STRIPED BASS REFERENCES

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Summary

The following is a brief listing of research publications, popular press articles and consultants' reports which should be useful to anyone wishing to learn more about striped bass. Published research papers can be accessed through most University libraries. Any questions concerning this reference listing can be directed to the Aquaculture Centre, University of Guelph, 519-824-4120 ext. 52689.

General

- 1. Baker, B. 1994. Striped bass success spawns new legislation. Bioscience 44: 520-522.
- 2. Groman, D.B. 1982. Histology of the striped bass. American Fisheries Society 3: 1-116.
- 3. Halbrendt, C.K., R. Aullhyde and D.A. Dunkers. 1994. Expert opinions on critical production factors for sustained growth of the hybrid striped bass industry. Transactions of the American Fisheries Society 123: 94-100.
- 4. Harrell, R.M., J.H. Kerby, T.I.J. Smith and R.E. Stevens. 1990. Striped bass and striped bass hybrid culture: the next twenty-five years. *In* Culture and Propagation of Striped Bass and Its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton, Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 253.
- 5. Hodson, R.G. 1989. Hybrid striped bass. Biology and life history. Southern Regional Aquaculture Center 300.
- 6. Kerby, J.H. 1993. The striped bass and its hybrids. *In* Culture of Nonsalmonid Freshwater Fishes, 2nd edition, Edited by R.R. Stickney, CRC Press, Boca Raton, FL, pages 251-306.
- 7. McCraren, J.P. (Ed.) 1984. The aquaculture of striped bass: A proceedings. Sponsored by University of Maryland Sea Grant College. National Technical Information Service, Springfield, VA.
- 8. McVey, E.M. and N. Thomson. 1990. Culture of striped and hybrid striped bass. Aqua-Topics Series, National Agricultural Library, Beltsville, Maryland.
- 9. Parker, N.C., G.T. Klar, T.I.J. Smith and J.H. Kerby. 1990. Special considerations

- in the culture of striped bass and striped bass hybrids. *In* Culture and Propagation of Striped Bass and Its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 191.
- 10. Peterson, R.H. (Ed.) 1991. Proceedings of a Workshop on Biology and Culture of Striped Bass (*Morone saxatilis*). Canadian Technical Report of Fisheries and Aquaculture Sciences No. 1832, pp. 73.
- 11. Smith, T.I.J. 1989. The culture potential of striped bass and its hybrids. World Aquaculture 20: 32.
- 12. Van Olst, J.C. and J.M. Carlberg. 1990. Commercial culture of hybrid striped bass: status and potential. Aquaculture Magazine 16: 49.
- 13. Whitehurst, D.K. and R.E. Stevens. 1990. History and overview of striped bass culture and management. *In* Culture and Propagation of Striped Bass and its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 1.

Husbandry and Production Systems

- 1. Brewer, D.L. and R.A. Rees. 1990. Pond culture of phase I striped bass fingerlings. *In* Culture and Propagation of Striped Bass and its Hybrids. Harrell, R.M., J.H. Kerby, R.V. Minton, Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 99.
- 2. Carlberg, J.M., J.C. Van Olst, M.J. Massingill and T.A. Hovanec. 1984. Intensive culture of striped bass: a review of recent technological developments. *In* The Aquaculture of Striped Bass: A Proceedings, McCraren, J.P., Ed., MD Sea Grant Publication UM-SG-MAP-84-01, University of MD, College Park, 89.
- 3. Collins, C.M., G.L. Burton and R.L. Schweinforth. 1983. High density culture of white bass x striped bass fingerlings in raceways using power plant effluents. *In* The Aquaculture of Striped Bass: A Proceedings, McCraren, J.P. Ed., MD Sea Grant Publication UM-SG-MAP-84-01, University of MD, College Park, 129.
- 4. Hall, L.W. 1991. A synthesis of water quality and contaminants data on early life stages of striped bass, *Morone saxatilis*. Rev. Aquat. Sci. 4: 261-288.
- 5. Harrell, R.M. 1992. Stress mitigation by use of salt and anesthetic for wild striped bass captured for brood stock. Progressive Fish-Culturist 54: 228-233.
- 6. Hodson, R.G. and M. Hayes. 1989. Hybrid striped bass. Pond production of foodfish. Southern Regional Aquaculture Center 303.
- 7. Hodson, R.G. and M. Hayes. 1989. Hybrid striped bass. Hatchery phase. Southern Regional Aquaculture Center 301.
- 8. Hodson, R.G. and M. Hayes. 1989. Hybrid striped bass. Pond production of fingerlings. Southern Regional Aquaculture Center 302.
- 9. Hughes, J.S., T.L. Wellborn and A.J. Mitchell. 1990. Parasites and diseases of striped bass and hybrids. *In* Culture and Propagation of Striped Bass and Its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton. Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethsda, MD, 217.
- 10. Kane, A.S., R.O. Bennett and E.B. May. 1990. Effect of hardness and salinity on survival of striped bass larvae. North American Journal of Fisheries Management

- 10: 67-71.
- 11. Kerby, J.H., L.C. Woods III and M.T. Huish. 1983. Culture of the striped bass and its hybrids: a review of methods, advances, and problems. *In* Proc. Warmwater Fish Culture Workshop. Stickney, R.R. and S.P. Meyers Ed. Spec. Publ. No. 3, World Mariculture Society, 23.
- 12. Kerby, J.H., M.T. Huish, G.T. Klar and N.C. Parker. 1987. Comparative growth and survival of two striped bass hybrids, a backcross, and striped bass in earthen ponds. J. World Aquacult. Soc. 18: 10A.
- 13. Ludwig, G.M. and D.L. Tackett. 1991. Relation between bar grader size and size of striped bass. Progressive Fish-Culturist 53: 128-129.
- 14. Minton, R.V. and R.M. Harrell. 1990. The culture of striped bass and hybrids in brackish water. *In* Culture and Propagation of Striped Bass and its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 243.
- 15. Mullils, A.W. and J.M. Smith. 1990. Design considerations for striped bass and striped bass hybrid hatching facilities. The culture of striped bass and hybrids in brackish water. *In* Culture and Propagation of Striped Bass and Its Hybrids. Harrell, R.M., J.H. Kerby, and R.V. inton Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 7 pages.
- 16. Nicholson, L.C., L.C. Woods III and J.G. Woidwode. 1990. Intensive culture techniques for the striped bass and its hybrids. *In* Culture and Propagation of Striped Bass and Its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 141 pages.
- 17. Parker, N.C. 1984. Culture requirements for striped bass. *In* The Aquaculture of Striped Bass: A Proceedings. McCraren, J.P. Ed., University of MD Sea Grant Publ. UM-SG-MAP-84-01, College Park, 29.
- 18. Peterson, R.H. 1991. Proceedings of a workshop on biology and culture of striped bass (*Morone saxatilis*). Canadian Technical Report of Fisheries and Aquatic Sciences 1832: 66 pages.
- 19. Rogers, W.A. and D. Xu. 1992. Protective immunity induced by a commercial *Vibrio* vaccine in hybrid striped bass. J. Aquatic Animal Health 4: 303-305.
- 20. Smith, T.I.J., W.E. Jenkins and R.V. Minton. 1990. Production of advanced fingerling and subadult striped bass hybrids in earthen ponds. *In* Culture and Propagation of Striped Bass and its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 121.
- 21. Smith, T.I.J., W.E. Jenkins, A.D. Stokes and R.A. Smiley. 1989. Semi-intensive pond production of market-size striped bass (*Morone saxatilis*) x white bass (*M. chrysops*) hybrids. World Aquaculture 20: 81.
- 22. Woods, L.C. III, J.H. Kerby and M.T. Huish. 1985. Culture of hybrid striped bass to marketable size in circular tanks. Progressive Fish-Culturist 47: 147.
- 23. Yeager, D.M. 1994. A system for increasing water hardness in culture water at a soft-water striped bass production facility. Progressive Fish-Culturist 56: 56-57.

Marketing and Economics

- 1. Boyd, L.C., D.P. Green and L.A. Lepors. 1992. Quality changes of pond-raised hybrid striped bass during chillpack and refrigerated storage. Journal of Food Science 57: 59-62.
- 2. Carlberg, J.M. and J.C. Van Olst. 1987. Processing and marketing. *In* Hybrid Striped Bass Culture: Status and Perspective, Hodson, R., T. Smith, J. McVey, R. Harrell and N. Davis, Eds., UNC Sea Grant Publication UNC-SG-87-03, North Carolina State University, Raleigh, 73.
- 3. Easley, J.E. 1987. Economic research: the striped bass-white bass hybrid. *In* Hybrid Striped Bass Culture: Status and Perspective. Hodson, R., T. Smith, J. McVey, R. Harrell and N. Davis. Eds. UNC Sea Grant Publication UNC-SG-87-03, North Carolina State University, Raleigh, 83.
- 4. Eifert, J.D., C.R. Hackney, G.S. Libey and G.J. Flick. 1992. Aquacultured hybrid striped bass fillet quality resulting from post-harvest cooling or CO2 treatments. Journal of Food Science 57: 1099-1102.
- 5. Gempesaw, C.M., F.F. Wirth and J.R. Bacon. 1992. A financial analysis of integration in aquaculture production The case of hybrid striped bass. Aquaculture 104: 193-216.
- 6. Liao, D.S. 1985. The economic and market potential for hybrid bass aquaculture in estuarine waters: a preliminary evaluation. Journal of the World Mariculture Society 16: 151.
- 7. Nedoluha, P.C. and D. Westhoff. 1993. Microbiological flora of aquacultured hybrid striped bass. Journal of Food Protection 56: 1054-1060.
- 8. Swartz, D. 1984. Marketing striped bass. *In* The Aquaculture of Striped Bass: A Proceedings. McCraren, J.P. Ed., University of MD Sea Grant Publ. UM-SG-MAP-84-01, College Park, 233.

Nutrition and Feeding

- 1. Berger, A. and J.E. Halver. 1987. Effect of dietary protein, lipid and carbohydrate content on the growth, feed efficiency and carcass composition of striped bass, *Morone saxatilis* (Walbaum), fingerlings. Aquacult. Fish. Man. 18: 345.
- 2. Clawson, J.A. and R.T. Lovell. 1992. Improvement of nutritional value of *Artemia* for hybrid striped bass/white bass (*Morone saxatilis x M. chrysops*) larvae by n-3 HUFA enrichment of nauplii with menhaden oil. Aquaculture 108: 125-134.
- 3. Fair, P.H., W.P. Williams and T.I.J. Smith. 1993. Effect of dietary menhaden oil on growth and muscle fatty acid compsotion of hybrid striped bass, *Morone chrysops x M. saxatilis*. Aquaculture 116: 171-189.
- 4. Fitzmayer, K.M., I. Broach and R.D. Estes. 1986. Effects of supplemental feeding on growth, production, and feeding habits of striped bass in ponds. Progressive Fish-Culturist 48: 18.
- 5. Fowler, K.P., C. Karahadian, N.J. Greenberg and R.M. Harrell. 1994. Composition and quality of aquacultured hybrid striped bass fillets as affected by dietary fatty acids. Journal of Food Science 59: 70.
- 6. Gallagher, M.L. 1994. The use of soybean meal as a replacement for fish meal in

- diets for hybrid striped bass (*Morone saxatilis x M. chrysops*). Aquaculture 126: 119-127.
- 7. Geiger, J.G. and J.C. Turner. 1990. Pond fertilization and zooplankton management techniques for production of fingerling striped bass and hybrid striped bass. *In* Culture and Propagation of Striped Bass and its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton. Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 79.
- 8. Hughes, S.G., C.A. Lemm and R.L.Herman. 1992. Development of a practical diet for juvenile striped bass. Transactions of the American Fisheries Society 121: 802-809
- 9. Hung, S.S.O., F.S. Conte and E.F. Hallen. 1993. Effects of feeding rates on growth, body composition and nutrient metabolism in striped bass (*Morone saxatilis*) fingerlings. Aquaculture 112: 349-361.
- 10. Hunn, J.B., I.E. Greer and A.W. Grady. 1992. Some methods for assessing the quality of striped bass for use in laboratory studies. Prog. Fish-Cult. 54: 41-44.
- 11. Klar, G.T. and N.C. Parker. 1989. Evaluation of five commercially prepared diets for striped bass. Progressive Fish-Culturist 61: 115-120.
- 12. Kraeuter, J.N. and C. Woods, III. 1987. Culture of striped bass and its hybrids: first feeding to siz months. *In* Hybrid Striped Bass Culture: Status and Perspective. Hodson, R., T. Smith, J. McVey, R. Harrell and N. Davis. Eds., UNC Sea Grant Publication UNC-SG-87-03, North Carolina State University, Raleigh, 23.
- 13. Lemm, C.A., R.L. Herman, D.P. Lemarie and A. Arzapalo. 1993. Effects of diet and environmental salinity on the growth, mortality and tissue structure of juvenile striped bass. Journal of Aquatic Animal Health 5: 294-305.
- 14. Lemm, C.A. and D.P. Lemarie. 1991. Survival and growth of larval striped bass (*Morone saxatilis*) fed artemia enriched with highly unsaturated fatty acids (HUFA). Aquaculture 99: 117-126.
- 15. Meng, L. and J.J. Orsi. 1991. Selective predation by larval striped bass on native and introduced copepods. Transactions of the American Fisheries Society 120: 187-192.
- 16. Nematipour, G.R., M.L. Brown and D.M. Gatlin. 1992. Effects of dietary energy Protein ratio on growth characteristics and body composition of hybrid striped bass, *Morone chrysops* female-x *M. saxathilis* male. Aquaculture 107: 359-368.
- 17. Nematipour, G.R. and D.M. Gatlin. 1993. Effects of different kinds of dietary lipid on growth and fatty acid composition of juveniel sunshine bass, *Morone chrysops* female x *M. saxatiliis* male. Aquaculture 114: 141-154.
- 18. Rust, M.B., R.W. Hardy and R.R. Stickney. 1993. A new method for force-feeding larval fish. Aquaculture 116: 341-352.
- 19. Tuncer, H. and R.M. Harrell. 1992. Essential fatty acid nutrition of larval striped bass (*Morone saxatilis*) and palmetto bass (*M. saxatilis chryosops*). Aquaculture 101: 105-122.
- 20. Webster, C.D. and R.T. Lovell. 1990. Comparison of live brine shrimp nauplii and nonliving diets as 1st food for striped bass larvae. Progressive Fish-Culturist 52: 171-175.
- 21. Woiwode, J.G. and I.R. Adelman. 1991. Effects of temperature, photoperiod, and ration size on growth of hybrid striped bass x white bass. Transactions of the

- American Fisheries Society 120: 217-229.
- 22. Zhang, Q.Y., R.C. Reigh and W.R. Wolters. 1994. Growth and body composition of pond-raised hybrid striped basses, *Morone saxatilis x M. chrysops* and *M. saxatilis x M. mississippiensis*, fed low and moderate levels of dietary lipid. Aquaculture 125: 119-129.

Physiology

- 1. Bailey, H.C. and S.I. Doroshov. 1995. The duration of the interval associated with successful inflation of the swimbladder in larval striped bass (*Morone saxatilis*). Aquaculture 131: 135-143.
- 2. Brown, M.L. and B.R. Murphy. 1991. Standard weights (Ws) for striped bass, white bass, and hybrid striped bass. North American Journal of Fish Management 11: 451-467.
- 3. Davis, K.B. and N.C. Parker. 1990. Physiological stress in striped bass Effect of acclimation temperature. Aquaculture 91: 349-358.
- 4. Gilderhus, P.A., C.A. Lemm and L.C. Woods. 1991. Benzocaine as an anesthetic for striped bass. Progressive Fish-Culturist 53: 105-107.
- 5. Grizzle, J.M. and A.C. Mauldin. 1994. Age-related changes in survival of larval and juvenile striped bass in different concentrations of calcium and sodium. Transactions of the American Fisheries Society 123: 1002-1005.
- 6. McHugh, J.J. and R.C. Heidinger. 1978. Effects of light shock and handling shock on striped bass fry. Progressive Fish-Culturist 40: 82.
- 7. Seals, C., C.J. Kempton, J.R. Tomasso and T.I.J. Smith. 1994. Environmental calcium does not affect production or selected blood characteristics of sunshine bass reared under normal culture conditions. Progressive Fish-Culturist 56: 268-272.
- 8. Woiwode, J.G. and I.R. Adelman. 1992. Effects of starvation, oscillating temperatures, and photoperiod on the critical thermal maximum of hybrid striped x white bass. Journal of Thermal Biology 17: 271-276.

Reproduction and Genetics

- 1. Blythe, W.G., L.A. Helfrich and C.V. Sullivan. 1994. Sex steroid hormone and citellogenin levels in striped bass (*Morone saxatilis*) maturing under 6-, 9-, and 12-month photothermal cycles. General & Comparative Endocrinology 94: 122-134.
- 2. Blythe, B., L.A. Helfrich, W.E. Beal, B. Bosworth and G.S. Libey. 1994. Determination of sex and maturational status of striped bass (*Morone saxatilis*) using ultrasonic imaging. Aquaculture 125: 175-184.
- 3. Blythe, W.G., L.A. Helfrich, G. Libey and W.E. Beal. 1994. Induced maturation of striped bass Morone saxatilis exposed to 6, 9, and 12 month photothermal regimes. Journal of the World Aquaculture Society 25: 183-192.
- 4. King, W., P. Thomas and C.V. Sullivan. 1994. Hormonal regulation of final maturation of striped bass oocytes in vitro. General & Comparative Endocrinology 96: 223-233.

- 5. Monteleone, D.M. and E.D. Houde. 1990. Influence of maternal size on survival and growth of striped bass *Morone saxatilis* Walbaum eggs and larvae. Journal of Experimental Marine Biology and Ecology 140: 1-12.
- 6. Rees, R.A. and R.M. Harrell. 1990. Artificial spawning and fry production of striped bass and hybrids. *In* Culture and Propagation of Striped Bass and its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD 43.
- 7. Secor, D.H., J.M. Dean, T.A. Curtis and F.W. Sessions. 1992. Effect of female size and propagation methods on larval production at a South Carolina striped bass (*Morone saxatilis*) hatchery. Canadian Journal of Fisheries and Aquatic Science 49: 1778-1787.
- 8. Smith, J.M. and D.K. Whitehurst. 1990. Tank spawning methodology for the production of striped bass. *In* Culture and Propagation of Striped Bass and its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 73.
- 9. Watson, L.C. 1992. Temperature-modified prediction of ovulation for striped bass. Progressive Fish-Culturist 54: 189-195.
- 10. Woods, L.C., R.O. Bennett and C.V. Sullivan. 1992. Reproduction of a domestic striped bass brood stock. Progressive Fish-Culturist 54: 184-188.
- 11. Woods, L.C., C.C. Kohler, R.J. Sheehan and C.V. Sullivan. 1995. Volitional tank spawning of female striped bass with male white bass produces hybrid offspring. Transactions of the American Fisheries Society 124: 628-632.
- 12. Yeager, D.M., J.E. Van Tassel and C.M. Wooley. 1990. Collection, transportation, and handling of striped bass brood stock. *In* Culture and Propagation of Striped Bass and its Hybrids. Harrell, R.M., J.H. Kerby and R.V. Minton, Eds. Striped Bass Committee, Southern Division, American Fisheries Society, Bethesda, MD, 29.