



LATERAL LINES

VOLUME 11, NO. 3 SEPTEMBER, 1995

THE NEWSLETTER OF THE IOWA CHAPTER OF THE AMERICAN FISHERIES SOCIETY

CHAPTER OFFICERS

PRESIDENT

Bernie Schonhoff
Iowa DNR/Fairport Fish Management
3390 Highway 22
Muscatine, IA 52761

PRESIDENT-ELECT

Gary Siegwarth
Iowa DNR/Manchester Research
RR 2 Box 269A
Manchester, IA 52057


SECRETARY-TREASURER

Tom McCarthy
Iowa DNR/Bellevue Fish Management
24143 Highway 52
Bellevue, IA 52031

PAST PRESIDENT & MEMBERSHIP CHAIR

Martin Konrad
Iowa DNR
Wallace Building
Des Moines, IA 50319

PRESIDENT'S CORNER

It's hard to believe that this is my last "President's Corner". My term in office ends and Gary Siegwarth takes over the reins. I want to thank those of you that helped when asked and remind everyone to say "yes" when Gary calls to ask for help! Remember, the Chapter is only as strong as its members. If you've ever asked yourself what does the AFS do for me I suggest you become involved in some level within the Society, remember you only get out of the organization what you put into it. Included in this issue of the newsletter is the ballot to elect new officers. Please take the time to consider the fine slate of candidates that our membership committee has put together and vote for the ones you feel will make a positive contribution to the Chapter. Do yourself a favor ... get involved! 

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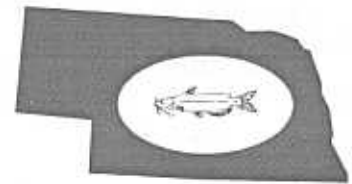
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Iowa - Nebraska Joint Chapter Meeting



January 29-31, 1996
Frontier Motor Lodge
Council Bluffs



It's official, the 1996 Chapter meeting will be held with Nebraska in Council Bluffs at everybody's favorite hotel the Best Western Frontier Motor Lodge. It will be great chance to share with our western neighbors and see what's been going on since he last time the two Chapters met jointly in 1994. Gary Siegwarth says "there will be several forms of after-hours entertainment available such as the dog track, slot machines, and possibly a mini bowling tournament (Iowa vs. Nebraska). Some of the other events will be our usual white elephant auction, a tour of Nebraska's new State fish aquarium facility, and possibly a speaker or other cheap entertainment during the banquet." 



First Call for Papers

We are requesting oral and poster presentations for the joint chapter meeting with Nebraska at the end of January. This is an excellent opportunity to exchange ideas and educate Nebraskans to some of the excellent fisheries work going on in Iowa.

We are asking presentations to remain between 15 and 20 minutes long depending on the number of papers received. Please submit presentation requests and special needs (i.e.. video) to Gary Siegwarth. He will forward this information to our new president-elect once elected.

Gary Siegwarth
Manchester Hatchery
RR2 Box 269
Manchester, IA 52057

Iowa Women in Natural Resources

The Iowa Women in Natural Resources are sponsoring a seminar "*Keeping the Balance*" at Springbrook Education Center on February 22-23. This professional development conference is for both adults working in natural resources and those interested in getting into this field. Subjects covered range from balancing work and home life to balancing politics and ecosystem management. Registration fees have not been set. For more information, contact Anjeanette Perkins at (515) 432-2823 or write her at:

Wildlife Research Station
1436 255th Street
Boone, IA 50036



Wyoming Trout Study

An eight year Wyoming Game and Fish Department fisheries study initiated on the North Platte river (NPR) in 1992 represents the largest fisheries study ever initiated in Wyoming. The quality of trout fishing in the North Platte system has steadily declined since the 1970's. Factors cited include: 1) expansion of walleye throughout the system during the 1970's and 1980's and their impact on newly planted trout, 2) accumulation of sediments reducing both the quantity and quality of trout spawning habitat, and 3) increases in piscivorous bird numbers, mainly cormorants and pelicans, which feed on newly planted trout.

The study's goal is to maximize angler returns of hatchery-reared fish. The NPR is open to both downstream movement of fish through dams and upstream migration of fish into flowing water above reservoirs. Thirty unique groups of trout are planted per year and Coded Wire Tags (CWT's) will be used to evaluate the success of trout stocking. over 2 million trout have been adipose clipped and batch marked with CWT's to date. Marking is used to identify strain, size at stocking, and plant location. Over 4,000 tags have been recovered and decoded. An additional 10,000 are expected to be recovered in 1995 when a programmed creel survey of the entire NPR system is initiated.

Six primary objectives have been prioritized:

1) Determine the contribution of hatchery fish to each fishery. For this objective all hatchery fish are marked with both an adipose clip and a CWT. Preliminary data suggests that 96% of the trout standing crop in the reservoir fisheries are hatchery fish. The contribution of hatchery fish to the riverine systems has been low (<25%). The decision will be made to continue or cease river plants with the results of the 1995 creel survey.

2) Evaluate species and strain contribution/survival to each fishery. The Wyoming Game and Fish Department maintains several brood strains, from which eggs are taken to meet management planting requests. By batch marking trout with CWT's to identify strain and date of plant, the data can be used as input for survivor models to quantify annual survival rates. The creel survey will determine the strains which survive and contribute best in a particular water. They can be targeted to that fishery; thus maximizing the use of hatchery space.

3) Determine contribution of drift and upstream movement to each fishery. By batch marking all trout to identify planting origin it will be possible to quantify the proportion of the harvested trout whether upstream or downstream in a given water. Owing to a drought in the intermountain West, movement of trout has been minimal. Over 96% of tag returns have been recovered in the water in which they were planted. This is critical information in evaluating how modification of a stocking program on a given water

influences the quality of fishing both upstream or downstream of that water.

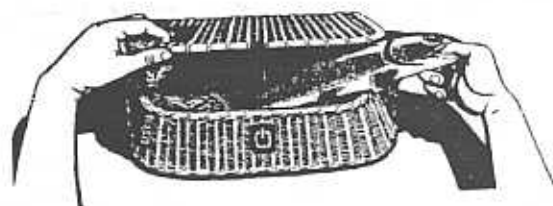
4) Evaluate size at stocking and survival/contribution to each reservoir fishery. Expansion of walleye populations in the NPR system over the last two decades led fisheries managers to dramatically alter the size of stocked trout. In three mainstream reservoirs, three million 3" rainbow trout were planted in 1975. Now, the stocking schedule calls for 400,000 catchable 8" fish to provide the best possible fishing in the face of walleye predation. To examine this predator-prey interaction, a size at stocking study in 1994 was initiated. Equal numbers of two strains and two sizes (6" versus 8") were planted into two reservoirs. The 1995 creel survey will allow an economic analysis of the trade-offs of planting 6" or 8" trout. Should 6" trout do well, the potential to increase reservoir plants by 75% at little additional cost may be realized.

5) Evaluate fish distribution methods. A 1994 study was begun to quantify the trade-offs of planting fish by barge versus truck. CWT's were used to mark lots, while Global Positioning System was used to determine planting coordinated. Three weeks after planting, gillnets and a purse seine were used to sample the newly planted fish. Coordinates of sampling locations were also recorded. Once read, the CWT's help determine the approximate distance individual fish traveled. Again, the creel study in 1995 will track distribution through tag returns.

6) Culture experimentation. A study was initiated in 1994 to assess if providing cover for trout throughout their hatchery life, would condition them to seek similar cover once released into the wild. Two lots of fish (covered versus uncovered) were batch marked with CWT's and released into the NPR below Gray Reef Dam. A University of Wyoming graduate student, overseeing a study to quantify loss of trout to piscivorous birds, has recovered some 300 tags from the gizzards of cormorants. One bird, examined shortly after planting contained 90 tags! This data indicates that efforts to condition trout to seek cover were futile.

For more information contact Daniel Yule, Wyoming Game and Fish department, 3030 Energy Lane, Suite 100, Casper WY 82604; (307) 473-3415

Taken from *River Crossings*, vol. 4, no. 2, March/April 1995





Fish Abbreviations



ABL	American Brook Lamprey	CRD	Crystal Darter	PUM	Minnow - Pugnose	SAS	Shiner - Sand
AEL	American Eel	LOD	Dace - Longnose	SUM	Minnow - Suckermouth	SIS	Shiner - Silverband
BAD	Banded Darter	PED	Dace - Pearl	WSM	Minnow - Western Silvery	SFS	Shiner - Spottfin
BAK	Banded Killifish	RED	Dace - Redside	CYX	Minnows - Mixed Cyprinids	STS	Shiner - Spottail
SFB	Bass - Kentucky Spotted	SRD	Dace - Southern Redbelly	MHX	Minnows - Mixed Species	TOS	Shiner - Topeka
LMB	Bass - Largemouth	BAD	Darter - Banded	MSH	Mississippi Silvery Minnow	WES	Shiner - Weed
RKB	Bass - Rock	BLD	Darter - Blackside	MOE	Mooneye	SHR	Shorthead Redhorse
SMB	Bass - Smallmouth	BND	Darter - Bluntnose	MOF	Mosquitofish	SNG	Shortnose Gar
TBX	Bass - Temperate Mixed	CRD	Darter - Crystal	MOS	Mottled Sculpin	SHS	Shovelnose Sturgeon
WHB	Bass - White	FAD	Darter - Fantail	MUD	Mud Darter	SFC	Sicklefin Chub
YLB	Bass - Yellow	IOD	Darter - Iowa	CEM	Mudminnow - Central	SIC	Silver Chub
EMB	Bigmouth Buffalo	JOD	Darter - Johnny	MUK	Muskellunge	SVL	Silver Lamprey
BMS	Bigmouth Shiner	LED	Darter - Least	NHS	Northern Hog Sucker	SRH	Silver Redhorse
BKB	Black Buffalo	MUD	Darter - Mud	NOL	Northern Logperch	SIS	Silverband Shiner
BLB	Black Bullhead	ORD	Darter - Orangethroat	NOP	Northern Pike	BRS	Silverside - Brook
BLC	Black Crappie	RAD	Darter - Rainbow	OSS	Orangespotted Sunfish	SKH	Skipjack Herring
BLR	Black Redhorse	RID	Darter - River	ORD	Orangethroat Darter	SLD	Slender Darter
BLS	Blackchin Shiner	SLD	Darter - Slender	OZM	Ozark Minnow	SLM	Slender Madtom
BKD	Blacknose Dace	WSD	Darter - Western Sand	PAF	Paddlefish	SLS	Slimy Sculpin
BKS	Blacknose Shiner	GID	Darter - Gilt	PAS	Pallid Shiner	SMB	Smallmouth Bass
BLD	Blacknose Darter	FWD	Drum - Freshwater	PLS	Pallid Sturgeon	SBF	Smallmouth Buffalo
BLT	Blackstripe Topminnow	EMS	Emerald Shiner	PED	Pearl Dace	SRD	Southern Redbelly Dace
BUC	Blue Catfish	FAD	Fantail Darter	PIP	Perch - Pirate	SPC	Speckled Chub
BUS	Blue Sucker	FAM	Fathead Minnow	YEP	Perch - Yellow	SFS	Spottfin Shiner
BLG	Bluegill	FHC	Fathead Catfish	PIP	Pirate Perch	STS	Spottail Shiner
BND	Bluntnose Darter	FLC	Flathead Chub	PLM	Plains Minnow	SPC	Spotted Sucker
BNM	Bluntnose Minnow	FRM	Freckled Madtom	PLT	Plains Topminnow	STT	Starhead Topminnow
BOW	Bowfin	FWD	Freshwater Drum	PUM	Pugnose Minnow	BSB	Stickleback - Brook
BRM	Brassy Minnow	LNG	Gar - Longnose	PUS	Pugnose Shiner	STC	Stone Cat
BRS	Brook Silverside	SNG	Gar - Shortnose	PKS	Pumpkinseed	CES	Stoneroller - Central
BSB	Brook Stickleback	GHS	Ghost Shiner	QCS	Quillback Carpsucker	LSS	Stoneroller - Largescale
BKT	Brook Trout	GID	Gilt Darter	RAD	Rainbow Darter	LAS	Sturgeon - Lake
BRB	Brown Bullhead	GZS	Gizzard Shad	RAS	Rainbow Smelt	PLS	Sturgeon - Pallid
BRT	Brown Trout	GRH	Golden Redhorse	RAT	Rainbow Trout	SHS	Sturgeon - Shovelnose
BLB	Buffalo - Bigmouth	GOS	Golden Shiner	RES	Red Shiner	SGC	Sturgeon Chub
BKB	Buffalo - Black	GDE	Goldeye	RSF	Redear Sunfish	BUS	Sucker - Blue
BFX	Buffalo - Mixed Species	GDF	Goldfish	RFS	Redfin Shiner	SPS	Sucker - Spotted
SBF	Buffalo - Smallmouth	WHA	Grass Carp	BLR	Redhorse - Black	WHS	Sucker - White
BLB	Bullhead - Black	GRP	Grass Pickerel	GRH	Redhorse - Golden	RHX	Sucker, Redhorse Mixed
BRB	Bullhead - Brown	GRC	Gravel Chub	GRR	Redhorse - Greater	SUM	Suckermouth Minnow
BHX	Bullhead - Mixed Species	GRR	Greater Redhorse	RIR	Redhorse - River	GSF	Sunfish - Green
YEB	Bullhead - Yellow	GSF	Green Sunfish	SHR	Redhorse - Shorthead	LOS	Sunfish - Longear
BUM	Bullhead Minnow	HFC	Highfin Carpsucker	SRH	Redhorse - Silver	SFX	Sunfish - Mixed Species
BUR	Burbot	NHS	Hog Sucker - Northern	RHX	Redhorse, Sucker Mixed	OSS	Sunfish - Orangespotted
CRP	Carp - Common	HOC	Hornyhead Chub	RED	Redside Dace	RSF	Sunfish - Redear
HFC	Carpsucker - Highfin	IOD	Iowa Darter	RCS	River Carpsucker	TAM	Tadpole Madtom
CSX	Carpsucker - Mixed Species	IRS	Ironcolor Shiner	RID	River Darter	TBX	Temperate Bass Mixed
QCS	Carpsucker - Quillback	JOD	Johnny Darter	RIR	River Redhorse	NXM	Tiger Musky
RCS	Carpsucker - River	SPB	Kentucky Spotted Bass	RIS	River Shiner	TOS	Topeka Shiner
BUC	Catfish - Blue	LAC	Lake Chub	RKB	Rock Bass	BLT	Topminnow - Blackstripe
CCF	Catfish - Channel	LAS	Lake Sturgeon	ROS	Rosyface Shiner	PLT	Topminnow - Plains
FHC	Catfish - Flathead	ABL	Lamprey - American Brook	SAS	Sand Shiner	STT	Topminnow - Starhead
CEM	Central Mudminnow	CHL	Lamprey - Chestnut	SAU	Sauger	BKT	Trout - Brook
CES	Central Stoneroller	SVL	Lamprey - Silver	SXW	Saugeye	BRT	Trout - Brown
CCF	Channel Catfish	LMB	Largemouth Bass	MOS	Sculpin - Mottled	RAT	Trout - Rainbow
CHL	Chestnut Lamprey	LSS	Largescale Stoneroller	SLS	Sculpin - Slimy	TRP	Trout-Perch
CRC	Chub - Creek	LED	Least Darter	BMS	Shiner - Bigmouth	WAE	Walleye
FLC	Chub - Flathead	LOS	Longear Sunfish	BLS	Shiner - Blackchin	WAR	Warmouth
GRC	Chub - Gravel	LOD	Longnose Dace	BKS	Shiner - Blacknose	WES	Weed Shiner
LAC	Chub - Lake	LNG	Longnose Gar	COS	Shiner - Common	WSD	Western Sand Darter
SFC	Chub - Sicklefin	FRM	Madtom - Freckled	EMS	Shiner - Emerald	WSM	Western Silvery Minnow
SIC	Chub - Silver	SLM	Madtom - Slender	GHS	Shiner - Ghost	WHA	White Amur
SPC	Chub - Speckled	TAM	Madtom - Tadpole	GOS	Shiner - Golden	WHB	White Bass
SGC	Chub - Sturgeon	MIS	Mimic Shiner	IRS	Shiner - Ironcolor	WHC	White Crappie
HOC	Chub Hornyhead	BNM	Minnow - Bluntnose	MIS	Shiner - Mimic	WHS	White Sucker
CRP	Common Carp	BRM	Minnow - Brassy	PAS	Shiner - Pallid	WXS	Wiper
COS	Common Shiner	BUM	Minnow - Bullhead	PUS	Shiner - Pugnose	YLB	Yellow Bass
BLC	Crappie - Black	FAM	Minnow - Fathead	RES	Shiner - Red	YEB	Yellow Bullhead
CRX	Crappie - Mixed Species	MSH	Minnow - Mississippi Silvery	RFS	Shiner - Redfin	YEP	Yellow Perch
WHC	Crappie - White	OZM	Minnow - Ozark	RIS	Shiner - River		
CRC	Creek Chub	PLM	Minnow - Plains	ROS	Shiner - Roseyface		

Artificial Angst

Match the lure to the manufacturer

- | | |
|--------------------|---------------------|
| 1 Jitterbug | a. Cotton Cordel |
| 2 Hot Lips Express | b. Smithwick |
| 3 Fat "A" | c. Norman Lures |
| 4 Shad Rap | d. Luke Jensen Bass |
| 5 Wally Diver | e. Fred Arbogast |
| 6 Zara Spook | f. Bill Lewis Lures |
| 7 Rat-L-Trap | g. Normark Rapala |
| 8 ZZ Top Lure | h. Bomber |
| 9 Pop-R | i. Rebel |
| 10 Rattlin' Rogue | j. Heddon |

Answers 1-e, 2-d, 3-h, 4-g, 5-a, 6-j, 7-f, 8-c, 9-i, 10-b

Rating:

1-3 correct - corn king, 4-6 - worm drowner,
7-8 - troller, 9-10 - cast master



How Big is Big?

Match the "Bass" Species with the Hook & Line World Record Weight

Species	Lbs. - Ozs.
1. Largemouth Bass	A. 66 - 0
2. Peacock Bass	B. 6 - 7
3. Smallmouth Bass	C. 8 - 15
4. Rock Bass	D. 11 - 15
5. Redeye Bass	E. 2 - 7
6. Roanoke Bass	F. 3 - 9
7. Spotted Bass	G. 22 - 4
8. Striped Bass (Inland)	H. 2 - 4
9. Suwannee Bass	I. 9 - 1
10. White Bass	J. 3 - 0
11. Yellow Bass	K. 8 - 3

Answers: 1-B, 2-J, 3-D, 4-F, 5-X, 6-E, 7-C, 8-A, 9-I, 10-G, 11-K

Rating:

1-3 correct - face in the crowd, 4-6 - tournament qualifier, 7-9 - Bassmaster champion, 10-11 - B.A.S.S. Angler-of-the-Year



Brain Teasers

Did You Know?

The estimated total catch for Iowa bluegill was 10,586,864 fish in 1994.

License sales decreased in Iowa by about 120,000 from 1981 (482,000) to 1994 (364,246).

22% of the anglers in Iowa were women in 1994.

90% of licensed anglers began fishing before the age of 16.

83% of anglers in 1994 felt they were getting their money's worth with a fishing license.

1994 anglers most preferred to fish for catfish and largemouth bass.

Bluegill, crappie, and largemouth bass were the most frequently caught fish in 1994.

Bullhead and carp comprise a smaller percentage of the total catch in 1994 than in 1986 or 1981.

Iowa anglers caught an estimated 39.8 million fish in 1994.

Information compiled from:

Fishing in Iowa, A Survey of 1994 Iowa Anglers. Center for Social and Behavioral Research, University of Northern Iowa, Spring 1995.



Meetings of Interest



Oct 11-13 International Symposium on Biology, Management, and Economics of Crabs from High Latitude Habitats. Regal Alaskan Hotel, Anchorage, Alaska. Contact Brenda Baxter, Alaska Sea Grant College Program, P.O. Box 755040, Fairbanks, Alaska 99775; 907/474-6701

Oct 16-18 The Conservation and Management of Freshwater Mussels II: Initiatives for the Future. Embassy Suites Hotel, St. Louis, MO. Contact Alan Buchanan, Missouri Department of Conservation; 314/882-9880

Nov 6-10 48th Annual Meeting of the Gulf and Caribbean Fisheries Institute. Jaragua Hotel, Santo Domingo, Dominican Republic. Contact James Burnett-Herkes, GCFI, 266 Meeting St. Charleston, SC 29401

Nov 16-19 27th Annual Symposium of the Desert Fishes Council. Peppermill Hotel Casino, Reno, Nevada. Contact Phil Pister, Desert Fishes Council, P.O. Box 337, Bishop, CA 93515; 619/872-8751.

Dec 3-6 Annual Meeting of the AFS North Central Division. Westin Hotel, Detroit, Michigan. Contact Jim Diana, School of Natural Resources, University of Michigan, Ann Arbor, MI 48109; 313/763-5834

Feb 23-25, 1996 Midterm Meeting of the AFS Southern Division. Adam's Mark Riverview Plaza, Mobile Alabama. Contact Mark Mazik, National Biological Service, Southeastern Fish Cultural Laboratory, Rt. 3 Box 86, Mion, AL 36758; 334/683-6175

Jul 14-18, 1996 International Congress on the Biology of Fishes. San Francisco State University, San Francisco, California. Sponsored by the AFS Physiology Section. Contact Don MacKinlay, Fisheries and Oceans, 555 W. Hastings St., Vancouver, BC V6B 5G3; 604/666-3520

Aug 25-29, 1996 The 126th Annual Meeting of the AFS. "Sustainable Fisheries: Economics, Ecology, and Ethics." Hyatt Regency Hotel, Dearborn, Michigan. Contact Paul Brouha, AFS, 5410 Grosvenor Lane, Ste. 110; Bethesda, MD 20814-2199; 301/897-8616

The American Fisheries Society supports the conservation of North America's fisheries and aquatic ecosystems by promoting professional excellence in fisheries science, management, and education.

DES MOINES, IA DCR#4



Mark A. Cornish, Newsletter Editor
Fairport Fish Hatchery
3390 Highway 22
Muscatine, IA 52761



DICK MCWILLIAMS
1436 255TH
BOONE IA 50036