

NZ Salmon Anglers Newsletter

JUNE 2007 Number 84



Montrose Stream at Rakaia River

**Official Newsletter of the
New Zealand Salmon Anglers Association Incorporated
P.O. Box 1113, Christchurch 8140**

**NEW ZEALAND SALMON ANGLERS ASSOCIATION (INC)
2007-08 OFFICE HOLDERS AND COMMITTEE**

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Committee Meetings: The Committee meets on the first Monday each month (except January) at 7.30 pm in the Fish & Game premises, 3 Horatio Street, Christchurch. Members and supporters are welcome to attend these meetings.

Honorary Auditor: Trevor Hayes

Life Members: Lindsay Dell, Ron Dougherty, Trevor Hayes, John Healy, Ken Hughey, Ross Lightfoot, Athol Price, Stephen Sparrow

Disclaimer: The opinions expressed in any letters and articles in this newsletter are the authors' own and are not necessarily those of the New Zealand Salmon Anglers Association Incorporated or the Editor.



PRESIDENT'S EDITORIAL

My first report as President of NZ Salmon Anglers: where do you start and how can one follow the expertise of our former President, Tim Ellis? Quite easy to start by saying thank you Tim for all the wonderful work you did as President of our Association and for the great contribution you made for us during your term of office. Within your term we have witnessed some wonderful advancement in our salmon management programme and it would be fair to say that because of your efforts and the great contribution of others, we are fishing with a much greater resource of returning fish today. I estimate that we probably have 50–75 % of returning fish that have been part of our salmon enhanced breeding coming into our rivers this season. The other area of your expertise has been and will continue for a period is the knowledge you have in regards to water consent issues and advocating for the preservation of our waterways, rivers and environment, not only for the benefit of our salmon stocks but also for the benefit of our future and our anglers of tomorrow. Thank you Sir for your dedication and your continued support.

On a sad note we acknowledge the departure of Dennis Long's wife, Delsye, on May 16 and on behalf of all members of our Association and all Dennis's fishing buddies, we extend our deepest sympathy.

The exciting part of the current period has been the great work done by Rusty, Doug Roy, John Hodgson and the numerous volunteers, capturing, stripping, fertilising, hatching and recording around 1 million salmon eggs for all the Canterbury enhancement programmes. At the time of writing, plans were being established for the distribution of the incubating stocks within the established enhancement programmes and so the cycle commences. It is absolutely fantastic to be a part of all this effort and dedication.

During one of our trips to Montrose I was privileged to be present and, with a couple of the guys up there to help out, we took a walk down stream to the Rakaia River. On the way we observed numerous pairs of salmon spawning in the stream and their obvious redds. The state of these fish was various with some extremely active and protecting their patch, to others that were spent and in the dying phase. Whilst there was a representation of dead or spent fish in the stream their carcasses were providing a food and source of enrichment to the streambed and waterway. This enrichment provides a foundation of nourishment for the stream marine life, enriches the fertilisation of the stream bed and assists with a food chain for our emerging or future release of new salmon stocks.

Seeing this first hand is absolutely amazing and for many of you a familiar scene. On this occasion and for me it brought home the message of what a wonderful cycle these fish go through and if you did not catch the expected total of fish this year do not be dismayed as the ones that got past you are out there doing their job and increasing the coming season's opportunities.

If you placed your name on the volunteer list expect a call in the coming weeks as we will be out planting the Scotty Boxes in our high country streams and will need your assistance. For any of our members or their friends who have not enjoyed this opportunity, make a point of being available this time as the ongoing rewards of your participation will long be remembered and believe me we visit some wonderful country in the process of this exercise.

Be aware of plans to dam the South Branch of the Hurunui and Lake Sumner, the raising of Lake Coleridge, Central Plains Irrigation scheme gathering momentum and its resource amendments and other water extracting schemes. Didymo in the Hurunui and Rangitata and where next? Do your bit to stop the spread. Sadly (for some) it is blocking the flow of water through the irrigators. We will be under greater pressure than ever before for the taking of our waters for an expanding dairying industry, to feed the irrigation units with the increased profitability through the dairy payouts, so let's work on that money being used to enhance our situation rather than destroy it forever.

It is a great time now to do the cleanup and maintenance on your fishing gear. Go to it and then relax with a new found strategy being developed on how you are going to do it better next season

Ron Stuart

PRESIDENT



SALMON ANGLERS CAPS

**Promote your Association
Buy a Cap**



The caps are navy blue, with a silver/grey salmon, orange print with white and gold stripes. Cost \$20. Each cap you purchase includes a small donation to the Salmon Recovery Programme.

**Order by mail from the NZSAA by sending \$20, plus \$3 for postage,
to P O Box 1113, Christchurch 8140,
or call the Secretary on 383 0900 to pick one up.**

Highlights from the NZSAA Committee Meeting June 2007

The Committee reviewed the allocation of portfolios and responsibilities for each Committee member in an effort to spread the load and concentrate various expertises amongst those members most qualified to undertake specific tasks. More on this matter will be published in future newsletters once all our commitments are finalised. In the meantime you may be called by one of our Committee members in regard to your availability to participate in volunteer work as the responsibility for this task has been shared.

We are currently seeking funding/sponsorship for the purchase of Emergency Locator Equipment which is to be used when our teams venture into country where there are no other forms of communication when an emergency occurs. We have applied to two organisations and are currently awaiting their response.

Membership subscriptions have been rolling in nicely and our Secretary-Treasurer reported an excellent response to date from members. Thank you for your payments - this is really great as we have an increase in expenditure this time of the year with ova planting and other fieldwork. On financial matters we had a good response to our AGM raffles, which gave a boost to funding of \$660. Thanks for the support.

Our new computer is installed and this assists Pam Ellis greatly with the production and editing of the newsletter. Our previous computer was purchased by one of our members and we anticipate he will get great service from it as a home unit.

Amongst the report on our rivers, Tim Ellis and Ron Dougherty attended an environmental type meeting in respect of the Waitaki River, which dealt with proceedings for Meridian to flat line the flow at 150 cumecs, with water abstraction. Not good and the matter continues.

Other issues your committee has been involved in are the objections to the CPW scheme, water abstractions from Cam River, Hurunui, Lake Coleridge, Glenariffe, Rakaia, all of which require considerable input from Tim and Ron D.

On 6 June a meeting held at Fish & Game in respect of Angling Regulations for the 2007-2008 seasons took place and we attended to represent your views as discussed at the AGM.

We are seeking to appoint another couple of members to our committee, to bring in fresh ideas and new blood. This is a wonderful opportunity to be involved in the administration of our salmon fishery, without onerous commitment, but being enabled to make a positive contribution.

Montrose is absolutely full of salmon eggs gathered for the enhancement programme to assist the Rangitata scheme, Rakaia River Promotions and Salmon Anglers projects. Great work has been carried out under the efforts and stewardship of Edgar Russ (Rusty), Doug Roy and other dedicated volunteers. Fertilisation, germination, shocking, sorting, and transfer, are all currently taking place or have just been completed. Salmon Anglers will look to plant ova in Scotty Boxes commencing 9 June at selected locations.

The photos that follow show some of the work that was undertaken at Montrose with the gathering and stripping of returning salmon.

Ron Stuart, President

On behalf of the Committee



**Montrose
29 April 2007**

*Retrieving salmon
from the trap on the
Montrose Stream*



Wot a Whoppa!



Extracting milt from
jackfish



Preparation for
stripping



Stripping eggs from
female salmon

Annual General Meeting

The Annual General Meeting of NZ Salmon Anglers Association was held on Tuesday 15 May 2007 with approximately 55 members and supporters attending.

Outgoing President, Tim Ellis, gave his report for the past year and Auditor, Trevor Hayes, presented the Annual Accounts.

The election of officers and committee resulted in Ron Stuart being installed as the new President and the committee remains much the same as last year.



*Guest Speaker for the evening was
Jason Holland, Environment Officer for
Fish & Game North Canterbury.*

Jason outlined the work he was currently involved with, particularly on water consent issues in Canterbury. Of interest to NZSAA were the following:

- Representation on the Government's Sustainable Water Action Group.
- Participation in Environment Canterbury's Regional Plan meetings
- Central Plains Water applications: F&G putting substantial funding into submissions and hearings. Jason noted that there were no rules for the likes of CPW because the Regional Plan was not finished. Also the Strategic Water Study was likely to favour water storage. CPW's new partial tunnel proposal did not change the environmental issues associated with the scheme. Suggested that anglers look at the F&G website for information to assist making of submissions on this latest proposal.
- Hurunui River: dam proposal at Mandamus confluence rejected by ECan. Dam outlet at Lake Sumner and South Branch would destroy salmon spawning and natural character of the river.
- Selwyn-Rakaia groundwater takes being reviewed by ECan.
- Lake Coleridge: Lake Coleridge receives more angling use than any other high country lake. Recent news item of proposal by mid-Canterbury farmers to establish irrigation scheme by raising lake water levels and seeking to change conditions of Rakaia Water Conservation Order. Jason said that there were other aspects of the WCO that F&G would also like to change so an opportunity to make submissions could also be beneficial to the anglers.

Jason thanked NZSAA members for their assistance in monitoring and reporting local river and water issues.

Angling Regulations 2007-08

At the AGM there was some spirited discussion on suggestions from Fish & Game and your Committee for changes in the Angling Regulations next season:

Shortened Salmon Season

A majority of the members supported shortening the salmon season to the end of March to allow better spawning fish escapement.

Discussion was also held on NZSAA Committee's suggestion to introduce the salmon tag system as a means of limiting large catches. NZSAA made a similar submission to F&G in 2002 when it was rejected "due to expense, but other methods of managing season bag limit were to be investigated." There was limited support from members at the AGM but there was agreement that steps should be taken to discourage large seasonal catches.

Salmon Spawning Streams Closure

Members supported the continued closure for angling of six major salmon spawning streams to try to prevent further didymo infestation.

A suggestion is to be made to F&G that the salmon season be closed after 31 March above the Rakaia, Waimakariri and Hurunui gorges and Waiau River above the Hanmer bridge.

Montrose Stream Confluence

The meeting agreed to recommend to F&G that there be no fishing 100 metres each side of the Montrose Stream at the confluence with the Rakaia River and that this be formalised by gazettal.

Coarse Fishing

F&G intend to close for fishing all the waters illegally stocked with coarse fish in the last several years i.e. the wetland restoration area in Ferrymead, the fishing lakes at Clearwater Resort and the recreational lakes at the Groynes.

NZSAA has concerns that the closing for fishing of the recreational lakes at the Groynes will prevent junior fishing, particularly the Take a Kid fishing event. Fish & Game is to be asked to take action to eliminate coarse fish from the illegally stocked areas.

The Angling Regulations Working Party meeting was held at Fish & Game on 6 June. The decisions from that meeting will be published in the newsletter in due course.

Athol Price Plaque

The Athol Price Plaque for outstanding service to the salmon sports fishery during 2006-07 was presented to John Hodgson at the AGM



In presenting the Plaque, Athol Price said that after the production of the report on the second year of Scotty Box ova planting, a sub committee was formed to organise and supervise the ova planting programme for future activities. As part of this programme the committee appointed an official keeper of the records which would give the salmon fishermen an accurate benchmark for future reference. This was now in the hands of John Hodgson, who had been a very active member of our Association in all of his 28 years of NZSAA membership.

John's enthusiasm for record keeping and the ova planting programme had seen him travelling many hundreds of kilometres to look for suitable spawning streams and to talk to farm managers and land owners to encourage their input into our programme and allow access to streams. He kept detailed and copious records of the Scotty Box placements, recovery and hatch rate numbers. Tedious work to some of us, but diligently undertaken by John to give accurate and meaningful records for the future.

Athol said John was an example to some of our younger members. With more like him, the work of Edgar Russ, Doug Roy and all the other volunteers at Montrose would be much easier.

John was always available to help wherever possible and was absolutely reliable. He actively promoted the sports fishery by attending meetings and making submissions both oral and written on the rivers where fish were to be found and where water consent applications might affect the fishery.

A salmon fisherman for 45 years, John was now 78 years of age. Athol said he had spent many hours fishing with John and thanked him for his mighty contribution to the salmon sports fishery.

Thank you John Hodgson. We have pleasure in presenting the Athol Price Plaque to you for the 2006-07 year.



Life Membership

John Healy

In appreciation of long and distinguished service to NZSAA, John Healy was awarded Life Membership at the AGM on 15 June.

John has been a member of NZSAA for 26 years, joining in 1981. He was appointed to the Committee in 1982 and has been there ever since. He has been a watchdog on activities, both legal and illegal, around the rivers and a hard worker on stream improvements.

We understand that John is retiring soon from his rural real estate work and will be relocating to the Far North to chase the large seawater species. We have no doubt however that he will be seen around the Canterbury rivers pursuing the salmon during the season.

Thanks for your contribution John and best wishes for an active and enjoyable retirement.



◆ ANGLERS OUTFITTERS ◆

359 Lincoln Road, Christchurch

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Email: info@fishermansloft.co.nz

Raffles

The results of the \$2 raffle drawn at the AGM are as follows:

- 1st Prize: Electric wader dryer donated by Peet Shoedryer Company
Ticket number 247 - Steve Strathan
- 2nd Prize: Kilwell Saffire 2-piece 7'0" salmon rod donated by Ballingers
Ticket number 241 - J Strathan
- 3rd Prize: Stoney Creek showerproof jacket donated by Hammills
Ticket number 134 - Roy Family

A \$1 raffle for a variety of donated prizes was also run at the AGM. We thank everyone who supported both raffles.

We gratefully acknowledge sponsorship of prizes by the above and also Wondercast, Anglers Warehouse, Parklands Tavern, Smiths City, Tony's Tyre Service and The Mighty Bakery.

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Transplanting from existing boat is also an option.



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Annual Salmon Fishing Competition Results

A good entry of 23 salmon this year indicates that a better season was experienced by many anglers. Trophies and \$50 vouchers from Fisherman's Loft were presented to the winners at the AGM, as follows:

Heaviest Salmon Overall - Aquarius Trophy

Dirk Barr of Rolleston

9.81 kg salmon from the Rakaia River on 10.3.07

Heaviest Salmon Waimakariri - Fisherman's Loft Trophy

David Bashford of Brooklands

8.5 kg salmon from the Waimakariri River on 23.3.07

Heaviest Salmon Rakaia - Alty Roscoe Memorial Trophy

Clarrie Wright of Christchurch

7.34 kg salmon from Sleemans Road, Rakaia River on 9.3.07

Lucky Draw - Fisherman's Loft Voucher

David Turner of Christchurch

6.5 kg salmon from the Rakaia Gorge on 8.3.07

We thank Fisherman's Loft for again donating the vouchers for this competition. The other entries are shown on page 15.



Dirk Barr
with the
Aquarius Trophy
for
Heaviest Salmon Overall
2006-07

Angler	Salmon Weight	River	Date Caught
Peter Morgan	8.000 kg	Waimakariri	27.2.07
Bill McDougall	7.500 kg	Lower Waitaki	24.3.07
David Bashford	6.950 kg	Waimakariri	29.1.07
Robert McKey	6.894 kg	Waimakariri	11.3.07
Peter Robinson	6.565 kg	Waimakariri	4.3.07
Alf Long	6.435 kg	Waimakariri	26.2.07
Robert McKey	6.380 kg	Waimakariri	25.3.07
David Bashford	6.300 kg	Waimakariri	28.1.07
Dennis Long	6.170 kg	Waimakariri	29.3.07
Wayne McCartney	6.020 kg	Waimakariri	28.2.07
Dennis Long	5.972 kg	Waimakariri	19.4.07
Peter Morgan	5.800 kg	Waimakariri	28.3.07
Robert McKey	5.736 kg	Waimakariri	3.3.07
Graham Long	5.602 kg	Waimakariri	30.3.07
Peter Morgan	5.440 kg	Rangitata	10.1.07
Steve McNeill	5.202 kg	Waimakariri	5.2.07
Ron Stuart	5.100 kg	Waimakariri	11.2.07
Kristine McKey	5.074 kg	Waimakariri	24.2.07
Clarrie Wright	3.144 kg	Rakaia	9.3.07



Dave Bashford receiving the
Fisherman's Loft Trophy from
Past President, Tim Ellis, for
Heaviest Salmon Waimakariri
River



Clarrie Wright receiving the
Alty Roscoe Memorial Trophy
for Heaviest Salmon Rakaia
River

Letters from Members



Hazards in Brooklands Lagoon

“During the 31st of May 2007 while wading across the lagoon at low tide in knee deep water my right foot became impaled on a sharp object embedded in the lagoon bottom.

Luckily, I was wearing a new set of rubber waders at the time but this did not save me from a severe injury to the sole of my foot which subsequently meant trips for medical treatment and the suffering of much discomfort

After wrenching my boot free I felt underwater to determine the cause of the trouble and was rewarded with a slashed thumb – the object was the remains of a steel stake protruding up about 150mm [6 inches]!!

This barnacle encrusted stake was rusted off to a point with very sharp edges and is one of many still left presumably abandoned by the Christchurch Water Sports Club in various places in the lagoon. These stakes were used as anchors to moor floats marking out ski lanes.

Some floats are still anchored by this means while others have become disconnected over time thus leaving a minefield of barbaric spikes.

A similar encounter in a different part of the lagoon during 1993 caused damage and injury which resulted in an action against the CWS Club at the Small Claims Court where I was awarded the cost of repairs to damaged waders.

The message is that anyone wading in the lagoon in channel water is likely to come in contact with such stakes which are mostly unseen.

Letters to the various Councils resulted in a “paper merry-go-round” one to the other - with the result that dangerous metal stakes still exist and pose a definite threat to lagoon users.

I would like this warning to come to the notice of users of the lagoon.”

David Bashford

6 June 2007

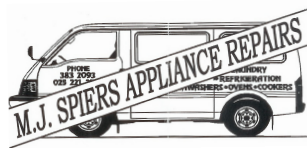
The Joy of Not Having to Row

“One of the hazards of using an outboard motor to drive a dinghy is breaking the shear pin. Easily done in a lagoon like that of the Hurunui with its shallow braids. Rowing a 3.2m Raeline dinghy is really hard work as it is not the easiest to row because of its twin hulls. So, in addition to the major motor for driving the boat, I have a smaller one for those times when the shear pin is broken or if the main motor goes on strike. An immediate source of power is especially important near a lagoon river mouth.

Several people have questioned the need but, one day, when launching the Raeline at the Rakaia Huts boat ramp, a stranger commented on the two motors. It was explained to him how useful the smaller one had been when out at the Pigeon Bay Heads the main motor refused to run and my grandson and I had sauntered home using an Evinrude 2.3. The other boatee then told me how he had been out at the Pigeon Bay Heads and that his boat motor refused to start and the boat was within a few feet of the rocks before it fired. He vowed he would get an auxiliary too!

On discussing this use of a second motor to obviate the need for rowing, the supplier of the new shear pins voiced the following succinct opinion: “I have always strongly believed and will ever continue to do so, that Third Class Motoring is infinitely preferable to First Class Rowing!” A sentiment I feel sure everyone can agree with, particularly if the rower, like me, is well past his best rowing years.”

Richard Haythornthwaite



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Kairaki Beach Motor Camp

Salmon Fishing Contest

Contributed by Ron Stuart

You see this is a *contest*, not a *competition*, even though there is rivalry amongst the contestants. But this is a unique sort of contest - there may be others but this one has tradition and bugger-all rules. It is the “**Kairaki Beach Motor Camp Salmon Fishing Contest**” and the prizegiving function was held on Sunday 29 April in the hall at the camp. One of the contestants got her daughter to print up these elaborate certificates for which each angler entering the contest, was awarded the biggest or smallest or first fish prize or a certificate of recognition, in the most fashionable manner, within the precincts of the camp hall and unruly behaviour of those present.. Other awards were given for any sort of reason.

There are a range of very respectable trophies and when these are allocated the organisers resort to chocolate fish. So great is the organisation of this competition that the funds are kept in a peanut butter jar. A recommendation was put forward to increase the entry fee from \$2 to \$5, but this was rejected as there was still \$60 in the jar plus more to come and that's after we all had a barbecue lunch comprising of steak, patties, sausages, plus the bring your plate stuff, which was fabulously gorgeous.

A revision of the rules took place and that was bugger-all, but if you wanna be part of this competition you must be a fee paying camper at Kairaki Camp.

For me this is the absolute euphoria of being a salmon angler as we live in Christchurch and travel 20 minutes to our caravan, which is set up in the camp, each Friday night and fish through the weekend and cruise home on Sunday. Those are normal weeks, but if it's a long weekend or you wish to commute to work it is still a pleasure and believe me the Waimak this season never had a weekend which was not fishable. Fishing options are Northside, Southside, Mackie's, Banana Hole and in-between you can lay out a net for flounder. If the fancy takes you there is the option of popping up the road to Kaiapoi, evenings, and excellent options are available for a meal out or other entertainment along the lines of choices for keen anglers with early starts next day.

The camp is well run and is a boutique sort of arrangement, with great rapport amongst the campers. A number are carryovers from the whitebaiting season who become well seasoned Waimakkers.

If you are looking for a change or, like me become reluctant to spend a fortune on fuel travelling to catch a fish, come join our contest at the Kairaki Camp & have some fun with a bunch of bloody good mates,

HOLIDAY ACCOMMODATION WESTLAND

Lake Kaniere via Hokitika **Jackson Bay** via Haast

Bruce Bay: Half-hour Drive South of Fox Glacier

All baches self-contained with pots/pans, cutlery, power, shower, fridge, washing machine and freezer (except Kaniere, no freezer). All baches sleep 8 people.

You need to supply all disposable items including wood and coal for the Yunka fire (except Kaniere, electric heating), sheets, pillowcases, sleeping bags, etc. On leaving, a clean and tidy bach would be appreciated for the next people.

Rates: **Kaniere:** \$70 per night up to 4 people. \$20 per person above this.
 Bruce Bay & Jackson Bay: \$65 per night

For more information and bookings you can call:

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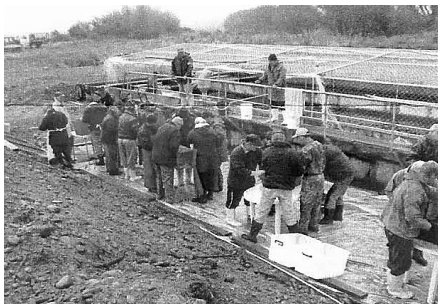
Jeremy Burke will be well known to Canterbury anglers through his passion for fishing and the positions he has held in other prominent Christchurch retail stores. Now he complements his expertise with the buying power & focus on quality that all Hunting & Fishing NEWZEALAND™ staff bring to this franchise. Catch Jeremy at Ballingers – Christchurch.

OPEN SEVEN DAYS

NZSAA South Canterbury News

Rangitata Salmon Hatchery

55,000 young salmon are nearly ready to release into the Rangitata River. They have grown from 6gm to an average of 70gm since October last year and are in extremely good condition. They will be taken through to between 80 and 100gms to give them the best chance of survival at sea. .



Fin-clipping was undertaken by a team of around 60 persons on the weekend of 21-22 April

There has been a noticeable increase in the flow of McKinnons Creek since the irrigators have been turned off due to the colder weather. There has however been no shortage of water through the hatchery throughout the year.

2007 Salmon Runs Central South Island Region

Rangitata: Final spawning count for Deep Stream and Deep Creek will likely be between 1500 and 2000 fish. With an estimated 950 fish caught by anglers, that's a total run of 2500 to 3000 fish and it has been 8 years since we were last at that level.

Opihi: A catchment-wide redd count was completed on 24 May yielding 240 redds. Angler harvest has been estimated at just under 200 fish suggesting a total run into the river of 500 to 600 fish. This is still below average for the last 20 years of record.

Waitaki: The May redd count turned up 1014 redds in the Waitaki and combined with estimated angler catch of just under 500 fish, indicates a total run into the Waitaki of perhaps 2000 to 3000 fish.

Across all the Central South Island fisheries, total salmon catch for the season is estimated at about 1600. F&G CSI Council's target for maintenance of the recreational fishery is 3650 fish. While there is still some way for the fishery to go, this year has provided hope and the freshest taste of salmon for quite a few years.

THE JORDAN/SCOTTY INCUBATOR

DIDYOMOSPHENIA GEMINATA

This algae is not yet present in the streams that we place the Jordan/Scotty boxes **and we must try and keep it this way**. We all know about the clean, wash and dry processes etc. Our method will be the drum wash of waders and tools, the other method is to use sprays that Fish & Game have issued us with. This is particularly important if we go to more than one stream in a day.

WHAT DOES IT DO?

A single set (2 plates) is designed to hold 200 eggs. A pair of salmon will provide up to 3,000 eggs. Each incubator is made up of two plates, held together by two nylon nuts and bolts. Incubation units can be joined together by using the adjustable nylon bolts (supplied). These assembled egg units can be anchored in streams by securing them to steel pegs or stakes.

HOW TO LOAD AN INCUBATOR?

A special white loading plate is submerged in a tray of fertilized eyed eggs floating the eggs over the plate until each cell is filled. The loading plate is covered with one side plate of an incubation unit and then turned upside down so that the eggs fall into the compartments. A second side plate is placed over the loaded side plate and held together by nylon bolts. A total of 10 plates are used to provide home for 1,000 eggs to hatch in safety.

The loading plates and the receiver compartment needs to be wet, which helps to lubricate the passage of the eggs and assist the capillary affect of the transfer.

The temperature of the boxes on arriving at stream side is an unknown and could be outside the recommended value of $\pm 3^{\circ}\text{C}$ value but placed in the stream for at least 15 minutes, at the least, it will be something to reduce the egg shock problem.

Note: The $\pm 3^{\circ}\text{C}$ means that the eggs, when removed from the insulated container that they have been brought in, which is say 9°C , need to be subjected to a temperature change hence stabilizing the box temperature in the stream helps.

It is suggested that at least two volunteers check the loading plates to remove doubtful eggs or to complete the filling of the loading plates. The extra time this all takes is insignificant compared to the days total effort.

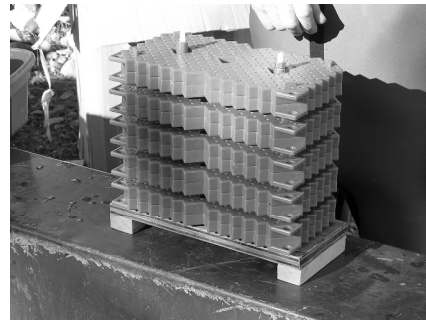
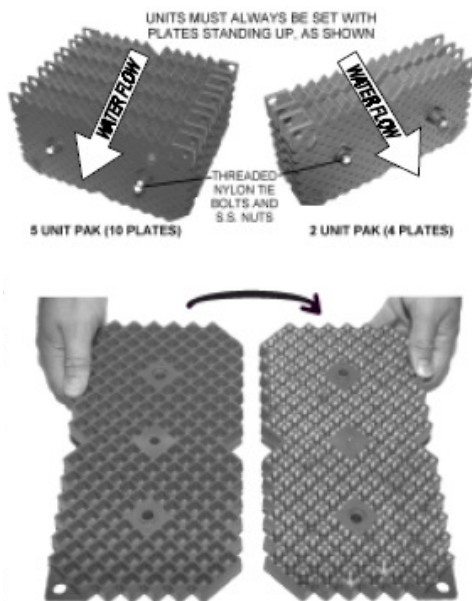
LOCATING THE INCUBATOR IN THE STREAM

It is most important that:

The units of fertilized eggs are placed in the stream gravel so that they are continually covered by a flow of water passing through the gravel and the cells.

The units must be 'planted' so that the escape holes of the compartments are at the bottom of each cell. This is essential to assure that any sand particles wash right through the compartment. If the escape holes remain on top sand and silt will eventually build up and block the unit.

Incubator units must be securely anchored to ensure that they remain in position. Place them in a stream location that is not in danger of flash flooding, for example, downstream from a large boulder that is not likely to move or securely attached to re-bar which is firmly embedded in the stream gravel.



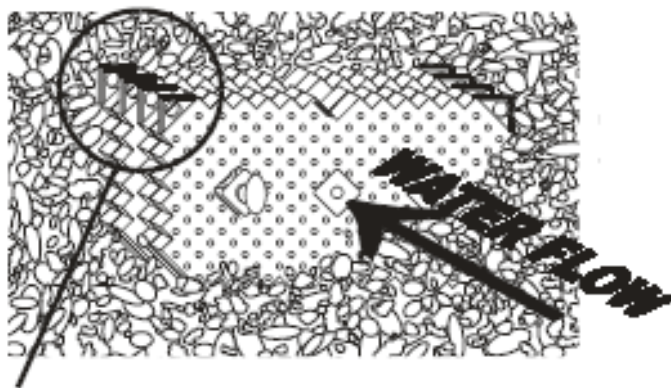
All Waders and tools must be washed in the drum before entering the water.

Box Placement

1. All boxes must be numbered and fitted with a two metre wire cord and a good marker stake.
2. Records should be kept, including the box number.
3. Positioning of boxes in streams to minimise silting. Avoid areas where silted boxes have been.
4. Avoid extreme water temperature differences between the eggs and the stream. (Maybe required to float eggs in plastic bags in stream to be within 3°C tolerance range.
5. Make sure eggs are not exposed to direct sunlight.
6. Boxes do not need to be in a fast flowing current or buried too deeply.
7. Digital photographs should be taken of all placement sites before leaving.

Box Removal

1. Remove boxes as soon as escapement is completed. Record all details of removed boxes, i.e., number of dead eggs and placement within each box, also, any silt problems. Take photographs if necessary.
2. Review all data after box removal and produce a report.
3. On removal all boxes should be cleaned, sterilised and stored out of sunlight.
3. In higher silting streams it may be worth looking at other incubation options.



*NOTE: IT IS EXTREMELY IMPORTANT THAT THE INCUBATOR UNITS BE PLACED WITH THE 3/8" HOLE TABS (SQUARED CORNERS) POINTING UPWARDS. THIS WILL PREVENT SILT FROM SETTLING INTO THE EGG CELL CHAMBERS.

NEW ZEALAND SALMON ANGLERS ASSOCIATION (INC)



HELP US TO HELP YOUR FISHERY

NZSAA Objectives:

- Enhancement of the salmon fishery.
- Hard-line policy on pollution.
- Resistance to water abstractions, dams, etc.
- Education.
- Information gathering.
- Hard-line policy on commercial activities

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I wish to become a member of the New Zealand Salmon Anglers Association (Incorporated) and agree to be bound by the Rules and Constitution of the Association.	
Name	
Address.....	
Telephone (Home).....(Work).....(Cell).....	
Fax..... Email.....	
Available to help with stream improvement work? Weekdays / Weekends	
Subscription enclosed:	Adult membership \$25 p.a. <input type="checkbox"/>
	Family membership \$30 p.a. <input type="checkbox"/>
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