



## Mora Fish Technology Center Publication

### Peer Reviewed Publications

Fuller SA, Henne JP, Carmichael GJ, Tomasso JR (2003) Toxicity of ammonia and nitrite to the Gila trout, *Oncorhynchus gilae*. North American Journal of Aquaculture 65, 162-164.

Carmichael GJ, Tomasso JR, Schwedler TE (2002) Fish transportation. In: Fish Hatchery Management, 2nd edition (ed. Wedemeyer GA), Chapter 11. American Fisheries Society, Bethesda, Maryland.

Morizot DC, Williamson JH, Carmichael GJ (2002) Biochemical genetics of Colorado pikeminnow. North American Journal of Fisheries Management 22, 66-76.

Maes RA, Carmichael GJ (2002) A small-scale quarantine facility for existing fish hatcheries. North American Journal of Aquaculture 64, 136-143.

Morrow JC, Reilly JJ, Olivas JP, Romero MM (2001) Inexpensive pipe hangers, clamps, and braces for aquaculture applications. North American Journal of Aquaculture 63, 79-82.

Tiersch TR, Figiel CR Jr., Wayman WR, Williamson JH, Carmichael GJ, Gorman OT (2000) Cryopreservation of sperm of the endangered razorback sucker. In: Cryopreservation in aquatic species (eds. Tiersch TR, Mazik PM), pp. 117-122. World Aquaculture Society, Baton Rouge, Louisiana.

Tiersch TR, Figiel CR Jr., Wayman WR, Williamson JH, Carmichael GJ, Gorman OT (1998) Cryopreservation of sperm of the endangered razorback sucker. Transactions of the American Fisheries Society 127, 95-104.

Tiersch TR, Wayman WR, Figiel CR Jr., Gorman OT, Williamson JH, Carmichael GJ (1997) Field collecting, handling, and storage of sperm of the endangered razorback sucker. North American Journal of Fisheries Management 17, 167-173.

Carmichael GJ, Williamson JH, Gorman OT, Tiersch TR (1996) Field propagation techniques for the endangered razorback sucker. North American Journal of Fisheries Management 16, 963-966.

Carmichael GJ, Hanson JN, Novy JR, Meyer KJ, Morizot DC (1995) Apache trout management: Cultured fish, genetics, habitat improvements, and regulations. American Fisheries Society Symposium 15, 112-121.

Tiersch TR, Goudie CA, Carmichael GJ (1994) Cryopreservation of channel catfish sperm: storage in cryoprotectants, fertilization trials, and growth of channel catfish produced with cryopreserved sperm. Transactions of the American Fisheries Society 123, 580-586.

Carmichael GJ, Hanson JN, Schmidt ME, Morizot DC (1993) Introgression among Apache, cutthroat, and rainbow trout in Arizona. Transactions of the American Fisheries Society 122, 121-130.

### Peer Reviewed Publications: In Press/Accepted/Submitted

Tomasso JR, Carmichael GJ, Fuller SA (In press) Nitrite toxicity to the razorback sucker *Xyrauchen texanus* and the bonytail Gila elegans: inhibition by environmental chloride. Journal of Applied Aquaculture.

Tiersch TR, Wayman WR, Williamson JH, Gorman OT, Carmichael GJ, Figiel CR Jr. (Accepted) Cryopreservation of sperm of endangered Colorado squawfish. North American Journal of Aquaculture.

Caldwell CA, Fuller SA, Gould WR, Turner PR, Hallford DM (Accepted) Seasonal changes in reproductive hormones of the Rio Grande chub (*Gila pandora*) from south central New Mexico. Southwestern Naturalist.

Fuller SA, Carmichael GJ, Baker RJ (Submitted) Population Genetic Structure in the Endangered Gila Trout, *Oncorhynchus gilae* (Teleostei: Salmonidae), Indicated by Microsatellite DNA Markers. Conservation Genetics.

Fuller SA, Filmore BM, Carmichael GJ (Submitted) Cryopreservation of sperm of the

endangered Gila trout, *Oncorhynchus gilae*. North American Journal of Aquaculture.

#### Miscellaneous Publications

Seals JM, Hanson C, Cornyn M (2003) Whirling disease cleanup at Leadville NFH. Proceedings of the 9th Annual Whirling Disease Symposium: "Managing the Risk."

Henne JP, Romero MM, Martinez TV, Fillmore BM, Carmichael GJ (2003) Growth and performance of juvenile bonytail *Gila elegans* fed four commercial diets and reared in a recirculating system. Proceedings of Aquaculture America: New Frontiers in Aquaculture.

Figiel CR Jr., Ulibarri ME, Jackson M, Carmichael G, Seals J, Hanson J (2001) Willow Beach National Fish Hatchery in on the act: recirculated, solar heated water used to grow endangered fish species. Hatchery International 2, 18-21.

Figiel, Jr. C. R., M. Jackson and M. E. Ulibarri. 2001. Effects of feed and density on the growth of bonytail. Briefing Paper: U.S. Fish and Wildlife Service, Region 2.

Figiel, Jr. C. R., M. Jackson and M. E. Ulibarri. 2000. Experimental growth of Humpback chub at three temperatures. Proceedings of the Annual Meeting of the Desert Fishes Council.

Williamson JH, Morizot DC, Carmichael GJ (1998) Biochemical genetics of endangered Colorado pikeminnow from the Green, Yampa, Colorado, and San Juan rivers. Final Draft report to the recovery program. Project number FY93 #23.

Gorman OT, Stone DM, Seals JM (1998) Ecology of razorback sucker during early spring in upper Lake Mohave, 1994-1997. Proceedings of the Annual Meeting of the Desert Fishes Council.

Figiel CR Jr., Tiersch TR, Wayman WR, Gorman OT, Williamson JH, Carmichael GJ (1996) Collection, storage and cryopreservation of sperm from endangered razorback suckers. In: Aquaculture Biotechnology Symposium Proceedings, International Congress on the Biology of Fishes (eds. Donaldson EM, MacKinlay DD), pp. 13-16.

Gorman OT, Tiersch TR, Figiel CR Jr., Wayman WR, Williamson JH, Carmichael GJ (1996) Broodstock development and propagation studies in the endangered razorback sucker: 1996 field studies. Proceedings of the Annual Meeting of the Desert Fishes Council.

Gorman OT, Tiersch TR, Williamson JH, Carmichael GJ (1995) Program for cryopreservation of genetic resources of endangered fishes. Proceedings of the Annual Meeting of the Desert Fishes Council.

Gorman OT, Seals JM (1995) Habitat use by the endangered humpback chub (*Gila cypha*) in the Little Colorado River, Arizona near Grand Canyon. Proceedings of the Annual Meeting of the Desert Fishes Council.

Seals JM, Gorman OT (1995) Habitat use by speckled dace (*Rhinichthys osculus*), bluehead sucker (*Catostomus discobolus*), and flannelmouth sucker (*Catostomus latipinnis*) in the Little Colorado River, Arizona near Grand Canyon. Proceedings of the Annual Meeting of the Desert Fishes Council.

Tiersch TR, Gorman O, Williamson H, Carmichael GJ (1994) Germplasm storage to preserve genetic resources in the razorback sucker and bonytail chub. Proceedings of the Annual Meeting of the Desert Fishes Council.

Gorman OT, Leon SC, Seals JM (1994) Glen Canyon Environmental Studies Phase II Draft Final Report. Habitat use by humpback chub, *Gila cypha*, in the Little Colorado River and other tributaries of the Colorado River. U.S. Fish and Wildlife Service, Arizona Fishery Resources Office, Flagstaff, Arizona.

Carmichael GJ (1993) Guidelines for biological investigations of threatened and endangered fishes. Draft study protocols for all Southwest Region threatened and endangered fishes. U.S. Fish and Wildlife Service Division of Fisheries, Region 2.

Williamson JH, Carmichael GJ, Graves K, Simco BA, Tomasso JR (1993) Centrarchids. In: Culture of non-salmonid freshwater fishes, 2nd edition (ed. Stickney RR), pp. 145-197. CRC Publishers, New York, New York.

Carmichael GJ, Ring ME, McCraren JP (eds.) (1992) Sea Fare Cookbook - Recipes from American Fisheries Society Members and Fisheries Truths and Lore. Volume I. American Fisheries Society, Special Publication, Bethesda, Maryland.

Fries JN, Berkhouse CS, Morrow JC, Carmichael GJ (1992) Aeration efficiency and water quality in a 2,650 pound (700 gallon) fish-hauling tank. U.S. Fish and Wildlife Service; San Marcos Information Leaflet number 92-01.

#### Publications 1975-Present

San Marcos Fish Technology Center  
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McCraren, J. P. 1969. Some chronic effects of Hydrothol-191 on redear sunfish in two diverse aquatic environments. Weed Science Society of America.

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Brauhn, J. L., and J. P. McCraren. 1975. Ovary maturation in channel catfish. Progressive Fish-Culturist 37(4):209-212.

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Major, R. D., J. P. McCraren, and C. E. Smith. 1975. Histopathological changes in channel catfish (*Ictalurus punctatus*) experimentally and naturally infected with channel catfish virus disease. Journal of the Fisheries Research Board of Canada 32(4):563-567.

McCraren, J. P. 1975. Feeding young bass. Farm Pond Harvest 9(3):10-12.

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- McCraren, J. P. 1977. Marking largemouth and smallmouth bass with silver nitrate. Project Completion Report, 5 pp.
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- McCraren, J. P., and T. R. Phillips. 1977. Effects of Masoten (Dylox) on plankton in earthen ponds. Proceedings of the Annual Conference Southeastern Association Game and Fish Commissioners 31:441-448.
- McCraren, J. P., and R. M. Jones. 1978. Suggested approach to computing and reporting loading densities for fish transport units. Progressive Fish-Culturist 40(4):169.
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- Tomasso, J. R., and G. J. Carmichael. 1986. Acute toxicity of ammonia, nitrite and nitrate to Guadalupe bass *Micropterus treculi*. *Bulletin of Environmental Contaminants and Toxicology* 36:866-870.
- Carmichael, G. J., and J. H. Williamson. 1986. Intensive production of Guadalupe bass. *Progressive Fish-Culturist* 48:133-136.
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- Brandt, T. M. and J. C. Morrow. 1987. Drain modification and crowding net for circular tanks. *Progressive Fish-Culturist* 49:73-75.
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Fries, J. N. 1992. SAMCALC: A computer program for fish culturists. San Marcos Information Leaflet Number 92-03.

Carmichael, G. J., R. M. Jones, and J. C. Morrow. 1992. Comparative efficacy of oxygen diffusers in a fish-hauling Tank. Progressive Fish-Culturist 54:35-40.

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