



Sea Grant Aquaculture in the Great Lakes Region

Publications List

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EXTENSION

CULTURE

- ___ **The Technology of Perch Aquaculture.** R.W. Soderberg, J.T. Quigley. Free. WIS-SG-77-416. 32 pp. WI
- ___ **The Culture of Nonsalmonid Freshwater Fishes: Yellow Perch.** 1986. Discusses the economic feasibility of commercially culturing perch. Free. WIS-SG-86-795. WI
- ___ **A Bibliography on the Culture of Baitfish.** 1989. \$1. MN
- ___ **A Bibliography on the Culture of Walleye.** 1989. \$1. MN
- ___ **A Bibliography on the Culture of Selected Freshwater Fish Species.** 1989. Lists references specific to the intensive and extensive culture of 11 freshwater fish species important in the North Central US. References from articles originally published in scientific journals and other widely published works. \$3. MN
- ___ **Bait Leech: Its Nature and Nurture.** 1981. Explains leech harvesting, marketable species, growth, habitat, feeding, spawning, and culture methods. Free. MN
- ___ **Culturing Fathead Minnows (PIMEPHALES PROMELAS) for Bait in Ohio Farm Ponds.** 1984. The majority of the bait minnows sold in Ohio are imported, which creates problems with the quality of bait and supply. This publication documents local technology for minnow culture. 62 pp. \$7. OHSU-TB-023. OH
- ___ **A Conservative Time Plan for Culture of Fingerling Walleye in Earthen Ponds Located in Upstate New York.** 1988. An overview of current walleye pond culture techniques. Step-by-step procedures used to rear walleye fry to fingerling stage in earthen ponds. \$.50. NY
- ___ **Culture of Fingerling Walleye in Earthen Ponds.** 1989. Fact Sheet. Free. NY
- ___ **Laminaria Cultivation in the Far East and North America.** 1987. Laminaria, a seaweed used for food and chemical extracts, is widely harvested or cultivated in the Far East and North America. This article tells how the NY Marine Biomass Program combined information from Chinese and Japanese cultures with research on growth characteristics in local waters to test the feasibility of large-scale cultivation in the northeastern U.S.A. Free. NY
- ___ **Getting Started in Shellfish Mariculture.** 1984. Fact Sheet No. 300.20. \$.50. NY. *Order this publication from Cornell Distribution Center, 7 Research Park, Ithaca NY 14850.
- ___ **Tilapia Culture in Northern Climates.** 1991. Explains the risks and rewards of raising this hardy warm-water fish in northern climates. Free. In press. MN

PONDS

- ___ **Design and Construction of Diversion Ponds for Aquaculture.** 1990. An illustrated manual with detailed step by step instructions on how to select and prepare the best site, and control water in the pond. It also explains how to build a pond to take advantage of natural features and keep construction costs low. \$5. MN

DISEASE

- ___ **Information About the Diagnosis of Fish Diseases in the Upper Midwest.** 1987. Free. MN
- ___ **Diagnosis and Treatment of Aeromonas Hydrophilia Infection of Fish.** 1991. Free. IL-IN
- ___ **Diagnosis and Treatment of "Ich" or Whitespot Disease.** 1991. Free. Fact Sheet AS-459. IL-IN
- ___ **Shellfish Pathology: Case Histories from Cornell.** 1982. \$.75. NY

CRUSTACEANS

- ___ **A Craving for Crayfish: Minnesota Discovers a Louisiana Tradition.** Explains the nutritional value of crayfish, how to prepare them, and recipes. Free. MN
- ___ **Northern Crayfish: An Update.** Explains how to trap and identify hard-shell and soft-shell crayfish. Free. MN
- ___ **An Aquaculture Pilot Plant for Lobsters.** 1979. In a proposed lobster-culture facility, heated waste water from a power plant makes production feasible by speeding lobster maturation. This facility also cultures seaweeds that supply products for food and pharmaceutical industries. Plans for the facility are described in detail. \$3.90. NY

SUPPLIERS

-Each list provides names and addresses of companies.

- ___ **Equipment for Measuring Dissolved Oxygen.** 1989. Free. MN
- ___ **Suppliers of Oxygenation Equipment.** 1989. Free. MN
- ___ **Suppliers of Aeration Equipment.** 1989. Free. MN
- ___ **Suppliers of Feeders.** 1990. Free. MN
- ___ **Suppliers of Fish Feed.** 1990. Free. MN

PROCEEDINGS

- ___ **Intensive Aquaculture: The Proceedings of the Regional Workshop on Commercial Fish Culture Using Water Reuse Systems.** 1990. Sessions include: water quality for water reuse systems, feeding fish in closed systems, marketing aquaculture products, and more. \$5. IL-IN
- ___ **The Proceedings of the Midwest Regional Cage Culture Workshop.** 1990. Provides an overview of cage culture techniques, species selection, nutrition and feeding, hybrid striped bass, site selection and water quality, stress and diseases, economics and marketing. \$4.50. CES 234. IL-IN
- ___ **Perch Fingerling Production for Aquaculture: Proceedings of a Conference held at the U of Wisconsin - December 12, 1977.** R.W. Soderberg, ed. Advisory report, 78 pp. Free. WIS-SG-77-421. WI

STATE INFORMATION

- ___ **Prospects for Aquaculture in Ohio.** 1981. Brief history of aquaculture in Ohio. Free. OHSU-TS-003. OH
- ___ **Fish Farming in Wisconsin.** An illustrated overview of several Wisconsin fish farm operations. Free. WI
- ___ **Aquaculture Research at the U of Wisconsin.** Public information report 8 pp. Free. WIS-SG-83-142. WI
- ___ **Aquaculture Resource Guide.** 1990. A 3-page listing of Wisconsin individuals and agencies able to assist in all aspects of aquaculture from production to marketing. Free. WIS-SG-90-438. WI
- ___ **Financing for Aquaculture in Minnesota.** 1991. Lists sources of federal and state financing, as well as aquaculture books and agencies. \$3.00. In press. MN
- ___ **Evaluation of Research and Commercial Efforts in Aquaculture in the U.S.A. with an Emphasis on Determining Their Suitability for Use in NY State.** \$9.60. NY
- ___ **MESA New York Bight Atlas Monograph Series #17.** 1977. Summarizes aquaculture's status and future in the offshore water in the bend of the Atlantic coastline from Long Island to New Jersey. \$4.00. NY
- ___ **State and Local Restrictions on Siting Coastal Aquaculture in New York.** 1984. \$8.25. NY
- ___ **Access to Waters and Underwater Lands for Aquaculture in New York.** 1984. Reports on legal aspects of obtaining access for aquaculture to New York waters and underwater lands. \$8.95. NY
- ___ **Aquaculture Development in New York State.** 1985. This study recommends aquaculture research and development, economic assistance, and other measures. \$4.95. NY
- ___ **Aquaculture: Emerging Issues of Law and Policy.** 1979. Identifies potential aquaculture development, plus some of the political and legal barriers confronting aquaculturists, especially the lack of federal support for aquaculture and problems relating to property rights in public waters. \$2.45. NY

GENERAL INFORMATION

___ **Something Fishy.** This videotape dramatizes one farmer's success with fish culture. The informal dialogue provides information on raising, feeding, and marketing fish grown in farm ponds. \$15. IL-IN

___ **A Basic Overview of Aquaculture.** 1990. Discusses the history and types of aquaculture, plus water quality requirements and different production systems. Written for a general audience. \$2. AS-457. IL-IN

___ **Aquaculture Organizations, Publications, and Resources.** 1987. Lists aquaculture associations, references, and contacts. Includes an annotated list of aquaculture magazines and newsletters. Free. MN

___ **Status of Commercial Aquaculture and Research in the North Central Region.** 1986. \$1. MN

___ **Fish Farming?—Is It For You?** 1990. A checklist involving the primary elements of fish farming: capital investment, labor, management, and risks. This checklist can help you determine if a fish farming enterprise is feasible for you. Free. MN

___ **Fish Farming—Is It For You?** 1991. Lists basic questions to ask before starting an aquaculture business and sources for additional information. Free. OHSU-F5-039. OH

___ **Handling Fishery Wastes and By-Products.** 1976. Presents producing and marketing liquid fertilizer made from fish wastes as a disposal alternative. D.A. Stulber, R.C. Lindsay, R. Vilstrup. 42 pp. Free. WIS-SG-86-789. WI

___ **Plastic Bag Shipment of Fish.** 1991. Free. IL-IN

___ **The Use and Application of Salt in Aquaculture.** 1991. One of the most commonly used drugs in aquaculture, salt is an approved chemical for food fish requiring no withdrawal time before marketing. Outlines treatment methods, dosage, and rate of salt for specific diseases. Free. Fact Sheet AS-458. IL-IN

___ **Home Preservation of Fish Series.** 1984-87. Four pamphlets on how to smoke, can, freeze, and pickle small fish on a small scale. \$1/set. WI

RESEARCH

___ **Effect of Size-Selective Fish Predation on the Reproductive Output of Cladocera in Hatchery ponds.** Reprinted from *Verh Internat Verein Limnol* 22(286):1636-1639. Free. OHSU-RS-034. OH

___ **Evidence for Size-Selective Grazing of Phytoplankton by Zooplankton in Fish Hatchery Ponds.** Reprinted from *Verh Internat Verein Limnol* 22(287):1640-1644. Free. OHSU-RS-035. OH

___ **Biomass of Freshwater Crustacean Zooplankton From Length-Weight Regressions.** Reprinted from *Canadian J. Fisheries and Aquatic Sciences* 42(8):1380-1390. Free. OHSU-RS-042. OH

___ **The Fecundity Ratios of Daphnia and Bosmina as a Function of Inedible Algal Standing Crop.** Reprinted from *Verh Internat Verein Limnol* 22:3072-3075. Free. OHSU-RS-043. OH

___ **Survival of Lake Michigan Chinook Salmon Eggs and Fry Incubated at Three Temperatures.** 1985. D.L. Garling, M. Masterson. *The Progressive Fish-Culturist* 47:63-66. Reports on an investigation of the effects of water temperatures of 9.9°C to 15.1°C on chinook salmon egg and larval survival. Free. MICHU-SG-88-304. MI

___ **Harvesting Photopositive Juvenile Fish from a Pond Using a Lift Net and Light.** W.E. Mancl, J.A. Malison, T.B. Kayes and T.E. Kuczynski. From *Aquaculture* 34:157-64. Free. WIS-SG-83-745. WI

RAINBOW TROUT

___ **Changes in Dietary Protein to Metabolizable Energy Needs of 17 α -Methyltestosterone Treated Juvenile Rainbow Trout.** 1987. A.C. Ostrowski, D.L. Garling. *J of the World Aquaculture Society* 18(2):6170. Examines optimum dietary protein to metabolizable energy (P:ME) and ME needs of juvenile rainbow trout fed semipurified diets with 2.0 mg 17 α -methyltestosterone (MT/kg) of dry ingredients. Free. MICHU-SG-87-309. MI

___ **Effect of 17 α -Methyltestosterone Treatment and Withdrawal on Growth and Dietary Protein Utilization of Juvenile Rainbow Trout Fed Practical Diets Varying in Protein Level.** 1987. *J of the World Aquaculture Society* 18(2):71-77. Examines feeding trials of 17 α -methyltestosterone treatment and withdrawal on relative daily gain, protein gain, productive protein value, and maximum efficient protein gain of juvenile rainbow trout fed practical diets varying in protein-to-metabolizable-energy ratio. Free. MICHU-SG-87-310. MI

___ **The Effects of SALMINCOLA CALIFORNIENSIS (Copepoda: Lernaeopodidae) on the Gills of Farm-Raised Rainbow Trout (SALMO GAIRDNERI).** 1985. D.R. Sutherland, D.D. Wittrock. *The CA J of Zoology*. Free. WIS-SG-86-787. WI

GENETICS

___ **Fisheries Genetics: Issues and Priorities for Research and Policy Development.** 1988. A.R. Kapuscinski and D.P. Philipp. *Fisheries* 13(6). Free. JR222. MN

___ **Genetic Guidelines for Fisheries Management.** 1987. A.R. Kapuscinski and L.D. Jacobsen. \$5. RR17. MN

TRANSGENIC FISH

___ **The Beta-Actin Gene of Carp (CTENOPHARYNGODON IDELLA).** 1989. Z. Liu, Z. Zhu, K. Roberg, A.J. Faras, K.S. Guise, A.R. Kapuscinski, P.B. Hackett. *Nucleic Acids Research* 17(14):5850. Free. JR241. MN

___ **Functional Analysis of Elements Affecting Expression of the Beta-Actin Gene of Carp.** 1990. Z. Liu, B. Moav, A.J. Faras, K.S. Guise, A.R. Kapuscinski, P.B. Hackett. *Molecular and Cellular Biology, July 1990*:3432-3440. Free. JR244. MN

___ **Transfer of the Gene for Neomycin Resistance into Goldfish, CARASSIUS AURATUS.** 1990. S.J. Yoon, E.M. Hallerman, M.L. Gross, Z. Liu, J.F. Schneider, A.J. Faras, P.B. Hackett, A.R. Kapuscinski, K.S. Guise. *Aquaculture* 85:21-33. Free. JR216. MN

___ **Gene Expression Promoted by RSV Long Terminal Repeat Element in Transgenic Goldfish.** 1990. E. Hallerman, J. Schneider, M. Gross, Z. Liu, S. Yoon, L. He, P. Hackett, A. Faras, A. Kapuscinski and K. Guise. *Animal Biotechnology*. Free. JR252. MN

___ **Enzymatic Dechoriation of Goldfish, Walleye and Northern Pike Eggs.** 1988. E.M. Hallerman, J.F. Schneider, M.L. Gross, A.J. Faras, P.B. Hackett, K.S. Guise and A.R. Kapuscinski. *Transactions of the American Fisheries Society* 117:456-460. Free. JR217. MN

PUBLIC POLICY

___ **Transgenic Fish and Public Policy: Anticipating Environmental Impacts of Transgenic Fish.** 1990. A.R. Kapuscinski and E.M. Hallerman. *Fisheries* 15(1):2-11. Free. JR234. MN

___ **Transgenic Fish/Public Policy: Regulatory Concerns.** 1990. E.M. Hallerman and A.R. Kapuscinski. *Fisheries* 15(1):12-20. Free. JR235. MN

___ **Transgenic Fish and Public Policy: Patenting of Transgenic Fish.** 1990. E.M. Hallerman and A.R. Kapuscinski. *Fisheries* 15(1):21-24. Free. JR236. MN

YELLOW PERCH

___ **Culture of Nonsalmonid Freshwater Fishes: Yellow Perch.** R.C. Heldinger and T.B. Kayes. From *Culture of Nonsalmonid Freshwater Fishes*, chapter 7. Free. WIS-SG-86-795. WI

___ **Effects of Photoperiod and Temperature on the Spawning of Yellow Perch (*Perca flavescens*).** T.B. Kayes, H.E. Calbert. Given at the Tenth Annual Meeting, World Mariculture Society. Free. WIS-SG-80-718. WI

___ **Growth and Feeding Responses of Male versus Female Yellow Perch (*PERCA FLAVESCENS*) Treated with Estradiol-17-Beta.** J.A. Malison, T.B. Kayes, B.C. Wentworth and C.H. Amundson. From *Canadian Journal of Fisheries & Aquatic Sciences* 45(11):1942-48. Free. WIS-SG-88-865. WI

WALLEYE

___ **Effect of Feed Color on Feed Acceptance and Growth of Walleye Fingerlings.** 1986. M.F. Masterson and D.L. Garling. *The Progressive Fish-Culturist* 48:306-309. Reports on an experiment showing that a high percentage of small walleye fingerlings can be converted from live food to a semipurified diet whose color contrasts with the color of the rearing container. Free. MICHU-SG-88-303. MI

___ **Comparative Survival, Growth, and Reproductive Development of Juvenile Walleye and Sauger and Their Hybrids Reared Under Intensive Culture Conditions.** J.A. Malison, T.B. Kayes, J.A. Held and C.H. Amundson. From *The Progressive Fish-Culturist* 52:73-82. Free. WIS-SG-90-910. WI

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The Great Lakes Sea Grant Network is made up of university-based programs in Illinois-Indiana, Michigan, Minnesota, New York, Ohio, and Wisconsin. Sea Grant supports research, extension, and education on the Great Lakes and oceans. Major funding is from the National Atmospheric and Oceanographic Administration (NOAA).