. W. Custer, and D. E. Tillitt. 1994. Relation Among Cytochrome P450, AH-Active PCB Congeners and Dioxin Equivalents in Pipping Black-Crowned Night Heron Embryos. Environ. Toxicol. Chem. 13(11):1805-1812.

Rattner, B. A., D. J. Hoffman, and C. M. Marn. 1989. Use of Mixed-Function Oxygenases to Monitor Contaminant Exposure in Wildlife. *Environ. Toxicol. Chem.* 8:1093-1102.

Rattner, B. A., M. J. Melancon, T. W. Custer, R. L. Hothem, K. A. King, L. J. LeCaptain, J. W. Spann, B. R. Woodin, and J. J. Stegeman. 1993. Biomonitoring Environmental Contamination with Pipping Black-Crowned Night Heron Embryos: Induction of Cytochrome P450. *Environ. Toxicol. Chem.* 12:1719-1732.

Rattray, K. J. 1997. The Nesting Success and PCB Burdens of Yellow-Headed Blackbirds Found in Diked Marshes Along Green Bay, Lake Michigan. Masters Thesis, University of Wisconsin, Green Bay.

Redman, S. 1993. Preliminary Evaluation of Mercury in the Sediments of the Fox River and Lower Green Bay. Wisconsin Department of Natural Resources, Planning and Policy Section, Bureau of Water Resources Management, Madison, Wisconsin.

Reinharz, E., and M. Fischel. 1993. Quality Assurance/Quality Control and Data Quality Objectives in Natural Resource Damage Assessment. *Baylor Law Review* 45(2), Spring 1993:243-256.

Remedial Action Plan. 1994. Green Bay Habitat Restoration Workshop Summary. Holiday Inn City Center - Green Bay, Wisconsin, April 13-14, 1994. Sponsored by the Lower Green Bay and Fox River Remedial Action Plan.

Remediation Technologies, I. 1998. Baseline Human Health and Ecological Risk Assessment: Lower Fox River, Wisconsin. Prepared for Wisconsin Department of Natural Resources, Madison, WI. RETEC Project No.: 3-3584-415, August 27, 1998, Seattle, WA.

Renner, R. 1998. Calculating the Cost of Natural Resource Damage. *Environ. Sci. Technol.* Feb. 1, 1998:86A-90A.

Restum, J. C., R. J. Aulerich, W. Helferich, J. P. Giesy, and S. J. Bursian. 1994. A Multi-Generational Study of the Effects of Consumption of Great Lakes Fish on Mink Reproduction. *Toxicologist* 14:415.

Rheaume, S. J., B. N. Lenz, and B. C. Scudder. 1996. Benthic Invertebrates of Benchmark Streams in Agricultural Areas of Eastern Wisconsin - Western Lake Michigan Drainages. Abstract, USGS Water-Resources Investigations Report 96-4038-C.

Rheaume, S. J., J. S. Stewart, and B. N. Lenz. 1996. Environmental Setting of Benchmark Streams in Agricultural Areas of Eastern Wisconsin. Abstract, USGS Water-Resources Investigations Report 96-4038-A.

Rhee, G. Y., and R. C. Sokol. 1994. The Fate of Polychlorinated Biphenyls in Aquatic Sediments. *Great Lakes Research Review* 1(1):23-28.

- Rice, C. D., and D. Schlenk. 1995. Immune Function and Cytochrome P4501A Activity after Acute Exposure to 3,3',4,4',5-Pentachlorobiphenyl (PCB 126) in Channel Catfish. *Journal of Aquatic Animal Health* 7:195-204.
- Rice, C. P., and P. O'Keefe. 1995. Sources, Pathways and Effects of PCBs, Dioxins, and Dibenzofurans, Pages 424-468 in *Handbook of Ecotoxicology* (D. J. Hoffman, B. A. Rattner, G. A. Burton, and J. Cairns, Eds.). Lewis Publishers, Ann Arbor.
- Rice, J. A., L. B. Crowder, and F. P. Binkowski. 1985. Evaluating Otolith Analysis for Bloater *Coregonus hoyi*: Do Otoliths Ring True? *Trans. Amer. Fish. Soc.* 114:532-539.
- Rice, J. A., L. B. Crowder, and F. P. Binkowski. 1987. Evaluating Potential Sources of Mortality for Larval Bloater (*Coregonus hoyi*): Starvation and Vulnerability to Predation. *Can. J. Fish. Aquat. Sci.* 44:467-472.
- Richards, K. D., D. J. Sullivan, and J. S. Stewart. 1998. Surface-Water Quality at Fixed Sites in the Western Lake Michigan Drainages, Wisconsin and Michigan, and the Effects of Natural and Human Factors, 1993-95. U.S. Geological Survey, Water-Resources Investigations Report 97-4208.
- Richardson, W., D. Endicott, and D. Patterson. 1993. Addendum to the Green Bay/Fox River Mass Balance Study Preliminary Management Summary. USEPA, prepared for the Green Bay Workshop, Green Bay, WI, May 25, 16 pp.
- Risebrough, R. W., P. Rieche, D. B. Peakall, S. G. Herman, and M. N. Kirven. 1968. Polychlorinated Biphenyls in the Global Ecosystem. *Nature (Lond.)* 220:1098-1102.
- Robbins, S. D. 1991. Wisconsin Birdlife. Population and Distribution Past and Present. The University of Wisconsin Press, Madison.
- Roberts, J. R., D. W. Rodgers, J. R. Bailey, and M. A. Rorke. 1978. Polychlorinated Biphenyls: Biological Criteria for an Assessment of their Effects on Environmental Quality. NRCC Report No. 16077. Canadian National Research Council, Ottawa, Canada. 172 pp.
- Robertson, D. M. 1992. National Water-Quality Assessment: An Integrative Approach to Assess Water Quality in Western Lake Michigan Drainage Basins. Abstract: American Water Resources Association, Wisconsin Section, Annual Meeting, LaCrosse, Wisconsin. March 1992.
- Robertson, D. M. 1994. Influence of Surficial Soils, Land Use, and Stream Gradient on Suspended Sediment and Total Phosphorus Loads in Streams Entering the Great Lakes. Abstract: American Geophysical Union Annual Meeting, San Francisco, California. December 1994.
- Robertson, D. M. 1994. Nutrient Loss from Forest and Agricultural Areas of Wisconsin and Upper Michigan. Abstract: American Water Resources Association, Wisconsin Section Annual Meeting, Wisconsin Dells, Wisconsin. March 1994.

Robertson, D. M. 1995. Regionalized Estimates of Total Phosphorus and Suspended-Sediment Loads to Lakes Michigan and Superior. Abstract: International Association of Great Lakes Research, Lansing, Michigan. May 1995.

Robertson, D. M. 1995. Inputs of Phosphorus and Suspended Sediment to Lake Michigan and the United States Part of Lake Superior. Abstract: American Water Resources Association, Wisconsin Section Annual Meeting, Appleton, Wisconsin. March 1995.

Robertson, D. M. 1996. Use of Frequency-Volume Analyses to Estimate Regionalized Yields and Loads of Sediment, Phosphorus, and Polychlorinated Biphenyls to Lakes Michigan and Superior. U.S. Geological Survey, Water-Resources Investigations Report 96-4092, Prepared in cooperation with the U.S. EPA, Madison, Wisconsin.

Robertson, D. M. 1996. Influence of Land Use, Surficial Deposits, and Bedrock on the Concentration and Load of Nutrients and Suspended Sediment in Tributaries to Lake Michigan. Abstract: American Water Resources Association, Wisconsin Section annual meeting.

Robertson, D. M. 1998. Evaluation of the Surface-Water Sampling Design in the Western Lake Michigan Drainages in Relation to Environmental Factors Affecting Water Quality at Base Flow. U.S. Geological Survey, Water Resources Investigations Report 98-4072.

Robertson, D. M., and D. A. Saad. 1996. Water-Quality Assessment of the Western Lake Michigan Drainages - Analysis of Available Information on Nutrients and Suspended Sediment, Water Years 1971-90. USGS, Water-Resources Investigations Report 96-4012, National Water-Quality Assessment Program, Madison, WI.

Robertson, L. W., E. M. Silberhorn, H. P. Glauert, M. Schwarz, and A. Buchmann. 1991. Do Structure-Activity Relationships for the Acute Toxicity of PCBs and PBBs Also Apply for Induction of Hepatocellular Carcinoma? Environ. Toxicol. Chem. 10:715-726.

Rockwell, D. C., D. K. Salisbury, and B. M. Lesht. 1989. Water Quality in the Middle Great Lakes: Results of the 1985 U.S. EPA Survey of Lakes Erie, Huron, and Michigan. USEPA, GLNPO, EPA-905/6/89-001, GLNPO Report No. 4, April 1989.

Rodgers, P. W., T. M. Heidtke, V. J. J. Bierman, D. W. Dilks, and K. M. Feist. 1993. Great Lakes Environmental Assessment. Prepared for The National Council of the Paper Industry for Air and Stream Improvement, by LTI, Limno-Tech, Inc.

Rodgers, P. W., and W. R. Swain. 1983. Analysis of Polychlorinated Biphenyl (PCB) Loadings in Lake Michigan. J. Great Lakes Res. 9(4):548-558.

Rodman, L. E., S. I. Shedlofsky, A. Manschreck, M. Puttman, A. T. Swim, and L. W. Robertson. 1991. Differential Potency of Atropisomers of Polychlorinated Biphenyls on Cytochrome P450 Induction and Uroporphyrin

Accumulation in the Chick Embryo Hepatocyte Culture. *Biochemical Pharmacology* 41:915-922.

Ross, P. S., and D. V. C. Weseloh. 1988. A Study of the Development, Occurrence and Severity of Deformities in Double-crested Cormorants on the Canadian Great Lakes and Lake Winnipegosis, 1988. Prepared by the Canadian Wildlife Service (Ontario Region) at the Canada Centre for Inland Waters.

Ross, R. M., and J. H. Johnson. 1995. Seasonal and Annual Changes in the Diet of Double-Crested Cormorants: Implications for Lake Ontario's Fishery. *Great Lakes Research Review* 2(1):1-9.

Rossi, R., M. Ravera, G. Repetti, and L. Santi. 1977. Long-term Administration of DDT or Phenobarbital-Na in Wistar Rats. *Int. J. Cancer* 19:179-185.

Rottiers, D. V., and R. A. Bergstedt. 1981. Swimming Performance of Young Lake Trout After Chronic Exposure to PCB's and DDE. *Technical Papers of the U.S. Fish and Wildlife Service* 105:23-28.

Rottiers, D. V., and R. M. Tucker. 1982. Proximate Composition and Caloric Content of 8 Lake Michigan Fishes. *USFWS Technical Paper Number* 108.

Rousseaux, C. G., A. Branchaud, and P. A. Spear. 1995. Evaluation of Liver Histopathology and EROD Activity in St. Lawrence Lake Sturgeon (*Acipenser fulvescens*) in Comparison with a Reference Population. *Environ. Toxicol. Chem.* 14(5):843-849.

Rowan, D. J., and J. B. Rasmussen. 1992. Why Don't Great Lakes Fish Reflect Environmental Concentrations of Organic Contaminants? - An Analysis of Between-Lake Variability in the Ecological Partitioning of PCBs and DDT. *J. Great Lakes Res.* 18:724-741.

Rowe, R. D., E. R. Morey, and W. D. Schulze. 1995. Compensable Natural Resource Damage Determination for the Upper Clark Fork River NPL Sites. Prepared by Hagler Bailly Consulting, Inc. for the State of Montana Natural Resource Damage Litigation Program. October.

Rowe, R. D., W. D. Schulze, and B. Hurd. 1986. A Survey of Colorado Residents' Attitudes About Cleaning Up Hazardous Waste-Site Problems in Colorado. Prepared by Energy and Resource Consultants, Inc. Report to the State of Colorado Attorney General's Office, Denver.

Rowe, R. D., W. D. Schulze, B. Hurd, and D. Orr. 1985. Economic Assessment of Damage Related to the Eagle Mine Facility. Prepared by Energy and Resource Consultants for Engineering-Science, Inc., Denver, CO.

Rowe, R. D., W. D. Schulze, W. D. Shaw, D. Shenk, and L. G. Chestnut. 1991. Contingent Valuation of Natural Resource Damage Due to the Nestucca Oil Spill. Prepared by RCG/Hagler Bailly, Inc. for the Dept. of Wildlife,

State of Washington; British Columbia Ministry of the Environment, British Columbia; and Environment Canada, British Columbia. June.

Rowe, R. D., W. D. Shaw, and W. D. Schulze. 1992. Nestucca Oil Spill, Pages 527-554 in Natural Resource Damages: Law and Economics (K. M. Ward and J. W. Duffield, Eds.). John Wiley & Sons, Inc., New York.

Rozemeijer, M. J. C., J. P. Boon, C. Swennen, A. Brouwer, and A. J. Murk. 1995. Dioxin Type and Mixed Type Induction of the Cytochrom p-450 System of Common Eider Ducklings (*Somateria mollissima*) by PCBs: With Indications for Biotransformation. *Aquat. Toxicol.* 32:93-113.

Roznik, F., J. Raber, D. Olson, L. Lintereur, L. Kernen, J. Korotev, and R. Cook. 1979. Green Bay West Shores Master Plan Concept Element. WDNR Approved July 26, 1979.

Rudzitis, G., and H. E. Johansen. 1991. How Important Is Wilderness? Results from a United States Survey. *Environmental Management* 15(2):227-233.

Ruelle, R. 1986. Indicator Organisms as Evaluators of PCB Migrations from a Superfund Site. Hazardous Materials Spills Conference.

Ruesink, R. 1978. Green Bay Estuary Study. U.S. Fish and Wildlife Service, DOI, Twin Cities.

Russell, C. S., and W. J. Vaughan. 1982. The National Recreational Fishing Benefits of Water Pollution Control. *J. Environ. Econ. Manag.* 9:328-354.

Russell, R. W., R. Lazar, and G. D. Haefner. 1995. Biomagnification of Organochlorines in Lake Erie White Bass. *Environ. Toxicol. Chem.* 14:719-724.

Ryckman, D. P., D. V. Weseloh, P. Hamr, G. A. Fox, B. Collins, P. J. Ewins, and R. J. Norstrom. In press. Spatial and Temporal Trends in Organochlorine Contamination and Bill Deformities in Double-Crested Cormorants (*Phalacrocorax auritus*) from the Canadian Great Lakes. *Environmental Monitoring and Assessment*.

Saad, D. A. 1994. A Comparison of Nitrate Concentrations in Ground and Surface Water of the Western Lake Michigan Drainages NAWQA Study Unit. Abstract: American Water Resources Association, Wisconsin Section, Annual Meeting.

Saad, D. A. 1995. Nutrients and Pesticides in Ground Water of Two Agricultural Land-Use Areas in the Western Lake Michigan Drainages NAWQA Study Unit. Abstract: American Water Resources Association, Wisconsin Section Annual Meeting.

Saad, D. A. 1996. Using Chlorofluorocarbons to Determine the Recharge Date of Shallow Ground Water in the Western Lake Michigan Drainages NAWQA Study Unit. Abstract: American Water Resources Association, Wisconsin Section annual meeting.

Saad, D. A. 1996. Ground-Water Quality in the Western Part of the Cambrian-Ordovician Aquifer in the Western Lake Michigan Drainages, Wisconsin and Michigan. Abstract, USGS Water-Resources Investigations Report 96-4231.

Saad, D. A. 1997. Effects of Land Use and Geohydrology on the Quality of Shallow Ground Water in Two Agricultural Areas in Wisconsin. Abstract: Geological Society of America (GSA) North-Central Section, 31st annual meeting, May 1-2, 1997, Madison, Wisconsin.

Saad, D. A. 1997. Effects of Land Use and Geohydrology on the Quality of Shallow Ground Water in Two Agricultural Areas in the Western Lake Michigan Drainages, Wisconsin. Abstract, USGS Water-Resources Investigations Report 96-4083.

Safe, S. 1980. Polychlorinated Biphenyls (PCBs) and Polybrominated Biphenyls (PBBs): Biochemistry, Toxicology, and Mechanism of Action. *CRC Critical Reviews in Toxicology* 13(4):319-395.

Safe, S. 1987. Determination of 2,3,7,8-TCDD Toxic Equivalent Factors (TEFs): Support for the Use of the In Vitro AHH Induction Assay. *Chemosphere* 16:791-802.

Safe, S. 1990. Polychlorinated Biphenyls (PCBs), Dibenzo-p-dioxins (PCDDs), Dibenzofurans (PCDFs), and Related Compounds: Environmental and Mechanistic Considerations Which Support the Development of Toxic Equivalency Factors (TEFs). *Critical Reviews in Toxicology* 21(1):51-88.

Safe, S. 1991. Polychlorinated Dibenzo-p-dioxins and Related Compounds: Sources, Environmental Distribution and Risk Assessment. *Environ. Carcino. & Ecotox. Revs.* C9(2):261-302.

Safe, S. 1992. Development, Validation and Limitations of Toxic Equivalency Factors. *Chemosphere* 25:61-66.

Safe, S. 1994. Polychlorinated Biphenyls (PCBs): Environmental Impact, Biochemical and Toxic Responses, and Implications for Risk Assessment. *Critical Reviews in Toxicology* 24:87-149.

Safe, S., G. Mason, T. Sawyer, T. Zacharewski, M. Harris, C. Yao, B. Keys, K. Farrell, M. Holcomb, D. Davis, L. Safe, J. Piskorska-Pliszczyńska, B. Leece, M. A. Denomme, O. Hutzinger, H. Thoma, B. Chittim, and J. Madge. 1989. Development and Validation of In Vitro Induction Assays for Toxic Halogenated Aromatic Mixtures: A Review. *Toxicology and Industrial Health* 5(5):757-775.

Sager, D., D. Girard, and D. Nelson. 1991. Early Postnatal Exposure to PCBs: Sperm Function in Rats. *Environ. Toxicol. Chem.* 10:737-746.

Sager, P. E., and S. Richman. 1991. Functional Interaction of Phytoplankton and Zooplankton along the Trophic Gradient in Green Bay, Lake Michigan. *Can. J. Fish. Aquat. Sci.* 48:116-122.

- St. Amant, J. R., M. E. Pariso, and T. B. Sheffy. 1982. Polychlorinated Biphenyls in Seven Species of Lake Michigan Fish, 1971-1981, Pages 311-319 in *Toxic Contaminants in the Great Lakes*, Vol. 14 (J. O. Nriagu and M. S. Simmons, Eds.). John Wiley & Sons, New York.
- St. Amant, J. R., M. E. Pariso, and T. B. Sheffy. 1983. Final Report on the Toxic Substances Survey of Lakes Michigan, Superior, and Tributary Streams. Wisconsin Department of Natural Resources report to the Wisconsin Coastal Management Program, March 1, 1983.
- St. Louis, V. L., L. Breebaart, J. C. Barlow, and J. F. Klaverkamp. 1993. Metal Accumulation and Metallothionein Concentrations in Tree Swallow Nestlings Near Acidified Lakes. *Environ. Toxicol. Chem.* 12:1203-1207.
- Salt, G. W., and D. E. Willard. 1971. The Hunting Behavior and Success of Forster's Tern. *Ecology* 52:989-998.
- Samples, K. C., and R. C. Bishop. 1981. The Lake Michigan Angler: A Wisconsin Profile. UW Sea Grant Institute, WIS-SG-81-423.
- Samples, K. C., and R. C. Bishop. 1985. Estimating the Value of Variations in Anglers' Success Rates: An Application of the Multiple-Site Travel Cost Method. *Marine Resource Economics* 2(1):55-74.
- Sanders, O. T., and R. L. Kirkpatrick. 1977. Reproductive Characteristics and Corticoid Levels of Female White-footed Mice Fed ad Libitum and Restricted Diets Containing a Polychlorinated Biphenyl. *Environmental Res.* 13:358-363.
- Sanders, O. T., R. L. Zepp, and R. L. Kirkpatrick. 1974. Effect of PCB Ingestion on Sleeping Times, Organ Weights, Food Consumption, Serum Corticosterone and Survival of Albino Mice. *Bull. Environm. Contam. Toxicol.* 12:394-398.
- Sanderson, J. T., and G. D. Bellward. 1995. Hepatic Microsomal Ethoxyresorufin o-Deethylase-Inducing Potency In Ovo and Cytosolic Ah Receptor Binding Affinity of 2,3,7,8-Tetrachlorodibenzo-p-dioxin: Comparison of Four Avian Species. *Toxicol. Appl. Pharmacol.* 132:131-145.
- Sangalang, G. B., H. C. Freeman, and R. Crowell. 1981. Testicular Abnormalities in Cod (*Gadus morhua*) Fed Aroclor 1254. *Arch. Environ. Contam. Toxicol.* 10:617-626.
- Scavia, D., and G. L. Fahnenstiel. 1988. From Picoplankton to Fish: Complex Interactions in the Great Lakes, Pages 85-97 in *Complex Interactions in Lake Communities* (S. R. Carpenter, Ed.). Springer-Verlag, New York, Berlin, Heidelberg, London, Paris, Tokyo.
- Scavia, D., G. A. Lang, and J. F. Kitchell. 1988. Dynamics of Lake Michigan Plankton: A Model Evaluation of Nutrient Loading, Competition, and Predation. *Can. J. Fish. Aquat. Sci.* 45:165-177.

Schantz, S. L., E. D. Levin, and R. E. Bowman. 1991. Long-Term Neurobehavioral Effects of Perinatal Polychlorinated Biphenyl (PCB) Exposure in Monkeys. *Environ. Toxicol. Chem.* 10(6):747-756.

Scharenberg, W. 1991. Cormorants (*Phalacrocorax carbo sinensis*) as Bioindicators for Polychlorinated Biphenyls. *Arch. Environ. Contam. Toxicol.* 21:536-540.

Schimmel, S. C., D. J. Hansen, and J. Forester. 1974. Effects of Aroclor 1254 on Laboratory-Reared Embryos and Fry of Sheepshead Minnows (*Cyprinodon variegatus*). *Trans. Amer. Fish. Soc.* 103(3):582-585.

Schmidt, W. A. 1996. The Reel Truth: Setting the Record Straight on the Safety of Eating Great Lakes Sport Fish. Great Lakes Natural Resource Center, National Wildlife Federation. March.

Schmitt, C. J., J. L. Zajicek, and P. H. Peterman. 1990. National Contaminant Biomonitoring Program: Residues of Organochlorine Chemicals in U.S. Freshwater Fish, 1976-1984. *Arch. Environ. Contam. Toxicol.* 19:748-781.

Schneeberger, P. J. 1991. Seasonal Incidence of *Bythotrephes cederstroemi* in the Diet of Yellow Perch (Ages 0-4) in Little Bay De Noc, Lake Michigan, 1988. *J. Great Lakes Res.* 17:281-285.

Schneider, J. C., and J. H. Leach. 1979. Walleye Stocks in the Great Lakes, 1800-1975: Fluctuations and Possible Causes. Technical Report No. 31, Great Lakes Fishery Commission, Ann Arbor, Michigan. February.

Schneider, T. M. 1990. Mass Balance Project Fish Collection - Final Report to the Environmental Protection Agency. Prepared by the Project Fish Manager - Wisconsin DNR. June 18.

Schrank, C. S., S. M. Cormier, and V. S. Blazer. 1997. Contaminant Exposure, Biochemical, and Histopathological Biomarkers in White Suckers from Contaminated and Reference Sites in the Sheboygan River, Wisconsin. *J. Great Lakes Res.* 23(2):119-130.

Schreitmuller, J., M. Vigneron, R. Bacher, and K. Ballschmiter. 1994. Pattern Analysis of Polychlorinated Biphenyls (PCB) in Marine Air of the Atlantic Ocean. *International Journal of Environmental Analytical Chemistry* 57:33-52.

Schubauer-Berigan, M. K., and G. T. Ankley. 1991. The Contribution of Ammonia, Metals, and Nonpolar Organic Compounds to the Toxicity of Sediment Interstitial Water from an Illinois River Tributary. *Environ. Toxicol. Chem.* 10:925-939.

Schuettpelz, D. 1993. Development of Sediment Quality Objective Concentrations for PCBs in Deposit A, Little Lake Butte des Morts. WDNR, Bureau of Water Resources Management, Sediment Management and Remediation Techniques Program, February 1993.

Schulz, D., G. Petrick, and J. Duinker. 1989. Complete Characterization of Polychlorinated Biphenyl Congeners in Commercial Aroclor and Clophen Mixtures by Multidimensional Gas Chromatography-Electron Capture Detection. *Environ. Sci. Technol.* 23:852-858.

Schulze, W. D., R. D. Rowe, W. S. Breffle, R. R. Boyce, and G. H. McClelland. 1995. Contingent Valuation of Natural Resource Damages Due to Injuries to the Upper Clark Fork River Basin. Prepared by Hagler Bailly Consulting, Inc. for the State of Montana Natural Resource Damage Litigation Program. January.

Schwartz, T. R. 1986. Determination of Organochlorine Residues in Bird Eggs, Fish, and Sediment from Green Bay, WI. Final Laboratory Report FY86-30-9. Columbia National Fisheries Research Laboratory. January 17.

Schwartz, T. R. 1988. Determination of AHH-Active PCB Congeners in Lake Trout Eggs. Final Laboratory Report FY89-30-1, Work Unit 889.06, National Fisheries Contaminant Research Center, to Dr. Mike Mac.

Schwartz, T. R., and D. L. Stalling. 1991. Chemometric Comparison of Polychlorinated Biphenyl Residues and Toxicologically Active Polychlorinated Biphenyl Congeners in the Eggs of Forster's Terns (*Sterna forsteri*). *Arch. Environ. Contam. Toxicol.* 20:183-199.

Schwartz, T. R., D. E. Tillitt, K. P. Feltz, and P. H. Peterman. 1993. Determination of Mono- and Non-o,o'-chlorine Substituted Polychlorinated Biphenyls in Aroclors and Environmental Samples. *Chemosphere* 26:1443-1460.

Scott, M. L. 1977. Effects of PCBs, DDT, and Mercury Compound in Chickens and Japanese Quail. *Federation Proceedings* 36:1888-1893.

Scott, W. B., and E. J. Grossman. 1973. Freshwater Fishes of Canada. Ottawa, Canada: Bulletin 184. Fisheries Research Board of Canada.

Scudder, B. C., F. A. Fitzpatrick, S. J. Rheaume, and D. J. Sullivan. 1993. Biological Assessments in the National Water Quality Assessment Program: Western Lake Michigan Drainages Study Unit. Abstract: Society of Environmental Toxicology and Chemistry annual meeting, November 14-18, Houston, Texas.

Scudder, B. C., F. A. Fitzpatrick, S. J. Rheaume, and D. J. Sullivan. 1995. Trace Elements in Caddisflies and Streambed Sediments from Streams in the Western Lake Michigan Drainages. Abstract: North American Benthological Society, Annual Meeting, Keystone, Colorado. May 30-June 2, 1995. *Bulletin of the North American Benthological Society*, v.12, n. 1, p. 159.

Scudder, B. C., D. J. Sullivan, F. A. Fitzpatrick, and S. J. Rheaume. 1997. Trace Elements and Synthetic Organic Compounds in Biota and Streambed Sediment of the Western Lake Michigan Drainages, 1992-1995. U.S. Geological Survey, Water Resources Investigations Report 97-4192, National Water Quality Assessment Program.

Scudder, B. C., D. J. Sullivan, S. J. Rheume, S. R. Parsons, and B. N. Lenz. 1996. A Summary of Biological Investigations that Relate to Water Quality in the Western Lake Michigan Drainages, Wisconsin and the Upper Peninsula of Michigan. Abstract: American Water Resources Association, Wisconsin Section annual meeting.

Scudder, B. C., D. J. Sullivan, S. J. Rheume, S. R. Parsons, and B. N. Lenz. 1996. Summary of Biological Investigations Relating to Water Quality in the Western Lake Michigan Drainages, Wisconsin and Michigan. Abstract, Water-Resources Investigations Report 96-4263.

Secord, A. L., and J. P. McCarty. 1997. Polychlorinated Biphenyl Contamination of Tree Swallows in the Upper Hudson River Valley, New York. Effects on Breeding Biology and Implications for Other Bird Species. New York Field Office, U.S. Fish and Wildlife Service, Cortland, New York, March 1997.

Seegal, R. F., B. Bush, and K. Brosch. 1991. Comparison of Effects of Aroclors 1016 and 1260 on Non-Human Primate Catecholamine Function. *Toxicology* 66:145-163.

Seegal, R. F., B. Bush, and K. O. Brosch. 1991. Sub-Chronic Exposure of the Adult Rat to Aroclor 1254 Yields Regionally-Specific Changes in Central Dopaminergic Function. *Neurotoxicol.* 12:55-66.

Seegal, R. F., B. Bush, and W. Shain. 1990. Lightly Chlorinated Ortho-Substituted PCB Congeners Decrease Dopamine in Nonhuman Primate Brain and Tissue Culture. *Toxicol. Appl. Pharmacol.* 106:136-144.

Seegel, R. F., and S. L. Schantz. 1994. Neurochemical and Behavioral Sequelae of Exposure to Dioxins and PCBs, Pages 409-447 in *Dioxins and Health* (A. Schecter, Ed.). Plenum, New York, New York, USA.

Seelye, J. G., and M. J. Mac. 1981. Size-Specific Mortality in Fry of Lake Trout (*Salvelinus namaycush*) from Lake Michigan. *Bull. Environm. Contam. Toxicol.* 27:376-379.

Selgeby, J. H. 1995. Preface: Introduction to the Proceedings of the 1994 International Conference on Restoration of Lake Trout in the Laurentian Great Lakes. *J. Great Lakes Res.* 21 (Supplement 1):1-2.

Sellinger, C. E. 1995. Groundwater Flux into a Portion of Eastern Lake Michigan. *J. Great Lakes Res.* 21:53-63.

Septon, G. 1993. An Overview of Prey Species Taken by Midwestern Peregrine Falcon (*Falco peregrinus*) from 1987-1993. Milwaukee Public Museum, Milwaukee, Wisconsin. 21 pp.

Serafin, J. A. 1984. Avian Species Differences in the Intestinal Absorption of Xenobiotics (PCB, Dieldrin, Hg²⁺). *Comp. Biochem. Physiol.* 78C(2):491-496.

Shafer, M. M., J. T. Overdier, R. A. Baldino, J. P. Hurley, and P. E. Hughes. 1995. Levels, Partitioning, and Fluxes of Six Trace Elements in

Lake Michigan Tributaries. Chemical and Physical Aspects of the Lake Michigan Tributary Monitoring Program.

Shain, W., B. Bush, and R. Seegal. 1991. Neurotoxicity of Polychlorinated Biphenyls: Structure-Activity Relationship of Individual Congeners. *Toxicol. Appl. Pharmacol.* 111:33-42.

Shaw, G. R., and D. W. Connell. 1984. Physicochemical Properties Controlling Polychlorinated Biphenyl (PCB) Concentrations in Aquatic Organisms. *Environ. Sci. Technol.* 18:23-31.

Shea, M. A., and J. C. Makarewicz. 1989. Production, Biomass, and Trophic Interactions of *Mysis relicta* in Lake Ontario. *J. Great Lakes Res.* 15(2):223-232.

Sheffield, S. R., J. M. Matter, B. A. Rattner, and P. D. Guiney. 1998. Fish and Wildlife Species As Sentinels of Environmental Endocrine Disruptors, Pages 369-430 in *Principles and Processes for Evaluating Endocrine Disruption in Wildlife* (R. J. Kendall, Ed.). SETAC Press, Pensacola, Florida.

Sheffy, T. B., and T. M. Aten. 1979. 1979 Annual Summary of PCB Levels in Wisconsin Fish. Department of Natural Resources, Madison, Wisconsin, July 2, 1979.

Sheffy, T. B., and J. R. St. Amant. 1980. Toxic Substances Survey of Lake Michigan, Superior, and Tributary Streams: First Annual Report. WDNR Technical Publication, 107 pp.

Shiu, W. Y., and D. Mackay. 1986. A Critical Review of Aqueous Solubilities, Vapor Pressures, Henry's Law Constants, and Octanol-Water Partition Coefficients of the Polychlorinated Biphenyls. *J. Phys. Chem. Ref. Data* 15:911-929.

Shore, L. S., M. Gurevitz, and M. Shemesh. 1993. Estrogen as an Environmental Pollutant. *Bull. Environm. Contam. Toxicol.* Spring:361-366.

Shubat, P. J., K. A. Raatz, and R. A. Olson. 1996. Fish Consumption Advisories and Outreach Programs for Southeast Asian Immigrants. *Toxicology and Industrial Health* 12:427-434.

Shull, L. R., M. R. Bleavins, B. A. Olson, and R. J. Aulerich. 1982. Polychlorinated Biphenyls (Aroclors 1016 and 1242): Effect on Hepatic Microsomal Mixed Function Oxidases in Mink and Ferrets. *Arch. Environ. Contam. Toxicol.* 11:313-321.

Sierzenga, P. M. 1994. Long Term Suspended Solids and Radiocesium Mass Balance on Green Bay, Lake Michigan. MS (Civil Engineering) Thesis, State University of New York at Buffalo.

Silverman, W. M. 1990. Michigan's Sport Fish Consumption Advisory: A Study in Risk Communication. MS Thesis, University of Michigan, Ann Arbor, May.

Simmers, J. W., C. R. Lee, D. L. Brandon, H. E. Tatem, and J. G. Skogerboe. 1991. Information Summary, Area of Concern: Grand Calumet River, Indiana. Final Report, prepared for USEPA.

Simmons, M. S. 1983. PCB Contamination in the Great Lakes, Pages 287-309 in Toxic Contaminants in the Great Lakes, Vol. 14 (J. O. Nriagu and M. S. Simmons, Eds.). John Wiley & Sons, New York.

Sims, J. L., R. C. Sims, and J. E. Matthews. 1990. Approach to Bioremediation of Contaminated Soil. Hazardous Waste & Hazardous Materials 7(2):117-149.

Sivarajah, K., C. S. Franklin, and W. P. Williams. 1978. Some Histopathological Effects of Aroclor 1254 on the Liver and Gonads of Rainbow Trout, *Salmo gairdneri* and Carp, *Cyprinus carpio*. J. Fish Biol. 13:411-414.

Skaare, J. U., and A. Polder. 1990. Polychlorinated Biphenyls and Organochlorine Pesticides in Milk of Norwegian Women During Lactation. Arch. Environ. Contam. Toxicol. 19:640-645.

Skogerboe, J. G., C. R. Lee, D. L. Brandon, J. W. Simmers, and H. E. Tatem. 1991. Information Summary, Area of Concern: Sheboygan River, Wisconsin. Final Report, prepared for USEPA.

Sleiderink, H. M., I. Oostingh, A. Goksoyr, and J. P. Boon. 1995. Sensitivity of Cytochrome P450 Induction in Dab (*Limanda limanda*) of Different Age and Sex as a Biomarker for Environmental Contaminants in the Southern North Sea. Arch. Environ. Contam. Toxicol. 28:423-430.

Smith, D. W. 1995. Current and Near-Future PCB Trends in the Great Lakes. Presentation to the Great Lakes Science Advisory Board and to the Council of Great Lakes Research Managers of the International Joint Commission, 22 February 1995. Washington, D.C., USA and Ottawa, Ontario, Canada.

Smith, D. W. 1995. Are PCBs in the Great Lakes Approaching a "New Equilibrium"? Environ. Sci. Technol. 29:42A-46A.

Smith, D. W. 1998. Evidence of Strong Lake Trout Recruitment Despite High PVB (Total Aroclors) Concentrations. J. Great Lakes Res. 24(4):974-979.

Smith, I. R., B. Marchant, M. R. Van den Heuvel, J. H. Clemons, and J. Frimeth. 1994. Embryonic Mortality, Bioassay-Derived 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents, and Organochlorine Contaminants in Pacific Salmon from Lake Ontario. J. Great Lakes Res. 20(3):497-509.

Smith, J. 1983. PCB Levels in Human Fluids: Sheboygan Cohort Study. PhD (Anthropology) Thesis, University of Wisconsin - Madison.

Smith, J. G., and G. H. Heinz. 1984. Effects of Industrial Contaminants on Common Terns in Great Lakes. Report for FY 1984. U.S. Fish and Wildlife Service. September 30.

Smith, L. M., T. R. Schwartz, K. Feltz, and T. J. Kubiak. 1990. Determination and Occurrence of AHH-Active Polychlorinated Biphenyls, 2,3,7,8-Tetrachloro-p-dioxin and 2,3,7,8-Tetrachlorodibenzofuran in Lake Michigan Sediment and Biota. The Question of Their Relative Toxicological Significance. *Chemosphere* 21(9):1063-1085.

Smith, S. B., and J. F. Coles. 1998. Potential Endocrine Disruption in Largemouth Bass (*Micropterus salmoides*) at Woods Pond, Housatonic River, MA from Polychlorinated Biphenyls (PCBs) and Congener Specific PCBs. Abstract, draft.

Smith, S. B., J. F. Coles, K. Riva-Murray, T. Gross, and N. Denslow. 1998. Endocrine Biomarkers for Common Carp (*Cyprinus carpio*) and Largemouth Bass (*Micropterus salmoides*) and their Relation to Contaminants in Tissue, Sediments and Water in Northeastern United States Rivers. Abstract and Summary, Setac Poster.

Smith, S. L., D. D. MacDonald, K. A. Keenleyside, C. G. Ingersoll, and L. J. Field. 1996. A Preliminary Evaluation of Sediment Quality Assessment Values for Freshwater Ecosystems. *J. Great Lakes Res.* 22(3):624-638.

Smith, V. K. 1987. Nonuse Values in Benefit-Cost Analysis. *Southern Economic Journal* 51:19-26.

Smith, V. K. 1992. On Separating Defensible Benefit Transfers From "Smoke and Mirrors". *Water Resources Research* 28 (3):685-694.

Smith, V. K. 1993. Nonmarket Valuation of Environmental Resources: An Interpretive Appraisal. *Land Economics* 69(1):1-26.

Snarski, V. M. 1982. The Response of Rainbow Trout *Salmo gairdneri* to *Aeromonas hydrophila* after Sublethal Exposures to PCB and Copper. *Environ. Pollut.* (Series A)28:219-232.

Snarski, V. M., and F. A. Puglisi. 1976. Effects of Aroclor 1254 on Brook Trout, *Salvelinus fontinalis*. Prepared by the Environmental Research Laboratory - Duluth as part of the Office of Research and Development of the USEPA. 34 pp.

Sokol, R. C., C. M. Bethoney, and G.-Y. Rhee. 1998. Reductive Dechlorination of Preexisting Sediment Polychlorinated Biphenyls with Long-Term Laboratory Incubation. *Environ. Toxicol. Chem.* 17(6):982-987.

Sonzogni, W., L. Maack, T. Gibson, D. Degenhardt, H. Anderson, and B. Fiore. 1991. Polychlorinated Biphenyl Congeners in Blood of Wisconsin Sport Fish Consumers. *Arch. Environ. Contam. Toxicol.* 20:56-60.

Spangler, G. R. 1988. Perspectives on the Influence of Toxic Substances on Fishery Productivity, Pages 193-207 in *Toxic Contamination in Large Lakes*, Vol. Volume II: Impact of Toxic Contaminants on Fisheries Management (N. W. Schmidtke, Ed.). Lewis Publishers, Inc., Chelsea, Michigan. Proceedings of a technical session of the World Conference on Large Lakes, May 18-21, 1986, Mackinac Island, Michigan.

- Spear, P. A., D. H. Bourbonnais, D. B. Peakall, and T. W. Moon. 1989. Dove Reproduction and Retinoid (Vitamin A) Dynamics in Adult Females and Their Eggs Following Exposure to 3,3',4,4'-Tetrachlorobiphenyl. *Can. J. Zool.* 67:908-913.
- Spies, R. B., and D. W. J. Rice. 1988. Effects of Organic Contaminants on Reproduction of the Starry Flounder *Platichthys stellatus* in San Francisco Bay. II. Reproductive Success of Fish Captured in San Francisco Bay and Spawned in the Laboratory. *Marine Biology* 98:191-200.
- Spitsbergen, J. M., J. M. Kleeman, and R. E. Peterson. 1988. 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxicity in Yellow Perch (*Perca flavescens*). *Journal of Toxicology and Environmental Health* 23:359-383.
- Spitsbergen, J. M., K. A. Schat, J. M. Kleeman, and R. E. Peterson. 1988. Effects of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) or Aroclor 1254 on the Resistance of Rainbow Trout, *Salmo gairdneri* Richardson, to Infectious Haematopoietic Necrosis Virus. *Journal of Fish Diseases* 11:73-83.
- Spitsbergen, J. M., M. K. Walker, J. R. Olson, and R. E. Peterson. 1990. Pathologic Alterations in Early Life Stages of Lake Trout, *Salvelinus namaycush*, Exposed to 2,3,7,8-Tetrachlorodibenzo-p-dioxin as Fertilized Eggs. *Aquat. Toxicol.* 19:41-72.
- Sprunt, A., IV. 1963. Bald Eagles Aren't Producing Enough Young. *Audubon Magazine* 65:32-35.
- Sprunt, A., IV, and F. J. Ligas. 1966. Audubon Bald Eagle Studies - 1960-1965. In *Proceedings of the 62nd Annual Convention of the National Audubon Society*, Sacramento, California.
- Sprunt, A., IV, W. B. Robertson, S. Postupalsky, R. J. Henshel, C. E. Knoder, and F. J. Ligas. 1973. Comparative Productivity of Six Bald Eagle Populations. In *Transactions of the 38th North American Wildlife & Natural Resources Conference*, pp. 98-106.
- Stage, B. R. 1997. Moving Mud - Remediating Great Lakes Contaminated Sediments: A Report on the Sediment Assessment and Remediation Program in the Great Lakes Basin. U.S. EPA GLNPO, April 1997.
- Staggs, M. 1987. Sampling Design for Fish Contaminant Monitoring Program in Lake Michigan. Department of Natural Resources Research Report 140, February 1987. Wisconsin DNR, Madison, Wisconsin.
- Stalling, D. L., R. J. Norstrom, L. M. Smith, and M. Simon. 1985. Patterns of PCDD, PCDF, and PCB Contamination in Great Lakes Fish and Birds and their Characterization by Principal Components Analysis. *Chemosphere* 14(6/7):627-643.
- Stanley, J. G. 1987. Contaminants in the Great Lakes: A Threat to Fish and Wildlife. Prepared by Staff of the National Fisheries Center-Great Lakes, September, 1987.

State of Wisconsin. 1994. 1993-1994 Wisconsin Statutes, Chapters 250-254. Health. Administration and Supervision; Local Health Officials; Communicable Diseases; Environmental Health.

Stauffer, T. M. 1977. Effects of DDT and PCB's on Survival of Lake Trout Eggs and Fry in a Hatchery and in Lake Michigan, 1973-1976. Michigan Department of Natural Resources, Fisheries Division, Fisheries Research Report No. 1854. November 29.

Stauffer, T. M. 1979. Effects of DDT and PCB's on Survival of Lake Trout Eggs and Fry in a Hatchery and in Lake Michigan, 1973-1976. Trans. Amer. Fish. Soc. 108:178-186.

Stegeman, J. J., and P. J. Kloepper-Sams. 1987. Cytochrome P-450 Isozymes and Monooxygenase Activity in Aquatic Animals. Environ. Health Perspec. 71:87-95.

Steuer, J. 1992. Scenario Results from UFRM -- Hydrograph, No Action, 100 Year Event and Upstream Remediation and Flow Clipping. Memorandum Reports, WDNR/USGS, June-September 1992, 20 pp.

Steuer, J., and R. Hammond. 1992. Point Source Discharge PCB Results - Green Bay/Fox River Mass Balance Study. Memorandum data report, includes tables, graphs and charts by discharger, WDNR, October 1992, approx 200 pp.

Steuer, J., S. Jaeger, and D. Patterson. 1995. A Deterministic PCB Transport Model for the Lower Fox River Between Lake Winnebago and DePere, Wisconsin. Wisconsin Department of Natural Resources, Madison. Publ WR 389-95.

Stevens, T. H., J. Echeverria, R. J. Glass, T. Hagar, and T. A. More. 1991. Measuring the Existence Value of Wildlife: What Do CVM Estimates Really Show? Land Economics 67(4):390-400.

Stewart, J. S., and T. M. Lillesand. 1995. Stratification of Landsat Thematic Mapper Data, Based on Regional Landscape Patterns, to Improve Land-Cover Classification Accuracy of Large Study Areas. Proceedings Paper, American Congress on Surveying and Mapping and the American Society for Photogrammetry and Remote Sensing, Annual Convention and Exposition, February 27-March 2, 1995, Charlotte, North Carolina.

Stickel, L. F., N. J. Chura, P. A. Stewart, C. M. Menzie, R. M. Prouty, and W. L. Reichel. 1966. Bald Eagle-Pesticide Relations. In Transactions of the 31st North American Wildlife & Natural Resources Conference, pp. 190-200.

Stickel, W. H., L. F. Stickel, R. A. Dyrland, and D. L. Hughes. 1984. Aroclor 1254 Residues in Birds: Lethal Levels and Loss Rates. Arch. Environ. Contam. Toxicol. 13:7-13.

Stolen, J. S. 1985. The Effect of the PCB, Aroclor 1254, and Ethanol on the Humoral Immune Response of a Marine Teleost to a Sludge Bacterial Isolate of E. coli, Pages 419-426 in Marine Pollution and Physiology:

Recent Advances (F. J. Vernberg, F. P. Thurberg, A. Calabrese, and W. B. Vernberg, Eds.). Academic Press, New York.

Stoll, R., and K. Erdman. 1990. Preliminary Green Bay Mass Balance Groundwater Monitoring Report (An Assessment of the Bayshore Landfills). WDNR, January 1990, 102 pp.

Stoll, R., and K. Erdman. 1992. Stage II Green Bay Mass Balance Groundwater Monitoring Results. Wisconsin Department of Natural Resources, Bureau of Water Resources Management, Madison, Wisconsin, March 1992, 25 pp.

Stolzenburg, T., and J. Sullivan. 1983. Dioxin: A Cause for Concern? An Advisory Report of the University of Wisconsin Sea Grant Institute, October 1983 / WIS-SG-83-141.

Stone, R. 1992. Swimming Against the PCB Tide. *Science* 255:798-799.

Storm, J. E., J. L. Hart, and R. F. Smith. 1981. Behavior of Mice after Pre- and Postnatal Exposure to Aroclor 1254. *Neurobehav. Toxicol. Teratol.* 3:5-9.

Stotz, I. J., and Y. A. Greichus. 1978. The Effects of a Polychlorinated Biphenyl Aroclor 1254 on the White Pelican: Ultrastructure of Hepatocytes. *Bull. Environm. Contam. Toxicol.* 19(3):319-325.

Stow, C. A. 1995. Factors Associated with PCB Concentrations in Lake Michigan Salmonids. *Environ. Sci. Technol.* 29(2):522-527.

Stow, C. A. 1995. Great Lakes Herring Gull Egg PCB Concentrations Indicate Approximate Steady-State Conditions. *Environ. Sci. Technol.* 29:2893-2897.

Stow, C. A., S. R. Carpenter, L. A. Eby, J. F. Amrhein, and R. J. Hesselberg. 1995. Evidence that PCBs Are Approaching Stable Concentrations in Lake Michigan Fishes. *Ecological Applications* 5(1):248-260.

Stow, C. A., S. R. Carpenter, C. P. Madenjian, L. A. Eby, and L. J. Jackson. 1995. Fishery Management to Reduce Contaminant Consumption. *BioScience* 45(11):752-758.

Strachan, W. M., and S. J. Eisenreich. 1988. Mass Balancing of Toxic Chemicals in the Great Lakes: the Role of Atmospheric Deposition. From the Workshop on the Estimation of Atmospheric Loadings to the Great Lakes. International Joint Commission, Windsor, Ontario.

Stratus Consulting. 1998. Fish Consumption Advisories in the Lower Fox River/Green Bay Assessment Area. Final Report, Prepared for: U.S. Fish and Wildlife Service, U.S. Department of Interior, and U.S. Department of Justice, by Stratus Consulting, Boulder, Colorado, November 24, 1998.

Strehlow, E. W., T. C. Erdman, J. P. Jacobs, T. Baumann, and I. Baumann [eds.]. 1978. Brown County Birds. Neville Public Museum, Green Bay.

Strek, H. J., and J. B. Weber. 1982. Behavior of Polychlorinated Biphenyls (PCBs) in Soils and Plants. *Environ. Pollut. (Series A)* 28:291-312.

Stromborg, K. 1995. Sex Ratios, Bill Deformities and PCBs in Double-crested Cormorants - Some Conclusions. Prepared by the U.S. Fish and Wildlife Service.

Struger, J., and D. V. Weseloh. 1985. Great Lakes Caspian Terns: Egg Contaminants and Biological Implications. *Colonial Waterbirds* 8(2):142-149.

Sullivan, D. J. 1995. Pesticides in Surface Waters of the Western Lake Michigan Drainages National Water-Quality Assessment Study Unit. Abstract: American Water Resources Association, Wisconsin Section Annual Meeting.

Sullivan, D. J. 1996. Use of the World Wide Web for Data Dissemination. Abstract: American Water Resources Association, Wisconsin Section annual meeting.

Sullivan, D. J. 1997. Fish Communities of Fixed Sites in the Western Lake Michigan Drainages, Wisconsin and Michigan, 1993-1995. U.S. Geological Survey, Water-Resources Investigations Report 95-4211-C, National Water Quality Assessment Program.

Sullivan, D. J., and E. M. Peterson. 1996. Fish Communities of Benchmark Streams in Agricultural Areas of Eastern Wisconsin. Abstract: Water-Resources Investigation Report 96-4038-D.

Sullivan, D. J., E. M. Peterson, and K. D. Richards. 1995. Environmental Setting of Fixed Sites in the Western Lake Michigan Drainages, Michigan and Wisconsin. U.S. Geological Survey, Water-Resources Investigations Report 95-4211-A, National Water-Quality Assessment Program, Madison, WI. 30 pp. Internet copy 18 pp. incl. abstract.

Sullivan, D. J., and K. D. Richards. 1996. Pesticides in Streams of the Western Lake Michigan Drainages, Wisconsin and Michigan, 1993-95. USGS Fact Sheet FS-107-96.

Sullivan, J. R., and J. J. Delfino. 1982. A Select Inventory of Chemicals Used in Wisconsin's Lower Fox River Basin. University of Wisconsin Sea Grant Institute, Madison.

Sullivan, J. R., J. J. Delfino, C. R. Buelow, and T. B. Sheffy. 1983. Polychlorinated Biphenyls in the Fish and Sediment of the Lower Fox River, Wisconsin. *Bull. Environm. Contam. Toxicol.* 30:58-64.

Summer, C. L., J. P. Giesy, S. J. Bursian, J. A. Render, T. J. Kubiak, P. D. Jones, D. A. Verbrugge, and R. J. Aulerich. 1996. Effects Induced by Feeding Organochlorine-Contaminated Carp from Saginaw Bay, Lake Huron, to Laying White Leghorn Hens. I. Effects on Health of Adult Hens, Egg

Production, and Fertility. *Journal of Toxicology and Environmental Health* 49:389-407.

Summer, C. L., J. P. Giesy, S. J. Bursian, J. A. Render, T. J. Kubiak, P. D. Jones, D. A. Verbrugge, and R. J. Aulerich. 1996. Effects Induced by Feeding Organochlorine-Contaminated Carp from Saginaw Bay, Lake Huron, to Laying White Leghorn Hens. II. Embryotoxic and Teratogenic Effects. *Journal of Toxicology and Environmental Health* 49:409-438.

Suns, K., G. Hitchin, and D. Toner. 1991. Spatial and Temporal Trends of Organochlorine Contaminants in Spottail Shiners (*Notropis hudsonius*) from the Great Lakes and their Connecting Channels (1975-1988). Prepared by the Watershed Management Section and the Laboratory Services of Environment Canada for the Water Resources Branch of the Ontario Ministry of the Environment, PIBS 1595, log 91-2309-056, Queen's Printer for Ontario. 97 pp.

Surveillance Work Group, I. J. C. 1987. Guidance on Characterization of Toxic Substances Problems in Areas of Concern in the Great Lakes Basin. A Report from the Surveillance Work Group to the Great Lakes Water Quality Board, IJC, Based on Recommendations from the Monitoring in Areas of Concern Workshop Held at Canada Centre for Inland Waters October 3-4, 1985; Windsor, Ontario, March 1987.

Sutherland, R. J., and R. G. Walsh. 1985. Effect of Distance on the Preservation Value of Water Quality. *Land Economics* 61(3):282-291.

Swackhamer, D. L. 1998. PCB Congeners in Marsh Birds in Green Bay Coastal Wetlands. Abstract: Minnesota Cooperative Fish & Wildlife Research Unit, Biennial Report, January 1997 through December 1998.

Swackhamer, D. L., and D. E. Armstrong. 1986. Estimation of the Atmospheric and Nonatmospheric Contributions and Losses of Polychlorinated Biphenyls for Lake Michigan on the Basis of Sediment Records of Remote Lakes. *Environ. Sci. Technol.* 20:879-883.

Swackhamer, D. L., and D. E. Armstrong. 1987. Distribution and Characterization of PCBs in Lake Michigan Water. *J. Great Lakes Res.* 13(1):24-36.

Swackhamer, D. L., and D. E. Armstrong. 1988. The Horizontal and Vertical Distribution of PCBs in Lake Michigan Sediments and the Effect of Waukegan Harbor as a Point Source. *J. Great Lakes Res.* 14:277-290.

Swain, A., and S. Bird. 1987. Lower Green Bay Hydrodynamic and Mass Transport Numerical Model Study. Miscellaneous Paper CERC-87-19, Department of the Army, Waterways Experiment Station, Corps of Engineers; December 1987 Final Report.

Swain, W. R. 1991. Effects of Organochlorine Chemicals on the Reproductive Outcome of Humans Who Consumed Contaminated Great Lakes Fish: An Epidemiological Consideration. *Journal of Toxicology and Environmental Health* 33:587-639.

- Swanson, G. M., H. E. Ratcliffe, and L. J. Fischer. 1995. Human Exposure to Polychlorinated Biphenyls (PCBs): a Critical Assessment of the Evidence for Adverse Health Effects. *Regulatory Toxicology and Pharmacology* 21:136-150.
- Swanson, S. M., R. Schryer, R. Shelast, P. J. Kloepper-Sams, and J. W. Owens. 1994. Exposure of Fish to Biologically Treated Bleached-Kraft Mill Effluent. 3. Fish Habitat and Population Assessment. *Environ. Toxicol. Chem.* 13(9):1497-1507.
- Sweet, C. W., T. J. Murphy, J. H. Bannasch, C. A. Kelsey, and J. Hong. 1993. Atmospheric Deposition of PCBs into Green Bay. *J. Great Lakes Res.* 19(1):109-128.
- Syal, S. 1997. The Fox Wolf Initiative. WDNR Report: <http://www.epa.gov/owow/wtr1/watershed/Proceed/syal.html>; 9/16/97.
- Takeshita, R., and Y. Akimoto. 1991. Leaching of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans in Fly Ash from Municipal Solid Waste Incinerators to a Water System. *Arch. Environ. Contam. Toxicol.* 21:245-252.
- Talhelm, D. R. 1987. Economics of Great Lakes Fisheries: A 1985 Assessment. Technical Report No. 54; Prepared by Great Lakes Fishery Commission, Ann Arbor, Michigan. November. 55 pp.
- Talhelm, D. R., and R. C. Bishop. 1980. Benefits and Costs of Sea Lamprey (*Petromyzon marinus*) Control in the Great Lakes: Some Preliminary Results. *Can. J. Fish. Aquat. Sci.* 37:2169-2174.
- Talhelm, D. R., R. C. Bishop, K. W. Cox, N. W. Smith, D. N. Steinnes, and A. L. W. Tuomi. 1979. Current Estimates of Great Lakes Fisheries Values: 1979 Status Report. Prepared by the Great Lakes Fishery Commission, Ann Arbor, Michigan. 18 pp.
- Talhelm, D. R., J. E. Hanna, and P. Victor. 1987. Product Travel Cost Approach: Estimating Acid Rain Damage to Sport Fishing in Ontario. *Trans. Amer. Fish. Soc.* 116:420-431.
- Tanabe, S. 1988. PCB Problems in the Future: Foresight from Current Knowledge. *Environ. Pollut.* 50:5-28.
- Tanabe, S., N. Kannan, A. Subramanian, S. Watanabe, and R. Tatsukawa. 1987. Highly Toxic Coplanar PCBs: Occurrence, Source, Persistency, and Toxic Implications to Wildlife and Humans. *Environ. Pollut.* 47:147-163.
- Tanabe, S., N. Kannan, T. Wakimoto, and R. Tatsukawa. 1987. Method for Determination of Three Toxic Non-orthochlorine Substituted Coplanar PCBs in Environmental Samples in Part-per-trillion Levels. *International Journal of Environmental Analytical Chemistry* 29:199-213.
- Task Force on Chemical Loadings. 1988. Report on Modeling the Loading-Concentration Relationship for Critical Pollutants in the Great Lakes. Toxic Substances Committee Report to the Great Lakes Water Quality Board,

International Joint Commission, Great Lakes Regional Office, Windsor, Ontario, October 1988.

Tatem, H. E., D. L. Brandon, C. R. Lee, J. W. Simmers, and J. G. Skogerboe. 1990. Information Summary, Area of Concern: Ashtabula River, Ohio. Final Report, prepared for USEPA.

Teh, S. J., S. M. Adams, and D. E. Hinton. 1997. Histopathologic Biomarkers in Feral Freshwater Fish Populations Exposed to Different Types of Contaminant Stress. *Aquat. Toxicol.* 37:51-70.

Temple, S. A., and J. R. Cary. 1987. Wisconsin Birds. A Seasonal and Geographical Guide. The University of Wisconsin Press, Madison.

Tessen, D. D. [ed.]. 1976. Wisconsin's Favorite Bird Haunts. The Wisconsin Society For Ornithology, Inc., Green Bay, WI.

Tetra Tech. 1994. Green Bay Mass Balance Data Sets Data Compilation, Interim Deliverable #1 (Draft). Prepared for EPA, Office of Water Assessment and Watershed Protection Division under EPA Contract 68-C3-0303, Work Assignment 042 by Tetra Tech, Inc., Fairfax, VA.

Teufel, M., K. H. Niessen, J. Sartoris, W. Brands, H. Lochbuhler, K. Waag, P. Schweizer, and G. V. Oelsnitz. 1990. Chlorinated Hydrocarbons in Fat Tissue: Analyses of Residues in Healthy Children, Tumor Patients, and Malformed Children. *Arch. Environ. Contam. Toxicol.* 19:646-652.

Theobald, H. M., and R. E. Peterson. 1994. Developmental and Reproductive Toxicity of Dioxins and Other AH-Receptor Agonists, Pages 309-345 in *Dioxins and Health* (A. Schecter, Ed.). Plenum, New York, New York, USA.

Thibodeau, M. L., and J. R. M. Kelso. 1990. An Evaluation of Putative Lake Trout (*Salvelinus namaycush*) Spawning Sites in the Great Lakes. Canadian Technical Report of Fisheries and Aquatic Sciences 1739. April.

Thiel, D. A., S. G. Martin, J. W. Duncan, M. J. Lemke, W. R. Lance, and R. E. Peterson. 1988. Evaluation of the Effects of Dioxin-Contaminated Sludges on Wild Birds. In *Proceedings, 1988 TAPPI Environmental Conference*, Norcross, GA, pp. 487-506.

Thomann, R. V. 1981. Equilibrium Model of Fate of Microcontaminants in Diverse Aquatic Food Chains. *Can. J. Fish. Aquat. Sci.* 38:280-296.

Thomann, R. V. 1989. Bioaccumulation Model of Organic Chemical Distribution in Aquatic Food Chains. *Environ. Sci. Technol.* 23(6):699-707.

Thomann, R. V., J. Connolly, and T. Parkerton. 1992. An Equilibrium Model of Organic Chemical Accumulation in Aquatic Food Webs with Sediment Interaction. *Environ. Toxicol. Chem.* 11:615-629.

Thomann, R. V., and J. P. Connolly. 1984. An Age-Dependent Model of PCB in a Lake Michigan Food Chain. Project Summary: EPA-600/S3-84-026, Mar. 1984. USEPA, Environmental Research Laboratory, Duluth, MN.

Thomann, R. V., and J. P. Connolly. 1984. Model of PCB in the Lake Michigan Lake Trout Food Chain. *Environ. Sci. Technol.* 18(2):65-71.

Thomann, R. V., and D. M. DiToro. 1983. Physicochemical Model of Toxic Substances in the Great Lakes. *J. Great Lakes Res.* 9:474-496.

Thomas, P. 1988. Reproductive Endocrine Function in Female Atlantic Croaker Exposed to Pollutants. *Marine Environ. Res.* 24:179-183.

Thomas, P. 1989. Effects of Aroclor 1254 and Cadmium on Reproductive Endocrine Function and Ovarian Growth in Atlantic Croaker. *Marine Environ. Res.* 28:499-503.

Thomas, P. 1990. Teleost Model for Studying the Effects of Chemicals on Female Reproductive Endocrine Function. *The Journal of Experimental Zoology Supplement* 4:126-128.

Thomas, V. M., and T. G. Spiro. 1996. The U.S. Dioxin Inventory: Are There Missing Sources? *Environ. Sci. Technol.* 30(2):82A-85A.

Thompson, D. R., U. C. Petersen, W. S. Churchill, and A. J. Rusch. 1976. Fish and Wildlife Habitat Study, Wisconsin Great Lakes Shoreline. Wisconsin Department of Natural Resources.

Thuvander, A., and M. Carlstein. 1991. Sublethal Exposure of Rainbow Trout (*Oncorhynchus mykiss*) to Polychlorinated Biphenyls: Effect on the Humoral Immune Response to *Vibrio anguillarum*. *Fish & Shellfish Immunology* 1:77-86.

Tillitt, D., R. Gale, J. Meadows, J. Zajicek, P. Peterman, S. Heaton, P. Jones, S. Bursian, T. Kubiak, J. Giesy, and R. Aulerich. 1996. Dietary Exposure of Mink to Carp from Saginaw Bay. 3. Characterization of Dietary Exposure to Planar Halogenated Hydrocarbons, Dioxin-Equivalents, and Biomagnification. *Environ. Sci. Technol.* 30(1):283-291.

Tillitt, D. E. 1999. The Toxic Equivalents Approach for Fish and Wildlife. *Human and Ecological Risk Assessment* 5(1):25-32.

Tillitt, D. E., G. T. Ankley, and J. P. Giesy. 1989. Planar Chlorinated Hydrocarbons (PCHs) in Colonial Fish-Eating Waterbird Eggs from the Great Lakes. *Marine Environ. Res.* 29:505-508.

Tillitt, D. E., G. T. Ankley, J. P. Giesy, J. P. Ludwig, H. Kurita-Matsuba, D. V. Weseloh, P. S. Ross, C. A. Bishop, L. Sileo, K. L. Stromborg, J. Larson, and T. J. Kubiak. 1992. Polychlorinated Biphenyl Residues and Egg Mortality in Double-Crested Cormorants from the Great Lakes. *Environ. Toxicol. Chem.* 11:1281-1288.

Tillitt, D. E., G. T. Ankley, D. A. Verbrugge, J. P. Giesy, J. P. Ludwig, and T. J. Kubiak. 1991. H4IIE Rat Hepatoma Cell Bioassay-Derived 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents in Colonial Fish-Eating Waterbird Eggs from the Great Lakes. *Arch. Environ. Contam. Toxicol.* 21:91-101.

- Tillitt, D. E., J. P. Giesy, and G. T. Ankley. 1991. Characterization of the H4IIE Rat Hepatoma Cell Bioassay as a Tool for Assessing Toxic Potency of Planar Halogenated Hydrocarbons in Environmental Samples. *Environ. Sci. Technol.* 25(1):87-92.
- Tillitt, D. E., T. J. Kubiak, G. T. Ankley, and J. P. Giesy. 1993. Dioxin-Like Toxic Potency in Forster's Tern Eggs from Green Bay, Lake Michigan, North America. *Chemosphere* 26(11):2079-2084.
- Tillitt, D. E., K. R. Solomon, E. M. Mihaich, G. Cobb, L. Touart, and T. J. Kubiak. 1998. Role of Exposure Assessment in Characterizing Risks of Endocrine-Disrupting Substances to Wildlife, Pages 39-68 in *Principles and Processes for Evaluating Endocrine Disruption in Wildlife* (R. Kendall, R. Dickerson, J. Giesy, and W. Suk, Eds.). Lewis Publishers, Chelsea, MI.
- Tilson, H. A., G. J. Davis, J. A. McLachlan, and G. W. Lucier. 1979. The Effects of Polychlorinated Biphenyls Given Prenatally on the Neurobehavioral Development of Mice. *Environmental Res.* 18:466-474.
- Tilson, H. A., G. J. Davis, J. A. McLaughlan, and G. W. Lucier. 1979. The Effects of Polychlorinated Biphenyls Given Prenatally on the Neurobehavioral Development of Mice. *Environmental Res.* 18:466-474.
- Tilson, H. A., J. A. Jacobs, and W. J. Rogan. 1990. Polychlorinated Biphenyls and the Developing Nervous System: Cross-Species Comparisons. *Neurotoxicol. Teratol.* 12:239-248.
- Tori, G. M., and T. J. Peterle. 1983. Effects of PCBs on Mourning Dove Courtship Behavior. *Bull. Environm. Contam. Toxicol.* 30:44-49.
- Treon, J. F., and F. P. Cleveland. 1955. Toxicity of Certain Chlorinated Hydrocarbon Insecticides for Laboratory Animals with Special Reference to Aldrin and Dieldrin. *J. Agr. Food Chem.* 3:402-408.
- Trick, J. A. 1982. Reproductive Success and Foraging Success As Related to Populations of Forster's Terns (*Sterna forsteri*) on Green Bay, Wisconsin. Masters Thesis, University of Wisconsin, Green Bay.
- Trippel, E. A. 1995. Age at Maturity as a Stress Indicator in Fisheries. Biological Processes Related to Reproduction in Northwest Atlantic Groundfish Populations That Have Undergone Declines. *BioScience* 45(11):759-771.
- Tri Rivers Nature Area Marketing Committee, and Outagamie County UW-Extension Office. 1996. Tri Rivers Association Tourism Plan. Collection of correspondence and reports.
- Truelove, J. F., J. R. Tanner, I. A. Langlois, R. A. Stapley, D. L. Arnold, and J. C. Mes. 1990. Effect of Polychlorinated Biphenyls on Several Endocrine Reproductive Parameters in the Female Rhesus Monkey. *Arch. Environ. Contam. Toxicol.* 19:939-943.

- Tschirhart, J., and T. D. Crocker. 1987. Economic Valuation of Ecosystems. *Trans. Amer. Fish. Soc.* 116:469-478.
- Tucker, R. E., A. L. Young, and A. P. Gray [eds.]. 1983. *Human and Environmental Risks of Chlorinated Dioxins and Related Compounds*. Plenum Press, New York and London.
- Tumasomis, C. F., B. Bush, and F. D. Baker. 1973. PCB Levels in Egg Yolk Associated with Embryonic Mortality and Deformity of Hatched Chicks. *Arch. Environ. Contam. Toxicol.* 1:312-324.
- Twerdok, L. E., M. W. Curry, J. R. Beaman, J. D. Teska, D. P. Gaver, P. A. Jacobs, and J. T. Zelikoff. 1995. Routine Health Monitoring Methods in an Aquatic Species (*Oryzias latipes*) Used in Toxicological Testing. Prepared by the Society of Environmental Toxicology and Chemistry, Vancouver, BC, November 10, 1995.
- Twiss, M. R., L. Granier, P. Lafrance, and P. G. C. Campbell. 1999. Bioaccumulation of 2,2',5,5'-Tetrachlorobiphenyl and Pyrene by Picoplankton (*Synechococcus leopoliensis*, Cyanophyceae): Influence of Variable Humic Acid Concentrations and pH. *Environ. Toxicol. Chem.* 18(9):2063-2069.
- Tyle, H., M. Egsmose, and N. Harrit. 1991. Mixed-Function Oxygenase in Juvenile Rainbow Trout Exposed to Hexachlorobenzene or 3,3',4,4'-Tetrachlorobiphenyl. *Comp. Biochem. Physiol.* 100C(1/2):161-164.
- Udd, E., and J. D. Fridgen. 1985. Anglers' Perceptions of Toxic Chemicals in Rivers and Sport Fish. Paper presented at the National Wilderness Research Conference, Fort Collins, CO, July 23-26, 1985.
- Ulfstrand, S., and A. Sodergren. 1971. Effect of PCB on Nocturnal Activity in Caged Robins, *Erithacus rubecula* L. *Nature* 231:467.
- University of Wisconsin. 1976. ABC's of PCB's. Prepared as a WIS-SG-76-125 Public Information Report by the Board of Regents of the University of Wisconsin System. 5 pp.
- U.S. ACOE. 1988. Environmental Effects of Dredging - Technical Notes. The Relationship Between PCB Tissue Residues and Reproductive Success of Fathead Minnows. EEDP 01-13, April 1988, U.S. Army Engineer Waterways Experiment Station. 9 pp.
- U.S. ACOE. 1995. Lake Trout Spawning Reef Design for Nearshore Waters of the Great Lakes. Chicago District, U.S. Army Corps of Engineers.
- U.S. ACOE, U.S. EPA, et al. 1992. Protecting the Great Lakes - A Joint Federal/State 5-Year Strategy - Our Environmental Goals and How We Plan to Achieve Them. April 1992 Draft.
- U.S. Bureau of the Census. 1994. Statistical Abstract of the United States. 114th edition. Washington, DC.

U.S. DOI. 1987. Techniques to Measure Damages to Natural Resources, CERCLA 301 Project. Washington, DC.

U.S. DOI. 1989. 1985 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation - Wisconsin. U.S. Dept. of the Interior, Fish and Wildlife Service, and U.S. Dept. of Commerce, Bureau of the Census.

U.S. DOI. 1993. 1991 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation. U.S. Dept. of the Interior, Fish and Wildlife Service, and U.S. Dept. of Commerce, Bureau of the Census; U.S. Government Printing Office, Washington, D.C.; issued March 1993.

U.S. EPA. 1976. National Conference on Polychlorinated Biphenyls, November 19-21, 1975, Chicago, Illinois. Office of Toxic Substances, EPA-560/6-75-004. March. 471 pp.

U.S. EPA. 1976. Criteria Documents for Aldrin/Dieldrin. U.S. Environmental Protection Agency, Rep. EPA-440/9-76-008. 93 pp.

U.S. EPA. 1976. Quality Criteria for Water. U.S. Environmental Protection Agency, Washington, D.C. 256 pp.

U.S. EPA. 1980. Ambient Water Quality Criteria for Polychlorinated Biphenyls. U.S. Environmental Protection Agency, Rep. 440/5-80-068. 211 pp.

U.S. EPA. 1980. Ambient Water Quality Criteria for Aldrin/Dieldrin. U.S. Environmental Protection Agency, Rep. 440/5-80-019. 211 pp.

U.S. EPA. 1982. Economic Impact Analysis of Proposed Effluent Limitations and Standards for the Deink Subcategory in the Pulp, Paper and Paperboard Industry. EPA 440/2-82-014, Prepared for USEPA, Office of Water Regulations and Standards, Washington, DC 20460 by Meta Systems, Inc., Cambridge, MA, Contract Number 68-01-6162, October 1982.

U.S. EPA. 1985. Water Quality Progress Report, Lower Fox River, Wisconsin. U.S. Environmental Protection Agency, Monitoring and Data Support Division, Office of Water, Washington DC 20460, June 1985.

U.S. EPA. 1988. Green Bay/Fox River Mass Balance Executive Summary. EPA-GLNPO, October 1988, 21 pp.

U.S. EPA. 1990. Green Bay/Fox River Mass Balance Program PI Quarterly Status Reports. EPA GLNPO, July 1990, 96 pp.

U.S. EPA. 1992. National Study of Chemical Residues in Fish. Office of Science and Technology, Standards and Applied Science Division, USEPA, EPA 823-R-92-008a and -008b.

U.S. EPA. 1992. EPA National Study of Chemical Residues in Fish. Presented as a November 1992 Press Conference Press Package.

- U.S. EPA. 1992. Community Relations in Superfund: A Handbook. EPA/540/R-92/009. U.S. EPA, Office of Emergency and Remedial Response, Washington, DC.
- U.S. EPA. 1992. Superfund Information Repositories and Administrative Records. U.S. EPA Office of Solid Waste and Emergency Response (OS-510W); EPA520-F-92-002, August 1992.
- U.S. EPA. 1992. The Role of Natural Resource Trustees in the Superfund Process. U.S. EPA, Office of Emergency and Remedial Response, Hazardous Site Evaluation Division (OS-230), Intermittent Bulletin, Volume 1, Number 3, ECO Update, Publication 9345.0-051, March 1992.
- U.S. EPA. 1993. Twenty Questions About the Lake Michigan LaMP. USEPA Fact Sheet, September 1993.
- U.S. EPA. 1993. Interim Report on Data and Methods for Assessment of 2,3,7,8-Tetrachlorodibenzo-p-dioxin Risks to Aquatic Life and Associated Wildlife. Prepared by Environmental Research Laboratory, Office of Research and Development, Duluth, MN. March EPA/600/R-93/055.
- U.S. EPA. 1993. PCBs In Fish Tissue. Proceedings of the U.S. Environmental Protection Agency's National Technical Workshop, Washington, D.C.
- U.S. EPA. 1993. Wildlife Exposure Factors Handbook. Volume II of II. U.S. Environmental Protection Agency Report #EPA/600/R-93/187b.
- U.S. EPA. 1993. Wildlife Exposure Factors Handbook. Volume I of II. U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C. EPA/600/R-93/187a.
- U.S. EPA. 1994. Deposition of Air Pollutants to the Great Waters, First Report to Congress. EPA-453/R-93-055, May 1994, 85 pp.
- U.S. EPA. 1994. Assessment and Remediation of Contaminated Sediments (ARCS) Program; Remediation Guidance Document. USEPA, GLNPO, EPA 905-B94-003, October 1994.
- U.S. EPA. 1994. Assessment and Remediation of Contaminated Sediments (ARCS) Program, Final Summary Report. USEPA, GLNPO, EPA 905-S-94-001. 48 pp.
- U.S. EPA. 1994. Assessment and Remediation of Contaminated Sediments (ARCS) Program, Assessment Guidance Document. USEPA, GLNPO, EPA-905-B94-002. 247 pp.
- U.S. EPA. 1994. Common Chemicals Found at Superfund Sites. 9203.1-17, PB 94-963272, EPA 540/R-94/044, August 1994. U.S. EPA, Office of Emergency and Remedial Response, Washington, DC.
- U.S. EPA. 1994. Common Cleanup Methods At Superfund Sites. 9203.1-16, PB 94-963271, EPA 540/R-94/043, August 1994. U.S. EPA Office of Emergency and Remedial Response, Washington, DC.

U.S. EPA. 1994. Assessment and Remediation of Contaminated Sediments (ARCS) Program, Bench Scale Evaluation of Sediment Treatment Technologies Summary Report. U.S. EPA, GLNPO, EPA 905-R94-023, October 1994.

U.S. EPA. 1994. This Is Superfund - A Citizen's Guide to EPA's Superfund Program. U.S. EPA Office of Emergency and Remedial Response, EPA 540-K-93-008, March 1994.

U.S. EPA. 1994. The Superfund Emergency Response Program - Over a Decade of Protecting Human Health and the Environment. U.S. EPA Office of Emergency and Remedial Response 5202-G, EPA 540/F-94/041, August 1994.

U.S. EPA. 1994. U.S. EPA Proposes Cleanup Plan - Ormet Corporation Superfund Site, Hannibal, Ohio. U.S. EPA Office of Public Affairs, Fact Sheet, March 1994.

U.S. EPA. 1995. Cleaning Up Contaminated Sediment: A Citizens' Guide. EPA 905-K-95-001, January 1995.

U.S. EPA. 1995. EPA's Dioxin Reassessment. Environ. Sci. Technol. 29(1):26A-28A.

U.S. EPA. 1995. EPA Assessment Not Justified. Environ. Sci. Technol. 29(1):31A-32A.

U.S. EPA. 1995. Great Lakes Water Quality Initiative Criteria Documents for the Protection of Wildlife. EPA-820-B-95-008, U.S. EPA, Office of Water, Washington, D.C.

U.S. EPA. 1996. Lake Michigan Mass Budget/Mass Balance Work Plan. Prepared by U.S. EPA GLNPO. 154 pp.

U.S. EPA. 1996. Mining Ideas - Turning a Grant Assistance Program into a Knowledge Base: A Report on the Ecological Protection and Restoration Program in the Great Lakes Basin. U.S. EPA GLNPO, April 1996.

U.S. EPA. 1996. Lake Michigan Mass Balance Study (LMMB) Methods Compendium, Volume 1: Sample Collection Techniques. Draft, Prepared by DynCorp Environmental and Grace Analytical, October 1996.

U.S. EPA. 1996. Lake Michigan Mass Balance Study (LMMB) Methods Compendium, Volume 2: Organic and Mercury Sample Analysis Techniques. Draft, Prepared by DynCorp Environmental and Grace Analytical, October 1996.

U.S. EPA. 1996. Lake Michigan Mass Balance Study (LMMB) Methods Compendium, Volume 3: Metals, Conventional, Radiochemistry, and Biomonitoring Sample Analysis Techniques. Draft, Prepared by DynCorp Environmental and Grace Analytical, October 1996.

U.S. EPA. 1997. U.S. Environmental Protection Agency 1997 Supplementary Fish Consumption Advisory for Michigan's Great Lakes Waters.

- U.S. EPA. 1997. Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments. EPA 540-R-97-006; Interim Final. U.S. Environmental Protection Agency Environmental Response Team, Edison, N.J., June 5, 1997.
- U.S. EPA. 1997. Conference on Federal Managers' Use of CERCLA 106 Order Authority. Potomac, Maryland, May 5-7, 1997.
- U.S. EPA. 1997. Toxic Release Inventory.
- U.S. EPA. 1997. Report on the Effects of the Hot Spot Dredging Operations, New Bedford Harbor Superfund Site, New Bedford, Massachusetts. October 1997.
- U.S. EPA. 1997. CERCLA Section 106 MOU Implementation Notebook.
- U.S. EPA. 1997. The Incidence and Severity of Sediment Contamination in Surface Waters of the United States. 3 vols. (EPA 823-R-97-006) U.S. EPA, Washington, D.C.
- U.S. EPA. 1998. Memorandum of Understanding among the Environmental Protection Agency, United States Coast Guard, Department of Commerce, Department of the Interior, Department of Agriculture, Department of Defense, Department of Energy, and Department of Justice. Concerning the exercise of authority under Section 106 of the Comprehensive Environmental Response, Compensation, and Liability Act.
- U.S. EPA. 1998. Risk Assessment Guidance for Superfund. Volume 1 - Human Health Evaluation Manual (Part D, Standardized Planning, Reporting, and Review of Superfund Risk Assessments), Interim; EPA 540-R-97-033, January 1998.
- U.S. EPA. 1998. Guidelines for Ecological Risk Assessment. Final. U.S. Environmental Protection Agency, Washington, D.C.
- U.S. EPA. 1998. Workshop on the Application of 2,3,7,8-TCDD Toxicity Equivalency Factors to Fish and Wildlife. U.S. Environmental Protection Agency, Chicago, IL. January 20-22.
- U.S. EPA. Undated. Six Basic Questions & Answers Concerning the Great Lakes and Contaminated Sediments. U.S. EPA, GLNPO, EPA 905-K-92-001.
- U.S. FWS. 1981. Wisconsin Islands Wilderness Plan, Green Bay and Gravel Island National Wildlife Refuges, Door County, Wisconsin. U.S. DOI, FWS, Submitted by Horicon National Wildlife Refuge, Mayville, Wisconsin, April 20, 1981.
- U.S. FWS. 1982. Residues of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans in Laurentian Great Lakes Fish. Prepared by David L. Stalling, Ph.D., Chief Chemist for the Columbian National Fisheries Research Laboratory. 27 pp.

U.S. FWS. 1988. Dioxin-Like PCB Isomers Detected in Great Lakes Fish and Sediments. Research Information Bulletin, U.S. Department of the Interior, Fish and Wildlife Service, No. 88-100, Dec. 1988.

U.S. FWS. 1993. Atlas of Green Bay Coastal Wetlands Influenced by Lake Level Changes. Green Bay Special Wetlands Inventory Study. Prepared for the U.S. EPA, Region 5, by the Green Bay Field Office, U.S. Fish & Wildlife Service.

U.S. FWS. 1995. Evaluation of the Re-introduction of Lake Sturgeon into the Waters of the Menominee Reservation. Fisheries Stewardship Accomplishment Report. U.S. FWS Region 3. September 1995.

U.S. FWS. 1995. Great Lakes Fishery Resources Restoration Study. Report to Congress, U.S. FWS Great Lakes Coordination Office, Great Lakes Fishery Resources Offices.

U.S. FWS. 1996. Proceedings, U.S. Fish and Wildlife Service Restoration Workshop. July 15-17, 1996, Sublimity, Oregon.

U.S. FWS. 1996. Preliminary Project Proposal - Additions to Green Bay National Wildlife Refuge, Door County, Wisconsin, and Delta County, Michigan. Draft, June 25, 1996.

U.S. FWS. 1998. Screening-Level Ecological Risk Assessment for Insectivorous Migratory Birds Exposed to 1 PPB 2,3,7,8 Tetrachlorodibenzo-p-dioxin. Unpublished report for Missouri Dioxin Project.

U.S. FWS. 1998. Great Lakes Native Fish Restoration - Lake Sturgeon *Acipenser fulvescens*. Annual Fisheries Stewardship Progress Report, Lake Michigan, Green Bay Fisheries Resources Office, 1015 Challenger Court, Green Bay, WI 54311-8331.

U.S. FWS, and B. of the C. U.S. DOC. 1996. National Survey of Fishing, Hunting, and Wildlife-Associated Recreation. FHW/96 NAT, Issued November 1997.

USGS (1981): Marinette, Wisconsin-Michigan. USGS. . . Metric topographic map. 1:100,000

USGS (1983): Manistique, Michigan. USGS. . . Metric topographic map. 1:100,000

USGS (1984): Appleton, Wisconsin. USGS. . . Metric topographic map. 1:100,000

USGS (1984): Shawano, Michigan. USGS. . . Metric topographic map. 1:100,000

USGS (1984): Sturgeon Bay, Wisconsin. USGS. . . Metric topographic map. 1:100,000

USGS (1984): Washington Island, Wisconsin - Michigan. USGS. . . Metric topographic map. 1:100,000

U.S. Water Resources Council. 1983. Economic and Environmental Principles and Guidelines for Water and Related Land Resources Implementation Studies. Washington, D.C. March 10.

UW Sea Grant College Program. 1979. Green Bay: Portrait of a Waterway. WIS-SG-79-130. 21 pp.

UW Sea Grant Institute. 1981. A Select Bibliography of Public Information Materials About Polychlorinated Biphenyls (PCBs). WIS-SG-81-137, Published in Cooperation with the Great Lakes Sea Grant Network. February 1981. 12 pp.

UW Sea Grant Institute. 1994. 1994-96 Program Directory of the University of Wisconsin Sea Grant Institute. UW Sea Grant Publication No. WISCU-Q-94-001. 69 pp.

UW Sea Grant Institute. 1995. List of Available Reprints and Internal, Public Information, Technical, Advisory, Special, and Educational Reports.

Valoppi, L., M. Petreas, R. Donohoe, L. Sullivan, and C. Callahan. 1998. Use of PCB Congener and Homologue Analysis in Ecological Risk Assessments. U.S. Environmental Protection Agency, Region 9 Biological Technical Advisory Group, January 1998.

Vamvakas, A., J. Keller, and M. Dufresne. 1996. In Vitro Induction of CYP1A1-Associated Activities in Human and Rodent Cell Lines by Commercial and Tissue-Extracted Halogenated Aromatic Hydrocarbons. Environ. Toxicol. Chem. 15(6):814-823.

Van Bavel, B., P. Andersson, H. Wingfors, J. Ahgren, P.-A. Bergqvist, L. Norrgren, C. Rappe, and M. Tysklind. 1996. Multivariate Modeling of PCB Bioaccumulation in Three-Spined Stickleback (*Gasterosteus aculeatus*). Environ. Toxicol. Chem. 15(6):947-954.

Van Birgelen, A., M. J. DeVito, J. M. Akins, D. G. Ross, J. J. Diliberto, and L. S. Birnbaum. 1996. Relative Potencies of Polychlorinated Dibenzo-p-dioxins, Dibenzofurans, and Biphenyls Derived from Hepatic Porphyrin Accumulation in Mice. Toxicol. Appl. Pharmacol. 138:98-109.

Van den Berg, M., L. Birnbaum, B. T. C. Bosveld, B. Brunstrom, P. Cook, M. Feeley, J. P. Giesy, A. Hanberg, R. Hasegawa, S. W. Kennedy, T. J. Kubiak, J. C. Larsen, F. X. R. Van Leeuwen, A. K. D. Liem, C. Nolt, R. E. Peterson, L. Poellinger, S. Safe, D. Schrenk, D. Tillitt, M. Tysklind, M. Tounes, F. Waern, and T. Zacharewski. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs and PCDFs for Humans and Wildlife. Environ. Health Perspec. 106:775-792.

Van den Berg, M., B. L. H. J. Craane, T. Sinnige, S. Van Mourik, S. Dirksen, T. Boudewijn, M. Van der Gaag, I. J. Lutke-Schipholt, B. Spenkelink, and A. Brouwer. 1994. Biochemical and Toxic Effects of

Polychlorinated Biphenyls (PCBs), Dibenzo-p-dioxins (PCDDs) and Dibenzofurans (PCDFs) in the Cormorant (*Phalacrocorax carbo*) After In Ovo Exposure. *Environ. Toxicol. Chem.* 13(5):803-816.

Van den Berg, M., J. De Jongh, H. Poiger, and J. R. Olson. 1994. The Toxicokinetics and Metabolism of Polychlorinated Dibenzo-p-dioxins (PCDDs) and Dibenzofurans (PCDFs) and Their Relevance for Toxicity. *Critical Reviews in Toxicology* 24(1):1-74.

Van den Heuvel, M. R., K. R. Munkittrick, G. J. Van der Kraak, M. E. McMaster, C. B. Portt, M. R. Servos, and D. G. Dixon. 1994. Survey of Receiving-Water Environmental Impacts Associated with Discharges from Pulp Mills. 4. Bioassay-Derived 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration in White Sucker (*Catostomus commersoni*) in Relation to Biochemical Indicators of Impact. *Environ. Toxicol. Chem.* 13:1117-1126.

Van den Heuvel, M. R., M. R. Servos, K. R. Munkittrick, N. C. Bols, and D. G. Dixon. 1996. Evidence for a Reduction of 2,3,7,8-TCDD Toxic Equivalent Concentrations in White Sucker (*Catostomus commersoni*) Exposed to Bleached Kraft Pulp Mill Effluent, Following Process and Treatment Improvements. *J. Great Lakes Res.* 22(2):264-279.

Van der Kraak, G. J., K. R. Munkittrick, M. E. McMaster, C. B. Portt, and J. P. Chang. 1992. Exposure to Bleached Kraft Pulp Mill Effluent Disrupts the Pituitary-Gonadal Axis of White Sucker at Multiple Sites. *Toxicol. Appl. Pharmacol.* 115:224-233.

Van der Oost, R., H. Heida, A. Opperhuizen, and N. P. E. Vermeulen. 1991. Bioaccumulation of Organic Micropollutants in Different Aquatic Organisms: Sublethal Toxic Effects on Fish. *Aquatic Toxicology and Risk Assessment* 14:166-180.

Van der Oost, R., H. Heida, A. Opperhuizen, and N. P. E. Vermeulen. 1991. Interrelationships Between Bioaccumulation of Organic Trace Pollutants (PCBs, Organochlorine Pesticides and PAHs), and MFO-Induction in Fish. *Comp. Biochem. Physiol.* 100C(1/2):43-47.

Vanderploeg, H. A. 1981. Seasonal Particle-Size Selection by *Diaptomus sicilis* in Offshore Lake Michigan. *Can. J. Fish. Aquat. Sci.* 38:504-517.

Veith, G. D. 1972. Recent Fluctuations of Chlorobiphenyls (PCBs) in the Green Bay, Wisconsin, Region. *Environ. Health Perspec.* Apr:51-54.

Veith, G. D. 1975. Baseline Concentrations of Polychlorinated Biphenyls and DDT in Lake Michigan Fish, 1971. *Pestic. Monit. J.* 9(1):21-29.

Veith, G. D., D. L. DeFoe, and B. V. Bergstedt. 1979. Measuring and Estimating the Bioconcentration Factor of Chemicals in Fish. *J. Fish. Res. Board Can.* 36:1040-1048.

Veith, G. D., and P. Kosian. 1983. Estimating Bioconcentration Potential from Octanol/Water Partition Coefficients, Pages 269-282 in *Physical Behavior of PCBs in the Great Lakes* (D. MacKay, S. Paterson, S.

Eisenreich, and M. Simmons, Eds.). Ann Arbor Science Publishers, Ann Arbor, MI.

Veith, G. D., D. W. Kuehl, E. N. Leonard, K. Welch, and G. Pratt. 1981. Fish, Wildlife, and Estuaries: Polychlorinated Biphenyls and Other Organic Chemical Residues in Fish from Major United States Watersheds Near the Great Lakes, 1978. *Pestic. Monit. J.* 15(1):1-8.

Veith, G. D., and G. F. Lee. 1971. Chlorobiphenyls (PCBs) in the Milwaukee River. *Water Research* 5:1107-1115.

Velleux, M. 1992. Scenario Results from LFRM -- No Action, 100 Year Event, Upstream Remediation and Flow Clipping. Memorandum Reports, ASCI, September 1992, 30 pp.

Velleux, M., and D. Endicott. 1994. Development of a Mass Balance Model for Estimating PCB Export from the Lower Fox River to Green Bay. *J. Great Lakes Res.* 20(2):416-434.

Velleux, M., D. Endicott, J. Steuer, S. Jaeger, and D. Patterson. 1995. Long-Term Simulation of PCB Export from the Fox River to Green Bay. *J. Great Lakes Res.* 21(3):359-372.

Vena, J. E. 1992. Risk Perception, Reproductive Health Risk and Consumption of Contaminated Fish in a Cohort of New York State Anglers. New York State Angler Cohort Study Year One Progress Report, SUNY-Buffalo.

Verbrugge, D. A., J. P. Giesy, M. A. Mora, L. L. Williams, R. Rossman, R. A. Moll, and M. Tuchman. 1995. Concentrations of Dissolved and Particulate Polychlorinated Biphenyls in Water from the Saginaw River, Michigan. *J. Great Lakes Res.* 21:219-233.

VERSAR. 1976. PCBs in the United States Industrial Use and Environmental Distribution. Task 1, February 25, 1976, Final Report; USEPA Office of Toxic Substances. EPA 560/6-76-005.

Viney, I., and R. J. F. Bewley. 1990. Preliminary Studies on the Development of a Microbiological Treatment for Polychlorinated Biphenyls. *Arch. Environ. Contam. Toxicol.* 19:789-796.

Virgo, B. B., and G. D. Bellward. 1975. Effects of Dietary Dieldrin on Reproduction in the Swiss-Vancouver (SWV) Mouse. *Envir. Physiol. Biochem.* 5:440-450.

Viscusi, W. K. 1993. The Value of Risks to Life and Health. *Journal of Economic Literature* XXXI(December):1912-1946.

Viscusi, W. K., W. A. Magat, and J. Huber. 1991. Pricing Environmental Health Risks: Survey Assessments of Risk-Risk and Risk-Dollar Trade-Offs for Chronic Bronchitis. *J. Environ. Econ. Manag.* 21:32-51.

Von der Decken, A., T. Olin, and P.-A. Bergqvist. 1992. Physiological Properties of Liver, Gonads and Muscle During Maturation of Female

Atlantic Salmon, *Salmo salar*: Comparison Between a Control and Xenobiotics Containing Fish Feed. *Comp. Biochem. Physiol.* 101C(3):525-529.

Vos, J. G. 1972. Toxicology of PCBs for Mammals and for Birds. *Environ. Health Perspec.* April:105-117.

Vos, J. G., and M. I. Luster. 1989. Immune Alterations, Pages 295-324 in *Halogenated Biphenyls, Terphenyls, Naphthalenes, Dibenzodioxins and Related Products, Topics in Environmental Health ed., Vol. 4* (R. D. Kimbrough and A. A. Jensen, Eds.). Elsevier, New York.

Voss, S. D., D. W. Shelton, and J. D. Hendricks. 1982. Effects of Dietary Aroclor 1254 and Cyclopropene Fatty Acids on Hepatic Enzymes in Rainbow Trout. *Arch. Environ. Contam. Toxicol.* 11:87-91.

Waid, J. S. 1986. PCBs and the Environment, Vol. I. CRC Press City, Boca Raton, FL.

Walker, A. I. T., E. Thorp, and D. E. Stevenson. 1972. The Toxicology of Dieldrin; Long Term Studies in Mice. *Food and Cosmetic Toxicology* 11:415.

Walker, C. H. 1990. Persistent Pollutants in Fish-Eating Sea Birds--Bioaccumulation, Metabolism, and Effects. *Aquat. Toxicol.* 17:293-324.

Walker, C. H. 1995. Biochemical Biomarkers in Ecotoxicology - Some Recent Developments. *The Science of the Total Environment* 171-189-195:189-195.

Walker, M. K., P. M. Cook, A. R. Batterman, B. C. Butterworth, C. Berini, J. J. Libal, L. C. Hufnagle, and R. E. Peterson. 1994. Translocation of 2,3,7,8-Tetrachlorodibenzo-p-dioxin from Adult Female Lake Trout (*Salvelinus namaycush*) to Oocytes: Effects on Early Life Stage Development and Sac Fry Survival. *Can. J. Fish. Aquat. Sci.* 51:1410-1419.

Walker, M. K., P. M. Cook, B. C. Butterworth, E. W. Zabel, and R. E. Peterson. 1996. Potency of a Complex Mixture of Polychlorinated Dibenzo-p-dioxin, Dibenzofuran, and Biphenyl Congeners Compared to 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Causing Fish Early Life Stage Mortality. *Fundamental and Applied Toxicology* 30:178-186.

Walker, M. K., L. C. Hufnagle, M. K. Clayton, and R. E. Peterson. 1992. An Egg Injection Method for Assessing Early Life Stage Mortality of Polychlorinated Dibenzo-p-dioxins, Dibenzofurans, and Biphenyls in Rainbow Trout (*Oncorhynchus mykiss*). *Aquat. Toxicol.* 22:15-38.

Walker, M. K., and R. E. Peterson. 1991. Potencies of Polychlorinated Dibenzo-p-dioxin, Dibenzofuran, and Biphenyl Congeners, Relative to 2,3,7,8-Tetrachlorodibenzo-p-dioxin, for Producing Early Life Stage Mortality in Rainbow Trout (*Oncorhynchus mykiss*). *Aquat. Toxicol.* 21:219-238.

Walker, M. K., and R. E. Peterson. 1992. Toxicity of Polychlorinated Dibenzo-p-dioxins, Dibenzofurans, and Biphenyls During Early Development in Fish, Pages 195-202 in *Chemically-Induced Alterations in Sexual and*

Functional Development: The Human/Wildlife Connection (,). Princeton Scientific Publishing Co., Princeton, NJ.

Walker, M. K., and R. E. Peterson. 1994. Toxicity of 2,3,7,8-Tetrachlorodibenzo-p-dioxin to Brook Trout (*Salvelinus fontinalis*) During Early Development. *Environ. Toxicol. Chem.* 13(5):817-820.

Walker, M. K., J. M. Spitsbergen, J. R. Olson, and R. E. Peterson. 1991. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Toxicity During Early Life Stage Development of Lake Trout (*Salvelinus namaycush*). *Can. J. Fish. Aquat. Sci.* 48:875-883.

Wallace, J. C., and R. A. Hites. 1996. Diurnal Variations in Atmospheric Concentrations of Polychlorinated Biphenyls and Endosulfan: Implications for Sampling Protocols. *Environ. Sci. Technol.* 30:444-446.

Waller, C. L., D. L. Minor, and J. D. McKinney. 1995. Using Three-Dimensional Quantitative Structure-Activity Relationships to Examine Estrogen Receptor Binding Affinities of Polychlorinated Hydroxybiphenyls. *Environ. Health Perspec.* 103(7-8):702-707.

Wallin, B. K., and A. J. Condren. 1981. Fate of Toxic and Nonconventional Pollutants in Wastewater Treatment Systems Within the Pulp, Paper, and Paperboard Industry. EPA-600/2-81-158, technical report prepared by E.C. Jordan Co., Inc., August 1981.

Walsh, R. G., D. M. Johnson, and J. R. McKean. 1988. Review of Outdoor Recreation Economic Demand Studies with Nonmarket Benefit Estimates, 1968-1988. Colorado Water Resources Research Institute Report, prepared by Colorado State University, Department of Agricultural and Resource Economics. June.

Wannemacher, R., A. Rebstock, E. Kulzer, D. Shrenk, and K. W. Bock. 1992. Effects of 2,3,7,8-Tetrachlorodibenzo-p-dioxin on Reproduction and Oogenesis in Zebrafish (*Brachydanio rerio*). *Chemosphere* 24(9):1361-1368.

Water Resource Council. 1983. Principles and Guidelines for Water and Related Land Resources Implementation Studies. Washington, DC.

WDNR. 1974. Wisconsin's Lake Michigan Commercial Fisheries 1940-1973. WDNR, Division of Forestry, Wildlife and Recreation, Bureau of Fish and Wildlife Management, Fish Management Section Report Number 75.

WDNR. 1976. Wisconsin's Great Lakes Commercial Fisheries for 1974. WDNR Bureau of Fish and Wildlife Management, Division of Forestry, Wildlife, and Recreation. Fish Management Section Report No. 86, March, 17pp.

WDNR. 1979. Brillion Wildlife Area Master Plan. Concept Element and Implementation Plan, Approved July 26, 1979.

WDNR. 1979. Mukwa Wildlife Area Master Plan. Concept Element and Implementation Element, August 21, 1979.

WDNR. 1981. Poygan Marsh Wildlife Area Master Plan. Concept Element and Implementation Element, Approved November 16, 1981.

WDNR. 1981. Rat River Wildlife Area Master Plan. December 4, 1981.

WDNR. 1981. Deer Creek Wildlife Area Master Plan. Concept Element and Implementation Element, November 10, 1981.

WDNR. 1982. Kewaunee Fish and Wildlife Area Master Plan. Concept Element and Implementation Element, Approved June 8, 1982.

WDNR. 1982. Holland Wildlife Area Management Plan. Concept Element and Implementation Element, Approved September 15, 1982.

WDNR. 1982. Killsnake Wildlife Area Master Plan. Concept Element and Implementation Element, Approved January 27, 1982.

WDNR. 1982. Outagamie Wildlife Area Management Plan. Concept Element, Approved December 31, 1982.

WDNR. 1983. Maine Wildlife Area Management Plan. Concept Element and Implementation Element, Approved November 15, 1983.

WDNR. 1984. Wisconsin Water Quality: 1984 Report to Congress. Wisconsin Department of Natural Resources, May 1984.

WDNR. 1986. Mack Wildlife Area Management Plan. Concept Element and Implementation Element, January 15, 1986.

WDNR. 1986. Collins Marsh Wildlife Area Master Plan. Concept Element Draft and Implementation Element approved November 6, 1986.

WDNR. 1988. Wisconsin Waterfowl Consumption Advisory. Wisconsin Division of Health, Wisconsin Department of Natural Resources.

WDNR. 1989. Procedures for Calculating Water Quality Based Effluent Limitations for Toxic and Organoleptic Substances Discharged to Surface Waters. Chapter NR 106. 15 pp.

WDNR. 1989. Surface Water Quality Criteria for Toxic Substances. Chapter NR 105. 33 pp.

WDNR. 1989. Winnebago Comprehensive Management Plan. Federal Aid Project FW-19-P-1, Wisconsin Department of Natural Resources.

WDNR. 1989. Hortonville Bog State Natural Area No. 214 Management Plan. March 21, 1989.

WDNR. 1989. Shaky Lake State Natural Area No. 180 Management Plan. March 21, 1989.

WDNR. 1991. Water Quality Antidegradation. Chapter NR 207. 16 pp.

WDNR. 1991. Boating Pressure on Wisconsin's Lakes and Rivers: Results of the 1989-1990 Wisconsin Recreational Boating Study, Phase 1. Technical Bulletin No. 174, Madison, WI.

WDNR. 1991. Wolf River Bottoms Wildlife Area - Maine Creek Farm. Feasibility Study and Environmental Analysis, February 4, 1991.

WDNR. 1991. Lower Fox River Basin Water Quality Management Plan. Public Review Draft, July 1991, Publ WR 291-91.

WDNR. 1992. Milwaukee River Basin Integrated Management Plan, Volume Four. Milwaukee River South Watershed Integrated Resource Management Plan.

WDNR. 1992. Wisconsin Water Quality Assessment Report to Congress - 1992. WDNR Publ. WR254-92-REV, 220 pp.

WDNR. 1992. Boater Attitudes and Experiences: Results of the 1989-1990 Wisconsin Recreational Boating Study, Phase 2. Technical Bulletin No. 180, Madison, WI.

WDNR. 1993. Comparative Report of License Sales. 6 pp.

WDNR. 1993. Water Quality Standards for Wisconsin Surface Waters. Chapter NR 102. 21 pp.

WDNR. 1993. Shiocton Mitigation Site Management Plan, Extension to Mack Wildlife Area. May 24, 1993; Revisions 2/16/95 and 3/3/95.

WDNR. 1994. Health Guide for People Who Eat Sport Fish from Wisconsin Waters. WDNR, Wisconsin Division of Health, PUBL-IE-019, 1976-1994.

WDNR. 1994. The 1994 Wisconsin Deer Harvest Report. Vol. 5, Issue 2. Madison, WI.

WDNR. 1994. Little Lake Butte des Morts Deposit A Site, Proposed Plan, Neenah, Wisconsin. November 1994, Fact Sheet.

WDNR. 1995. Lake Michigan Integrated Fisheries Management Plan 1995-2001. Administrative Report No. 39. Wisconsin Department of Natural Resources, Bureau of Fisheries Management, Madison, Wisconsin, February 1995.

WDNR. 1997. Polychlorinated Biphenyl (PCB) Contaminated Sediment in the Lower Fox River: Modeling Analysis of Selective Sediment Remediation. Wisconsin Dept. of Natural Resources Bureau of Watershed Management, PUBL-WT-482-97, February 1997.

WDNR. 1997. Important Health Information for People Eating Fish from Wisconsin Waters. Wisconsin Division of Health and Wisconsin Department of Natural Resources, PUB No. FH824 97, 1997.

WDNR. 1997. Chapter NR 102, Water Quality Standards for Wisconsin Surface Waters. Wisconsin Administrative Code; Register August 1997.

WDNR. 1997. Chapter NR 105, Surface Water Quality Criteria and Secondary Values for Toxic Substances. Wisconsin Administrative Code; Register August 1997.

WDNR. 1997. Chapter NR 106, Procedures for Calculating Water Quality Based Effluent Limitations for Toxic and Organoleptic Substances Discharged to Surface Waters. Wisconsin Administrative Code; Register August 1997.

WDNR. 1997. Chapter NR 207, Water Quality Antidegradation. Wisconsin Administrative Code; Register August 1997.

WDNR. 1997. Nonpoint Source Control Plan for the Duck, Apple and Ashwaubenon Creeks Priority Watershed Project. Publication WT-493-97, The Wisconsin Nonpoint Source Water Pollution Abatement Program, June 1997.

WDNR. 1998. Assessment of PCBs in Sediment of the Lower Fox River from De Pere Dam to Green Bay. September 1995 Field Sampling Results, PUBL-WT-519-98, August 1998.

WDNR. 1999. Important Health Information for People Eating Fish from Wisconsin Waters. Wisconsin Division of Health and Wisconsin Department of Natural Resources, PUB No. FH824 99 Rev.

WDNR, WDATCP, Brown County Land Conservation Department, Calumet County Land Conservation Department, Bay Lake Regional Planning Commission, Local Units of Government, and East River Watershed Advisory Committee. 1993. A Nonpoint Source Control Plan for the East River Priority Watershed Project. Publication WR-274-93, March 1993.

WDNR, WDATCP, Oconto County Land Conservation Department, and Shawano County Land Conservation Department. 1997. Nonpoint Source Control Plan for the Pensaukee River Priority Watershed Project, Project Summary. Publication WT-485; March 1997.

WDNR, WDATCP, Oconto County Land Conservation Department, and Shawano County Land Conservation Department. 1997. Nonpoint Source Control Plan for the Pensaukee River Priority Watershed: The Wisconsin Runoff Management Program. Publication WT-484; March 1977.

WDNR, and WDOH. 1998. Important Health Information for People Eating Fish from Wisconsin Waters. PUB No. FH824 98REV.

Weber, J. B., and E. Mrozek. 1979. Polychlorinated Biphenyls: Absorption and Translocation by Plants, and Inactivation by Activated Carbon. Bull. Environm. Contam. Toxicol. 23:412-417.

Weber, L. J. [ed.]. 1982. Aquatic Toxicology, Vol. 1. Raven Press, New York.

Wehler, E. K., L. Lindberg, C.-J. Jonsson, and A. Bergman. 1993. Tissue Retention and Metabolism of 2,3,4,4'-Pentachlorobiphenyl in Mink and Mouse. Chemosphere 27:2397-2412.

- Welsch, F. 1985. Effects of Acute or Chronic Polychlorinated Biphenyl Ingestion on Maternal Metabolic Homeostasis and on the Manifestations of Embryotoxicity Caused by Cyclophosphamide in Mice. *Arch. Toxicol.* 57:104-113.
- Wenning, R. J., M. A. Harris, M. J. Unga, D. J. Paustenbach, and H. Bedbury. 1992. Chemometric Comparisons of Polychlorinated Dibenzo-p-Dioxin and Dibenzofuran Residues in Surficial Sediments from Newark Bay, New Jersey and Other Industrialized Waterways. *Arch. Environ. Contam. Toxicol.* 22:397-413.
- Weseloh, D. V., C. A. Bishop, R. J. Norstrom, and G. A. Fox. 1991. Monitoring Levels and Effects of Contaminants in Herring Gull Eggs on the Great Lakes, 1974-1990. Pages 29-31, Abstracts from the papers given at the Cause-Effects Linkages II Symposium. September 27-28, 1991. Michigan Audubon Society, Lansing, Michigan.
- Weseloh, D. V., and B. Collier. 1995. The Rise of the Double-Crested Cormorant in the Great Lakes: Winning the War against Contaminants. Environment Canada Fact Sheet Number En 40-222/2-1995E.
- Weseloh, D. V., T. W. Custer, and B. M. Braune. 1989. Organochlorine Contaminants in Eggs of Common Terns from the Canadian Great Lakes, 1981. *Environ. Pollut.* 59:141-160.
- Weseloh, D. V., and P. J. Ewins. 1994. Characteristics of a Rapidly Increasing Colony of Double-Crested Cormorants (*Phalacrocorax auritus*) in Lake Ontario: Population Size, Reproductive Parameters and Band Recoveries. *J. Great Lakes Res.* 20(2):443-456.
- Weseloh, D. V., P. J. Ewins, and K. A. Pettit. 1995. Continued Growth of the Double-Crested Cormorant Populations on the Great Lakes. Abstract. *Bull. Colon. Waterbird Soc.* 19:2.
- Weseloh, D. V., P. J. Ewins, J. Struger, P. Mineau, C. A. Bishop, S. Postupalsky, and J. P. Ludwig. 1995. Double-Crested Cormorants of the Great Lakes: Changes in Population Size, Breeding Distribution and Reproductive Output Between 1913 and 1991. *Colonial Waterbirds* 18:48-59.
- Weseloh, D. V., S. M. Teeple, and M. Gilbertson. 1983. Double-Crested Cormorants of the Great Lakes: Egg-Laying Parameters, Reproductive Failure, and Contaminant Residues in Eggs, Lake Huron 1972-1973. *Can. J. Zool.* 61:427-436.
- Weseloh, D. V. C., P. J. Ewins, J. Struger, P. Mineau, and R. J. Norstrom. 1994. Geographical Distribution of Organochlorine Contaminants and Reproductive Parameters in Herring Gulls on Lake Superior in 1983. *Environmental Monitoring and Assessment* 29:229-251.
- Weseloh, D. V. C., J. Struger, and C. Hebert. 1994. White Pekin Ducks (*Anas platyrhynchos*) as Monitors of Organochlorine and Metal Contamination in the Great Lakes. *J. Great Lakes Res.* 20:277-288.

West, P. C. 1989. Invitation to Poison? Detroit Minorities and Toxic Fish Consumption from the Detroit River. Ann Arbor: University of Michigan School of Natural Resources.

West, P. C. 1992. Invitation to Poison? Detroit Minorities and Toxic Fish Consumption from the Detroit River, Pages 96-99 in Race and the Incidence of Environmental Hazards: A Time for Discourse (B. Bryant and P. Mohai, Eds.). Westview Press, Ann Arbor.

West, P. C. 1992. Health Concerns for Fish-Eating Tribes? Government Assumptions Are Much Too Low. EPA Journal 18(1):15-16.

West, P. C., J. M. Fly, F. Larkin, and R. W. Marans. 1992. Minority Anglers and Toxic Fish Consumption: Evidence from a Statewide Survey of Michigan, Pages 100-114 in Race and the Incidence of Environmental Hazards: A Time for Discourse (B. Bryant and P. Mohai, Eds.). Westview Press, Ann Arbor.

West, P. C., J. M. Fly, R. Marans, F. Larkin, and D. Rosenblatt. 1993. 1991-92 Michigan Sport Anglers Fish Consumption Study. Final Report to the Michigan Great Lakes Protection Fund, Michigan Dept. of Natural Resources. University of Michigan, School of Natural Resources, Natural Resource Sociology Research Lab. Technical Report #6, May 1993.

West, P. C., M. Fly, R. Marans, and D. Rosenblatt. 1993. Minorities and Toxic Fish Consumption: Implications for Point Discharge Policy in Michigan.

West, P. C., M. J. Fly, R. Marans, F. Larkin, and D. Rosenblatt. 1993. 1991-92 Michigan Sport Anglers Fish Consumption Study. University of Michigan, Natural Resource Sociology Research Lab Technical Report No. 6. Executive Summary and Review. May.

Westin, D. T., C. E. Olney, and B. A. Rogers. 1983. Effects of Parental and Dietary PCBs on Survival, Growth, and Body Burdens of Larval Striped Bass. Bull. Environm. Contam. Toxicol. 30:50-57.

White, D. H., and E. Cromartie. 1977. Residues of Environmental Pollutants and Shell Thinning in Merganser Eggs. The Wilson Bulletin 89:532-542.

White, D. H., and D. J. Hoffman. 1995. Effects of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans on Nesting Wood Ducks (*Aix sponsa*) at Bayou Meto, Arkansas. Environ. Health Perspec. 103(Supplement 4):37-39.

White, D. H., and J. T. Seginak. 1994. Dioxins and Furans Linked to Reproductive Impairment in Wood Ducks at Bayou Meto, Arkansas. J. Wildl. Mgmt. 58:100-106.

White, R., S. Jobling, S. A. Hoare, J. P. Sumpter, and M. G. Parker. 1994. Environmentally Persistent Alkylphenolic Compounds Are Estrogenic. Endocrinology 135(1):175-182.

Whitemore, F. C. 1977. A First Order Mass Balance Model for the Sources, Distribution and Fate of PCBs in Environment. EPA 560/6-77-006.

Whittington, D., G. Cassidy, D. Amaral, E. McClelland, H. Wand, and C. Poulos. 1994. The Economic Value of Improving the Environmental Quality of Galveston Bay. Prepared by the Department of Environmental Sciences and Engineering, University of North Carolina at Chapel Hill.

Wiemeyer, S. N., C. M. Bunck, and A. J. Krynetsky. 1988. Organochlorine Pesticides, Polychlorinated Biphenyls, and Mercury in Osprey Eggs--1970-79--and Their Relationships to Shell Thinning and Productivity. Arch. Environ. Contam. Toxicol. 17:767-787.

Wiemeyer, S. N., C. M. Bunck, and C. J. Stafford. 1993. Environmental Contaminants in Bald Eagle Eggs - 1980-1984 - and Further Interpretations of Relationships to Productivity and Shell Thickness. Arch. Environ. Contam. Toxicol. 24:213-227.

Wiemeyer, S. N., T. G. Lamont, C. M. Bunck, C. R. Sindelar, F. J. Gramlich, J. D. Fraser, and M. A. Byrd. 1984. Organochlorine Pesticide, Polychlorobiphenyl, and Mercury Residues in Bald Eagle Eggs - 1969-1979 - and Their Relationships to Shell Thinning and Reproduction. Arch. Environ. Contam. Toxicol. 13:529-549.

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. 6:50-55.

Wiemeyer, S. N., and R. D. Porter. 1970. DDE Thins Eggshells of Captive American Kestrels. Nature 227:737-738.

Wiley, A. J., B. F. Lueck, R. H. Scott, and T. F. Wisniewski. 1960. Commercial-Scale Operation of Turbine Aeration on Wisconsin Rivers. Journal / Water Pollution Control Federation 32(2):186-194.

Wiley, A. J., B. F. Lueck, R. H. Scott, and T. F. Wisniewski. 1962. Commercial-Scale Stream Reaeration. Journal / Water Pollution Control Federation 34(4):401-411.

Wilken, A., C. Bock, M. Bokern, and H. Harms. 1995. Metabolism of Different PCB Congeners in Plant Cell Cultures. Environ. Toxicol. Chem. 14(12):2017-2022.

Willford, W. A. 1988. Persistent Toxic Substances and the Health of Fish Communities in the Great Lakes, Pages 549-555 in Toxic Contaminants and Ecosystem Health; a Great Lakes Focus (M. S. Evans, Ed.). John Wiley & Sons, Inc., New York.

Willford, W. A., R. A. Bergstedt, W. H. Berlin, N. R. Foster, R. J. Hesselberg, M. J. Mac, D. R. May Passino, R. E. Reinert, and D. V. Rottiers. 1981. Chlorinated Hydrocarbons as a Factor in the Reproduction and Survival of Lake Trout (*Salvelinus namaycush*) in Lake Michigan:

Introduction and Summary. Technical Papers of the U.S. Fish and Wildlife Service 105:1-7.

Williams, L., and J. P. Giesy. 1995. Characterization Studies of a Semi-automated Separation Method for Analysis of Non-ortho Substituted Polychlorinated Biphenyl (PCB) Congeners in Environmental Samples. *Toxicological and Environmental Chemistry* 51:229-241.

Williams, L. L., and J. P. Giesy. 1992. Relationships Among Concentrations of Individual Polychlorinated Biphenyl (PCB) Congeners, 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents (TCDD-EQ), and Rearing Mortality of Chinook Salmon (*Oncorhynchus tshawytscha*) Eggs from Lake Michigan. *J. Great Lakes Res.* 18(1):108-124.

Williams, L. L., J. P. Giesy, N. DeGalan, D. A. Verbrugge, D. E. Tillitt, G. T. Ankley, and R. L. Welch. 1992. Prediction of Concentrations of 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents from Total Concentrations of Polychlorinated Biphenyls in Fish Fillets. *Environ. Sci. Technol.* 26:1151-1159.

Williams, L. L., J. P. Giesy, D. A. Verbrugge, S. Jurzysty, G. Heinz, and K. Stromborg. 1995. Polychlorinated Biphenyls and 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents in Eggs of Red-Breasted Mergansers Near Green Bay, Wisconsin, USA, in 1977-78 and 1990. *Arch. Environ. Contam. Toxicol.* 29:52-60.

Williams, L. L., J. P. Giesy, D. A. Verbrugge, S. Jurzysty, and K. Stromborg. 1995. Polychlorinated Biphenyls and 2,3,7,8-Tetrachlorodibenzo-p-dioxin Equivalents in Eggs of Double-Crested Cormorants from a Colony near Green Bay, Wisconsin, USA. *Arch. Environ. Contam. Toxicol.* 29:327-333.

Wilson, C. L., and S. Safe. 1998. Mechanisms of Ligand-Induced Aryl Hydrocarbon Receptor-Mediated Biochemical and Toxic Responses. *Toxicol. Pathol.* 26(5):657-671.

Wilson, P. J., and D. E. Tillitt. 1996. Rainbow Trout Embryotoxicity of a Complex Contaminant Mixture Extracted from Lake Michigan Lake Trout. *Marine Environ. Res.* 42 No. 1-4:129-134.

Wisconsin Division of Health. 1987. Study of Sport Fishing and Fish Consumption Habits and Body Burden Levels of PCBs, DDE, and Mercury of Wisconsin Anglers. Final Report to Study Participants. Wisconsin Division of Health and the State Laboratory of Hygiene.

Wobeser, G., N. O. Nielsen, and B. Schiefer. 1975. Mercury and Mink II. Experimental Methyl Mercury Intoxication. *Can. J. Comp. Med.* 40:34-45.

Wofford, H. W., and P. Thomas. 1988. Effects of Xenobiotics on Peroxidation of Hepatic Microsomal Lipids from Striped Mullet (*Mugil cephalus*) and Atlantic Croaker (*Micropogonias undulatus*). *Marine Environ. Res.* 24:285-289.

- Woidich, H., W. Pfannhauser, I. Scheidl, and G. Blaicher. 1978. Polychlorinated Biphenyls in Packaging Material from Recycled Paper. Deut. Lebensmittel-Rundschau 74(3):61-64.
- Woodford, J. E., W. H. Karasov, M. W. Meyer, and L. Chambers. 1998. Impact of 2,3,7,8-TCDD Exposure on Survival, Growth, and Behavior of Ospreys Breeding in Wisconsin, USA. Environ. Toxicol. Chem. 17:1323-1331.
- Wren, C. D. 1991. Cause-Effect Linkages Between Chemicals and Populations of Mink (*Mustela vison*) and Otter (*Lutra canadensis*) in the Great Lakes Basin. Journal of Toxicology and Environmental Health 33:549-586.
- Wren, C. D., D. B. Hunter, J. F. Leatherland, and P. M. Stokes. 1987. The Effects of Polychlorinated Biphenyls and Methylmercury, Singly and in Combination on Mink. II: Reproduction and Kit Development. Arch. Environ. Contam. Toxicol. 16:449-454.
- Wren, C. D., D. B. Hunter, J. F. Leatherland, and P. M. Stokes. 1987. The Effects of Polychlorinated Biphenyls and Methylmercury, Singly and in Combination, on Mink. I: Uptake and Toxic Responses. Arch. Environ. Contam. Toxicol. 16:441-447.
- Wright, L. 1996. Silent Sperm: A Reporter At Large. The New Yorker 71(44):41-55.
- Yamashita, N., S. Tanabe, J. P. Ludwig, H. Kurita, M. E. Ludwig, and R. Tatsukawa. 1993. Embryonic Abnormalities and Organochlorine Contamination in Double-Crested Cormorants (*Phalacrocorax auritus*) and Caspian Terns (*Hydroprogne caspia*) from the Upper Great Lakes in 1988. Environ. Pollut. 79:163-173.
- Yoshimura, H., S. Yoshihara, N. Ozawa, and M. Miki. 1979. Possible Correlation between Induction Modes of Hepatic Enzymes by PCBs and their Toxicity in Rats. Annals N.Y. Acad. Sci.:179-192.
- Young, T. C. 1994. The Role of Contaminant Loads in toxic Chemical Exposure. Great Lakes Research Review 1(1):9-14.
- Zabel, E. W., P. M. Cook, and R. E. Peterson. 1995. Potency of 3,3',4,4',5-Pentachlorobiphenyl (PCB 126), Alone and in Combination with 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD), to Produce Lake Trout Early Life-Stage Mortality. Environ. Toxicol. Chem. 14:2175-2179.
- Zakharov, V. M., and A. V. Yablokov. 1990. Skull Asymmetry in the Baltic Grey Seal: Effects of Environmental Pollution. Ambio 19(5):266-269.
- Zelikoff, J. T. 1994. Fish Immunotoxicology, Pages 71-94 in Immunotoxicology and Immunopharmacology, Second ed. (J. H. Dean, A. E. Munson, and I. Kimber, Eds.). Raven Press, New York.
- Zelikoff, J. T., D. Bowser, K. S. Squibb, and K. Frenkel. 1995. Immunotoxicity of Low Level Cadmium Exposure in Fish: An Alternative Animal Model for Immunotoxicological Studies. Journal of Toxicology and Environmental Health 45:235-248.

Zelikoff, J. T., N. A. Enane, D. Bowser, K. S. Squibb, and K. Frenkel. 1991. Development of Fish Peritoneal Macrophages as a Model for Higher Vertebrates in Immunotoxicological Studies. *Fundamental and Applied Toxicology* 16:576-589.

Zhang, X., E. R. Christensen, and L. Y. Yan. 1993. Fluxes of Polycyclic Aromatic Hydrocarbons to Green Bay and Lake Michigan Sediments. *J. Great Lakes Res.* 19:429-444.

Ziegler, C. K., J. P. Connolly, and B. S. Nisbet. 1995. An Empirical Method for Estimating Suspended Sediment Loads in Rivers. *Water Resources Research*.

Zile, M. H., C. Summer, R. Aulerich, S. J. Bursian, D. E. Tillitt, J. P. Giesy, and T. J. Kubiak. 1997. Retinoids in Eggs and Embryos of Birds Fed Fish from the Great Lakes. *Environmental Toxicology and Pharmacology* 3:277-288.

Zint, M. T., W. W. Taylor, L. Carl, C. C. Edsall, J. Heinrich, A. Sippel, D. Lavis, and T. Schaner. 1995. Do Toxic Substances Pose a Threat to Rehabilitation of Lake Trout in the Great Lakes? A Review of the Literature. *J. Great Lakes Res.* 21 (Supplement 1):530-546.