



Socioeconomics News

<http://www.fisheries.org/socioecon/>

Newsletter of the Socioeconomics Section of the American Fisheries Society

Spring 2003

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From the President's Desk

Greetings!

I am now well into my first year (see the last paragraph of this column) of serving as your president and I am thoroughly enjoying myself. The workload is challenging and not too onerous (see the 2003 Midyear Report to the Governing Board for some details). The Socioeconomics Section has been busy with a symposium, the "valuation of fish kills" book revision, and plans for the 2003 annual meeting. But before I describe these activities, let me discuss some plans for increased communication among Section members.

Several years ago Madeleine Hall-Arber set up a Listserv for the Socioeconomics Section, the AFS-SEL mailing list (AFS SocioEconomics Discussion List). The original number of subscribers was about 40. These days there are less than 20 subscribers. Listservs are a wonderful way to increase communication among a like-minded group of people and I would like the Section to begin to take advantage of the opportunity of AFS-SEL. So, let me encourage you to join AFS-SEL (see instructions elsewhere in this newsletter). Hopefully in the near future, calls for symposium papers, recruitment of Section officers, discussion of other Section matters, and other communication will be conducted via AFSSEL.

This year the AFS Southern Division had its Spring Meeting in Wilmington, North Carolina, February 12-16. The Socioeconomic Section sponsored a "Fisheries Socioeconomics" Symposium. Eight speakers presented nine excellent papers. As expected, attendance was low during the talks but a solid core of 10-15 participants (other than the presenters) was present during each. The

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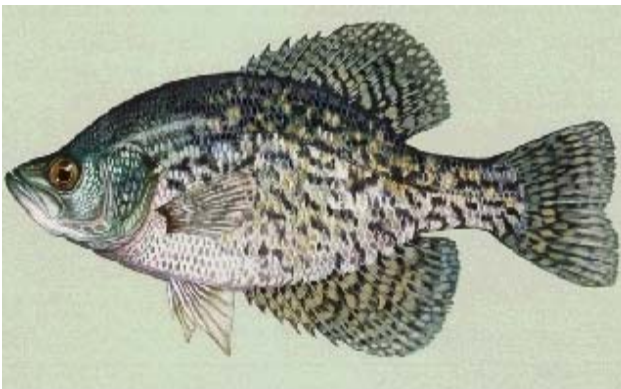
Socioeconomic Section continues to be an important source of information for AFS.

A committee of members continues to work on the revision to AFS Special Publication 24 *Investigation and Valuation of Fish Kills*. The final product is expected soon. Wayne Davis is leading the effort to stage a workshop and/or symposium focusing on this work at the 2004 Annual Meeting in Madison.

The Socioeconomics Section plans to have a presence at the 2003 Annual Meeting in Quebec City. Ray Rhodes is leading the effort to present the first annual Weithman Award for the best student paper in socioeconomics at the AFS Annual Meeting. This award is presented by the Socioeconomics Section jointly with the Missouri Chapter. See details elsewhere in this newsletter. The Section continues to seek nominations for the office of president-elect! If you have the interest and time, please consider this opportunity. Please share any other ideas or concerns that you may have with me at any time.

John Whitehead

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– Black crappie
USFWS/Duane Raver

Can we talk? (Communication within the SE Section)

AFS SocioEconomics Discussion List (AFS-SEL)

The purpose of AFS-SEL is to promote communication among members of the AFS Socioeconomics Section. Anyone in the Section and on the list can send a message about topics of interest to the group. Job or publication announcements and research or reference questions are welcome.

You may join AFS-SEL at any time. Send an email to LISTSERV@MITVMA.MIT.EDU and leave the subject line blank. In the body of the message type: SUBSCRIBE AFS-SEL YOURFIRSTNAME YOURLASTNAME. (The listserv is automated and will pick up your email address directly from the message.)

Web Page

At <http://www.fisheries.org>, left click your mouse on the “About AFS” link in the left hand column, then on “Units.” Once you are on the Units page, click on the “Sections” button in the center at the top of the page. You should then find the “Socioeconomic” link to our page. Or, go directly to <http://www.fisheries.org/socioecon/>. Check here for information on Calls for Papers, Symposia, Workshops, SP-24, Weithman Award and other information of relevance to section members.

Call for Essays

With the move to an electronic newsletter (slated for publication twice each year ... at least when there is enough material), there is space available for publication of your topical essays, short research reports, or book reviews related to the socioeconomic aspects of fisheries. If you would like to submit essays, reports, or reviews for the newsletter please send it via e-mail to John Whitehead at whiteheadj@uncw.edu. There is no length requirement or constraint, however, a typical length might be between 1000 and 2000 words.



2003 A. Stephen Weithman Award for Best Student Paper in the Field of Socioeconomics

Missouri Chapter of the AFS Socioeconomics Section of the AFS

The Missouri Chapter and the Socioeconomics Section of the AFS are proud to announce the establishment of the A. Stephen Weithman Best Paper Award in Socioeconomics. These two subunits of AFS are cooperating to promote communication and interest in the field of socioeconomics by sponsoring an annual award for the best student paper in the field. The award will be presented for the best platform or poster paper presented by a student at the annual AFS meeting. Completed papers will be judged on content, originality, organization, contribution to the field of fisheries science, and overall presentation of the study. The award winner will be announced on the Socioeconomic Section's webpage (www.fisheries.org/socioecon) and receive \$150.00 and an award certificate following the annual AFS meeting.

This award was established in honor of Steve Weithman. He died 13 July 2000 in Columbia, Missouri, after a valiant five-month battle against pancreatic cancer. Steve was 47, and an AFS member since 1974. He received his B.A. (1974), M.S. (1975), and Ph.D. (1978) from the University of Missouri. He had been employed by the Missouri Department of Conservation since 1978.

Steve began his career as a fisheries research biologist, later became environmental services supervisor, and most recently was fisheries research supervisor at the Conservation Science Center in Columbia. He conducted research on a variety of topics, but was best known for his economic evaluation of fisheries and statewide surveys of anglers.

Steve understood the importance of communicating research results to his fellow scientists and to the public. He published 28 scientific and popular articles. He presented his findings at over 30 scientific meetings, including seven AFS annual meetings or symposia and a dozen state or regional conferences. Recognized as an expert in his field, he authored the chapter on socioeconomic benefits of fisheries in *Inland Fisheries Management in North America* (second edition, 1999), a best-selling AFS publication. In addition, Steve served as financial advisor to AFS.

Steve was a Certified Fisheries Scientist and a Life Member of AFS. He served on various committees of the Missouri Chapter, served two terms as chapter president, and acted as financial advisor to the chapter. He co-chaired the 1993 Midwest Fish and Wildlife Conference. Steve was the first recipient of the Missouri Chapter's A. Stephen Weithman, Jr. Leadership Award in recognition and appreciation of his outstanding leadership in protecting Missouri's aquatic resources. The chapter's proclamation stated, "His leadership efforts are notable not only for their positive outcomes but are remembered for the professional and caring manner in which they were delivered."

The Socioeconomics Section and Missouri Chapter are proud to sponsor this award in honor of Steve Weithman. To be considered for this award, interested applicants should complete the attached form and deliver it to the President of the Socioeconomics section by **July 1, 2003**. *Papers must be completed before the AFS meeting to be eligible for this award.*

(Nomination form on following page.)

Nomination Form

2003 A. Stephen Weithman Best Paper Award in the Field of Socioeconomics Sponsored by the Socioeconomics Section and Missouri Chapter of American Fisheries Society

Student _____

Degree Sought _____

School _____

Expected Graduation Date _____

Paper Title _____

e-mail address _____

Paper Accepted by AFS Program Committee for Presentation as a (check one):

_____ Poster

_____ Platform

Person Submitting the Nomination for the Award (must be an AFS member):

Name _____

Mailing Address _____

Phone _____

e-mail address _____

Date Submitted _____

Please mail or fax this form by July 1, 2003 to:

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-----Please Do Not Write Below this Line -----

Date Received _____

Paper Number _____

**American Fisheries Society
Socioeconomics Section
2003 Midyear Report to the Governing Board**

TO: Fred Harris, President, AFS
FROM: John C. Whitehead, President, Socioeconomics Section
DATE: February 24, 2003

I. Action: **None**

II. Outcome or Accomplishments in Relation to the Society's Strategic Plan

Charge or Annual Program of Work: No charges or program of work defined

Outcome and Accomplishments Organized by Major Goal:

Information Transfer and Outreach:

- The Section presented a "Fishery Economics for Non-Economists" workshop for the 2002 Annual Meeting in Baltimore for the general membership of the Society. This workshop was organized by Ray Rhodes (SCDNR) John Whitehead (UNCW).
- The Section is organizing a Symposium, "A workshop on fish harvesting capacity as an index of ecosystem health and its implications for managers," for the 2003 Annual Meeting, August, in Quebec City.
- The Section organized a Symposium, "Fisheries Socioeconomics," for the 2003 Spring Meeting of the Southern Division, February 16, in Wilmington, NC.

Member Services:

- The Fall newsletter was distributed in October. The Spring newsletter is on schedule for April 2003.
- The Section has revised its webpage and is developing plans to reinvigorate communication via the listserv.
- Together with the Missouri Chapter, the Section is planning to co-sponsor the A. Stephen Weithman, Jr. Award for the best socio-economic paper presented by a student at future AFS annual meetings.

Aquatic Stewardship:

- A Section working group is assisting AFS Director's Office with a US Fish & Wildlife Service funded project to update the replacement values in AFS SP-24A, "Investigation and Valuation of Fish Kills." The working group is comprised of Ray Rhodes (SCDNR), John Whitehead (UNCW), Herb Holloway (Louisiana DWF), and Wayne Davis (Kentucky DFWR).

III. Financial Status:

A copy of the financial report has been provided to Director of Finance and Administration Betsy Fritz.

Fisheries Socioeconomics Symposium

Sponsored by: AFS Socioeconomics Section

2003 AFS Southern Division Spring Meeting **Wilmington, NC** **12-16 February 2003**

1. Economic Impacts of Marine Recreational Angling in North Carolina

Gentner, B., NMFS F/ST1, 1315 East West Highway, Silver Spring, MD 20910, 301.713.2328 ext. 215, brad.gentner@noaa.gov

In 1998, the National Marine Fisheries Service (NMFS) launched the first marine recreational angler expenditure survey in the Northeast (NE) management region. This series was extended to the Southeast (SE) management region in 1999. These surveys were designed to collect the data needed to estimate average and total angler expenditures, by state and resident status, on trip expenses and durable goods for use in economic impact assessment. IMPLAN was used to estimate the economic impacts of these expenditures. Across the United States (US) anglers spent \$20.4 billion with the SE contributing \$12.5 billion. North Carolina has the second highest expenditures in the SE after Florida and the third highest in the US after Florida and California. Anglers in NC spent \$170 million on trip expenditures and \$1.4 billion on durable goods for a total of \$1.6 billion in 1999. Selected economic impact estimates will be presented for the state of North Carolina.

2. Using Quality-Augmented GEDD to Analyze Pelagic Longline Fishery Regulations

Dumas, C.F., Department of Economics and Finance, University of North Carolina at Wilmington, 601 South College Rd., Wilmington, NC 28403, 910-962-4026, dumasc@uncw.edu

Parker, K.M., Department of Economics, North Carolina State University
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Fisheries managers seek cost-effective regulations to reduce bycatch in pelagic longline fisheries. Developing such regulations is complicated by significant price heterogeneity across longline target species and across quality grades within species. General Equilibrium Derived Demand (GEDD) analysis measures the net economic impacts of regulations affecting the interrelated landings of multiple species. We extend GEDD analysis to capture the economic impacts of changes in catch quality as well as catch quantity. The modeling framework is used to analyze the potential for improved catch quality to offset reduced catch quantity in regulated longline fisheries.

3. Channel Netting in the North Carolina Shrimp Fishery: A Case Study of Territoriality and Local Control

Maiolo, J.R., Department of Sociology, East Carolina University, 210 Pungo Lane, Chocowinity NC 27817, (252) 974-0813, johnmaiolo@coastalnet.com

Channel netting is a capture method that has never contributed more than a small amount to the state's annual harvest of shrimp. Still, it is one of the few commercial fishing styles that can be characterized as specifically North Carolinian in both its invention and use. While the capture technology is both

interesting and unusual, it is the complex of customs which govern the prosecution of the fishery that offers the social scientist a unique opportunity to add to our understanding of maritime cultures. This paper is part of a larger effort to examine the history and culture of the North Carolina Shrimp Fishery. Within that context, Channel Netting is seen as a locally controlled harvesting complex. It is based on decades of customs and traditions that have survived within a growing formalized management system. Among the more crucial aspects of the local customs are, first, "laying on a set," which involves a very specific set of procedures for queuing in one's reservation of, and exit from, a fishing location. This protocol is based exclusively on one's village of residence. Second, the physical distance between working fishermen clearly is established. Third, fishermen attempting to circumvent established traditions become the subjects of ridicule, and even threats of physical harm in some cases.

4. Where Are They Now? Participation Decisions of Displaced Louisiana Gill-Netters and Implications for Multi-Fishery Management Strategies.

Holloway, H.A., Louisiana Department of Wildlife and Fisheries (LDWF),
P.O. Box 98000, Baton Rouge, LA 70898-9000. (225) 765-2605. holloway_ha@wlf.state.la.us

In August of 1995 the Louisiana Legislature passed the Louisiana Marine Resources Conservation Act of 1995 (Act 1316), which imposed restrictions on the issuance of strike net (gill net) licenses based on prior licenses held, history of fisheries violations, and share of earned income from fishing. To ascertain the effect of Act 1316 on participation of Louisiana's commercial strike/gill net fishermen in various fisheries, license data from the Louisiana Department of Wildlife and Fisheries was analyzed to track the license purchases of strike/gill net fishermen affected by Act 1316. Of 1,046 licensed gill netters in 1994, the last year before passage of Act 1316, 675 (65%) were still licensed as commercial fishermen in 2001. License data illustrates that those individuals who remained in the commercial fishing industry increased their participation in the oyster, blue crab, shrimp, and set-line/long-line fisheries by varying degrees. This presentation documents the shifts by license type and recent landings data and analyzes age, tenure in a fishery, and geographic location as factors which may have influenced participation decisions.

5. "Taking Institutions Seriously: Using the IAD Framework to Analyze Fisheries Policy"

Imperial, M.T., Department of Political Science, University of North Carolina at Wilmington, 601 S. College Rd., Wilmington, NC 28403-5607, (910) 962-3220 (W), (910) 962-3286 (Fax), imperialm@uncw.edu

Yandle, T., Department of Environmental Studies, Emory University, 1715 N. Decatur Rd., Atlanta, GA 30322, Phone: 404-727-6314, Fax: 404-727-4448, tyandle@emory.edu

Historically, the fisheries management literature has been dominated by three competing paradigms or approaches to fisheries management: the traditional centralized bureaucratic model favoring centralized government regulation; a market-based model favoring individual transferable quotas (ITQs); and a community-based model advocating the self-regulation of fish stocks. In recent years, co-management has emerged as a fourth approach for managing fish stocks. Co-management represents an emerging hybrid that borrows techniques utilized by the other three approaches in varying degrees with property rights playing an important role. This paper examines these four competing approaches to fisheries management using the Institutional Analysis and Development (IAD) framework. Our analysis demonstrates that the IAD framework is a useful tool for analyzing fisheries policy because it uses

multiple measures of success and draws attention to the full range of transaction costs that influence the development and implementation of fisheries management programs. If new fisheries management strategies such as co-management are to take hold and flourish, researchers and practitioners much pay closer attention to questions surrounding institutional design and performance. This will improve our understanding of the relationship between science and human values in decision making. It will also help researchers and practitioners avoid making faulty policy recommendations.

6. Costs of Doing Business for North Carolina's Northern Commercial Fishers

Chevront, B., North Carolina Division of Marine Fisheries, Morehead City, NC, 252-726-7021, Brian.Chevront@ncmail.net

From 1998 through 2001, the North Carolina Division of Marine Fisheries with funding provided by NOAA through the Atlantic Coastal Fisheries Cooperative Management Act conducted interviews with commercial fishermen from the Albemarle, Pamlico and Core Sound areas. Over 400 in-person and telephone interviews were conducted. The topics in the interviews included fishery participation, vessel characteristics, operating expenses, sociodemographics, anthropological constructs, and opinions about fishery management. This presentation will focus on expenses and business costs specifically related to blue crab, shrimp, southern flounder, and shellfish harvesting. Results will emphasize economic differences among species, locations, and self-reports of expenditures and profitability. Additionally, relationships among economic factors and sociological/anthropological variables such as community support, self-efficacy, and user group conflicts will be presented.

7. An Analysis of Congestion Measures and Heterogeneous Angler Preferences in a Random Utility Model of Recreational Fishing

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Schwabe, K.A., Department of Environmental Sciences, University of California, Riverside, CA 92501, 909-787-2361, kurt.schwabe@ucr.ac1.ucr.edu

The potential importance of congestion effects on the management and rationing of recreational facilities and services in the presence of heterogeneous preferences were highlighted nearly twenty-five years ago by Freeman and Haveman (1977). While there have been a number of theoretical models extending and expanding upon this work (McConnell, 1988; Anderson, 1993), empirical research evaluating such impacts is limited. Evidence of the potential impacts of congestion on resource usage is of obvious importance, especially for natural resource managers who understand that congestion can be an effective rationing device and because users likely differ in both their preferences for use and aversion to congestion. It is the objective of this research to compare alternative measures of congestion for explaining site choice within a random utility modeling framework. The congestion measures differ with respect to the time horizon over which they are assumed to be formulated and the measure of central tendency used to represent them. Furthermore, we investigate how the response to these congestion measures may differ across two distinct angler types and the implications of those differences on the per trip willingness to pay for stock enhancement.

8. Do Angler's Tell the Truth? Examining Revealed and Stated Preferences for Conservation

Gentner, B., NMFS F/ST1, 1315 East West Highway, Silver Spring, MD 20910, 301.713.2328 ext. 215, brad.gentner@noaa.gov

There are many reasons an angler might catch and then release a particular fish species. The angler may choose to release a fish because it is not suitable for his consumption, he may be forced to release the fish due to regulations, or he may choose to release the fish voluntarily for conservation reasons. The National Marine Fisheries Service (NMFS) collects catch and effort data from recreational anglers through its Marine Recreational Fisheries Statistics Survey (MRFSS), including information on released fish and the reason for release. As a result, NMFS has data on an angler's revealed preference for conservation. Through a series of economic add-on surveys to the base MRFSS, NMFS has collected stated preference data on the same conservation decision. A simultaneous probit system is used to analyze the decision to actually release a fish for conservation purposes contingent on the angler's stated preference for conservation. The preliminary results show that while the decisions are linked, the linkage is relatively weak.

9. Some Socioeconomic Effects of *Pfiesteria*

Whitehead, J.C., Department of Economics and Finance, Cameron School of Business, 601 South College Road, University of North Carolina at Wilmington, Wilmington, NC 28403-5945, (910) 962-7497, whiteheadj@uncw.edu

Boyd, E., Coastal Resources Management Program, East Carolina University, Greenville, NC, 27858, boyde@mail.ecu.edu

There is general agreement in the literature that environmental values tend to vary with culture and gender, but sometimes overlap among professions and income groups. Yet the distribution of knowledge about certain environmental phenomena like pollution and risk determines has been shown to differ between socio-economic groups. The probability of cross-class and cross-racial concern and reaction increases when there is a lack of scientific consensus about the phenomenon. The characterization of the toxic dinoflagellate *Pfiesteria piscicida*, and its potential for risk to human health certainly fit this category, as there are many questions than answers concerning both. This study displays the socio-economic groups of responses to specific survey questions focused on the economic impact of *Pfiesteria* in the mid-Atlantic region. The results of this analysis show socio-economic stratification as to risk assessment and level of concern, but little in relevance to the identity among those respondents that identify the organism in similar ways.



Alligator Gar
USFWS/Duane Raver

133rd Annual Meeting of the American Fisheries Society
Québec City, Québec, Canada
August 10-14, 2003

American Fisheries Society



Omble de fontaine • Brook Trout • Salvelinus fontinalis

**133^e RÉUNION
ANNUELLE**

«Déclin universel des populations
de poissons sauvages»

VILLE DE QUÉBEC, QUÉBEC, CANADA
10-14 AOÛT 2003

**133rd ANNUAL
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“Worldwide decline
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QUÉBEC CITY, QUÉBEC, CANADA
AUGUST 10-14, 2003

133 ASAMBLEA ANUAL

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