

AVALT (JAMES W., JR.) PAPERS
(Mss. 2271, 2334, 2434)
Inventory

Louisiana and Lower Mississippi Valley Collections
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Proper acknowledgement of LLMVC materials must be made in any resulting writing or publications. The correct form of citation for this manuscript group is given on the summary page. Copies of scholarly publications based on research in the Louisiana and Lower Mississippi Valley Collections are welcomed.

SUMMARY

Size.	73 items.
Geographic locations.	Louisiana.
Inclusive dates.	1965-1971
Bulk dates.	N/A
Language.	English.
Summary.	Published and unpublished materials of LSU professor in the School of Forestry and Wildlife Management, James W. Avault, Jr., concerning catfish farming and breeding and other maricultural topics.
Restrictions on access.	If microfilm is available, photocopies must be made from microfilm.
Related collections.	N/A
Copyright.	Copyright of the original materials is retained by descendants of the creators in accordance with U.S. copyright law.
Citation.	James W. Avault, Jr., Papers, Mss. 2271, 2334, 2434, Louisiana and Lower Mississippi Valley Collections, LSU Libraries, Baton Rouge, La.
Stack locations.	7:24

BIOGRAPHICAL/HISTORICAL NOTE

James W. Avault Jr. was a professor in the School of Forestry and Wildlife Management at Louisiana State University in Baton Rouge, La. He received his Ph.D. in aquaculture from Auburn University in 1966.

SCOPE AND CONTENT NOTE

The James W. Avault Jr. Papers contain typescripts and printed copies of journal articles, conference papers, and grant applications on the farming of crawfish, shrimp, catfish, and other types of fish; publications of the World Mariculture Society; annual fisheries reports from the Louisiana Cooperative Fishery Research Unit; and other documents pertaining to the School of Forestry and Wildlife Management at Louisiana State University.

INDEX TERMS

Avault, James W.
Catfishes--Breeding--United States.
Crayfish culture--United States.
Crayfish--Breeding--United States.
Fish culture--United States.
Fisheries--Louisiana.
Louisiana Cooperative Fishery Research Unit.
Louisiana State University (Baton Rouge, La.). School of Forestry and Wildlife Management.
Pond aquaculture--United States.
Shrimp culture--United States.
Shrimps--Breeding--United States.
World Mariculture Society.

CONTAINER LIST

<u>Stack</u>	<u>Box</u>	<u>Contents</u>
7:24	1	<p><u>Typewritten copies of Papers by Avault:</u></p> <p>“Biological Weed Control with Herbivorous Fish.” Proceedings Eighteenth Annual Meeting of the Southern Weed Conference, Jan. 19-21, 1965, Dallas, Texas.</p> <p>“Plan for Expansion of Fisheries Teaching and Research at Louisiana State University.” Co-author, R. Oneal Smitherman, Leader, Louisiana Cooperative Fishery Unit. Sept. 19, 1966.</p> <p>“Channel Catfish Feeding.” Prepared for the Catfish Management Workshop, Aug. 11, 1967.</p> <p>“Use of Antimycin as a Fish Toxicant with Emphasis on Removing Trash Fish from Catfish Ponds.” Co-author, Gilbert C. Radonski. Proceedings of the 21st Annual Conference Southeastern Association of Game and Fish Commissioners, New Orleans, Louisiana. Sept. 24-27, 1967.</p> <p>“Effects of Supplemental Feed and Fertilizer on Production of Red Swamp Crawfish, <i>Procambarus Clarki</i>, in Pools and Ponds.” Co-authors, R. Oneal Smitherman, Larry de la Bretonne, Jr., and Harold A. Loyacano. Proceedings of the 21st Annual Conference Association of Game and Fish Commissioners, New Orleans, Louisiana, Sept. 24-27, 1967.</p>
7:24	1	<p><u>Printed materials (reprints and published articles by Avault:</u></p> <p>“Preliminary Studies with Grass Carp for Aquatic Weed Control.” <i>The Progressive Fish-Culturist</i>, Vol. 27, No. 4. Oct. 1965 (Reprint).</p> <p>“Experimental Host Specificity of <i>Posthodiplostomum Minimum</i>.” Co-author, R. O. Smitherman. <i>Experimental Parasitology</i>, Vol. 17, No. 3. Dec. 1965 (Reprint).</p> <p>“Experimental Biological Control of a Trematode Parasite of Bluegill.” Co-author, Ray Allison. <i>Experimental Parasitology</i>, Vol. 17, No. 3. Dec. 1965 (Reprint).</p> <p>“Crawfish Waste – A Potential Feed for Channel Catfish.” Co-authors, William H. Walker, Jr. and R. Oneal Smitherman. <i>Louisiana Agriculture</i>, Vol. 10, No. 2. Winter 1966-1967.</p>
7:24	1	<p><u>Report:</u> “Annual Report Fisheries for 1966.” Louisiana Cooperative Fishery Unit, School of Forestry and Wildlife Management, Louisiana State University, Baton Rouge, Louisiana. Volume 1.</p> <p>Reprint from the Proceedings of the FAO World Symposium on War-water Pond Fish Culture “Procedures for Overwintering Tilapia,” by Avault. Received Mar. 15, 1968.</p> <p>Proposal to the National Science Foundation requesting support for a study through the National Sea Grant Program. Received June 19, 1968.</p>

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Location Box Contents

7:24 1 Manuscript: ANNUAL REPORT FISHERIES for 1968. Volume 3. Sept. 29, 1969

Southeastern Association of Game and Fish Commissioners, Mobile, Ala. Oct 9, 1969:
W. Guthrie Perry, Jr. and James W. Avault, Jr. "Culture of Blue Channel and White Catfish in Brackish Water Ponds"
Larry de la Bretonne, Jr., James W. Avault, Jr., and R. Oneal Smitherman. "Effects of Soil and Water Hardness on Survival and Growth of the Red Swamp Crawfish, *Procambarus clarki*, in Plastic Pools."
James W. Avault, Jr., W. Guthrie Perry, Jr., and Charles L. Birdsong. "Growth, Survival, Food Habits, and Sexual Development of Croaker, *Micropogon undulatus*, in Brackish Water Ponds."
Edmonde Jaspers, and James W. Avault, Jr. "Environmental Conditions in Burrows and Ponds of the Red Swamp Crawfish, *Procambarus clarki* (Girard), Near Baton Rouge, Louisiana."
James W. Avault, Jr., W. Guthrie Perry, Jr., and Kenneth O. Allen. "Growing Catfish in Brackish Water Ponds." *Louisiana Agriculture*, Vol. 13, No. 1, Fall 1969.

"Proposal to the National Science Foundation from School of Forestry and Wildlife Management (Fisheries Division) Louisiana State University requesting support for a Study on the Use of Underground Salt Water to Culture Fish through the National Sea Grant Program as a Sea Grant Project proposed starting date and duration: Jan. 1, 1969 to Dec. 31, 1970. Funds requested: \$82,100." James W. Avault, Jr., Principal Investigator, and Paul Y. Burns, Director (Dec. 4, 1969).

Programs: Crawfish Producers meeting programs, Jan. 13, 1970; Jan. 6, 7, 8, 9, 15, and 30, 1970.

Newsletters: The Mariculture Subcommittee Gulf States Marine Fisheries Commission and program of World Mariculture Society held at LSU, Feb. 9 and 10, 1970.

Papers: "Improvement of Catfish Stock Through Selective Breeding" and "Control of Catfish Parasites and Diseases," 1970

"Some Thoughts on Catfish Breeding," by William C. Robers, James W. Avault, Jr., and A. Johnson presented at the 2nd Annual Meeting of Catfish Farmers of America held at Hot Springs, Arkansas, Feb. 5, 6, and 7, 1970.

Meristic, Morphometric, and Physiological Comparisons of *Tilapia aurea* Trivaves, *Tilapia mossambica* Peters, and their Experimentally Produced Hybrids (Feb. 3, 1970).

The American Fish Farmer, Apr. 23, 1970. "World Mariculture Society," by Dr. James W. Avault, Jr.

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7:24	1	<p>Coastal Studies Bulletin No. 5 / Special Sear Gran Issue, Feb. 1970. DEVELOPMENT OF RATIONS FOR ECONOMICALLY IMPORTANT AQUATIC AND MARINE INVERTEBRATES. EFFECTS OF SALINITY AND WATER QUALITY ON SURVIVAL AND GROWTH OF JUVENILE PONPANO, <i>TRACHIMOTUS CAROLINUS</i>.</p> <p>Newsletter of The World Mariculture Society, Aug. 1, 1970.</p> <p>Literature on Catfish Culture and Related Areas, compiled by Dr. James W. Avault.</p> <p>Coastal Studies Bulletin No. 5, DEVELOPMENT OF RATIONS FOR ECONOMICALLY IMPORTANT AQUATIC AND MARINE INVERTEBRATES. S. P. Meyers, J. W. Avault, Jr., J. S. Rhee, and D. Butler, Feb. 1970.</p> <p>Coastal Studies Bulletin No. 5, MARICULTURE IN THE UNITED STATES – AN OVERVIEW. James W. Avault, Jr. and Kenneth O. Allen, Feb. 1970.</p> <p>Louisiana State University Literature on Mariculture and related Areas compiled by James W. Avault.</p> <p>Charter membership World Mariculture Society.</p> <p>Newsletter of The World Mariculture Society, Feb. 1970.</p> <p>Form letter from James W. Avault.</p> <p>SEASONAL OCCURRENCE, GROWTH, AND LENGTH – WEIGHT RELATIONSHIP OF JUVENILE POMPANO, <i>TRACHINOTUS CAROLINUS</i>, IN LOUISIANA, by John W. Bellinger and James W. Avault, Jr. Apr. 1970.</p> <p>“GENETICS: ROUTE TO BETTER CATFISH CROPS.” <i>The American Fish Farmer & World Agricultural News</i>, July 1970. J. W. Avault, Jr., W. C. Roberts, and W. A. Johnson.</p> <p>“IN BRACKISH WATER – CATFISH CULTURE IN LOUISIANA.” <i>The Catfish Farmer</i>, Mar.-Apr., 1970. W. Guthrie Perry and James Avault.</p> <p>“HOW TO KEEP ‘EM ALIVE IN THE POND.” <i>Fish Farming Industries</i>, July, 1970. James W. Avault and Kenneth O. Allen.</p> <p>“CULTURE OF THE CRAWFISH: LOUISIANA’S CRUSTACEAN KING.” <i>The American Fish Farmer & World Agriculture News</i>, Sept. 1970. James W. Avault, Jr., Larry de la Bretonne, Jr., and Edmonde J. Jaspers.</p>
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7:24	1	<p>“CONTROLLING WILD FISH IN CATFISH PONDS,” <i>Louisiana Agriculture</i>, Fall 1970. James W. Avault, Jr., Edmonde Jaspers, Charles L. Birdsong, and Kenneth O. Allen.</p> <p>“WHAT YOU SHOULD KNOW ABOUT FEEDING CATFISH.” <i>Fish Farming Industries</i>, Oct. 1970, by James W. Avault. Pg. 48.</p> <p>Xerox copy of a newspaper article from the Lake Charles American Press, Sept. 9-10, 1970.</p> <p>“SHRIMP AGRICULTURE METHODS TESTED.” <i>The American Fish Farmer & World Aquaculture News</i>. Nov. 1970, by Laurence W. de la Bretonne, Jr. and James W. Avault, Jr.</p> <p>Newsletter of THE WORLD AGRICULTURE SOCIETY prepared by Fisheries Division, School of Forestry and Wildlife Management, Louisiana State University.</p> <p>Annual Report Fisheries for 1969 and 1970</p> <p>Proceedings of the First Annual Workshop, World Mariculture Society, Feb. 9-10, 1970.</p>
7:24	1	<p><u>Papers:</u></p> <p>“Comparison of Production, Survival, Growth, and Food Conversion with the Mixed Specide of Blue, White, and Channel Catfish,” presented at Third Annual Convention and Trade Show of the Catfish Farmers of America, Feb. 4-6, 1971.</p> <p>“Master Plan for Continued Mariculture Research of Louisiana State University,” submitted to Louisiana Land and Exploration Co., Oct. 12, 1971.</p> <p>“Movements of Brown Shrimp, <i>Penaeus aztecus</i>, and White Shrimp, <i>Penaeus setiferus</i>, over Weirs in Marshes of South Louisiana,” presented at the 25th Annual Conference Southeastern Association of Game and Fish Commissioners, Oct. 17-20, 1971.</p> <p>“Catfish Farming in the South,” presented at the Annual Meeting of North America Game Breeders and Shooting Preserve Association, Jan. 18-20, 1972.</p> <p>“Comparison of a Wild and a Domestic Strain of Channel Catfish, <i>Ictalurus punctatus</i>,” presented at the 4th Annual Convention of the Catfish Farmers of America, Feb. 3-5, 1972.</p>

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7:24	1	<p>“Study of Spermatozoa of Channel Catfish, <i>Ictalurus punctatus</i>, a progress report,” presented at the 4th Annual Convention of the Catfish Farmers of America, Feb. 3-5, 1972.</p> <p>“A Report on ‘S-83’, the Regional Catfish Research Project,” presented at the 4th Annual Convention of the Catfish Farmers of America, Feb. 3-5, 1972.</p> <p>“Comparisons of Striped Mullet and Tilapia for Added Production in Caged Catfish Studies,” presented at the 4th Annual Convention of the Catfish Farmers of America, Feb. 3-5, 1972.</p> <p>“Crawfish Farming in the United States,” presented at the First International Symposium on Freshwater Crayfish, Sept. 12-15, 1972.</p> <p>“The Significance of a Catfish Breeding Program to the Catfish Industry,” undated</p> <p>“Salinity Tolerance of Catfish,” undated.</p>
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Published writings:

- “Genetics,” *The Catfish Farmer* (Mar. 1971);
- “Twenty Key Questions on Oxygen Depletion, Your Fish, and You,” *Fish Farming Industries* (Apr. 1971);
- “Louisiana’s Crustacean King,” *Agricultural Engineering* (Oct. 1971);
- “Baby Those Brood Cats,” *Fish Farming Industries* (Oct. 1971);
- “Shrimp Mariculture: Where Do We Stand?” *Fish Farming Industries* (Oct. 1972)

Other publications: “L.S.U. Scientists Team Up to Develop the Ideal Catfish,” *Fish Farming Industries* (Jan. 1971); *Wetlands: Resource of the Future* (1971)