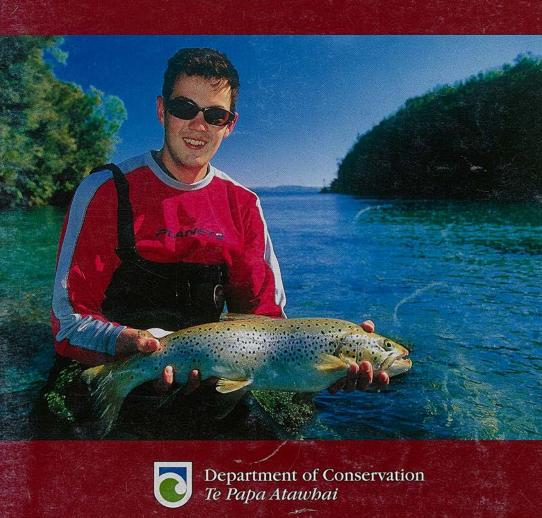
TARGET TAUPO

A newsletter for Hunters and Anglers in the Tongariro/Taupo Conservancy

MARCH 2003, ISSUE 42





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High Fer for mance uppet and leader materials. High shength on polymer uses GoMMA's explosive proprietary princess that dramatica by increases the elasticity, suppleness and "Shock Resistance" of the material white aphening an incredity right everyth to stimulate right. Supplements and low cold intentity make the material easy to laundle and its invites that the widow formorful for I up interconnect, notes secure should be a requested and a request to the secure of the secure of the secure secure should be required to the secure of the secure o

trool:-ups and greater fighting capability for landing more and bigger fish

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6×	J05"/.127mm	370/168kg	31%	22.0yds/31 M
5X	.006'7.152cm	4 915/2 2340	32%	32.8jd:/31 M
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Still Bull Tapered Leaders - Frog Hair Ster Bult - Suppre tip Tapered Leaders have a heavier, stiffer bult seedon when a more powerful turnover is needed to punch through the wind or when Technop is large water with heavy files. As with the supple lent fleaders, the stiff bull leaders also have an uter supple coppet offering diesame superfor knot strength, increasible lengthness and leuite in shock resistance that delivers this most natural, drag-free presentation possible



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300	008"/.203mm	8 50 13 OF BE	.021°/_583mm	95 M/25M
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Front cover: Gary Greenhalgh with a brown trout caught in Cherry Bay, Lake Taupo. Photo: Brendon Matthews.

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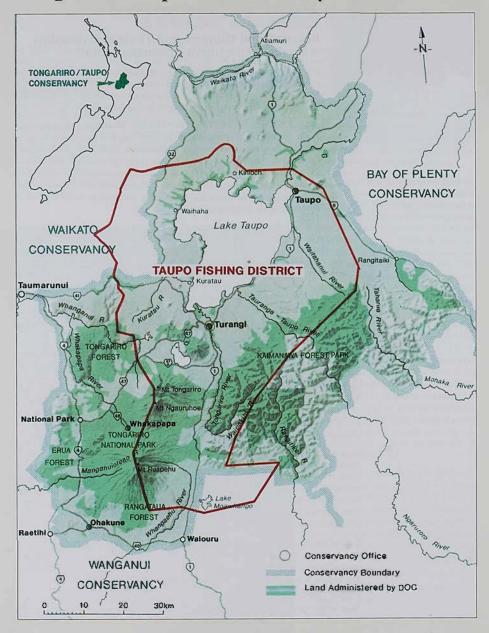
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Tongariro/Taupo Conservancy





by Paddy Gordon. Community Relations & Technical Support Manager

Editorial

Recreational Hunters and Their Relationship with the Department of Conservation

Over the years I have been saddened to see a deterioration in the relationship between the Department and its staff and recreational hunters and hunting groups. I believe for the interest and benefit of both parties we need to turn the relationship around and try and work on the positives that do exist between us.

Recreational hunting for introduced species within New Zealand has a long and difficult past. In particular deer have gone through periods where they have been managed as game animals and in some cases for a short period of time have been legally protected. From those early times where deer were looked at by officialdom in a more positive light, attitudes have changed. This change in attitude has been brought about by the concern for the ongoing survival and protection of our indigenous flora and fauna. Damage done to our forests by deer and other introduced species has had a devastating impact that must be halted if we are to retain any semblance of our indigenous heritage.

Under current legislation rhe present status of deer is wild animal, under the Wild Animal Control Act. Responsibility for their control on public land it manages, on behalf of the people of New Zealand, rests with the Department of Conservation. Deer being treated as a pest, and at times the control measures used for other pests by the Department, brings recreational hunters and the Department into a confrontational situation. Many hunters disagree both on the need for control measures and the methods used to reduce deer numbers. This conflict of interest and beliefs have in my opinion left the hunting community with a feeling of not being listened to and excluded from mainstream conservation. They therefore see themselves at odds with the Department over the way much of the public land they are interested in is managed.

Given the resources the Department has to operate under, it will not be possible to control all pests over all the public land that it manages. Therefore, there is a need to prioritise our efforts across the full spectrum of ecosystems and sites. Off shore islands offer great opportunities to temove pests, They provide a safe natural habitat for many of our endangered species, but do not solve all the problems. There are also tracts of forests, wetlands and tussock grasslands on the mainland that are worthy of the highest protection that we can give them. At the other end of the spectrum there are large areas on which we will only be able to control pests less intensively. It seems obvious to me that recreational hunters have a role to play with the Department in helping to control deer numbers in these forests.

Hunting is a legitimate use of public land and DOC has a strong interest in nurturing a positive relationship with hunters and hunting groups. There are many ways in which we can work together for the mutual benefit of both parties and the environment. There are large tracts of remote back country where hunters are the only regular visitors and the only impact on deer numbers is by recreational hunting. These same hunters can also be a great source of information Io DOC on such things as hut and track conditions and, with some training, species monitoring could be added to that list.

I would dare to suggest that hunting of an animal is not the only part of a hunter's enjoyment. There are many hunting trips where animals are not taken, however the experience of the surrounds, the wildlife and the company that is shared makes the trip worthwhile and memorable. The sharing of new experiences with fellow hunters and the enjoyment of the mountains, rivers and forest that make up the environment are part of the overall challenge.

Many of the elements of our back country experiences and DOC's aspirations for our environment are shared with the hunting community; let's build on these positives and who knows where this route will take us.

Treble Hooks for Taupo?

by Michet Dedual and Glenn Maclean

Michel is the Fishery Area Scientist Halling originally from Switzerland be is also a very enthusia stic angler

Glenn is the manager of the research and monitoring programme in the Area, and is editor of Target Taupo ast year as part of a detailed review of the Taupo Fishing Regulations we sought anglers'views as to the appropriateness or not of the current regulations. Fighty submissions were received covering the whole gamut of regulations and express ing a widerange of views. However no one suggested that the use of treble hooks be permitted.

Concurrently Fish and Game New Zealand have suggested allowing the use of treble hooks over the rest of New Zealand as part of a standardisation of their angling regulations. The debate stimulated by this has caused a number of anglers and several angling clubs to approach us, concerned we might be considering a similar regulation change at Taupo.

The following is a summary of our assessment of the appropriateness or not of allowing treble hooks in the Taupo Fishery. This assessment applies only to Taupo and there are clearly many factors which need to be considered which may or may not apply elsewhere.

The Taupo Fishery is heavily utilised and compulsory catch and release is an essential component of the fishing regulations to ensure that the fishery is not over-harvested. At the low point in the lishery in 1990 we estimated the annual angling harvest was 175 tonnes or 30% and 50% the total estimated trout production in 1988 and 1989. This is a considerable proportion of trout production and significantly higher than the best estimates of the theoretical "maximum constant catche; that is, the catch estimated to be sustainable at all future levels of production. As a consequence, bag and size limits are now deliberately set at much more restrictive levels that require anglers to return a significant portion of their catch. However, these restrictions only work if the vast majority of the fish released actually survive the experience. Ignoring any ethical debates for the time being, the use of treble hooks could only be considered if they did not significantly increase the mortality of caught and released fish.

In the context of managing the Taupo Fishery the issues that must be considered extend beyond the application of a simple mortality rate derived from elsewhere. To combare the mortality between different types of terminal gear also requires knowledge of the catch per unit of effort for the different gear types employed in a lishery and the proportion of anglers using those gear types.

Review of the literature on hooking mortality

Hooking morality is commonly expressed as the proportion of fish caught that die shortly afterwards due to injury or stress directly attributable to specific angling gear.



The need to better understand hooking mortality and its causes was first recognized during the 1940s and the emphasis of subsequent research has been towards establishing fish losses attributable to different types of hooles and lures. The published informa tion on hooking mortality is vast and in this article we summarize and synthesise the results obtained from approximately 200 studies to compare the mortality caused by single and treble hooks. It is important to note from the outset that not all of these studies were done under similar conditions. For example, the number and species of fish used, the duration of the mortality monitor ing following release, the handling of the fish and the water and air temperature during the experiments were highly variable. Despite the number of studies there are a paucity that have focused specifically at comparing mortality in rainbow trout caused by single and treble hooks. Nevertheless it is possible to make some generalisations.

From the small data base for rainbow trout there is no clear evidence from the published literature that the hooking mortality is different between treble and single hooks. Some studies report that mortality is higher using treble hooks, others that its lower, and yet others that there is no difference. The studies reporting a smaller hooking mortali ty for treble hooks explain their results by saving that single hooks are taken farther imo the mouth and inflict a more serious wound. Treble hooks, due to their configuration, generally lodge in the mouth causing many superficial injuries. However, there is nearly 100% mortality if treble hooks become tangled in the gills. Many studies support these observations.

There are also many studies conducted on other species that indicate the mortality rates are similar using these two gear types. A review of 18 hooking mortality studies on various trout species demonstrates no difference in mortality rates between single and treble hooks. However, the size of the treble hook in relation to the size of the fish caught is important. When small treble hooks are used they are more easily ingested than single hook flies and cause significantly higher mortality.

Trout caught on treble hook equipped artificial lures sustain more physical trauma than those captured on single hook flies, as evi-

denced by the higher incidence of bleeding fish. One study reports that over half (57.4%) of trout captured on spinners with treble hooks were hooked in a location other than the jaw and 27.8% were bleeding when unhooked. Only 13.6% of trout captured with files were hooked in a location other than the jaw and only 2.5% of those were bleeding when unhooked. Some studies conclude that salmonids hooked in a non-jaw location (gills, oesophagus, tongue, or eye) are four times more likely to die regardless of hook type.

Another study reports that 86% of landlocked Atlantic salmon that were bleeding at capture died. If bleeding at capture is considered a predictor of eventual mortality, then the spinner hooked trout in this study were about 11 times more likely to experience delayed mortality than fix caught trout.

The studies presented in the literature review agree on one point; lures equipped with treble hooks are difficult to disengage from captured trout, particularly when hooked within the mouth or in the gills. This increases the time required to unflook the trout and thus the actual handling of the fish. The size of the treble hooks also affects the time to unhook.

There is some disagreement about the relationship between fish size and hooking mor tality. Some studies report that hooking mortality estimates for trout are positively correlated with size of fish while other studies suggest that it is independent of lish size. However, the relative size of the fish and the hook is a factor influencing injury location. Proportionately larger hooks can lead to more severe injuries than those from smaller hooks in two ways. Firstly the longer points pene trate more deeply before the bend of the hook is reached. Second, the greater gape of a large hook permits the hooks point to impinge on central parts of the head before the shank contacts the periphery of the jaw.

One study points out that a small fish is not likely ro engulf a relatively large treble hook far enough in its mouth to become hooked in the gills. In addition, the distance from a point across to the shank on the treble hooks is too small to allow easy penetration of the brain or eye. However as the fish become larger, the same hooks are able to pass all the way back to the gills so that the

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Ideally the fish should not be handled during release

Photo: Len Birch

inturies may become more severe. Single hooks of the same overall dimensions as treble hooks have a much larger gape and can easily penetrate the brain or eve. There is

unfortunately no appropriately designed study that we are aware of that concentrates on observing mortality over a full range of fish sizes for fixed hook sizes and

types. Such a study would provide the ultimate verification of whether treble or single hooks cause the greatest hooking mortallity.

The hooking efficiency of the different types of hooks is also important but there has been limited research on the hooking efficiency of single versus treble hooks. One

study reported 41.9% of cohe salmon booked on treble hooks were lost compared to 33.3% for single hooks. Other studies suggest that lures which exhibit vigorous wobbling action when retrieved appear less likely to be deeply engulfed and consequently cause less mortality. Involuntary losses and their lethal or sub-lethal effects is an important factor but unfortunately there is insufficient data for a proper evaluation.

Hooking morality can differ substantially from one species to another. This means that for a mixed population of trout, such as in Taupo, the hooking mortality may not be the same for brown and rainbow trout. The litcrature suggests that everall brown trout sur vive hooking and release better than raisbow trout. Taupo rainbow trout more closely resemble steelhead trout in their biology and size than the small riverine rainbow which have generally been studied. However, despite the abundant literature on hooking mortality there is a paucity of data specific to steelhead. The only published report dealing with mortality rates among steelhead involved fish caught on bait and artificial lures in Br.tish Columbia.

A useful study in the debate about treble versus single hooks for 'laupo' is the morality and stress experiment that we carried out 10 years ago (even though we didn't directly compare single with treble hooks). This study confirmed similar studies in the literature that hooking mortality doesn't always occur immediately at release. Just because the fish swims off apparently fine, doesn't mean that it necessarily will survive. Our study confirms that most mortality occurs within the first 24 hours after release but other studies have shown it can occur as long as six days after release.

The literature review indicates that in some studies the fish were caught by anglers using techniques considered to represent average

handling but in other studies the fish were caught by scientists using careful handling techniques unlike those practised in the real world. Indeed two studies acknowledged that fish capture and handling overseen by trained professional staff likely minituized the mortality rates. Another study felt that if the anglers have foreknowledge of the

... despite the abundant literature on booking mortality there is a paucity of data specific to steelhead. experimental goal, they will try to handle their fish in a mariner that would reduce mortality. As has been pointed out in many psychological studies, subjects in experiments typically try to perform toward what they perceive to be the expectations of the people conducting the experiment.

Intuitively it is a stressful experience for a fish to be hooked, handled, and released. We don't fully understand the long term impact

of stress on fish physiology but it is now widely recognised that stress may interfere with spawning success. The stress studies we carried

out have shown that fish recover from the physical exhaustion caused by the "playing" if they haven't been pushed beyond their capacity. However, the stress caused by "fright" is more traumatic and lasts longer. During the catch and releaseof a fish the most stressful part of the "experience" for the fish is the handling. Indeed being netted, pulled out of the water, flapping on the deck or ground, touched by something much warner than its own body and having its gills and organs squeezed during the hook removal is not a picnic! Irrespective of the angling methods used, mis-handling of the fish increases mortality. We have all seen fish swimming feebly on the surface following misguided attempts to release them. Anything which diminishes: either the dara-

Studies have shown that the time a trout is out of the water can play a significant role in its survival. The difference between 30 see onds and 60 seconds can be deadly for some species of trout especially the large ones i.e. the "trophies". Larger fish are also more difficult to handle hence higher handling-related mortality would be expected with increased length. Unfortunately the information on hooking mortality in trout longer than 40 cm is virtually absent from the published lite nature.

tion or extent of the handling will improve

the odds of the fish surviving.

The Taupo Situation

If we group all of the studies in our literature search into either increased, reduced or no effect on mortality from using treble hooks then there are similar numbers of studies in each category. However, to then suggest that the evidence that treble hooks increase mor-

tality is equivocal would be somewhat simplistic for as we have highlighted the studies are not comparing apples with apples.

There are several points though which provide clear direction over the use of treble hooks in the Taupo Fishery. Firstly the fishery requires extensive catch and release. There can be little debate that one of the most important factors affecting fish survival is the handling they receive during their

... any changes which make it

even more difficult to release

fish safely cannot be justified.

release. Unfortunately we have to acknowledge that generally the handling of fish at Taupo is poor and currently some fish die

needlessly. Over the years we have adopted several initiatives to address this and are about 10 embark on several more. However any changes which make it even more difficult to release fish safely cannot be justified.

It is the combined experience of our fishery staff as anglers using treble hooks in a variety of fresh and salt water situations that they make it more difficult to release fish. Intuitively that is why anglers use them, because they will hook and land more fish. Such simple things as the second barb get-



Irrespective of the type of book used. this fish is untilizely to survive such rough handling

Pholo: Len Birch



A monthful of barbs increases the bandling required to release this immature fish which will decrease its thetibood of survival.

Photo: Glenn Macleun

ting caught in the landing net or on the side of the fish's mouth may require the angler to handle the fish longer or more tightly. Irrespective of whether treble hooks in themselves cause increased mortality, this increased handling when releasing fish will aggravate the mortality ate.

Secondly, there is good evidence that small treble hooks relative to fish size cause greater mortality than large treble hooks, presumably because the large hooks are less likely to be ingested back into the gills. If treble hooks were permitted it would therefore be prudent to restrict them to a large relative size to avoid damaging undersize fish.

Fish and Game New Zealand are seeking to standardise regulations across the rest of the country so that anglers can be confiden that they are not inadventently transgressing any regulations as they move around. However, the size of treble hook that may be appropriate in many fisheries comprising relatively small fish would clearly be too small at Taupo where our minimum legal length is 45cm (a fish of approximately 1.2kg or 2.5lb). So any regulation would need to be different at Taupo which removes the advantage associated with standardising the regulation with the rest of New Zealand.

In summary

We believe that the differences in mortality of trout caught with different lures or hooks are due primarily to differences in the frequency and extent of damage to the gill arches and oesophagus area. Certain lures or hooksare more likely to be engulfed deeply, and thus are more likely to cause death. Therefore the best way to reduce hooking mortality is to avoid methods that result in deeply hooked fish.

Unforunately though, imespective of the methods used there is also significant mortality caused by poor or prolonged handling of the fish. In light of our own experiences we believe that a single hook will be easier to remove (handling time and effort reduced) than anything with multiple points. The effect of this on the mortality rate will be further increased when inexperienced fishermen and sadly even some experienced anglers are releasing fish.

In conclusion it is our view that the use of treble hooks is not appropriate in the laupo Fishery. This view has been endorsed by the laupo Fishery Advisory Committee. However, it is important to note that the laupo Fishery is quite different in the way it functions and how it is utilised by anglets to other trout fisheries in New Zealand. The arguments against the use of treble hooks in this fishery may not be applicable in other fisheries where each and release in particular is not an integral part of the management of the fishery.

Dreams

by Michel Dedual

nglers often talk tongue in cheek about the fish being asleep to explain their lack of success. But do fish really sleep?

Sleep can be described as: a psychological state of unconsciousness that is fully and easily reversible following some stimuli or a state of relative unconsciousness associated with an inactivity of the voluntary muscle system that is needed periodically. Early scientists and philosophers saw sleep as a passive condition where the brain is isolated from the other parts of the body, Alemason, the Greek who founded psychology, claimed that sleep was caused by the blood receding from the blood vessels in the skin to the interior parts of the body. Aristotle, another famous Greek philosopher, suggested that while food is being digested, vapours rise from the stomach because of their higher tem perature and collect in the head. As the brain cools, the vapours condense, flow downward and then cool the beart which causes sleep. Still others claimed that toxins that poisoned the brain caused sleep.

More than a thousand years ago Sanskrit doctments from Hindu mythology suggested that the human brain goes through alternate periods of awakening sleep without dreaming and sleep with dreaming. It is only lifty years ago, when brain waves and later the electroence-phalogram were discovered, that neurobiology verified this hypothesis. The most obvious difference between the three stages is the nature of the electrical activity in the brain During sleep without dreaming, electrical activity is compesed of "slow" waves. However, during sleep with dreaming it is composed of "fast" waves similar to those generated during the awakening phase. This odd auribute lead Professor Michel Jourc't from the University of Lyon to establish the notion of "paradomical sleep" to define the physiological state when a subject is sleeping but displays mental activity i.e. dreaming.

To understand sleep and dreams we first need to know why we sleep. This is not fully understood at the moment and explanations differ widely The repair theory proposes that activities thiring the day deplete key factors in the brain or the shows that bodily met and rejuvenation, physic body that are replenished and repaired by sinch This theory makes sense since during certain slages of sleep there is muking secretion of Towids hormone, controlling many aspects of

metabolism, physical growth, and brain development The finding that after having been sleep deprived for a long period, people tend to sleep longer when they have the opportunity also supports the repair theory. On the other hand the adaptive theory states that sleep evolved because it prevented only humans and animals from wasting energy and exposing themselves to dangers of predators. It was necessary for their survival.

Sleep in 6sh and other animals

The study of sleep and dreams in animals and in fish in particular occupies a very small place in the voluminous literature on fish biology, probably because of the difficulties of undertaking experiments. Furthermore, it is not an easy task to extrapolate the observations made on humans to animals without entering into the slippely and somewhat esotetic domain of psychophysics". Not many scientists are keen to venture in there! However some generalisations can be made

Most animals have a daily pattern of rest and activity, and in many species these daily cycles are similar to us running around during the day then lying down at night and doing nothing or sleeping. It is believed that fish are no different. although it is a controversial subject. Some fish keep very still, experiencing a quiet period (quiescence) that you might call sleep. Some animais have really intentioning sleeping styles. For example, some birds sleep for brief periods with one eye closed and it is suggested that at this time one heprisphere of the brain is sleeping, and the other is awake. Elephants sleep for 3 to 6 hours, of which two hours are spent standing. Dolphins sleep about 30% of the day but only with one half of its brain while the other half remains aler. The two hemispheres alternate every one to three hours during sleep. Dolphins kept in aquariums usually swim in circles in the same direction during sleep. These examples highlight that not all animals need the same amount of sleep, for example the possum sleeps for 19.4 hours a day whereas the giraffe only needs 1.9 hours

The ability for many fish to swing continuously logical restoration, and energy conservation, are riotinherently indispensable. Many continuously swimming fishes would suffecate if they were to stop swimming Sharks, tunas, bonitos, mackerels, albacores, salmon and trout and many not turnal, reef-dwelling fishes that school swim perpetually. Their conspicuous habit of schooling, greatly reduces needs for sensory information processing, and provides the essential benefits of quiet wakefulness and sleep.

Fish at inner positions within the school need not exercise the full range of their sensory capabilities They have no need to "listen" smell, or process complex visual information. They need only maintain awareness of their position with respect to their nearest neighbours, which also can be accomplished with the lateral line system. On average, then, the amount of sensory processing carried out in the brains of inactively schooling fishes is reduced greatly compared to the amount in alert, solitary swimmers. In effect, the burden of sensory processing is shifted from individuals to the entire school collectively.

The most interesting fish as far as sleeping is conceined is the parrothish That fish obtained its name from the very strong beak and teeth allowing it to eat coral. Once a parrothish has chosen where to spend the night they begin to secrete gelandous mucus that surrounds its body, and that would be totally transparent if not for the sand grains that adhere to it. Some species need approximately one hour to build this cocoon or siceping bag.

Some scientists believe that the cocoon bides their scent from predators like conger cels that locate their prey using the sense of smell. Others believe that it protects the fish from some kind of parasite that sneaks in to suck their blood. Close observation reveals that, the cocoon of the part of fish enters its mouth so that it can feel any movement around the cocoon. Anecdotal information suggests that part of fish sleep is very heavy when they are in their sleebing bags and hence very easy to eatch.

Some fish can also undergo a yearly sleepcycle; they hibernate and their metabolic rate slows right down. An example is fish which steep through harsh periods of the year such as the African lungfish, which buries itself in mud and survives the dry season praeceted by a cocoon of mud in the river bed. Native mud fish in New Zealand also burrow themselves in the mud during dry conditions; however, they don't emer into a worpid stage typical of steep.

Adult trout in Lake Taupo are especially active when smelt move from the deep water to concentrate at the surface of the lake. This vertical movement stans at dusk and finishes; at down when smelt return to deep water. We don't know how active the trout are during the day and it is hard to say if they steep Juvenile trout in the tributaries of take Taupo also have different levels of activity disorgbout the day. Our underwater observation suggests that in the Tongarino River many of them feed intensively at night but spend most of the day hidden underscent tooks. But again it is difficult to affirm if they are steeping or not

Brown trous can also be found motionless and in postures which suggest they are sleeping. Most of the time they seek cover of some sort, but sometimes, such as in the lower Tongarire in summer: they can be seen lying on a sandy bottom in very slow, shallow water. Brown trout in these postures are probably not feeding because very little food is available. Furthermore, the slow curtent means that they don't spend any energy to light the current and they are probably resting. However, whether they are actually asleep is gain multinoval.

Fish don't have eye lids and therefore cannot close their eyes like us. However, to survive and avoid being eaten trout have eyoked a highly acute set of sensory organs. They have a system of nerve endings in the lateral line that can detect the approach of danger through vibrations in the water. Watch a trout in the river while you stainp on the bank: though it may not see you, its lateral line will warn the trout that you are there. Its first may quiver and the fish will fee.

Brown trout often lie stationery on the bottom but whether they are actualty sleeping is unknown

Photos: Errol Cudby





The world of dreams

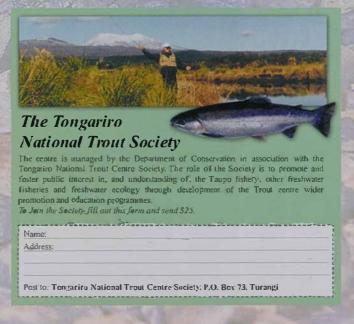
Science acknowledges that the awakening period is a requirement to survive but the purpose of sleep and especially the dream periods remains today one of the most initiating enigmas of neurobiology.

Fish amphibians, and reptiles show an allegration of activity and rest but don't show the paradoxical steep phase. This means that with our current understanding of the physiology of dreams we believe that fish don't dream. However, birds and mammals do. Possums are interest dreamers: they can draim for six bours a day whereas chickens apparently dream for only 25 minures.

Why do we dream? Scientists are still debaing this one. Remember, they haven't figured out what most of our brain capacity is used for, much less what dreams are or why we dream. There are several theories, some scientific and odsers psychotrallytical. Until someone can prove or disprove one of these theories or pose an alternate one, we rectain at square one. Our knowledge as to what courses us to dream is limited to the friet that we do dream, and that dreams occur during the "paradoxical sleep".

But why do birds and mammals dream but not fish amphibians, and reptiles? Contrary to birds and mammals which can regulate their internationally temperature (homeothermous) fish, amphibians and reptiles cannot (polikiothermous). This is why scientists believe that the evolution of dreiming coincides with the homeothermia. However the jury is still debating if it is only a coincidence.

It may not be such a had thing for a fish not to dream forced, if you dream you have to realise that it was unreal. Imagine a trout dreaming that shags combing the river estuaries around lake Taupo are juicy big knam or smelt. It would be much safer for the trout to know next time it sees a shag whether it is a dreamor not!



Fish Salvage on Wairehu Canal

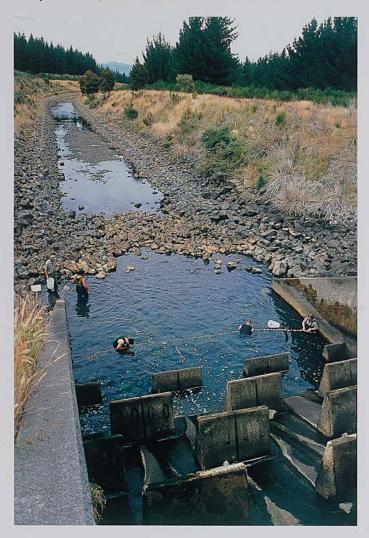
Under the minimum flow set for the Whanganui River, Genesis Power Ltd must maintain a flow at Piriaka of at least 29 cubic metres per second (cumees) or the natural flow, whichever is least. In practice, this means that often in late summer when the natural flows fall below 29 cumees, Genesis must cease diverting water through the Western Diversion of the Tongariro Power Development. Normally water is diverted

from the Whakapapa, Okupata, Mangritepopo, Whangan ui and Te Whaiau streams into Lake Oa mangakau and on through the Wairehu Canal into Lake Rotoaira

During those periods when the diversions are fully closed (and no water is entering Take Otamangakau) there will also be no water fowing down the Wairehu Canal. In this situation the canal largely drains apart from some

Fishery Rangers (from left) Gordon McKenzie, Harry Hamilton, Dave Harl, Rob Hood and Roy Baker retrieve trout stranded at the base of one of the drop chutes in the Würebu Canal.

Photo: Glenn Maclean





Rob Hood (left) and Dave Hart release the recovered fish back into Lake Otamangakan

Photo: Gtenn Mactean

small ponds at the base of each drop structure. Any fish in the canal tend to concentrate in these pools where they become stranded.

That there are trout in the canal puzzles many anglers who are aware of the drum screens to the entrance to the canal which act to stop fish passing downstream. However, each year numerous rainbow trout pass through the screens as fry, although brown trout do not. Rainbow trout fry caught on the screens often still have their yolk sacs and so are newly emerged. We suspect that life history differences between rainbow and brown trout mean that by the time brown trout arrive at the screens they are too large to pass through.

Once in the canal the fry thrive. For example, this summer there were several hundred very healthy juvenile trout of approximately 100mm to 200mm in length left: stranded when the canal was closed in late February, due to weather and flow conditions. By seining each of the pools at the base of the drop chutes we were able to recover just over 100 of these fish which were released back into Lake Otamang;akau.

Genesis work closely with us over the salvage, advising us when they are going to have to close the canal to meet their legal obligations and paying our costs to recover the fish.





Compliance and Law Enforcement Update

Fishery Area staff working on our lake angler survey programme over the summer period have conducted 691 angler interviews to date and are pleased to report a high level of compliance. Together with these cheeks, ranging activity on a number of dedicated law enforcement operations resulted in 12 offenders being apprehended since the beginning of December. There were a variety of breaches including possession of undersize fish, exceeding the daily bag limit, jigging within 300 metres of civer mouth exclusion zones and fishing with more than one rod. Often the offending anglers were visitors holidaying in the district and their actions perhaps indicative of a less responsible attitude to the regulations. These examples provide a timely reminder for all anglers to ensure they know the regulations, which is as simple as reading your fishing licence. One particular bugbear for rangers is anglers who fail to carry their license when fishing. It is difficult for our staff to determine whether an angler who is not carrying their license has simply left it behind as they claim or is in fact unfecused. To avoid the possible inconvenience and embartassment of having your fishing gear seized until further enquiries can be made, please ensure you carry your ficense with you at all times when fishing.

With river mouth fishing producing high eatch rates, particularly in the Western Bays, rangers have undertaken a number of operations targeting night and early morning fishing activity to address concerns of possible overharvest and out-of-hours fishing. Only one apprehension for exceeding the bag limit was made and we were pleased to observe anglers displaying a good conservation ethic and releasing many of their fish eaught although the methods of some left a little to be desired!

Whether undersized or still recovering condition after spawning, these trout are important to the future of the fishery and need to be treated with care to ensure they survive. Anglers who employ poor fish handling technique and treat released fish roughly often do as much damage as those

who ignore the rules and take more than their limit. When releasing an unwanted trout, don't drag it up the sand before removing the hook - support the fish in the water while inhooking it and avoid squeezing the gut or putting fingers into the gill area. Allow the fish to recover and swim away without providing the unwanted assistance of your boot or an areial bunch to assist it on the way!

With the arrival of the main spawning season for brown trout and a corresponding increase in angler activity targeting them, our monitoring and surveillance of river and stream mouths in particular will continue.

Any anglers who observe suspected illegal activity are urged to contact us immediately, as information is of most use if we can respond quickly. During working hours the contact number for the fishery is:

(07) 386-3607 and after hours on the DOC Hottine: 0800 DOC HOT (0300 36 24 68)

ANGLING SEMINARS

Every year laupo Fishery Area staff organise and present two free angling seminars for lake anglers.

These seminars are conducted as part of the departments annual Summer Programme. The seminars occur during late December and early January when visitor numbers are at a peak. Designed to improve the successand enjoyment of boat anglers, the seminars target those who are either new to trout fishing or holiday anglers interested in Jeaning more about trout and how to catch more of them. Topics covered include; the life cycle of trout in Lake Taupo, when and where to fish successfully, angling methods and rigs, basic echo sounder use, catch and release techniques and keyangling and boating regulations.

Over the past few years the seminars have been well attended and very well received. Many people return year after year to gain a better understanding of how the lishery functions and ways to improve their success.

In the future we also intend to run similar seminars for anglers who fly ish on Taupe's many rivers over winter. These seminars will be based at the new auditorium at the Tongariro National Trout Centre once this facility is complete.

Dates and times for future seminars will appear on the website (www.doc.govt.nz) and in Traget Traupo, nearer the time. We look forward to seeing you there.

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Evening Dry Fly Fishing on Tampo Rivers

by DaveHart

Dave is the Taupo Pishery Area Ranger based in Taupo One of the biggest misconceptions held by anglers fishing at Iaupo is that the river fishing season ends with the onset of spring and doesn't starr again until the next year's spawning runs begin. Those anglers who have paid attention to the trend of large late spawning runs in recent seasons have been rewarded with some excellent fishing through October and November, but still the perception fluid largely remained that ever fishing at laupowas a winter affair only.

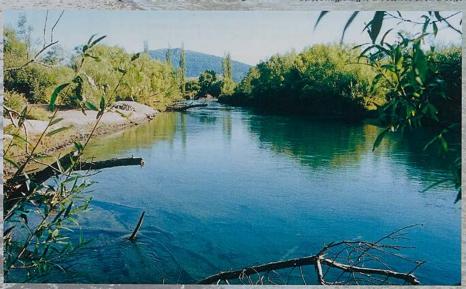
This summer the the thigh the summer the thigh the summer so and the summer so and the summer so and the summer so a summer saw a bumper cicada hatch, providing anglers with some excellent fishing using large terrestrial patterns during the day, this year the focus of attention has been on fishing the reliable and often spectacular evening harches.

The evening rise may have been particularly prolific this summer due to the large number

of lish still in the river after spawning in addition, the stable flows over recent months have fiwoured both fish and insect production but nevertheless a strong evening rise is a feature of most suninters, especially on the Tongariro River.

A number of factors combine to influence why the evening and afterdark rise can be so much more productive than fishing the same water during the day. Firstly, the sheer quantity of feed that becomes available during a massed insect fatch is bound to be exploited by the fish and a virtual guatantee that those fish present in a pool will be in fredling mode, and hopefully easier to catch, for the duration of the hatch. While the topic of streamside entomology is quite fascinating in itself, a basic understanding of what is happening on the water is sufficient for the average angler to fish the evening rise successfully.

Aquatic insects spend the vast proportion of their lives in the larval or nymph stage before migrating to the surface or river edge





Ideal locations to fish the evening rise in the lower and upper Tongariro
River:

Photos: Dave Hart

and completing their metamorphosis into winged adults. The time spent in the nym phal stage varies considerably between species, even closely related species, and can range from six months to two years. Generally speaking though, the life cycle is repeated annually with breeding activity concentrated mostly in the warmer summer months.

While midges make up an important food source for juvenile trout and to a lesser extent adult fish in Taupo rivers, it is the mayflies and caddis which form the mainstay of hatching activity and subsequently food for the trout. Mayflies will hatch sporadically during the day and early evening but often lack sufficient numbers to provide a susmined rise and period of feeding from the trout. For the evening angler it is the caddis flies which form the bulk of the surface insect activity, providing a long sustained "hatch" lasting from dusk until well into the night Generally it is this hatch that anglers tagget, but having said that, on o ccasions it is more productive to fish a may fly imitation particularly early in the evening before switching to fishing a caddis pattern as it gets darker

Caddis activity is greatly influenced by weather with warm windless evenings providing the most ideal conditions for the adult flies to mate before the females return to the surface of the water to deposit their eggs. Interestingly the term "hatch" is often a misnomer when examining what the insects are actually doing. Correctly used, the term describes the period when the nymphs rise or crawl to the surface where the winged adult will emerge from the split husk of its former stage to mke to the air. The term can cause confusion, often being used to describe virtually any surface insect activity. including when adult flies are either return ing to the water surface after mating to lay their eggs or when spent flies are falling to the water as spinne is. As thout may feed on the insects at every stage of both the hatching and subsequent mating process, the hopeful angler needs to discern what is actually going on in order to both select and fish a f.y pattern successfully.

Coinciding with this proliferation of food is the second bene fit of evening fishing which is failing light. Fish which previously were either easily spooked or holding in deep water gradually lose the natural caution exhibited during the day and move up closer to the surface or into the shallows to feed. This is particularly evident in the lower Tenganiro where the large brown trout that are so notoriously difficult to each during the day begin feeding actively. These fish can be targeted by dry fly after dark, although the sna gs and obstructions in this part of the

river make hooking these fish only a small part of the challenge.

For the angler new to this style of fishing the first recommendation is to check out the pools you intend to fish during the day. A quick reconnoitre during daylight can identify good places to cast to and land fish from, snags or obstructions to avoid that will not be visible at night, and also when targeting browns a chance to spot where some good fish are lying so you can watch for them to begin feeding later on. Remember that where the fish feed may be a little distance from where they hold during the day, Check your back-cast area and in areas such as the lower Tongariro with sreeper banks consider whether a long-handled landing net may be needed. Don't attempt to fish an area that will require wading. Apart from serving to spook the fish, which will often be feeding both very shallow and close to the bank, wading rivers at night is downright dangerous and strongly discouraged. Carrying a spare torch is also reconfinended as locating tracks and navigating a safe route back to the car is no funin the dark.

While it's a relief to leave the waders at home, make sure you kit yourself out with long clothing and apply a thorough coating of instustrial-strength insect repellent, as accompanying the caddis each evening are a swarm of mosquitoes that need to be experienced to be believed. These hungry hordes

do ease off after night falls while the fishing remains hot so don't be put off

As with all methods of fly fishing the type of flies used and the way they are tished are critical elements of success, and can vary both in time of day and from early to late season. In late afternoon and early evening custing upstream and fishing the traditional dragfree drift will certainly pick up trout taking mayffies Popular mayfly patterns include such standards as the Twilight Beauty, Adams and Royal Coachman. However, this technique is not so suitable to imitate the evening caddis activity. Instead, the use of a soft-hackle wet fly fished belaind a bead head nymph and swung around downstream in an imitation of an emerging caddis nymph can be extremely effective. Take a look at the caddis f. ies on the water and observe their action to see what you will need to imitate. When actually hatching, the caddis will emerge from the nymph husk and rapidly make their way to land (and who can blame them?) forming a tiny V-wake in the water. Observe them in the late evening and you will see the V-wakes skittering apparently everywhere, as the tentales post-mating swim across and even upstream of the current releasing their eggs into rhe water Anglers fishing a sedge pattern effectively will cast across the current and slightly downstream, allowing the swing of the line and fiv to replicate the surface swimming action of the natural. At times it may be











Over \$150,000 in prizes

Thursday 24th April to Saturday 26th April 2003

Tongariro North Domain, Taupo and Tongariro Chartered Club, Turangi



Carnival Atmosphere, Plus A Brand New Venue



Tournament Rules and Conditions 2003

- 1 FISHINGAREA is limited to Lake Taupo, the rivers and streams running into its shores, plus the Waikato River down to Huka Falls, as designated in your licence. Note: below the falls is excluded, as is Lake Otamangakau.
- FISHING METHOD AND TACKLE All legal methods and tackle as defined under the LakeTaupo Fishing regulations. A fish will be disqualified if: (a) there is failure to comply with the LakeTaupo Fishing Regulations (b) any person other than the angler touches any part of the rod, reel or line while the fish is being played.
- ELIGIBILITY All anglers must hold a Taupo Fishing Licence current for the days of the tournament Licences will be available at registration. If you already have a current licence, please bring it with you to registration. Tournament judges and DOCTaupo Fishery Area staff involved with the tournament are not eligible to enter the tournament. Sponsors may enter, but not win their own prizes. In such event, the prize will be awarded to the runner up.
- RECORDING All fish caught during the tournament will be measured and recorded for Department of Conservation information. The decision of the judges will be final.
- 5 REGISTRATION From 3pm Wednesday 23rd April 2003 at The Tongariro North Domain, Taupo and The Tongariro Chartered Club, Turangi. Postal registration is strongly recommended. Entries in before 9th February will go into a draw to win fishing and/or outdoor equipment to the value of \$500.
- 6 ENTRIES will be accepted up to \$pm on Wednesday 23rd April. Late entries may be accepted up until Thursday 24th at \$pm.
- 8RIEFING Commences at 7pm Wednesday 23rd April at The Tongariro North Domain and The Tongariro Chartered Club, Any amendment to rules and other details will be announced at that time.
- FISHING HOURS 5am on Thursday 24th to midday on Saturday 26th inclusive, except that no person shall fish between the hours of 12 midnight and 5.00am as defined in the Taupo Fishing regulations.
- VENUES AND WEIGH-IN HEADQUARTERS Fish may be weighed in at either the Tongariro North Domain or The Tongariro Chartered Club on Thursday 24th and Friday 25th from 5-7pm and on Saturday 26th from 12 noon 2pm at The Tongariro North Domain only.
- 10 THE ORGANISING COMMITTEE RESERVES THE RIGHTTO RETAIN AND/OR DISQUALIFY ANY FISH ENTERED IN THE TOURNAMENT.
- 11 PRIZEGIVING commences at 3pm on Saturday 26th April at The Tongariro North Domain, Taupo.
- 12 PRIZES ARE NOT TRANSFERABLE OR REDEEMABLE FOR CASH
- 13 FISH CAUGHTWILL BE ELIGIBLE FOR ONE PRIZE ONLY in the individual angler category. All fish are then
 eligible for inclusion in the teams prizes.
- 14 CORPORATE PRIZE for sponsors. Teams may have any number of anglers entered. Cost is negotiable with the organiser. The winner is decided on the heaviest three fish caught by the team. Sponsors are not eligible for other categories. Corporate category only.
- 15 THE JUDGES DECISION IS FINAL and no correspondence will be entered into
- 16 VEHICLE: Adult anglers only eligible for the draw. One name will be drawn and that angler will be asked to draw out one of 100 envelopes. Only one envelope will contain the vehicle prize. The angler must be at the venue for the draw. No other person may take the name of the angler called. Proof of identity may be required.

























Suppo

- Fly fishing entries are for individuals and team four fly fishing.
- 2 Teams events are for TEAMS FISHING FROM T THE SAME BOAT by jig, trolling or spinning m
- 3 Spin fishing from the shore or jigging is conside Please see your fishing licence for details.
- 4 All entrants will weigh-in and record their fish automatically be catered for.
- For this tournament, only fish measuring 45ch eligible to be weighed-in.
- 6 All rulings made by the tournament committee
- 7 Rules are subject to change. Such changes wil
- 8 Entering the tournament gives the organiser the tournament for advertising and publicity purports.

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Heaviest rainbow fly 1st Heaviest rainbow fly 2nd Heaviest rainbow Vs 1st Heaviest rainbow Vs 2nd Best condition factor fish

JUNIORS SECONDARY

Heaviest rainbow fly 1st Heaviest rainbow fly 2nd Heaviest rainbow t/s 1st Heaviest rainbow t/s 2nd Best condition factor fish

WOMEN

Best trout by a woman Best condition factor fish Heaviest rainbow fly 1st Heaviest rainbow t/s 1st

TEAMS

Aggregate weight 6 fish, 2 man team fly 1st Aggregate weight 6 fish, 2 man team fly 2nd Aggregate weight 6 fish, 2 man team t/s 1st Aggregate weight 6 fish, 2 man team t/s 1st Aggregate weight 9 fish, 3 man team t/s 2nd Aggregate weight 9 fish, 3 man team t/s 2nd



































































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April at The Tengariro North Domain, Taupo.

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ENTRY FORM



Taupo, Thursday 24 - Saturday 26 April 2003 (Registration Wednesday 23 April 2003).

ONE ENTRY PER ANGLER. Photocopies Accepted. Please Print Clearly,
NAME First:Last
ADDRESS:
PHONE: MOBILE:
OTHER/EMAIL:
TEAM ENTRIES:
NUMBER INTEAM: TWO THREE FOUR
TEAM NAME:
TEAM CAPTAIN:
OTHER:
MALE FEMALE PRIMARY STUDENT 5-12YRS
SECONDARY STUDENT 13-17YRS
I WILLREGISTERAT: TAUPO TURANGI
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to take note of the weather when planning an evening's facreas calm, warm evenings insect activity, cold squally ay shut it down completely, major flood will scour much of the and many of the fish out of



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A selection of suitable caddis fly patterns
Photo: Dave Hart

necessary to vary the angle of the cast in order to achieve the correct speed of the fly as both line and leader swing until the strikes of fish indicate the desired action has been achieved.

For choice of fy a number of caddis and sedge fly patterns of caddis flies, stimulators and even large muddler minnows can all be used with success as can many of the more traditional "smail wets". If you don't have any takes after a few swings of the fly try varying the speed of the swing, and the size of the fly until you hit the right combination. Where early in the evening and to a limited extent at night the f.sh will be

seen taking the fly, at times sound may be the only key to a take and keeping in touch with the swinging fly is critical to avoid missing them. Similar to other forms of night fishing the leaders used can be quite heavy without deterring the fish, and if fishing around snags or targeling the large browns of the Tongariro a strong leader is essential.

It is critical to take note of the weather conditions when planning an evening's fshing. Whereas calm, warm evenings encourage insect activity, cold squally evenings may shut it down completely. Similarly a major flood will scour much of the insect life and many of the fish out of



the river, slowing the evening rise for the remainder of the summer.

Anglers used to seeing few people on the river during the day over summer can be quite taken aback to arrive at a pool in the evening and see how many rods are present. As with Winter fishing on the river observ ing angler etiquette is important. Remember the basics and before moving into a pool where other anglers are already presem, ask ifit's okay, and where you should come in If you arrive to find a pool is clearly full, move on and find somewhere else. Often where one angler cuts in front of another the act is due to ignorance rather than intent. Politely but firmly explaining the etiquette will almost always resolve the situation and prevent a new angler for repeating the mistake.

An important consideration of evening dry fly lishing at Taupo is conservation of juvenile fish. Typically a high proportion of fish caught during evening fishing will be juveniles, particularly during the early evening period before the larger fish become active. These trout are very valuable to the fishery as, having reached this size, their survival is almost guaranteed when they migrate to leake Taupo. Sensible fishing and an observance of correct catch and release methods will ensure these fish reach adulthood.

Remember to observe the basic rules:

- · land the fish quickly to reduce stress
- keep the fish supported upside-down in the waterwhile you unbook it. Don't drag it flapping up on to the tocks or sand
- don't put your fingers into the gills or squeeze the body of the fish while unbooking it
- use forceps or needle-nose pliers to facilitate quick removal of the hook
- hold the fish gently facing upstream and allow it to recover and swim away
- · consider using barbless hooks

The evening rise is quite different to fishing for intigrating spawners in the middle of white. The fish are not as hig but the high catch rates, combined with a mild summer evening, can make for a very memorable experience.

Pascal Vonlanthen with a Lypical Tongariro brown tront taken during the evening rise

Photo: Dure Hart



A report from the "good old days" though it could just as easily be 50 years

Reprinted firom "Taupo Times", Vol. 1, No. 1, Wednesday, January 15, 1952

The Fishing Season – Good Reports from Western Bays

Reports indicate that fishing in the western bays to date has been better than for a number of years past. In general, catches have been larger than last season. There has often been a proportion of spent fish to be put back but the numbers taken in good condition have made up for this

The larger catches have been taken by both fly fishermen and trollers, and there appears to have been a definite increase in the number of small maiden fish in good condition. For some years past it has been usual for the fishing to be very hard by early fanuary, or even late December, so

that parties have often taken one or two fish only and blank days have been common. To date this season this has not been the case.

The lake level is higher than last year and the river mouths have thus been deficient in current, but fly men have been able to take fish from the beaches adjacent to the mouths. With the fall in lake level probably as the season progresses it is likely, ludging from the number of fish now being taken that the mouth fishing will be better than last season.

By Mr Ralph H Ward.

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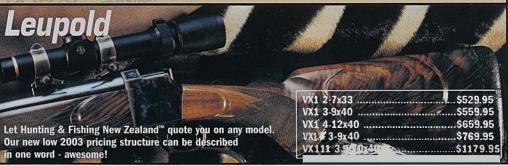
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Photo - Alan Sherson, Sportways Waikato Hunting & Fishing New Zealand™.

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by Bernie Baker, Bainbridge Island, Washington, USA Whe had been fishing since morning up the lauranga Taupo River, arriving in our present canyon setting in the last hour. This was my first day out fishing since my wife Linda and Larrived in New Zealand ten days carlies. Our monthlong New Zealand stay was not planned as a fishing trip but more to experience the people and places in as much depth as possible.

My guide, Peter Wilkon and I were totally absorbed in our passion for fishing The thousands of casts had at this point, 7.30 p.m. or so, yielded six to eight one pound rainbows and couple of three pound rainbow all on dry flies. My favourite way to lish. The fish were not actually visually feeding on the surface, all the more rewarding to entire their rise.

The giver remained low and clear all through the day although Peter memioned that he thought the river may have risen two to three inches/since morning. The Thuranga-Taupo is a small river, easily crossed at any tail out. The rocks were slippery but far less than, many streams I have fished back in Washington and Alaska The flow became more twisted upon entering the canyon usually flowing hard against the limestone cliffsat each turn requiring a constant alternating course for us to wade and fish. Experiencing the river's surround offered me a first-hand introduction to the "bush". There was a real in the lower reaches that we used to access the river but that had long faded away leave ing the river as the only apparent way in and out of the canyon. A couple of hours before we bad passed several fishermen moving downstream out of the canyon. We apparently had this beautiful water to ourselves

While I had no watch, I guessed we had approximately one to two hours to dark and were probably three or four miles from Peters' truck. Off we went downstream hoping to get out before dark while picking up a previously stashed fish and gear along the way. While rounding a turn to the night, Peter noted a large brownie softly rising to a hatch of Mayflies. He asked if I wanted to cast an Adams at this fish. My eyes answered for me as he carefully tied on the fly of choice. Peter continued his task as he stood to my right facing upstream and me facing him. He was just in the motion to release the fly to me when I saw something in his eyes as he changed his focus from his bands to

something upstream. I turned as my eyes registered the same as Peters.

DANGER! Fifty yards from us was a bulge or wave of water coming around the bend at an alarming speed.

It was pushing a vanguard of pumice rock all along its face like some hornific beast. In that second I heard Peter say, "We're in trouble", and me saying "h shit". From that insunt the concept of time became was ped. in the next seconds, we moved down the river on the run as the wave rushed us. I remember in a surrealistic way, seeing my booted feet moving over a gravel bar when in the next instance they disappeared in a muddy torrent to our waist, filling the stream from bank to bank. More terrifying than the volume of water was the speed of the chocolate mess. As we rounded another bend with the raging fllood now in front and back of us. it became shockingly apparent that we were going to be trapped against the steep bank on the right. Peter, knowing the river well, wanted to head for a small gravel bar island in the middle of the river 100 yards downstream. There was no time or need for discussion about that choice. By now the river was howling at its and Peter yelling to get centred on that island in case we got swept away. We locked our shoulders with each other's aims in an attempt to become a single fourlegged beast. As we were fighting to recentred on the island below, another unseen wave of water hit us, this time with logs and other large debris rushing by. When that happened I knew that we were fighting for our lives. I fought the terror of dying in the next second as we both put our heads down and focused every particle of energy and concentration to our feet, the moving river bottom and our balance. We pushed our backs against the wall of water as our feet skidded and rolled over the rocks. We were being pushed to a gravel bat with 15 foot high scarred willow trees that were bent downstream. Peter told me later, once we climbed up on the limbs of the 15 foot high bent over willows, that his first look at me showed that I was as white as a sheet. A particularly credible observation.

The likelylapsed time from Peter's upstream glance to this island arrival was probably two to three minutes. In the next few minutes the river rose another foot and

in another few minutes there was no island left, just the willow trees we were perched in

and a rotted five foot long log trapped in the lower branches of the willows. When we started for the island, it was about 25 foot wide and 70 feet long. By our arrival, it had diminished by half. Once on the island my: thoughts most focused on getting over the feeling of shock. Thankfully after a few minutes I could feel the shock become more under control. One way to help that process was to avoid looking up river where there was up foreground, just angry water with more logs coming our way. Yes, those logs coming our way ... better not to look. The flood's voice was now adding to the visual effects. The rolling and colliding boulders and logs, not to mention the still growing thunder of it all. Unbelievably the cleada chorus could be heard over it all, probably having a good augh at our frailty.

Now, after just a few minutes of occupancy on the willows, the concept of time started to make another shift from lightning fast to just how long a minute can be. We never discussed nor considered trying to swim the 30 yards of the narrowest channel. One slip and

all the water at our first would be, in a few seconds, stamming us imo the undercut wall of a massive limestone cliff a few hundred yards below. Peter said to me that he did not consider our lives were in danger. While it was good to hear, a lifetime of outdoor experience told me otherwise.

Peter was trying to raise his home on a cell phone while I watched the lichen marks on the willow trunks continue to disappear under water. Of course, I was hopeful that be could get through but couldn't stop thinking about an unsuccessful attempt carlier in vie tually the same place Peter climbed a few feet higher on the limbs that made a very loosely formed mat It worked! He got through. He first got his young son Richard who was asked to put Amy on. Amy comes on, the connection held. He sald, Amy listen carefully. Were in a spot of bother here. Please call the rescue helicopter, Amy! Amy! Can you hear me! Amy can you hear me! We're above the Ranger Hole on the Tantanga Taupo Please hurry: Can you hear me!"

Because of the river noise. Peter had to yell into the telephone holding it in frontof him. Then to listen he had to cover his unused ear with his one hand while holding the telephone tight to his head, all the while trying not to fall offont perch. He listened to what I assumed to be her reply then closed the telephone and said with much relief that she had heard and understood. He said it would take about 10 minutes to drive to the belicopter and another 10 minutes to f y to us. Okay, 20 minutes to wait!" We waited antl waited and strained to hear a helicopter as it was now getting dark. I kept watching the willow lichen marks still disappearing under the water. After 20 minutes or so and no sign of a helicopter, fear again set in.

as then that I had a thought, or more of a feeling, that I probably wasn't going to be alive come morning.

Then Peter called Chris Jolly's home trying to remember their home number. It worked! Sue Jolly was there. Peter repeated a similar message to Sue. She got it! Sue and her husband Chris were Peter's former employers in a Taupo-based guiding service and had contact with a local rescue helicopter. While we waited, I tried to imagine how a helicopter was going to rescue us.



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It was getting harder to see, but the water was still rising with yet more logs and rolling boulders. Peter's telephone rang. It was the Rescue Centre They were on their wayAmy had got through but where were we? Peter again repeated exactly where we were They were on their way. We wait, we listen for something other than the river. Then we started thinking about if the helicoptee comes, what we do have to attract their attention. The answer was nothing Being good fisher men, all our clothes were dark and drab. No flashlights, a possible deadly mistake.

Peter received another call from the Rescue Centre, wanting more information about where we were. By the completion of the call, it was nearly dark and still no helicopter but then just like out of a Hollywood movie. we both beard something. Yes, it is a helicopter way down river coming up. Just as hope was building, we were dropped to the bonom again as we saw the helicopter bank sharply over the hill to the left and disaft pear Not only visually, but also from our hearing. Our hope of rescue and survival hit. a depressing new low. Then the telephone rang again. It was the Rescue Centre saving that they couldn't find us. "Tell them they just flew over Come back up the river 800 metres past the Rangers Hole". Seconds later we hear them coming up the narrow river and in an instant they were flying right over us with their lights shining on the river banks not where we were

I know I was screaming and waving my rod even though logic said we couldn't be heard.

Over the hill and out of sight and hearing once again. We think but did not say, "They didn't see us." Then we heard them coming again but we couldn't see them until they rounded the fiver bend just below. They were very low, unbelievably below the troes and coming first and hard eight at us. I never thought that they would be able to clear the trees with the rotors but there it was, fifty feet away. 'Then the concussion hit us caus

ing the willows to swirl wildly, Just one more surplise for the day. Still unbellevable to me, the pilot brought the helicopter alongside the willows like a tust for his pick-up. The skid stopped not more than six feet away only a few feet above our life support

willows. I then met the wide eyes of the rescuer standing at the open sliding door. No further invitation was required. I scampered across the limbs and felt the reasouring cool metal skid, then a foot up and a warm hand from the rescuer. I hunkered on the floor opposite the door leaving room for Peter I said, "Thank God and helicopters". No one heard me above the noise. Where was Peter? I looked over the case to see him breaking down my rod in a not so usual way. Another few seconds we were side-by side again and in just four minutes our Frooner came into view of the helicopter lights. It was still above the flood since being parked about a quarter of a mile from the main course of the river. We landed and the rescue team left and was immediately out of sight and hearing. giving rise to a mixture of elation and disber-Bef about what had just happened. looked at each other while we clasped our hands. Standing there with no sound of a helicopter or evidence of the ongoing flood, it seemed like so many other days' end on the river Wet, dark and ready to go home.

As we drove north, I thought of the title of the book that Peter suggested I read, as we walked together that morning – A River Never Steeps.

Hustsort pt

Some six months tater as I was fortunate enough to celebrate my 58th birthday, I gite much graticude and amazement to the rescue team and the ability of the hitot to fly a helico pler under the trees in the idark, to allow us to neady walk on. Nor will I forget Ater's constant concern over my well-being through this ordeal, underscored by whom got on the helicopter first I relieve they made the difference as to whether any of us would enjoy a birthday again. My thanks and admiration goes on 10 the months of the man of them.

PHOF - Peter Masters

Rescuers - Chris Jolly & Constable Barry Shepherd

The Island during quieter times (bottom right)

Photos Peter Willon



An Unusual Catch

While trolling in Jerusalem Bay with two clients on 23 January this year, White Striker III skipper Grieme Cushing palled a strange looking fish from the water that defied recognition.

The incident occurred when after hooking a trout on one of two rods in use, Graeme had stopped the boat while the client played the fish. The other rod was left out and presumably the lure sank to the bottom to jig slowly along with the wind drift of the boat.

Once the trout had been landed and fishing resumed the other rod was retrieved to reveal a strange-looking fish cleanly hooked through the mouth on a spotty goldking cobra which was almost a third of its own size. Stumped as to the identity of the fish, Graeme and his clientshumorously pronounced it to be proof that eatfish had finally realised how ugly they all were and had begun mating with trout instead of each other. The fish was kept alive in water and returned to the Launchmen's Association booking office to be passed to our fishery staff for a more scientific identification.

Taupo Ranger Dave Hart uplifted the fish and identified it as a mature adult koaro (Galaxias brevipinnis) measuring 180mm in length. Koaro are identified as long, slender and somewhat flattened fish with the dorsal fin located close to the tail. Adult koaro are a dull offive green to brown colour with irregulations.

lar patterned markings along the body and a distinct dark spot located above the origin of the pectoral fins. Koaro is the second-most common species in whitebait catches around New Zealand and was the predominant fish species in Lake Taupo prior to the introduction of trout. Despite the predatory impact of trout, koaro still exist in good numbers at trout fry during our juvenile monitoring programme using minnow traps and by electric fishing and adult koaro are regularly observed during drift-dives of the rivers.

Technical Support Manager Glenn Maclean described the catch as highly unusual, as mature koaro of this size are rarely recorded in the lake. Koaro spend the juvenile (white-bait) stage of their life cycle in the lake before migrating into the rivers as intrnature adults, though it appears some large, adult koaro such as this one either remain or return to live in the deep waters of the lake. Adult Koaro range from 160mm to 180mm in size with the largest recorded specimen in New Zealand measured at 288mm.

Unfortunately the koaro caught by Graeme was badly embolised and unable to recover to be released. The fish will be mounted for display and educational purposes.

Our thanks go to Graeme and his clients for the information relating to the catch and making the best efforts to keep the fish alive.

This article draws extensively on the formation presented by R M McDoual! in New Zeatand Freshwester Fishes:

A Natural History and Guide

Acknowledgement:

The adult koaro from Lake Taupo

Photo: Gtenn Maclean



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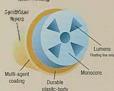


"The conditions at the Oceania By Fishing Champs were quite different to what we had expected, We all adapted will but maybe not quickly enough. We were all very happy with the lines you supplied, I was pair total by impressed with the 355 Clear Floater than I had, Phis 555 was easy to cast, laid our straight and didn't affor the memory problems. This line made the all ference for me and I was able to win the last session that moved our team up a little in the points, but not quite enough".

— Don Short, Membe all the N2 by Folyang Born.

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Sunday, 11 May

Sunday, 1 June

Sunday, 13 July

Sunday, 10August

Sunday, 28 September

Sunday 26 October

Numbers are restricted to 30 chikiren per hour from 9 a.m. to 2 p.m. Bookings are essential and can be made by telephoning the DOC office on (07) 386 9243 between 1 p.m. and 3 p.m. on anyweek day.

Tuition is given by volunteers and DOG staff to children aged six to 14 years (inclusive) who can hold and control a fiy rod. There is no charge for this. However, a fishing licence is required and a child's day ficence can be purchased on site for \$3.00 or children may bring their own Taupo District fishing licence. All other equipment is supplied.

While you are visiting, take the opportunity to look at the new developments at the Tongario National Trout Centre

Distribution of Target Taupo

This Target Taupo, issue 42, is the last issue to be mailed to you from the address provided on your 2001/2002 fishing licence.

The July issue will have your address as taken from your current season (2002/2008) licence If you do not receive the July issue and have purchased a 2002/2003 whole season licence, please telephone our office on (07) 386 9243 and provide your licence number and address to be added to the mailing list. Unfortunately every year there are a number of duplicate copies where we cannot read the address or the address is incomplete or invalid.

To ensure you receive Target Taupo please rake care filling in the address details on your new season licence. In particular make sure that you have your permanem home address (not your holiday home address) and include the suburb of your town or city.

Slip in the Tongariro River



The slip in the upper river.

January 6 was a beautiful fine day but as Rangers Harry Hamilton and Ian Wilson drove over the Tongariro Prison road bridge, they noticed the Tongariro River was filthy and almost completely coered in a layer of pumice. As there had been no significant rain for over a week they guessed there had been a large slip into the river somewhere upstream. They were right! They found a huge slip had occurred just upstream of the Waipa Stream. A cliff on the true left bank had collapsed sending tonnes of pumice and trees into the river below. The river appears to have been blocked briefly and then cut a narrow channel on the true right side. Memwhile, staff working at the l'ongariro National Trott Centre were a little confused by some of the questions they were asked by several overseas tourists, such as "what are all the floating rocks?" and "how do the anglers see the trout?". A short walk to the river revealed what had occurred and staff were able to reassure the tourists that the Tongadire was most definitely not "always that colour"! It took several hours before the river began to clear, but unfortunately for fishery staff and rafting anglers, it will probably take a large flood to clear one of their favourite upper Tongariro River fishing pools.

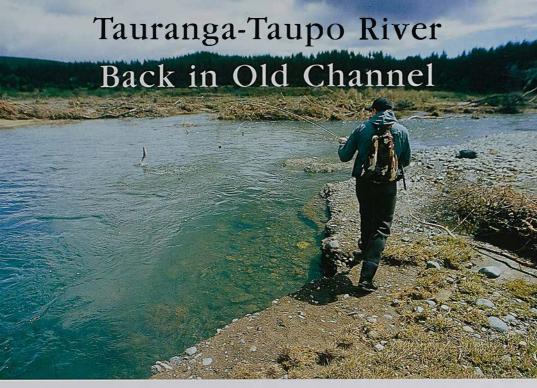


The aftermath at the Tangartro Prison bridge

Photos: Ian Wilson

POWER OF CHOICE





The river channel through tex quarry is now classed as a wibutary and closed to angling.

Photo: Brendon Matthews As many of you will be aware, a large flood in December 2001 caused major changes to the Tawanga-Timpo River including the formation of a new channel through the old Quarry. This autumn remedial work was undertaken by Environment Waikato to return the river to its old channel and address the ongoing risk of flooding faced by Te Rangiira and Oruatua residents and local landowners.

The river broke through into the quarry just downstream of the Cliff Pool and formed a series of channels, re-entering the old river in the vicinity of The Grescent. The old river bed between the break-through point and The Crescent was left high and dry. This in turn meant that Kiko overflow (to the south west) which diverted flood flows out of the river at Maniapoto's Pool was no longer effective.

A number of options to address the flooding issues were considered and ultimately agreement was reached between the regional council, Environment Warkato, and the various affected parties as to a suitable plan. The Department of Conservation was involved in this process both as a land administrator and the fishery manager. We favoured the remm of the riverto its old bed, as long as it was practi-

cal, and that potential fish passage issues in the quarry and Kiko Overflow were resolved.

Work began in late February to remove debris and gravel out of the dry channel and to construct a bund across the break through point into the quarry. In mid-March the river was rediversed back into its old bed. Large floods will still over top the bund allowing the quarry to act as a temporary reservoir to help buffer the effect of flood peak on the downstream residents. To avoid trout becoming stranded during large floods, the quarry will be landscaped so that flows drain back into the river channel rather than ponding We believe that the main channel through the quarry will continue to carry water, fed by underground flows, and will be prime spawning habitat. Anglers should note that because this channel no longer links directly back into the Tauranga-Taupo River it is deemed to new be a tributary of the river and therefore is closed to fishing

The original plan also required a control strue ture in the main river bed at Maniaporo's Pool to control the extent of flows over the Kiko spillway and into Kiko overflow. Previously this had not been necessary but engineers were concerned that the shortened length of





Above left: Looking downstream at the bund Previously the river flowed straight ahead through the quarry but it is now back in its old channel which swings to away to the left.

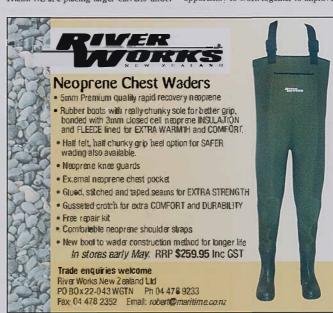
Above right: Standing in the old channel through the quarry looking sepstream at the brend,

Photos: (pages 35-37)
Errol Cudhy:

river channel and therefore steeper gradient as a consequence of the loss of The Crescent may cause the riverbed to cut down, thereby reducing the overflow across the spillway. However such a structure presents a potential obstacle for fish passage particularly if it seours out downstream. With the uncertainty about whether it was actually needed we suggested trying initially without any structure which Environment Waikato supported. If the twer does ultimately cut itself down there are a number of options to address this including some son of instream structure or even reinstating The Crescent.

At the downstream end of the Kiko overflow, Transit NZ are placing larger culverts under State Highway I to reduce the amount of time water ponds in this area.

Following the rediversion, work will begin on repairing and extending the stop banks along the lower river to limit the areas inundated during f oods. Provision will be made for whicle access across the stop bank on the true left where this extends over Tuki Reserve administered by the Department. Once the work is completed the next step is a revegetation plan developed between the department, adjacent landowners and Environment Wail, ato. Some of the landowners have previously indicated to us their desire to see such work occur and we see it as a significant opportunity to work together to improve the



The river slowly makes it's way down its original channel following rediversion



lower river. The plan will not only include vegetation of the disturbed sites but also weed control and latieralising fishing access tracks. Now the river is back in its old bed it is an opportunity to identify with landowners where walking and whicle tracks should and should not go, to improve agreed access ways and to clearly close off inappropriate access across private land.

Currently the owners of the land on the true right of the river (including the quarry) have indicated they are happy for anglers to walk up along the river bank including above the legal right of way. However there is no public access permitted up Hingapo Road (private

forestry road) or up the old vehicle track to the Crescent car park. With the river in its old bed anglers have no reason to walk across the quarry and the owners have specifically requested that people stay out of this area.

In summary on the true right (northern side) anglers can follow the river up on foot from State Highway 1, or on the true left, park in the car park at the end of Tuki Road (which is on DOC reserve) and walk up from there. As long as you stay along the river you may walk as fur up the river as you wish.

There have been statements made by various people about the access situation on the river which are factually incorrect and do

Michel Dedual (18ft) and Rob Hood seine a small pool left bebind after the river was diverted.



The resulted feature was the monber of very large brown trout recovered from the main channel through the quarty.



nothing to improve the situation. As much as anglers don't like 10 hear it, they have been their own worst enemies with their disregard for the property rights of the private landowners. How many of us would appreciate people walking all over our land, cutting new tracks, pushing down the fences, of driving over our pine trees and creating new

vehicle tricks. The proposed re-vegetation plan provides an opportunity to address these issues so that anglers have suitable parking in the lower river, good foot access upstream and the landowners' property rights are respected.



Mandi and Jon left in February - we wish them all the best in their new positions.

Fishery Area staff changes

There have been big changes in the Taupo Fishery team over the last few mombs and a couple more to come.

At the end of last year we were carrying two vacancies following the retirements of Vicki Melican and Bryan Taylor. More recently, Rob Marshall our fishery ecologist left, for a job with finvironment Waikato, followed soon after by Programme Manager Service Jon Palmer (also to Unvironment Waikato) and finally Mandi Goffin, Programme Manager Licensing and Community Relations, who has taken up a position with the Department of Corrections.

Having 5 vacancies has provided an exciting opportunity to restructure the team to lit needs identified in a strategic review last year. This new structure will result in an improved skill base and a focus on aspects of our work that needed more attention. In particular, 4 ranger positions will have responsibilities for specific areas of work (monitoring programmes, field operations, compliance and law enforcement, prosecu-

tions) as well as participating in our activities across the board. The new community relations person will be responsible for the Area's public awareness, publications, visitor centre (Tongariro National Trout Centre) and similar activities.

The process of selection and appointment is well underway and we are looking forward to the new staff joining us. Progress to date includes the appointments of Rob Kirkwood as a Ranger, Carolyn Poots as Programme Manager, Service and Mark Venman as Technical Support Officer. By the time you read this we should have appointed a Ranger, Service to manage the fishing licence administration and a Programme Manager, Community Relations will be on board for the star: of the new financial year in July. In the meantime we have inveigled the long-suffering Shirley Oates temporarily back out of retirement to help with licensing and office administration. We'll introduce you to the new faces in the next issue of Target Taupo.

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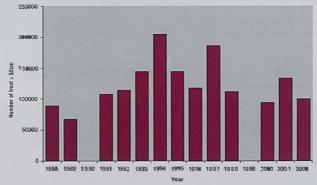
By Glenn Macleym

Overall the fishing on Take Taupo this summer has been good reflecting the November acoustic estimate of the size of the adult trout population. This survey estimated the population of large trout to be approximately 100,000 fish.

Normally we work on 100,000 trout as being the benchmark for a good summer and subsequent winter of angling. The timing of the survey in late November means that in a typical year, any kelts which have survived spawning will have returned to the lake and are included in the count. However, last year spawning was so late that a significant number of large fish were still up the streams when the count was made. For example 63% of the fish we trapped in the Waipa Stream last year were trapped after 1 September and 22% after 1 November. Therefore the count of 100,000 trout was an underestimate of the total number of large trout in the lishery. A comparison of the November acoustic estimates since 1988 is shown in graph 1.

Graph 1: Acoustic estimate of the number of large treat in take Taupo in November from 1988 to 2002

(No data available for 1990 and 1999)



Our angling data for the November to February period reflects that eatch rates have stayed relatively high over the whole summer which is unusual (Table 1). Typically the eatch rate falls away in January as the fish start to concentrate deeper in the lake out of reach of commonly used deep trolling methods like leadlines. This has occurred to some degree this year but is offset by the success of anglers using other methods (fable 2).

Table I: Average catch rate (per angler) for anglers interviewed on Lake Taupo November 2002 to February 2003

Month Catch rate	(fish per hour)	
Nevember	0.34	
December	0.42	
January	0.28	
February	0.37	
Average	0.35	

Table 2: Average catch rate by method for anglers on lake Tayo November to kebruary 2003

Method	Catch rate (fish/hour)	Hours of effort recorded
Shallow trelling	0.37	328
Leadines	0:18	545
Wirelines	0.31	73
Downriggers	0.39	147
Jigging	0.74	215

In part, the high catch rates through January and February reflect the remin of kelts to the lake, bought in by several small freshes in December. These fish feed invenously and tend to concentrate around the drop-off where they are easily caught. However, it is also apparent that anglers jig fishing have enjoyed a lot of success.

In table 3 the average catch rate for each method is compared for 2001/02 and 2002/03.

Trible 3: Average catch rate (fish per bour) by method for the period November to february 2001/02 and 2002/03

Fishing for smelling fish around the lake edge was relatively poor last spring due to the late return of kets to the lake.

Photo: Brendon Matthews

Method 2002/03 2001/02 €.37 Shallow trolling. 0.47 0.18 0.18 Leadlittes Wirelines 0.35 0.31 047 Downriggers 0.39 0.28 0.74 Jigging



The reduction in success shallow trolling or harling is likely to be directly linked to the lack of recovering fish in the lake over spring, these fish typically form a significant part of the catch using this method. It is also obvious that anglers have had much more success this year using jigging techniques. We are unsure whether this reflects that jig anglers skill levels are improving or that the fish were more vulnerable to this technique this summer for some other reason. However it is still not a widely practised method. Over the 2001/02 summer only 10 percent of anglers interviewed by our rangers while fishing were using this method and this summer jig anglers still only comprised 14.7% of all anglers on the lake. Interestingly 87% and 82% of jigging anglers in the two years respectively were interviewed at the southern end of the lake. This is consistent with our observations while making aerial counts, Regularly we see concentrations of anglers jigging in the vicinity of the Delta and Tauranga Tauporiver mouth but only very occasional jig anglers elsewhere around the lake.

The high catch rates by jig fishers have caused some consternation amongst other anglers. Clearly there is a potential for an increased harvest if these catch rates are maintained and the method does become widely practised. We will monitor this closely but by the same token people are catching fish at a time when most anglers typically find lishing very hard, which is after all one of the experiences we are trying to provide.

Much of the criticism regarding jigging relates to the survival of fish caught and released. However our trial 10 years ago into the mortality of fish caught by different methods indicated that while fish caught at depth suffered greater mortality, the key factor was how fast the fish were bought to the surface. Trout caught jigging tend to come to the surface much more slowly than fish caught on downriggers and so should suffer less mortality. As much as some anglers may not like to hear it, the mortality of fish caught and released on booby flies and the like fished using the heave and leave technique at the nearby river mouths is likely to be greater.

This summer anglers interviewed as part of the routine creel surveys have rated their satisfaction with the size and condition of the fish at 3,3 out of 5, their angling success at 3,3 out of 5 and their enjoyment at 4.6 out of 5. This is on a par with last summer and slightly down for size



and angling success compared to the late 1990s. In a large part the rating for the size and condition of the fish is influenced by the number of kelts newly arrived in the lake over Christmas Just as occurred the previous summer, the late spawning meant these fish returned to the lake too late to recover condition before the influx of summer anglers.

Over 80 percent of anglers said that nothing detracted from their angling experience on the lake. The most common concern among the remaining anglers was the behaviour of jet sleers and to a lesser degree, water skiers, particularly over the busy Christmas period.

The other feature of the fishing this summer has been the evening rise, especially on the Tongariro. This is discussed in Evening Dry Fishing on Taupo Rivers on page 18. While this is a regular occurrence on the Tongariro in most years, the intensity and extended duration of activity through into February this summer was memorable. This likely reflects the unusually settled flow conditions over recent months which favoured insect and juvenile trout production and the very late spawning which meant there were many more recovering trout in the river than usual for this time of year. This also bodes well for trout numbers in the next couple of years when the juveniles thriving in the rivers at the moment begin to mature.

Catch rates on Take Otamangakau reflect that this lake has generally fished well once conditions warmed up early in the New YearThe average catch rate measured has been 0.26 large fish per hour or one fish every four hours. This may still seem very low but is significantly high er than typical catch rates recorded in recent years of 0.15 to 0.18 fish per hour (one fish every 5.5 to 6.5 hours). The other feature this year has been the excellent condition of the trout of both species. Amongst the fish we have measured have been several rainbows over 2.7 kg with condition factors greater than 70. It will be interesting to see what comes through the Te Whalau trap this winter

Overall this winter is shaping up well on the Taupo rivers Given the pattern of very late spawning runs in recent years it is likely that the runs will once again be late. Rather than starting at Easter it may well be more prudent to star, later and finish later. Some of the best angling over the last two years has been in September and October. How many of you were still fishing the Taupo rivers then? However it could all change, particularly if we get a more typical winter with regular rain to stimulate the runs. It is all part of the uncertainty of fishing.

Owen Balley from Talliape shows Ranger Rob Hood a 3.75kg brown trout caught off Cabbage Tree Point, take Taupo in late December:

Phote: Ian Wilson





WAIMARINO RIVER WORKS

Rebuilding the bund to keep the Walmarino River in its existing channel

Photo: Glenn Maclean

In early February Environment Walkato undertook repairs to a stopbank on the Walkato undertook repairs to a stopbank of the Walkato undertook repairs to a stopbank on the Walkato undertook repairs to a stopbank of the Walkato undertook repairs to a stopbank on the walkato undertook repairs to a stopbank repair to a stopbank r

In the early 1990s this channel had been croding its way towards Korohe and residents were concerned that the river night eventually break out and inundate their houses and property. In late 1994 the channel was closed with a substantial bund and the river returned to an earlier channel on the non-h side of the flood plain.

The bund is approximately 400 metres downstream from the winter fishing limit and over the intervening years foods have eroded much of it away. Faced with a risk of a future flood breaching the bund Environment Waikato used a maintenance condition in their consent obrained for the earlier works to effect repairs. In the original structure large angular rocks which were bought onto the site were used to anchor the bund. However, this time, finer material from the river channel was pushed against the bund to increase both its height and width. Several large trees which had fallen into the stream just upstream were also removed to improve the river flow and these laid against the bund to further strengthen it.

TRACKS UPDATE

When you visit for the winter fishing, the successful outcome of our track clearing contract should be evident The tracks have recently been checked and the work required noted. Contractors have been engaged to begin in March and the bulk of the track clearance and maintenance workshould be completed by Easter.

Smelt Monitoring

When you are focused on hooking a big trout on the take or in a niver around Taupo, it's easy to forget the very small transparent fish the melt (Recroplana actropiana) that are pivotal to the success of trout in Lake Taupo. Without smelt, sustaining a rainbow trout fishery in lake Taupo would be difficult if not impossible. Although tainbow trout preyon a variety of food items, smelt represent 9% of their diet. Therefore, the growth rate and body condition of trout in the lake is directly proportionate to the abundance and size of smelt.

When trout were first Inmoduced into Take Taupo the populations of the two fish species (koaro and common bullies) originally present in the lake were unable to sustain the level of trout predation, and so smelt were introduced from the Wakcato River via the Rotona lakes. The initial introduction of smelt was in 1934 and yearly releases occurred until 1940 when smelt had established a strong self-sufficient population. The success of the introduction is clearly obvious vince the trout condition and average size has remained exceptional by any sa neard since.

Smelt spend most of the year in deep water offshore feeding on acoplankton. In the spring, the adults move into the shallow marginvaround the lake to spawn in the sand. The spawning season spreads from November until Mauch when they spawn for the second time.

Smelt populations dynamics are extremely complex. Their populations are cyclic, and a variety of natural factors (like inter-age competition and nutrient levels) determine year-class strength and overall abundance. Smelt younger than one year old are the bulk of the population and their availability is critical, since trout need them for rapid growth.

When smelt are off shore it is difficult to monitor their abundance and size and so to estimate the overall health of the population. However, when they spawn they will come within a few metres of the sandy shoreline where we can easily catch and monitor them using a beach seine net.

We have some good data on spawning smelt abundance along the lake shore for the late 1980s and mid-1990s. But as we pointed out in a recent issue of *Target Taupo*, the water quality of the lake is changing and one of our main concerns is to monitor how smelt will adjust to the new conditions. Therefore we have designed a programme to monitor smelt

Ranger Rob Hood (left) and Fishery scientist Michel Decinal some a sample of smelt

Photo: Glenn Maclean







Sorting the catch.

Photos: Glenn Maclean and Rob Hood

abundance using the same methodology and sites as were used in 1995 and 1996. Every month tive samples (bauls) are taken at each of the three sites around the lake shore, using a eight metre long seine net. The smelt caught in each sample are counted. It sometimes takes a while as numbers can range from a few individuals to many hundreds. A sample of the catch is taken for later analysis which provides information on population structure including age, size, condition, reproductive status, and the timing of sprawning. Any juvesnile trout or common bullies caught are also counted and released.

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Monitoring began in November last your and the results of the first four months indicate that in 2002 smelt concentrated later along the beaches to spawn than in 1995 and 1996. No obvious change in smelt size is 50 far noticeable, however in December the density of smelt at the northern end of the lake was four times larger than the maximum density we observed in the mid-1998. It is early to draw any conclusion but nevertheless we are confident that the smelt population is still healthy, contrary to the perception of some anglets.



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TEAM PROFILE

Peter Morton

Peter Morton has recently joined the Turangi Office of DOC. Following the departure of Cam Speedy, Peter has taken over the role of biodiversity technical support supervisor, and is responsible for co-ordinating the team of biodiversity specialism at the conservancy office.

Peter is not new to DOC's work in the Tongariro-faupo Conservancy, having spent the last 8 years working for DOC at Whakapapa. In this role he managed the Ruapehu Area's threatened plant and animal protection work, including the Tongariro Forest Kiwi Sanctuary, as well as plant and animal pest control projects.

Having literally started out on the end of a shovel with DOC, as a seasonal track worker during student holidays, this new role represents the latest in a long series of career challenges within DOC. "If recommend a career in conservation to anyone who wants to make a difference to the environment we live in. You never stop learning when you're working with nature, and the people dawn to this sort of work tend to be very enthusiastic and dedicated to what they do."

Outside of work Peter spends his time rock climbing and ski-touring. His partner Andrea is also about to start a new job as the head of the science department at Tauhara College. Together with their young son Sam, they will shortly be swapping the bush at Owlango, for the lake at Taupa.



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