

N E W S
A
F
S
L E T T E R

Introduced Fish Section

Vol. 16 No.1
May, 1997

American Fisheries Society

IFS WEB-SITE UP AND RUNNING <http://www.afsifs.vt.edu>

INSIDE

Presidents Corner	1
From the Editor	2
Nonindigenous Aquatic and Selected Terrestrial Species of Fl.	2
Introduced Fish Topics from The Fish- Ecology List Server	3
European Green Crabs in OR.	3
Non-Native Fish Impact Colorado River Natives	3
Hot Off The Press	3
Meritorious Service Award	4
Panel Presentation on Aquatic Nuisance Species	4
Program for the IFS-Sponsored Symposium at the AFS Annual Meeting	4
Report Details "Least Wanted" Exotic Species	4
"Managing Aquatic Vegetation with Grass Carp: A Guide for Water Resource Managers," order form	5
Resource Managers Petition Vice President Gore on Exotic Species	6
Zebra Mussel Workshops Held in Portland	6
Scientists and Engineers to Test Ballast Filter	7
Exotic Crayfish in Wisconsin and Michigan	7
1996-1997 Officers	8
Looking for Oscar	8
Zebra Mussel Costs	8
Editors Note	8

Newsletter Editor:

John R. Cassani
Lee County Hyacinth
Control District
P.O.Box 60005, Fort Myers,
FL 33906 USA
E-mail:
jcassani@peganet.com

Presidents Corner

by Eric Hallerman

Greetings, fellow IFS members. At the mid-point of the year, it's time to take stock of what's been accomplished and what lies ahead in the business of the Section. I'm pleased to report on a number of Section-sponsored activities, some completed, some ongoing, and some on which I seek your input.

Election results Elections for the vacant office of President-elect were held in December. Dr. Anna Toline (Utah State University) will take the reins as President at our business meeting in Monterey in August. Thank you, Anna and Charles Brown (USDA-APHIS) for standing for election. In other election-related results, voters overwhelmingly approved the donation of \$100 to support the Skinner Award, which supports the travel of students to the AFS annual meeting. Regarding the possibility of a dues increase for international members to reflect the extra costs of mailing the newsletter, the response involved few voters and was mixed; hence, I am reluctant to recommend changing the existing dues structure.

Call for Nominations This summer, we will hold elections for President-Elect and Secretary-Treasurer. The section Nominating Committee consists of current officers and the Past-President. We ask your suggestions for prospective nominees for these offices. Contact any of us.

Grass carp manual out The Section-sponsored book, "Managing Aquatic Vegetation with Grass Carp: A

guide for Water Resource Managers," edited by John Cassani, has just been published. The grass carp manual should prove useful to a range of aquatics professionals. A listing of its contents and an order form appear on page 5 of this newsletter. I vouch that it's a great buy at \$18. On behalf of the Section, I express thanks to the AFS Publications Endowment for a grant that supported publication of the manual. This grant brought the publication to fruition and kept low the cost of the finished product.

IFS Web-site up The Section's World Wide Web homepage is now up and running, and can be accessed at <http://www.afsifs.vt.edu>. It will inform readers of Section goals and activities, provide access to news items regarding introduced aquatic species and provide hotlinks to related Web-sites. Check it out. Feel free to tell me of other sites to link to and to pass along news items of general interest.

Section-sponsored symposium Former Section President Denny Lassuy is organizing a symposium, "Bettas to Biodiversity: The role of the aquarium in fish conservation," for the AFS annual meeting in Monterey. Presentations will focus on the significance to conservation of home aquaria, the aquarium industry, and public aquaria. This sort of a symposium is particularly appropriate given that the AFS annual meeting is to be held in Monterey, California, home to a major marine aquarium. A listing of speakers and topics is provided on page 4 of this newsletter.

Governing Board news The Governing Board of AFS includes the

Continued from page 2

Biological Control Agents of Aquatic Nonindigenous Plant Species

Section 2. Nonindigenous Non-aquatic Insects of Special Interest

Chapter 6. Nonindigenous Fishes in Freshwater Systems

Section 1. International Trade of Nonindigenous Fish

Section 2. National Trade of Nonindigenous Fishes

Section 3. Potential Effects of Nonindigenous Fishes

Section 4. Tropical Fish Industry in Florida

Section 5. Established Nonindigenous Fish Species in Florida

Cyprinidae - Carps and Minnows

Cobitidae - Loaches

Characidae - Characins

Clariidae - Labyrinth Catfishes

Loricariidae - Sucker-mouth Catfishes

Poeciliidae - Livebearers

Cichlidae - Cichlids

Anabantidae

Chapter 7. Nonindigenous Amphibians and Reptiles

Chapter 8. Nonindigenous Aquatic Birds

Section 1. Importation of Nonindigenous Birds

Section 2. Pathways of Introduction

Section 3. Nonindigenous Non-aquatic Birds of Special Interest

Chapter 9. Nonindigenous Aquatic Mammals in Freshwater Systems

Chapter 10. Nonindigenous Nonaquatic Mammals of High Visibility

Chapter 11. Introductions and Survival of Nonindigenous Species in the Marine Environment

Section 1. Nonindigenous Diseases in the Marine Environment

Section 2. Nonindigenous Euryhaline Plants

Section 3. Nonindigenous Euryhaline Invertebrates

Section 4. Nonindigenous Euryhaline Fishes

Chapter 12. Regulations for the Import of Fishes, Wildlife, Plants and Insects

Section 1. Nuisance-Plant Regulations

Section 2. Regulations for the Control of Fishes and Wildlife

Section 3. Regulations for the Use of Insects as Biological Control Agents

Conclusions

Acknowledgments

Tables
Figures
Cited Literature

INTRODUCED FISH TOPICS FROM THE FISH-ECOLOGY LIST SERVER

"We are involved in a research programme looking at the invasion of foreign marine species in New Zealand's estuaries and harbours, and on the open coast. At present we are concentrating on the introduction of invaders via ship's ballast water and will be extending this work to other transit ways such as the bottom of ship's hulls. I am very interested in predictive techniques for invading species generally, and would like to look at the possibility of applying demographic models such as Lefkovich matrices to the marine situation. I would like to exchange ideas with people involved in predicting invasions and the spread of successful invasions."

Regards

Mike Taylor

Cawthron Institute

Private Bag 2

Nelson

New Zealand

Ph: 64-03-5482319

e-mail michael@environment.cawthron.org.nz

EUROPEAN GREEN CRABS IN OREGON

In late March 1997, the first European green crabs were discovered near the Coos Bay, OR., estuary. This species has steadily migrated northward from San Francisco Bay, where it was first detected in 1989. Residents fear damage to oysters, clams, mussels, and native crab species.

Associated Press

NON-NATIVE FISH IMPACT COLORADO RIVER NATIVES

San Juan River. On Feb. 5, 1997, environmental consultants reported to the San Juan Water Commission that endangered Colorado Squawfish and razorback sucker might never recover in the San Juan River, NM, due to predation on their young by non-native fish (brown trout and catfish) and because the river may be unsuitable for spawning. Regulation of water flow to benefit these endangered species had been contentious.

Associated Press

HOT OFF THE PRESS!

Predation by Introduced Fishes on Endangered Humpback Chub and Other Native Species in the Little Colorado River, Arizona

Paul C. Marsh

Center for Environmental Studies and Department of Zoology, Arizona State University

Tempe, Arizona 85287-3211, USA

Michael E. Douglas

Department of Zoology and Museum, Arizona State University

Tempe, Arizona 85287-1501, USA

Abstract -- Fishes in the Little Colorado River in the Grand Canyon, Arizona, were sampled monthly from July 1991 to June 1995 as part of a study of the ecology of endangered humpback chub *Gila cypha*. Diets of five introduced predatory fish species were examined. Stomach contents varied among species and were low in diversity and dominated by algae (primarily *Cladophora*), aquatic insects, and fishes. Humpback chub plus other native species were a significant component of the diet (13.7% frequency of occurrence among 219 of 408 stomachs that contained food). Predation mortality from introduced fishes may significantly affect the native species by depleting numbers and reducing recruitment.

Transactions of The American

Fisheries Society 126 (1997):343-346