

Houses at Margaree Harbour oil 61x91 by Joy Laking \sim www.joylakinggallery.com

Margaree Salmon Association Spring Newsletter 2016

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THE PRESIDENT



By LESTER WOOD MSA PRESIDENT

Currently about half our memberships are "Life". That means

by renewals. Please help us by ensuring you are up to date. We are financially sound and soon will share with you more

the annual operating costs of the association are borne largely

he winter has not been harsh and the spring run from the highland snows has not been wild - yet nevertheless quiet high. Hopefully a good sign for the fishery this year.

With a near full board, we have been working through the

winter coming to grips with the organization required to offer full service to the membership. It is interesting and stimulating to sit around a table with a group of diverse people exchanging ideas.

Vice President Bill Haley and I presented at two federal committees. I had the great pleasure of meeting Federal Fisheries Minister, Hunter Tootoo, who expressed interest in our activities.

Annual Meeting | Salmon Dins

information for future funding needs.

ST PATRICK'S HALL & NORTHEAST MARGAREE

We've hired a full time staff person

Our summer

projects include

Adopt-A-Stream,

concentrating on

we are aware the

main river needs

attention. In the

past we have felt MSA lacked the

strength to tackle

the main branches

of the waterway.

now feel we can

pools, the banks,

and the watershed

on a broader basis.

begin reviewing the

However we

renovation work in the tributaries. But

for a six month period to co-ordinate the development of various watershed studies, giving a basis for a longer view.

We have leased our office for another year. We are also considering a future permanent home.

We look forward to seeing you through the season! You are warmly invited to the fall AGM and dinner auction on Thanksgiving Weekend.

Bill Haley spearheaded working groups with DFO and we hope such cooperation will foster continued support for MSA projects.

Today's world of electronic communication is becoming the norm and MSA must move accordingly. We are continually adding to our website and are using Facebook to broaden our reach. To some of us this is a new world, but we must move in this direction to strengthen our support and membership.

~ Lester Wood



Autumn Kelt Research Project



BY BILL HALEY

MSA VICE PRESIDENT

"Jay-zuss, this ain't easy!"

I was lumbering up a steep hillside, over a dusting of slippery snow, hauling a salmon in a protective water sleeve. *Cripes*, *must be over 35 pounds...*



Photo: Bill Haley

After a brief surgery to insert a radio transmitting acoustic tag, I would then re-slip my steps to get this treasure back to the river as quickly as possible. There was, it occurred to me, real work in all this volunteer stuff.

We were working alongside Xavier Bordeleau, in year two of his Dalhousie University PhD research project tracking salmon kelts in the Bras D'Or.

During the fall of 2014 Xavier had tagged spawned-out (kelt) salmon in the Middle and Baddeck waters and tracked them as they left the rivers, travelled through the Bras D'or Lakes and out into the Atlantic Ocean.

The acoustic tags are robust. They have a life expectancy of

four years. This opens the exciting possibility of more research detecting the repeat spawners. Preliminary findings generally showed that salmon with smaller body masses left the river to resume feeding in the early winter while larger "fatter" fish over-wintered in the river and exited in the spring.

It is still to be determined if some salmon stay in the Bras D'or for their entire adult life – an intriguing part of this study.

Last year's twenty-one tagged salmon included seven brood stock fish being returned by the Margaree hatchery, six fish caught by angling, and eight hatchery-spawned kelts tagged to the Baddeck River. Six of these twenty-one fish may have died during the winter in the river as there was no record of them passing the receivers placed at the river mouth. Another five fish went missing after entering Nyanza Bay, at the mouth of the river, during January/February 2015.



Danny, Xavier, and Leah operate carefully, quickly.

Xavier was determined to capture and tag more kelts in 2015. He asked if we (Margaree Salmon Association's Leonard Forsyth, Greg Lovely and Bill Haley) would join ASF Regional Director Lewis Hinks in assisting his team. Without hesitation we agreed to help. Together, we added another forty kelts to

Photo: Bill Haley

bring his two year total to sixty-one.

Xavier had already organised a team of eight including several First Nations anglers. He also had the help of two graduate students, Danny Farrar and Leah Strople, for technical support. Danny graduated with a B.Sc. in Biology last April and Leah is a fourth year student studying Marine Biology.



Photo: Bill Haley

We began fishing November 25th and could fish under special licences until December 16th if needed. Xavier had 25 acoustic tags he wanted to implant surgically. We got off to a great start. Leonard and Xavier landed three salmon on the first day.

Each landed fish was sedated and the transmitter surgically implanted before the fish was revived. When ready, the salmon was carefully raced back to the river and monitored both visually and electronically to insure its safety.

The weather varied from snow flurries to bright sun, but most days were mild and made for comfortable fishing. Some fish were quite dark while others were bright and appeared to have recently entered the river.

By December 10th, all 25 tags were implanted in six male and nineteen female salmon. Forty salmon were landed: thirty-four females and six males. Extra effort was made to



Lewis Hinks and Leonard Forsyth prep for a research day. Photo: Bill Haley

catch fair representation of male fish as only four of the first thirty-two salmon landed were males. These are general numbers, as Xavier and his assistants recorded the official, detailed records. Only one tagged salmon was recaught, and this fish fought and jumped energetically with no sign of fatigue. Not a bad show for a post-op!

The receiver array that picks up signals from the fish was previously installed over a wide area: in the rivers, at the river mouths, in the Bras D'or, at the three exits points to the ocean, and offshore between Cape Breton and Newfoundland/Labrador.

I checked in with Xavier this past March and, not surprisingly, he had already been out on the water. He reported finding nineteen fish in the Middle River's crystal clear water. However, out in Nyanza Bay and St. Patrick's Channel on the Bras D'Or he detected no fish. The mouth of the Baddeck River was still ice covered, so details were not available there.



noto: Bill Hale

Xavier Bordeleau - Hands on research

Xavier plans to continue tracking every month through the season and have the entire receiver array downloaded by August. To fully download the complete data set, a diver must physically retrieve the units. How long the receiver array remains out in the ocean is not known as it is outside the control of Xavier's project.

Our best environmental decisions come from good science. We eagerly look forward to his final report, which should be out later this year.

From an angling perspective, we enjoyed the daily adventure of participating in this project. We also are looking forward to the Spring 2016 Kelt Project on the Margaree River – and to revisiting the 82 kelt salmon tagged at the hatchery in the fall of 2015.



RIVER WORK & Adopt-a-Strfam



Paul MacNeil & Mike Allen MSA DIRECTOR

t was the first nice day in April, and I stepped down off the road by Doyle's Bridge. Or at least where the second Doyle's bridge used to be. Turned out this was not the best route to the river. Silty, clogged, full of organic debris. They way I was high stepping, it felt more like I was doing river yoga.

Photo: Where the bridge used to be..

Examples of this aren't hard to find in nature. Winds and moisture swirl in ways that surprise us with the most delightfully intricate snowflakes. In the fall we watch hundreds of starlings swirl in flowing murmurations. Each bird compelled to stay with the flock, while at the same time trying like crazy to avoid collision with the one next to it.



The pools below the bridge have been changing in the past few years, undecided where they want to go. Fence Run has fished at times in abundance, at others times a void. People worry about the river getting out of control. They wonder what can be done about it.

There certainly is evidence strewn about the river – cables, logs, slipped rock-fills - enough to suggest that trying to redirect the main flow is harder than it looks. Over the past twenty years or so it has become clearer that what affects the river happens mainly on the streams and tributaries that feed into it. That the best way to fix up the river is to fix upriver.

And so too with the Margaree. What starts as an efficient route for water to get from the Highlands to the Gulf of St. Lawrence, somehow transforms eddies and currents, and stones into complex pools, compound curves and vistas that makes one stop, turn and stare at the beauty.

This is emergence. The physical process where large complicated things come out of small simple ones without any obvious connection at all.

MSA will be investing \$58,405 into the river in 2016, primarily in our tributaries. Down by Margaree Harbour where the river is more agricultural, marsh and mixed forest, we'll be working on channelling Scotch Mill Brook. For almost a kilometre we'll



shore banks, install both diggers and diverters.

Off the Southwest Margaree we'll work in primarily trout areas in Captain Allan's Brook for about half a kilometre. The work here is confined by the largely forest area, so we'll be using hand power saws and tools. We hope to get in as many as seven diggers/diverters.

Back on the Northeast Margaree we'll continue work in Marsh Brook. We'll work about three quarters of a kilometre of the Timmons valley, largely in farm or marshy areas. Some work here may need the use of an excavator, and possibly a rock wall. With good conditions we may get as many as nine diggers/diverters installed.

As we add structures to these tributaries over the years, it's worth noting that they are depreciating assets for the river. And with active maintenance we can extend their useful life significantly. We'll be filling holes in our schedule with maintenance through these areas and other existing structures in our watershed.

Again we hope to use over 400 volunteer hours and give more than 55 weeks of work in the area. We estimate that our efforts add more than \$100,000 to the local economy.



Photo: Edsel Hart

Free flowing, naturally structured, and well oxygenated streams deliver clear flowing silt-free water to the Margaree. They are nature's own hatcheries - giving the top biomass the rest of us so enthusiastically chase as "fish".

Watersheds are large, complicated things. They are very difficult to wrap a master plan around. A few weeks ago I met with a friend who has been working on a master plan for his river on the mainland for over 20 years. He wonders if it's even possible. So maybe it's best that we continue working on small parts of the area, noting carefully the effect of our efforts in succeeding years. Perhaps our efforts are best when allowed to emerge into a greater plan – even if we only see the plan clearly years from now.

Do you have a question or suggestion for the river? Please join in our discussions and decisions. Let us know if you are able to help with costs, or time or equipment. Add in something that fits, piece into the emerging plan of our river.

So even if all you've done is read this far, welcome! You too are now part, in some small way, of the Margaree's Adopt-a-Stream program.



Photo: Rich MacNeil



Striper Diet Study Update



By John Stinson MSA Secretary

In late October we made our last cast for stripers for 2015. Leonard Forsyth, Greg Lovely, Gilles Paulin and Bill Haley fished the mouth of the Margaree River with fly and spinning gear. We landed six mackerel, including one half eaten by our only striper.



We fished for Dr. Cindy Breau's DFO Striper Diet Study in June (twice), July, August, and October. Over the year we caught 81 stripers under a special fishing licence.



We await Dr. Breau's findings. Preliminary reviews suggest a diet of small trout, sliversides, mummichogs, and green crabs.

THE Spiders FISH TOO

DONNIE B.

Okay so Bill asked me to write about fishing spiders. Some of this is from Google, but mostly it's stuff I've observed out on the river, just by watching.

They are all over the river. In the woods, too. Down on the forest floor. They don't use webs for hunting, but mainly for nests and raising their young. You see those a lot early mornings in August and September, all over the place, covered in the dew. But mostly you see the spiders themselves out on the shingle.

They've got eight eyes, two sets of four. One row on top of the other and curved a bit. They see real good, that's why they dart about when you get close to them. You see them sitting there and then they flit into a crack between the rocks just like that. Tan and black stripe, large tan one down the centre, prominent like.

Snakes eat them, and birds. But also wasps, who sting them and lay eggs in their bodies. Eat the spider from the inside out. The wasp larvae I mean.



Photo: Bill Hale

They eat fishermen. No they don't haha, but they are big for spiders. Three, four inches across. They eat other insects, but also fish when they can get them. Think I have a Youtube of that somewhere.



Broodstock & Hatchery Report



By Greg Lovely

MSA Director

"Awesome, the power of nature... er, wait a minute, didn't we just strip the milt outta that one?!"

measured and scale samples taken. Eggs and milt were then extracted.

Afterwards, they were tagged and released. Hence our punch drunk grilse, just one of the 80 or so fish marked this year for next spring's Department of Fisheries Kelt Research Project.



Photo: MIKe,

Indeed we had. After being, sized, tagged, and stripped, this buck was ripping up Ingraham's Brook from the Hatchery Pool like some Halifax bar scene drunk, all hotted up for that oh-so-important last date of the night...

This was back in November. I had dropped by the Margaree Hatchery and found the broodstock we helped capture from Doyle's Bridge Pool in August were still on hand, along with additions from the Middle, Baddeck and Mabou rivers.

Each rivers' broodstock were kept in separate tanks to protect their genetic integrity. I had the opportunity to view the process of spawning these fish. It was fascinating. The salmon were sedated using a mild neurotoxin to make handling of the fish easier and safer. Then they were weighed, their lengths

MSA will assist DFO in capturing kelts again in 2016. Should you happen to come across one of the small green tags on a dorsal fin of a salmon, please report the number to Bobby Ingraham at the hatchery (902) 248-2845.

Back inside the hatchery, samples of unfertilized eggs were labeled to be sent up to the Agricultural College in Truro. Careful records are kept, so if a batch of eggs does test positive for disease, they can be removed from the genetic pool. After fertilization, eggs are then carefully monitored until March when they hatch out.

I returned to the hatchery this past March - and what a wonderful surprise. Thousands of tiny alevins swimming about with their yolk sacks attached!



On average, 18% of the fish returning to the Margaree are hatchery fish. This is tracked by clipping the adipose fin (yep, with scissors, thousands upon thousands of times by hatchery staff and MSA volunteers). Stock are clipped in November through February and released into various spots around the



Photo: Greg Lovely

river.

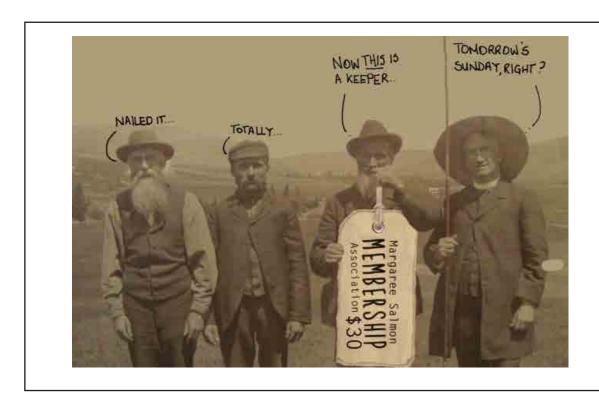
In total, we clipped about 65,000 parr over six or eight clipping sessions. Thousands of smolt are also released annually, along with more than 200,000 trout fry.

This was my first time witnessing and assisting all this work at the hatchery - and it was a fantastic learning experience. The



MSA supports and thanks the hard working, professional staff at the Margaree Hatchery; Bobby Ingraham, Andrew Morrison, John Carrigan and Wendy MacEachern.

The Margaree Hatchery plays a big part in ensuring the future of atlantic salmon and trout on the Margaree and other waters in the area.



Join or Renew Your Membership Online - visit www.margareesalmon.ca



EMMA GARDEN TO LEAD CABIN STUDY



By Greg Lovely

MSA Director

Unama'ki Institute of Natural Resources' researcher Emma Garden will lead a CABIN study of the Margaree this autumn.

CABIN stands for *Canadian Aquatic Biomonitoring Network*. This is a standardized study of watersheds across Canada. What's significant is that CABIN results are stored on a common database providing further research opportunities for us, and allowing others to use our findings.

Our study will be on the Benthic zones of the river – the bottom layers. Here Emma will concentrate on measuring the

types and numbers of invertebrates. Water quality will also be assessed.



Unama'ki Researcher **Emma Garden**





For example, Emma will track acidity and dissolved oxygen levels along with phosphorus, nitrogen, and silt. It really is about the food in the river.

MSA is joining up with the South Inverness Angler's Association to set up and monitor five sites on the Margaree, and several more on rivers near Mabou.

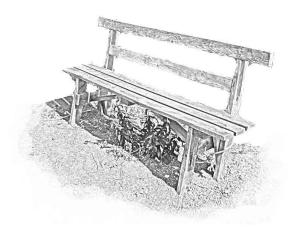
In 2015 Emma studied seven Unama'ki (Cape Breton) rivers, and her results are impressive and encouraging. Our waters are clean and productive.

Emma holds a Master's degree in Water Resources Engineering from the University of Guelph in Ontario and a BSc in Environmental Studies from Saint Mary's University in Halifax. She is a certified aquatic insect taxonomist.

We look forward to seeing the results!







BENCHMARKS

Dodi and I were fishing down low, Tompkins and below, looking for fish on the tide. It was the first warm day of the season, and we were in shirtsleeves. Dodi's T-shirt said on the front, Saw my ex-wife from the bridge. On the back it said, not enough weight.

Kenny had already passed through, stomped up the shingle and plopped his carcass onto the bench. When we got there he said, "Of the forty kelts those Dal scientists took on Middle River last December, only six were buck."

"Really," said Dodi, "I heard they only got eight male in all them fish, the eighty they took out of Doyle's last September. You know, for the hatchery broodstock."

"Back in the 90s it seemed like only a third the fish we were getting were male grilse."

"All gril now," said Dodi. "I took 69 fish last year and only two were MSW males. Betcha three quarters of the fish were male gril."

"Took or took and put back?"

"Smartarse. Put back." Then, "I do miss takin' them home tho'."

Dodi nodded a question towards the head of the pool, and we nodded yes, and as he got up he said, "Somebody should do a count. Keep track of that stuff. Nice to know what the total males to females is. All year, like."

Then he left us, walking up the shingle stopping only once to adjust his waders...





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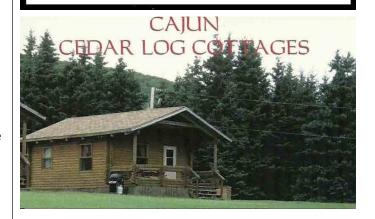
House of Assembly

Nova Scotia Progressive Conservative Caucus

Allan MacMaster MLA, Inverness

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NOTE FROM ASF REGIONAL DIRECTOR



By Lewis Hinks ASF REGIONAL DIRECTOR

have had the pleasure of working with the Margaree Salmon Association for all of the twenty-four years (and counting) that I have been working for the Atlantic Salmon Federation. I must say it has been a great working relationship during that time. I am honoured to have worked with such a dedicated group of volunteers. So many good projects: FLOW (Fishing Ladies Outdoor Weekend), Jim Campbell's Barren and Fish Friends, to name but

a few.



Recently I've been fortunate to participate in some very interesting projects. The spring kelt survey, the striped bass survey and working with Xavier Bordeleau of Dalhousie University on a tracking study of kelts heading into the Bras d'Or Lakes, are all important pieces of river work.

I had the absolute joy of assisting members of the MSA (Bill Haley, Greg Lovely and Leonard Forsyth) in the capture, via angling, of kelts for surgical implant of tags for the tracking study. A first

for me, I was able to fish on my birthday in late November -

without a doubt one of the best birthday presents I have ever received! Added to that thrill, was that this was done as part of a very interesting research project and I look forward to learning more about the results.

Thanks again, to the Margaree Salmon Association for all the great work you do for wild Atlantic Salmon in general, and for the Margaree River in particular. The river and its salmon are fortunate to

have such a caring and dedicated group working on its behalf. Please look at the ASF website www.asf.ca and learn more about the work we do. In particular, see our progress trying to improve the Federal Fisheries Act.: http://asf.ca/first-nations-scientists-and-conservationists-want-improved.html



Photo: Bill Haley



Photo: Bill Hale



Margaree Salmon Association Directors: back row: Eugene Leblanc, Paul MacNeil, Del Muise, Mike Allen, John Stinson, Jack Aikens. front row: Rob Kanchuck, Wayne Cleveland, Bill Haley, Lester Wood, Greg Lovely. missing: Leonard Forsyth, Bert Hart



Photo: Mike Allen





Wayne Cleveland Named Director NSSA

Margaree Salmon Association director Wayne Cleveland was elected to the Board of the Nova Scotia Salmon Association at their AGM in Halifax on April 16, 2016.

t is with pleasure we nominate Wayne Chandler Cleveland for consideration as Director, Nova Scotia Salmon Association, for his dedication and experience in volunteerism and the outdoors.

Wayne is a winner of the Volunteer of the Year Award for Nova Scotia by the Nova Scotia Recreation Association ("RANS") for his commitment and drive on the District No. I Community Centre/Fire Hall. This project totalled over \$600,000 yet was debt free when opened. Wayne served as Secretary for five years.

Wayne has 'wet a line' in every province or territory in Canada except Nunavut. He has hunted moose, deer, grouse, goose, duck and rabbit. His first Atlantic Salmon at the Tompkins Pool on the Margaree came to him on Canada Day 1996 at 9:43 in the morning - and he hasn't stopped thinking about it since.

Other volunteering experience includes the Chester Municipal Recreation Commission for many years, three as chair. He also served two years on the Chester Municipal Development Commission

and is a founding member of the Aspotogan Recreation Association. He is now a member of the Blandford Historical Society. He contributes historical stories to their newsletter

Born March 7, 1936, he is married with three grown children. Wayne has four grandchildren, one of whom has hooked, but not yet landed his first salmon.





Margaree Salmon Association

PO Box 108 Margaree Centre,NS BOE 1Z0

Honourable Minister Hunter Tootoo Minister of Fisheries, Oceans and the Canadian Coast Guard House of Commons OTTAWA, Canada K1A OA6 Hunter.Tootoo@parl.gc.ca

Dear Minister Tootoo:

Re: Resolutions on Recreational Fishing passed at the Annual General Meeting of the Margaree Salmon Association, held last fall in North East Margaree, Cape Breton Island.

I have been directed to forward you the following resolutions. We have brought them forward at Governmental and NGO meetings held in this area but we wanted to be sure that DFO was in receipt. I am forwarding by e-post and sending hard copy to House of Commons as well.

Please find below resolutions resulting from the fall 2015 Annual General Meeting of the Margaree Salmon Association:

- To ensure anglers targeting Atlantic Salmon purchase a Salmon License and complete the
 associated catch and effort log (stub return), that all persons angling during Atlantic
 Salmon season on the normally scheduled portion of the Margaree River system be in
 possession of a valid Atlantic Salmon fishing license.
- To promote healthy lifestyle activities, that all provincial and federal recreational fishing licenses be available at a reduced seniors fee rate to anyone 55 years of age or older.
- 3. To protect kelt salmon exiting the NE and SW branches of the Margaree River each spring, that the opening of trout season on the normally scheduled portion of the Margaree system be delayed until May 15 each year. In addition, that the Atlantic Salmon season open on May 15 each year and that only approved artificial fly fishing methods be used for angling these waters at any time.
- 4. That the Department of Fisheries and Oceans make regulatory changes, so that the angling of striped bass in the Southern Gulf of Saint Lawrence take place from May 1 to Nov 30 each year, and that an angler may retain 1 fish of any size each day.

Sincerely,

Lester Wood
President
Margaree Salmon Association
c.c. to Rodger Cuzner, Cuzner1@parl.gc.ca



Correspondence from the Minister



Ministre des

Ottawa, Canada K14 0E6

MAR 1 5 2016

Mr. Lester Wood President Margaree Salmon Association < margareesalmon@gmail.com >

Dear Mr. Wood

Thank you for your correspondence of February 17, 2016, regarding the Margaree Salmon Association's Annual General Meeting. From your letter, it appears that the meeting was very productive and the membership very engaged.

I read the four resolutions passed by the Association with great interest, and they touch on some very important points. As such, I have forwarded your correspondence to Fisheries and Oceans Canada's (DFO's) regional officials for their information.

I want to assure you that DFO takes the comments and feedback of stakeholders, like yourself, into consideration when determining the management approaches for recreational fisheries. As you note, this is a very important fishery, and we must protect and conserve it for the benefit of current and future generations of Canadians.

Thank you for writing

Yours sincerely

Hunter Tootoo, P.C., M.P. Minister of Fisheries, Oceans and the Canadian Coast Guard

c.c.: Mr. Rodger Cuzner, M.P. Cape Breton - Canso

Canadä[†]





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Jennifer MacPherson

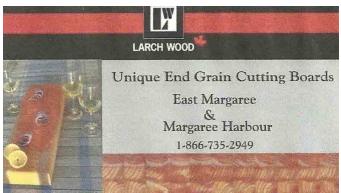
P.O. Box 28, Margaree Valley, B0E 2C0 tel.(902) 248-2182; fax (902) 248-2421 e-mail rmacp@hotmail.com

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Margaree Salmon Association's

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Kharma varries by individual. Courteous pool rotation and reeling in when others hook up has been shown to help. Salmon fishing is not for everyone and may cause short, explosive expletives, elevated conversation levels, and prolonged absences from home. If you or someone you know has experienced salmon fishing for more than four hours, deeply consider a larger donation.



