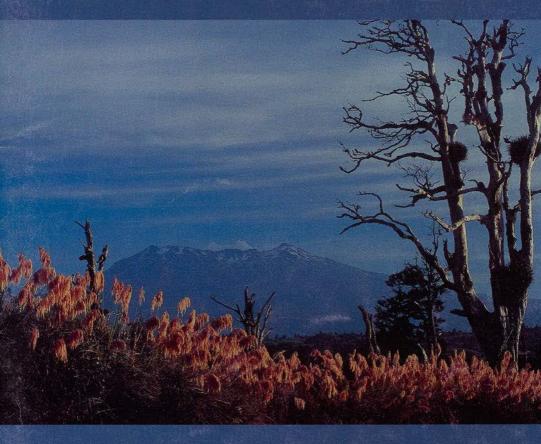
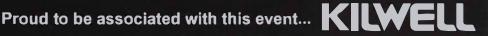
TARGET TAUPO

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

MARCH 2001, ISSUE 36









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

MARCH 2001, ISSUE 36

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Front cover: Tongariro Forest, in the shadow of Tongariro National Park, is a magnet for hunters and anglers. Increasingly this forest is recognised as an ecological treasure chest, hosting a large number of threatened native species, including kiwi.

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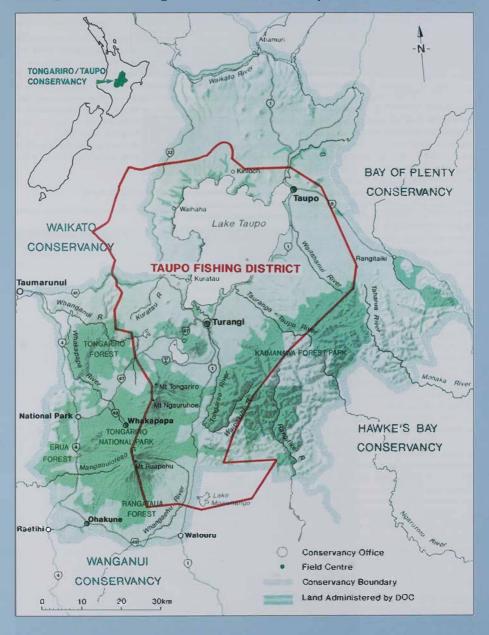
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The views expressed in Target Taupo are those of the contributors and do not necessarily reflect Department of Conservation policy

Tongariro/Taupo Conservancy



Return of the Good Old Days?

"the Tonyariro

fishery is no

once was"

By Glenn Macleun & Michel Dednat

Michel Dedual is the Fishery Area Scientist Hailing originally from Switzerland Michel is atso a very entbustastic angler.

Glenn Maclean is the manager of the research and monitoring programme in the Area. He is also responsible for fishery advances and is the editor of Turget Yaupo.

There has been a lot of comment over the past couple of years about how good the fishing has been at Timpo and many comparisons made with past years.

No one has suggested that the tishing matches the first few glorious years following the introduction of trout in the early 1900s when the

Eshery boomed in what proved to be an unsustainable way However the erhave been numerous state. longer the world class fishery it ments suggesting that the fishing is as good as at any time that contemporary anglers can remember So it came as a surprise to many peoble when Fishery Manager John Gibbs commented at

hearing in Tauto last December that the Tongariro fishery is no longer the world class tishery it once was,

Taupo fishing has been very good in recent times and when we consider how many more anglers now share the resource then surely the fishery antsi be in as good heart as

it any time in the past 50 years. However let's delve into the numbers in more depth to check if the picture is as rosy as it first

A wild wild fishery

A common misconception amongst anglers



Climatic ovents such as major floods Influence the size of the Tanpo trout production.

Table 1. Minimum and maximum densities of spawning frout recorded in five laufo tributaries

River	Number of years surveyed	Minimum třsh/km	Maximum fish/km	Magnitude of variation	
Hinemautia	11	184	138t	7.5x	
Waimarino	10	223	496	2.2x	
Waiotaka	8	131	505	3.9x	
Whitikau	10	62	258	4.2x	
Tauranga-Taupo	3	341	648	1.9x	

we talk to is that the Taupo fishery is artificially stocked, no doubt fuelled by m aware ness of the hatchery at the Tongariro National Trout Centre. However the fishery is totally wild, sustained by natural spawning in the tributary streams. The fishery was only stocked in its initial years at the turn of last cemury while it was established and as part of several experimental releases since then. Each winter mature rainbow trout run the Taupo rivers to spawn. These are the fish which sustain the winter fly fishing and most are going on three years old. Trout spawn all year round at Empo but the bulk of spawning occurs in August and September The female trout digs a small depression in the gravel using her tail and lays her eggs in this 'redd'. The accompanying male trout immediately fertilises these eggs while the female moves slightly upstream to dig another hole and lay more eggs. The current washes the gravel excavated from the second egg pocket over the first thus covering the first eggs. In all each female will lay approximately 3000 eggs in her redd.

Approximately two months later the newly hatched fry, which are about 25mm long, emerge from the gravels. These fish live in the stream for the next 6 to 18 momhs. Each fish defends a feeding territory the number of which will dictate the number of young trout that the river can produce Fish which cannot defend a territory are pushed downstream until they can find a vacant territory. Those which cannot find a "possic" eventually arrive into lake Taupo where their chances of survival are slim because they are still too small to feed on smelt - the small fish that provides most of their diet. However life looks much better for those trout which reach a size of 100mm (lingerling) before entering the lake. Once in the lake feeding on smelt they grow at a rate of 1mm a day, Growing at this pace it takes only one more year for the fish to reach 500 to 550mm in length and to mature. In autumn the trout begin to collect off the mouth of the stream where they were born and soon they are

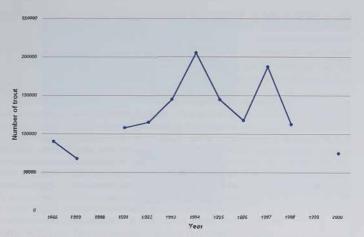
swimming back upstream on their own spawning migration and the cycle is once again complete. The majority of these adult fish will not survive the stress of spawning but approximately one third will return to the lake, albeit as emaciated specimens anglers describe as kelts or slabs (Tanget Tempo issue 35). Those that arrive back in spring find a boumiful food source in the smelt which at that time are spawning in the shallow margins around the lake. These spent fish quickly regain condition and hy the following winter are once again ready to make another spawoting migration.

To maintain the spawning trout population at a constant level only requires that two fish return to spawn from the 3000 eggs laid, a survival rate of just 0.06%. This highlights two key aspects of the Taupo fishery Firstly the two year period from when the eggs are laid in the gravels until the fish reach approximately 350mm length in the lake is particularly hazardous for the young fish. Secondly a very small change in the survival rate will make a huge difference to the size of the subsequent adult population.

The streams flowing off the mountains of Tongariro National Park and the ranges of Kaimanawa Forest Park and, the waters of Iake Taupo inherently provide exceptional spawning and rearing habitat. This is reflected in the numbers and the Quality of the fish produced. However it is a harsh environment which does not take any prisoners. For example summer floods may displace and kill juvenile trout and so reduce the subsequent size of the adult population.

Thus in most yeats the fishery fluctuates in response to variations in seasonal weather patterns and habitat quality. Very occasionally an event may be catastrophic such as occurred when volcanic eruptions in 1995 and 1996 caused huge ash inputs into the Yongariro River, temporarily suffocating the streambed. However the tront population can quickly rebound under more favourable conditions. Just occasionally a year class develops under optimum conditions

Graph 1. November acoustic estimate of the number of trout greater than 35cm in Lake Taupo 1988 to 2000 (gear failure prevented completion of surveys in 1990 and 1999)



without any setbacks and the trout population reaches a memorable peak.

As a consequence it is characteristic of the Taupo fishery that the trout population flue tuates widely This can be seen in several ways. For example in graph 1 the number of trout greater than 35cm estimated in lake Taupo each spring by acoustic survey is presented for the years 1988 to 2000 (a discussion on the 2000 results is presented on page 25).

67,700 to 205,200, a three fold variation, A similar variation between years is evident in our peak counts of spawning trout in selected stretches of five Tampo tributtries (table 1).

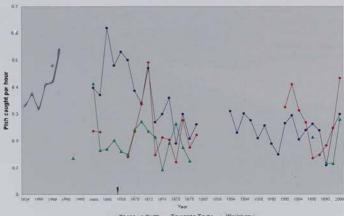
Such year to year variation, which tends to be periodic, is characteristic of wild salmonid fisheries.

How do these numbers compare with 50 years ago?

Not surprisingly there are no comparable counts of fish numbers in the 1950s or earlier However there are very extensive eatch records collected by rangers undertaking routine licence checking on the Tongariro and other Taupo rivers and on Lake Taupo. On each visit rangers collected data from every angler encountered, whether they were a good or bad angler, friend or stamger, had caught fish or not. Several of these rangers were well known for their determination that no one should fish 'their' river or lake without a ticence and surveys were undertaken throughout the season at any time of the day. In those days managing the fishery comprised latgely ranging and as a consequence a huge number of angler checks were done each year The use of creel surveys (surveys of angler catch) as a incasure of the quality of a fishery is the most common and widely applied sampling technique employed by fish and gaine agencies around the world. Because of their importance, surveys have received extensive analytical mention in recent years. With the intense scrutiny and advances in knowledge it has become clear that the way



Graph 2 The catch rate (total fish aught/total bours of effort) of anglers interrieuzed on the longariro, lauranga-Taut'so and Waitabenut Rivers for the wars 1953/54 to 2000



- Tongariro River - Tauranga Taupo . Wastahanui

catch data was collected in the past was not always without flaws However in the case of the Taupo fishery the very large number of surveys in the past necessitated that surveys were spread throughout the season and across all sorts of conditions inalvertently this overcomes potential biases that could have occurred with the simple survey design used prior to 1985. Since 1985 the surveys have been rigorously planned using statistical theory to ensure the data collected is robust and defensible

From the data it is usual to calculate a measure of the success of the anglers interviewed. The most often used measure is eatch rate or eatch per unit effort (cpue) which is usually expressed as the number of fish caught per hour of angling effort. For example a catch rate of 0.25 tish per hour equates to carching

0,5

one Jish every four hours.

Catch rate data collected for the longariro, Tauranga-Taupo and Witahanut Rivers since the 1953/54 season is presented in graph 2. Prior to the 1959/60 season a closed season existed over the winter months. However in 1954 and 1955 special experimental winter seasons were permitted. As many anglers are aware this is the period of peak fishing success on Taupo rivers and including the data for the experimental seasons on the Tongariro with the remaining data for the 1954/55 and 55/56 seasons increased the overall Tongariro catch rates by 32.5% on average. The eatch rates recorded for other seasons on the longariro and Tauminga-laupo Rivers through the 1950s have been acliusted using this mean increase in annual catch rate and the adjusted eatch rates are shown as the

0.4 caught per hour 0.3 ₩ 0.2 0.1

Graph 3 Average around catch) rate for anglers trotting on Lake Taupo 1958/59 to 1999/2000.

Table 2. Mean cannal catch rates before and after 1980 for the Tonguriro, Tauranga-Taupo and Waitabanul Rivers

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The Croad Old Days.
Murrely Greig with a limit of eight rathibour troud from the Tongarino River.

	Cpue pre 1980	Cpue post 1980	Statistically different (P <5%)		
Tonganiro	0.38	0.24	Yes		
TaurangaTaupo	0.25	0.27	No		
Waitahanui	0.20	0.18	No		

open circles and triangle in graph 2.

looking at graph 2 the year to year fluctuations characteristic of a wild fishery are evidem. However it is also obvious that the mean eatch rate on the Tongariro has declined in table 2

the mean catch rate for each river over the last twenty years is compared to the mean catch rate prior to 1980.

The mean catch rate recorded on the Tongariro since 1980 is significantly lower than that pre 1980 but there is no measurable difference on the Tauranga-Taupo and Walitahanui Rivers.

The other long term records of catch rates are those from anglers interiewed while trolling on Take Taupo. These are presented in graph 3.

The mean catch rate on Lake Taupo prior to 1980 was 0.38 lish per hour (one fish every two and three quarter hours) which

compares to a mean catch rate of 0.26 fish per hour since (one lish every four hours). This difference is statistically significan.

So on the lake and on the Tongariro, like largest river in the fishery, there has been a significant decline in the mean annual catch rate. However catch rates remain unchanged on the Tauranga-Taupo and Waitzhanui Rivers. Essentially catch rate is the product of the fish abundance and how easy it is to catch them. The ease of catching lish is known as 'catchability'. A more precise explanation is provided by Usmall of the University of Liverpool, who found the following relationship held for a wide range of migratory salmonid populations in England and Ireland.

 $Cpue = qN^{1}/8$

where q is a constant expressing catchability, N is the abundance of fish, and δ is a constantlying between 2 and 3.

The significance of this relationship is that small changes in angler earch rates mirror

large changes in fish abundance. On the face of it the significant decline in angler catch rares on take faupo and the Tongariro River is indicative of a very large reduction in the number of adult trout. However a decline in catch rates could also be caused by a reduction in the catchability of trout.

The catchability of migratory salmonids is affected by many factors including water temperature, the skill of anglers, method used weather conditions and river flow. It is also possible that on some heavily used fisheries anglers interfere with each other, and so reduce the probability of success for the next angler through disturbance of the water.

Could a change in any of these factors have caused a decline in the catchability of trout in LakeTaupo or theTongariro River which might explain the decline in mean catch rates?

We examined these and other factors in considerable detail. The full discussion is too long to present here but can be summarised as follows.

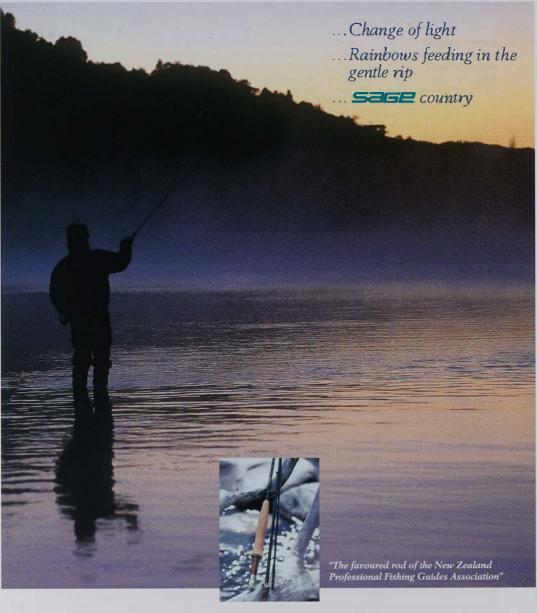
Water temperature and weather conditions

Taupo anglers have long recognised the influence of weather on fishing success. For example bad weather and heavy ruin which causes the barometer to fall and the overs to food in winter is eagerly anticipated. We are all aware of global warming, which in the long ruin will affect the Taupo fishery. However no measurable changes in weather patterns have occurred over the past 50 years and we can assume that the effects of weather on catchability have remained constant.

Fishing methods

The continual quest to refine fishing equipment and techniques in the exploration of new or improved ways of fooling the quarry characterises the history of angling, improvements in gear efficiency will increase the catchability of the trout and result in higher each rates for a similar level of trout abundance.

The Tongariro River has been restricted to fly fishing since 1934 and traditionally has been the preserve of the "downstream angler".



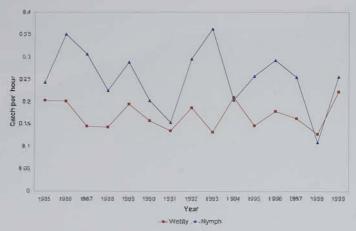


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Graph 4 Mean catch rate by fishing methodism the Tongariro River since 1985.



Through the 1950s and 6ts anglets fished almost exclusively with a wet fly and sinking line swung downstream. Nymph fishing ming a floating line east upstream first became widespread on the Tongario in 1978 and now accounts for approximately 70% of total angling effort each year This reflects the fact that this method is much more successful overall than modern weiffy methods (gralih 4).

In turn, moderat wetfly methods are much more effective than those which prevailed prior to TPD Initially anglers used flylines made of silk which, if not dressed with flortant, sank but not very well. Other anglers used homemade lines involving coating silk or other lines with such materials as powdered lead or tar. In the 1950s the first symbetic flylines made of terriene appeared. These lines which were denser than water sank deeper than silk and were followed by the first sinking lines made by Scientific Anglers under the Gladding name However the greatest advance occurred with the introduction of Scientific Anglers WetCel line in 1962, which sank at a rate of approximately 5cm per second and the WetCel Hill in 1964. which sank twice as quickly Compare these to the lines used nowadays such as the: DeepWater Express or the Teeny TS series which sink at rates of 20 to 25 cm per second! In addition the use of modern rods of graphite and carbon fibre, which have been widely adopted over the past 20 years, with shooting heads and the double haul casting technique allow many anglers today to east further and with greater ease. On the end of the line are flies of materials and designs unknown 30 years ago.

Clearly the equipment used by today's wetfly angler is far more effective than that used in earlier years. These major improvements in the catchability of trout in the Tongairo would have been reflected in a significant imprease in mean catch rates had nothing else changed.

Other advances have affected trolling on LakeTaupo, in particular the advent of echo sounders which allow anglers to run their lures close to the bottom, the key to successful deep trolling. Downingers, which were first permitted in 1994, do not allow anglers to fish any deeper than was possible with wire lines but do allow anglers accurate control of fishing depth.

The effect of flows

From our radio tracking of fish in the Tongariro it appears that river flow influences the behaviour of trout and hence their eatchability. In the lower river, higher, more variable flows cause the trout to mose closer to the edge and into shallower water where they are more accessible to anglers using the traditional wetfly technique, flowever in the smaller middle river, under low flows, few if my fish are out of reach of anglers and in these conditions they appear to hold for longer in the pools.

The radio tracking experiment also highlighted that low flows favour increased spawning in the main stem of the Tongari ro Greater numbers of spawning fish, which are under stress and easily upset or spooked, may in turn disturb migrating fish resting deeper in the pool. Under low flows anglers are also able to wade deeper and cross the river at the tail of finany pools, disturbing any fish lying in these areas if fish in the pool are disturbed angling success will be limited.

A positive effect of having a reduced flow is that the water clears quicker following floods, which allows anglers to more fully exploit what is an optimum fishing time.

Angler skill

Obviously the more skilled anglers are, the greater their success is likely to be. Success in the Taipo fishery is linked to how familiar an angler is with the lake or river. Familiarity is normally measured by asking the angler how many days they have fished that particular water in the current season, but the type of licence held can also be used as an index. The proportion of long term licence holders, who can be expected to be more successful than short term licence holders, has horeased over the past 50 years. The effect of this is to force ase the catchability of the trout, which should be referred in increased mean earth vares.

Angler numbers

It is conceivable that the number of angless in the fishery in recent years is such that they interfere with the success of their fellow anglers. Let's examine the most obvious situation where this could occur, that on the Tongafro.

When the river is crowded some anglers are forced to fish less productive water or at less productive times. Furthermore, the disturbance from all the anglers may force the fish to seek refuge under the banks or in the deep holes where they are less available or

prepared to take a fly Practical experience suggests there are times when, if a run of fish is in a pool and you are the only angler, your catch rate will be higher than if you have to share the pool with others However this begs the question – how often did one get a popular pool to oneself in the past when the fishing was good?

Intuitively the number of anglers fishing on the Tongariro River must have increased dramatically over recent years, reflecting the incre-ase in fishing licence sales. Implicit in this assumption is that the more anglers there are using the Taupo lishery, the more anglers there are on the Tongariro River at any one time. However the river can only carry so many anglers because there are only so many spots suitable for fishing At some point this capacity will be reached. For example over the 1995/96 season 24% of anglers interviewed as part of routine satisfaction surveys regarded the river as being overcrowded. Over the same season \$1 aerial counts of the number of anglers on the river recorded a maximum of 90 anglers on any one flight, Ninety anglers out of peak sales of nearly 84,000 licences in 1986/87 represent 0.1% of licence sales and only 0.25% of the low point in sales (35,572 licences in 1960/61) In other words the number of anglers fishing the Tongariro on any one day is a veritable drop in the bucket in comparison to the total number lishing the wider l'aupo area over the season. Therefore it is quite: likely that the river has been at its capacity for many years. Quantitative dara describing the trends in angler mimbers is sparse However there are a number of an ecdotal comments reaching back to the 1930s The tenor of these is summed up by the following comment from the N.Z. Fishing and Shooting Gazette in 1933:

"There is much grambling by the overseas anglers who have been unaccustomed to fishing in a crossed and who, altructed by the far flung fame of the Tongaviro River, curive to find the famous pools occupied by a dozen rods or more, to their profound astonishment and disgust, many of them finding ii hard to find a place where they can get fish as most of them are not inclined to take part in the unseemly rush to get there first, which has, of tale years, become the common order of the day, Surely it must be evident to the Department's Officers who visit the river from time to time and who, like myself, may have counted 13 rods in the Hat Pool 7 in the Stump, Bin Judges 11 in Jones and so on, that ii is high time more water was opened up". L. Hanlon, President, Upper Waikato and Fongariro Anglers' Club.

and in later years:

"By 1955 we had our own bach in the Hui camp, The greatest number of fixhermen I can remember fishing the Hut pool at one time was twenty-five; seventeen from our hank (the correct side) and seven on the stones and in the gaps between the kowhat trees. Everyone of those anglers had a good chance of cutching a fish Often the pre-breakfast session which started with daylight and was instally completed by about 9.30mm, would yield thirty or forty fish The occusional exceptional morning would see almost double that taily" John Clemance long time President of Tongation and Lake Taupo Anglers Club witing in Troit and Salmon Sport In New Zealands An Angling Anthology compiled by Tony Orman.

Derisley Hobbs, a scientist with the Marine Department responsible for investigating the high proportion of ill-conditioned trout in the early 1950s, wrote in a report to the Conference of Angling Clubs and the Department of Internal Affairs in July 1953; Perhaps the most valuable are comments by

The 1990/91 and 1995/96 harvest sarvey data contradicts a common perception about angling numbers on the longariro River When we drive over the highway bridge and see 8 or 10 or even 15 anglers lishing the Bridge Pool it is natural to assume this reflects the numbers of anglers along

Pat Burstall, the then Deputy Conservator of Wildlife. In a letter to the Controller of Wildlife in 1964 he wrote

So how does this compare with recent years?

the whole river, In all likelihood had we driven over the bridge prior to the 1958 flood we would have counted similar numbers in the then that Pool.

"It should be appreciated that today especially on the Tougarive River, angling pressure buts virtually reached saturation point, especially luthe period from April to the end of June"

> As part of two year long harvest surveys in 1990/91 and 1995/96 instamaneous aerial counts were made of the number of anglers on the Tongariro River During the two harvest surveys 144 counts were made on 45 days between April and September The maximum itastamaneous count was 121 anglers spread from the Delta to the Whitikau Pool The average count though over the 1990/91 season was 44 angters and 42 anglers in the 1995/96 season If we assume all the anglers were above the Downs Pool a count of 121 anglers corresponds to a density of 8.6 anglers per kilometre and the mean counts to a density of three anglers per kilometre, Another way of looking at it is to work out the number of anglers per pool. At the time we calculate there wen: 34 widely recognised pools. This estimate does not include a number of productive spots known to a minority of anglers. Converting each count to an average per pool and taking the mean of all these results in a mean of 1.3 anglers per pool over 1990/91 and 1.2 anglers per pool over 1995/96

> From this data it is defar that while there are days when the river is crowded, days which stick in angler memories, for the great majority of the winter the density of anglers is much less than two anglers per pool There are very few pools on the river which cannot comfortably hold two anglers both fishing the Dest lies (spots).

This concentration of anglers in a few pools is no different from what happened in the past. The reality is that each season there are a few pools which consistently produce very good fishing. These pools attract a large number of anglers because of this, if there were fewer anglers in these pools those remaining might well catch more fish. However it is clear that sharing these hotspots with a number of fellow anglers was as much a feature of the fishery 50 years ago as it is now These pools were popular because that is where anglers consistently caught fish. As Vice Admiral Hickling so appropriately put it in 1960:

On a daily basis it is apparent that even back then, anglers faced the choice of competing to be first through the pool for the best lishing or of tishing in a, more relaxed if less successful way later in the day. For example George Ferris wrote in his book Thou Trout are Rising in 1964:

There are many stretches of water [in the Tongariro] where you wouldn't cutch in fish in a bundred years, for the simple reason that there aren't any, never have been and never will be."

The discussion over angler numbers relates to the fact that it is possible that a greater numbers of anglers will reduce the catchability of trout in the riverWe have examined Sharing a popular pool with other anglers thas always been a fedant of fishing the Tongaviro Riter:



this assumption using data collected over the two harvest surveys.

Firstly we can compare the actual counts of

anglers just after dawn with the catch rates recorded for this period on the same day, Using the dawn count removes any influence of preceding anglers on fishing

"To be successful in the main tributaries of Lake Taupo it seems necessary to be on the pool not later than 4 mm. I have a feeling that it is not a matter of the early bird getting the fish but the early angler getting the pool, or at least the best vantage point."

success. If there is a direct effect from increasing numbers of anglers on the river, perhaps because some anglers are forced to fish less optimum areas or to share hotspots with other anglers, we expect to see a general trend of decline in mean catch rate with increasing numbers of anglers. The data for 41 surveys spread between April and September collected over the 1990/91 and 1995/96 seasons is presented in graph 5.

From graph 5 it is apparent that there is no relationship between the number of anglers on the river and their overall eatch rate.

We can also compare whether the success of anglers is affected by the total fishing pressure over the whole day (graph 6).

Once again it is clear that there is no rela-

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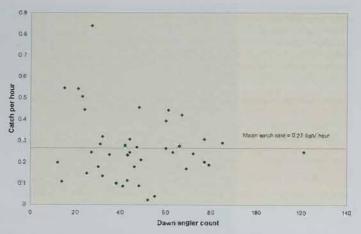
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Graph 5. Number of anglers on the river versus their mean catch rate for the period dawn to mid morning, 1990/91 and 1995/96 seasons.



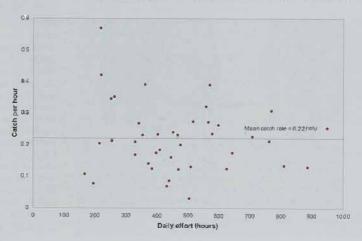
tionship between the total number of anglers using the river and the mean daily catch mie. Perhaps the best way to assess the effects of a possible increase in angler numbers is to give an example. In late July 2000 the first unsettled weather for nearly a month occurred Anglers anticipated that this would bring a run of fish into the river. An aerial survey just after dawn on Saturday 23 July 2000 gave a record count of 167 anglets. Neatly every angler our staff encountered commented on the number of people on the river and the difficulty of finding somewhere to fish. Yet our interviewers recorded an exceptional catch rate of 0.55 fish per hour. It is clear that if sufficient fish are present the river can sustain very high catch intes despite extreme angling pressure.

Catch and release

Catch rate data is calculated by using the number of legal sized fish caught, whether they have been killed or released alive again. The practice of catch and release became much more common in the early 1980s as highlighted by table 3.

Some studies have shown that fish caught and released learn from the experience and become more difficult to catch a second time. However at least there is some opportunity to eatch them again. In earlier years there was no chance of catching lish a second time because almost invariably they were killed

Graph 6. Mean daily catch rate versus total daily fishing effort 1990/91 and 1995/96 seasons.



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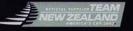




Table 3. The percentage of legal stred fish released by Tongartro anglers.

Period	Percentage of fish returned		
1953 to 1979	4.1		
1985 to 1999	34.1		

the first time. Therefore the catchability of these fish has increased

In summary carchability should have increased in recent years as a consequence of:

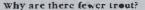
- improved angling equipment and new angling techniques.
- a greater proportion of long term licence holders who are more experienced.
- the ability to fish the Tongariro River sooner after floods.
- lower flows favouring angling in the middle Tongariro River,
- the development of the practice of catch and release

and should have decreased as a consequence of;

- lower flows in the Tongariro River causing the trout to be less accessible to traditional wetfly angling techniques.
- increased disturbance of fish resting in the rivers.

Any negative effects appear to be more than balanced by the corresponding improvements in catchability/This is borne out by the maintenance of catch rates on the läuranga-Taupo and Waitahanui Rivers.

If changes in catchability do not explain the reduction in mean catch rates in lake Taupo or the Tongariro River then the change must reflect a change in trout abundance.



In 1990 the fishery went through a well publicised low point which is reflected in the acoustic estimates and escapement (spawning) counts at that time. An intensive year long survey over the 1990/91 season estimated a total harvest from take Taupo of 69,250 from and a total harvest from the Taupo fishery of 113,000 trout or 175 formes.

In 1991 Dr Martin Cryer completed a four year study into trout production in Take Empo. He estimated a total trout production of 540 tonnes in 1988 and 340 tonnes in 1989. An estimated harvest of 175 tonnes represents 30% and 50% of these figures respectively. This is a considerable proportion of the trout production and is significantly higher than the best estimates of the theoretical maximum constant eateh that is the eatch estimated to be susrainable at all future levels of production.

As a consequence we sought to reduce the angling harvest by reducing the daily bag limit from eight lish to three in December 1990. Monitoring of angler catches from Lake limpo indicated this would save 10% of the previous harvest. This move coincided with an observed improvement in natural productivity and river rearing conditions.

In 1996 following the 1995 and 1996 erubtions of Mount Ruapehu, ntonitoring indi-

cated that the continual inputs of ash into the Tongariro River had likely resulted in almost no recruitment of juvenile rrout from the main stem of the Tongariro.

As a consequence, in 1997 we increased the minimum size limit from 35cm to 45 cm. This was designed to protect a greater proportion of the immature tish in the lake so that more of what had been produced from the Tongariro would survive to spawn. Catch data collected from anglers over the previous two seasons indicated this



Anglers are now subject to severe harvest restrictions including a three fish daily bag tunit and 45cm minimum length would save 25% of the harvest.

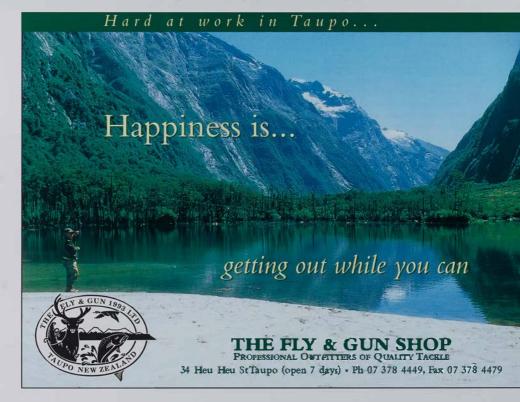
Harvest rate is the number of fish killed per hour, as opposed to eatch rate which is the number of fish caught per hour, whether they are killed or released alive. Harvest is a product of harvest rate multiplied by the amount of angling effort. For example if anglers spend 500 hours fishing and the harvest rate is 0.2 fish per hour then the harvest is 500 x 0.2 = 100 fish.

We have harvest rates for Lake Taupo but no data for the annual angling effort prior to 1990/91. However we can obtain an indication of the trend in the harvest over the years by using total licence sales as an index of the angling effort.

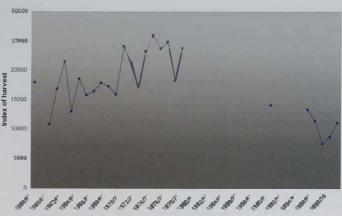
Any estimate of harvest needs to take into account the reduction in harvest brought about by decreasing the bag limit in 1990 (saving 10%) and increasing the size limit in 1997 (saving 24%). The index of harvest calculated by multiplying total licence sales by the harvest rate and adjusted to take into account these changes is presented in graph 7.

It is clear that the harvest in the 1960s and 70s was much larger than that in recent years. This is largely a consequence of the significantly lower harvest rate during the 1990s which in turn is due to the significantly lower angling success in recent years compounded by an increase in the practise of catch and release. The index of harvest suggests that harvest has probably been a significant influence on the trout population for the past 40 years.

In the past the harvest was large because catch rates were high, which in turn reffects the fact that the trout population in the lake was also very large. In the 1990s the lake catch rates were significantly lower. For the same period catchability is likely to have increased, reflecting advances in angling equipment and rechniques. Therefore the lower catch rates in the 90s were the result of a smaller trout abundance. The harvest was also smaller than in the 1970s, which implies that the smaller trout population is a consectuence of reduced recruitment, not



Chapb 7. Index of barrest from lake Taupo 1958/59 to 1992/00 (missing data points refled years in which no or incomplete-angling data was collected)



increased harvest However as occurred in 1990, production can now fall to such a low level that a high harvest has a dammatic effect on the quality of the fishing.

What has caused a reduction in trout production?

The rivers and streams of Lake Taupo for the most part flow through unmodified carchments or are protected by the Lake Taupo Catchment Control Scheme initiated in 1976, or by Lake Taupo Forest which was planted primarily for "preventing soft erosion, reducing pollution of the waters of

Season

Lake Tampo and of the streams and rivers flowing into onci out of said take, and minimisting adverse changes in river and lake water. The impetus for these schemes arose out of concerns in the 1940s and 50s regarding the state of the surrounding catchment. To particular extensive land clearance and associated roading and stocking had exposed the vulnerable Taupo pumice soils and widespread erosion was occurring. Sediment clogged the streams, stock broke down the banks and poorly installed culverts blocked fish passage to spawning areas. The sauccess of the Taupo catchment initiatives is

The Lake Taupo catchment Control Scheme retired stream margins from grazing





lake Tanpo continues to provide ideal conditions for the survival and growth of trout

such that the catchmen is now in better condition than it was 50 years ago

Lake Taupo is oligotrophic (poor in nutrients) and continues to have very high water quality, Growth of phytoplankton in Lake Taupo is considered to be nitrogen limited (see Tenget Tempo issue 35). Recently a trend of increasing nitrogen inbuts into take Taupo has been identified and lake clarity has reduced by approximately one metre since the 1970s. Increased nitrogen inputs will increase the lake productivity and in the short term favour increased trout production. However if lake productivity continues to increase there will be a point where the reduced clarity severely limits trout feeding and so tish condition and eventually numbers. Brown bullhead (eattish) were first discovered in Lake Taupo in 1985 and have since spread all round the lake. In shallow, weedy areas they now occur in very high densities. However extensive research has found no evidence of any direct impact on the trout population. Large bullhead do take some smeli and koura but not at levels which we believe would affect trout growth or survival in the lake. This is supported by the fact that the highest densities of bullhead coincide with the highest trout numbers and fish condition over the past 20 years,

The effects of hydro electricity generation

appear to be the only reason left to explain the decline in trout production in take Taupo. The Tongariro, Hinemaiaia and Kumaau Rivers and Lake Tuppo have all been dammed and their flows regulated for electricity generation purposes.

The Tongariro is the largest triburary of take l'aupo and the major spawning and rearing tributuy in 1995 we estimated the total spawning run in the Tongaciro was 60,000 fish. This estimate is 30% of the preceding November (1994) acoustic count of 205,000 trout in Take Taupo over 35cm in length. The acoustic count is a 'snapshot' there are fish entering the catchable population and others dying throughout the summer but it gives a measure of the significance of the production from the Tongariro If there have been changes in trout production from the Tongariro as a consequence of the Tongariro Power Development Scheme (see Target Tatepo 34 for a history of the scheme) this is likely to have significantly impacted on the lake (ishery It has been suggested that a decline in the Lake faupo fishery could be responsible for the decline in the longarito lishery, Instead it is clear that the reverse applies; a decline in the Tonguno lishery has had a major effect on the Lake Taupo fishers. last year (2000) a major peak in production occurred in the laupo fishery as evidenced by counts of spawning mout in Taupo tribu-

Table & Mean catch rates measured on Luke Timpu and tributaries 2000.

Water	Mean Cpue (Potal fish/tool hours)
lake laupo	0.32
Waitahanui	0.28
l linemaiaia	0.44
Tauranga-Taupo	0.43
Tongariro	0.30

taries and the success of anglers (table 4). Mike Stent. Taupo tackle shop owner, professional fishing guide and member of the New Zealand Hylishing Team wrote in the November 2000 issue of New Zealand Fishing News" ... if bas to be said that lango has had one of its best fishing seasons ever The Waimarino in my opinion has been the best of our rivers throughout this pust season"

The exception is the Tongariro where the catch rate is only 20% grearer than the ntean eatch rate of 0.25 fish per hour post TPD and significantly less than the pre TPD mean catch rate of 0.42. Our escapement (spawning) counts in the Whitikau Stream, the major tributary of the Tongariro, indicate the highest spawning density since monitoring began in 1990, consistent with the patte ernn the other rivers in 1995 the Whitikau attracted one quarter of the spawning fish running the Tongariro and we believe the slightly higher catch rate in the Tongariro last year simply reflects the strength of the Whitikau spawning rure.

Had the Tongariro peaked like the rest of the fishery it is likely that the mean catch rate for Lake Taubo would also have been consistent with those of the 1960s and 1970s These results highlight that for some reason the Tongariro no longer performs like the rest of the fishery. Clearly the production from the main stem is much lower than, and out of character with the rest of the f shery.

This is not the only indication that the Tongariro now functions differently from the

Table 5. Catch rates recorded on the Weitahanid, Teuranga Tanpo cinil Tongariro Rivers since 1974

River	No. of years years	Alinimum Cpui	Maximum Cpuc	Mean Cpue	Coefficient of variation
Waitahanui	9	0.09	0,28	0,18	37.5%
Tauratnga-Emipo	15	0.12	0.43	0,25	37,6%
Tongariro	19	0.11	0.31	0,24	21.6%



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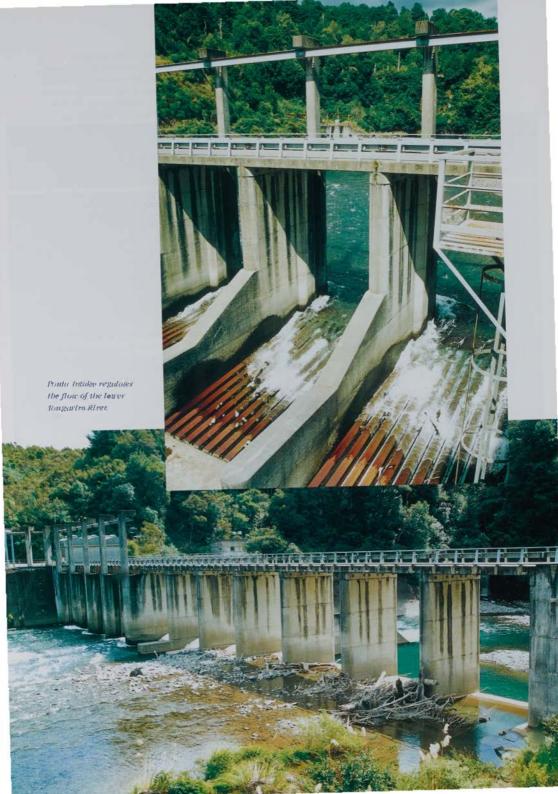
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iest of the fishery Our spawning counts indicate that the numbers of fish entering the rivers each winter can typically vary 3 to 400% or even more over a 10 year period. Such years of peak numbers are reflected in the success of anglers. For example since 1974 we have recorded the variation in catch rates shown in table 5.

On the Tongariro catch rates have varied between 0.11 and 0.31 fish perhouroverrhe 19 years of records since 1974. Despite a mean catch rate similar to that of the Waitahanui and Tauranga Taubo Rivers the coefficient of variation is substantially lower The coefficient of variation is a useful statistic tool for comparing variability between several samples and indicates there is much less variability amongst the Tonganro data.

If we remove the two years affected by overharvest in the take (0.19 in 1990, 0.15 in 1991) which are not included in the dara for the other rivers, and the one-off catastrophic impact of the 1995 and 1996 eruptions which was confined to the in tin stem of the Tongairo (011), then the range is only 0.21



to 0.31 fish per hour and the coefficient of variation just 13.2%.

This compares to a pre TPD variation of 0.27 to 0.62 fish per hour between 1960/61 and 1972/73. The minimum eatch rare during this period is higher than the mean catch rate since 1985.

Clearly the number of mature lish running the Tongariro is less, as is the year to year variation since TPD. We conclude that recruitment from the main stem of the Tongariro is less than that pre TPD and determined by different constraints from the rest of the Taupo fishery I is now far less variable largedy because the peaks evident elsewhere in the fishery, and in the bast on the Tongariro, are missing.

We can idenify no reason other than TPD why the Tongariro should function differently from other rivers and streams in the Taupo fishen: This is supported by the evidence that the unaffected tributaries of the Tongariro vary in a manner consistem with the other rivers the decline in productivity has occurred in the main stem the area affected by the regulated flows of TPD. The reduction in flow in the river means that the Tongariro is now a smaller, shallower, and narrower river We have discussed that juve nile trout need to have a territory which provides them with food and shelter and so allows them to grow to a sufficient size that they can survive in Lake Taupo. As a conse quence of the reduction in the size of the river owing to TPD only a fraction of the territories are available for juvenile trout that existed previously. The regulated Tongariro does not produce as many "viable" juveniles as it used to when it was a bigger river and this is reflected in the overall reduction in production of the laupo fishery

The effects of the Hinemaiaia and Kumtau

hydro power schemes an: slightly different from those of TPO. In these rivers the base flow in the river hasn't changed but the flow can fluctuate widely on a daily basis, mimicking the demand for electricity As a result the fish no longer have a stable" habitat and

have to continually readjust to the flow fluctuations. This is not without casualties and effect on the overall adult production.

The construction of the Take Taupo comrol gates in the 1940s isolated that area of the Whikato River herween the gates and Eluka

Falls. The water in this stretch of river is warmer and rich in aquatic insects. Research in New Zealand and overseas has shown that lake outlets such as this are heavily used for spawning and juvenile rearing. The loss of access to this stretch of water may have also affected the overall trout production of Lake Tappo

So is the fishing as good as ever?

Perhaps on the smaller rivers unaffected by hydro power generation, all things consict cred it is, flowever the Tongariro River achieved its fame because it produced exceptional fishing year in, year out. Rivers like the Tamanga-Tampo and Waitahamui had rheir devotees but the bottom line was none of these rivers could consistently match the quality of fishing on the Tongariro. That is not a slight on these other streams because there was probably only a handful of rivers, if that many, in the world that could match it. As a consequence it was the Tongariro which attracted the anglers and the plaudits.

Our satisfaction surveys and catch rate data clearly inclicate that this is no longer the case. The Tongariro is now just mother laupor river. In fact it lacks the highs of the other rivers. The Tongariro is still a good river hut as a number of older anglers have told us "it is simply not usload it used to be".

Anglers across the whole fishery are now subject to catch and size restrictions not necessary prior to TPD and the smaller hydro schemes in order to ensure the sustainability of the fishery. For sure the fishing at times can still be outstanding, but only as a consequence of these severe harvest restrictions. Anglers who have never known any different may well be satisfied with their current success on the Bongariro or lake. However

saying that the river or lake is still good is not an argument to retain the status quo. Instead it is a measure of just what a wonderful fishery it was that it ern undergo a significant decline and still be atted good. We are not taiking about just another river, the Tongario was 'a very very excep-

tional river".

"the fishing at

times can still

be outstanding.

but only as a

consequence of

servere harvest

restrictions"

It is with this in mind that John Gibbs commented that the Tongariro River is no longer world class.



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How Good Was The Tongariro?

The following is an example of the fishing that made the reputation of the Tongariro River. This is a record by Noel Wright of rainhow trout caught on the Yongariro River between April 19 and May 2 1924 by C.H. Donford of Matangi, R.E. Dorrant. , Grade, EH Stockwell and NO. Wright of Fielding. The figures listed are the weight of each fish caught in pounds.

- 5		8	-			A.	RII.					6	. M	YA		
	19	20	21	22	23	34	25	26	27	28	29	30	1	2	TOTAL FISH	ANTRAGE
Joe Hurdle										15		iš K	7 1/2 8 9 9 11 1/2		9	10 114 Wis
Bart/Oilsmans			11		very dirty			12		t 4 8 13		161/2	12 LL LD	14 1/2	13	II II/I/I/I/I/I
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Carle Dimferd				Flooded river rese	Plooded river dropping	Still discoloured	14 11 11 11 11	8 1/2 9 8 13 8 V 2 7 L/2	Wer day no one fished	36	Fish hi nververy d	7			15	9 V2Av:
	121/2	8 A L4	12 1/2				13 11 9 1/2 7 l/g	13 15 8 8 t/2 7 L/2				19	7 8 1/2		20	101/23hx

Mounting Your Trophy Fish

taxi = to arrange derma = skin

The concept of taxideriny is not new, having been practised most spectacularly by the ancient Egyptians, but also by most other ancient beoples in some form or another. The technique of taxideriny involves skinning the specimen, treating the skin so it will drywithout rotting, preparing an artificial hody and other parts if necessary and finally, putting the mount together in a lifelike and natural arrangement. Trout in particular have always been a challenge, the level of difficulty being accentuated by the delicate structure of their skin, the superb streamlining and subtle beauty of colour.

At last you have caught that trophy trout
of a liferime, the one you have
spent years fishing for What do
you do now to ensure the
final mount captures the
moment?
We have been advised by
world-acclaimed trout and
fish taxidermist, Richard
Abritham of Taupo, on the

do's and don'ts of how to

treat that trout from the time it is landed until the time it is handed over to the taxidermist.

- Pick the best side "for show" i.e. no scale damage or scarring
- Keep the "show side" uppermost don't cover with other lish or wrap in a wet towel.
- Keep the fish cool and moist don't leave it in the sun to "eook". Pour water on it if necessary.
- If unable to deliver the fish immediately, place it flat on a board and freeze uncovered.
- After freezing for 24 hours sed it in a plastic bag.
- Take close up photos for colour matching before freezing.

For

further information contact
Richard Abraham at Taupo (07) 378 0935
Or Bruce Abraham at Turangi (07) 386 6423

A skilled taxidermist can do a let to improve the appearance of a fish but ultimately the better the condition of the fish when it is handed to the taxidermist, the better the final result.

Taupo Trout Numbers Down

The effects of the July 1998 floods are now being seen in the Taupo lishery. The annual acoustic survey of trout numbers in Lake Taupo indicates fewer trout than the exceptional numbers of last year.

Each November we undertake a count of trout larger than 35cm across the lake using a sophisticated echosounder which is able to estimate the size of each fish detected. The count is a snapshot of the population rather than the total number of fish available to anglers over the year as there are always lish entering the adult population and others dying or being caught. A good analogy is that of a sink with the plug out and the tap on full, which remains half full of water.

Last year's count of 80,000 fish was the second lowest recorded since survey sbegan in 1988. The lowest was 67,000 fish in 1989 and the largest 205,000 in 1994 (counts could not be completed because of gear problems in 1990 and 1999). Such variation is rypical of a wild fishery at the mercy of the elements. In most years the fishery fluctuates in response to variations in seasonal weather patterns but very occasionally a year class develops without any setbacks and the trout population reaches a memorable peak like last year. Similarly just every now and again something occurs which is very tough on the trout such as the extreme f.oods in July 1998 which wiped out all of the year's spawning up to that point.

While last November's count was low, the currem fishery is stronger than the count indicates. Monitoring of the rivers during 1998 and 1999 showed that a lot of spawning occurred after the f.oods, the effect of which was to cause the peak in juvenile trour numbers to be three months later than normal. Whereas most young fish in the lake arc normally 35cm in length by November and included in the count, this time many of rhe fish were still too young and therefore too small to be counted. Anglers are still commenting on the number of young fish in the lake which are growing at one millimetre a day and so will rapidly become the large fish we all like to catch.

While the number of trout is low, the reduction in the daily bag limit from eight fish to three fish in 1990 and the increase in the minimum legal size to 45cm in 1998 will protect a third of the fish which would have previously been harvested and ensure many more fish survive to run the rivers to spawn this winter. Overall we predict a reasonable season on Timpo rivers this winter, not at the level of last year, which was the best season for 20 years but considerably better than the low point in 1990.



FIRE Threatens Kiwi Sanctuary

A fire in early February, in the lower Waione Valley threatened to destroy the Tongariro Forest Kiwi Sanctuary, only recently established under the government's Biodiversity Strategy.

The habitat that occurs in the Waione Valley is the result of a very large fire that burm for many weeks in the early 1970s. The toi toi and second growth vegetation are extremely flammable and had kiwi staff not been in rhe forest to report the fire soon after it took hold, it could easily have spread to burn vast areas of kiwi habitat. Up to four helicopters at one time and 35 fire fighters took three days to control the fire which became deep

scared in the heavy fuels associated with the many old podocarp spas, tree stumps and fallen logs. Approximately 25 acres of habitat were destroyed in the blaze which cost the Department of Conservation over \$180,000 to extinguish.

The source of the fire is not known but DOC staff suspect a carelessly discarded eigarette but or even arson may have been the cause as the fire was well away from traditional access tracks or camp sites. Formately, a very wet February has significantly reduced the fire risk this season, but all forest users are reminded of the dangers fire poses to our protected areas and wildlife.

Fire destroyed 25 bectures of kiwi babitat wixbin the Tongario Forest Kiwi Sanctuary in Early February.



Information about illegal activities is only of use when it is passed on immediately

If you see such an activity, whatever the time, please contact compliance staff

Telephone: (07) 386 8607

After hours, an answerphone message will provide you with the number of the Conservancy Duty Officer. He/she will take your call and pass on your information to the appropriate person

Note this contact number is also printed on your Taupo District fishing licence

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Some stores still have small numbers of two fly rod models we ran as specials over the spring. Built on Kilwell's Legend | blanks, these rods are called "Progression L" and are 9' 6/1# and 9' 8/9# models. Special price is \$299.95! (Compare this with the regular Legend I price!)

Otago's Robbie McPhee with double figure Canterbury trout caught on Kilwell Innovation fly rod earlier this year.

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Deer Policy

In late February, the Minster of Conservation released the Department of Conservations. Deer Policy. The Minster's press release and a summary of the policy are reproduced below. While some bunters may feel the policy offers titlle in terms of the bunter aspirations expressed during the public discussion phase of preparing the policy, the challenge for buning groups now is to work within the framework provided by the new policy to achieve both conservation and builting outcomes.

Hon Sandra Lee Minister of Conservation



MINISTER'S DEER POLICY PRESS RELEASE.

The Minister of Conservation, Ifon Sandra Lee, has announced the permit system to hunt deer on public conservation land will be streamlined and minecessary restriction on recreational hunting removed, as one of the key elements in a policy statement on deer. Ms Lee today released the Department of Conservation Policy Statement on Deer Control. It focuses on deer patnarily as a serious conservation pest but also takes account of the needs of trecreational and commercial hunters and of the deer farming and game estate industries. "The Lahour-Alliance coalition's approach to the attangement of deer on public conservation land has been guided by the New Zealand Biodiversity Strategy which seeks to halt the loss of our indigenous plants and animals and promote their restoration," Ms Lee said. She says the policy's over riding goal for deer, control is "to reduce the impacts of deer, along with other threats, on public conservation lands so as to maintain and enhance forest regeneration and indigenous ecosystem protection.

"The Government wants to make it easier in future for both recreational and commercial hunters to hum deer on public conservation land because there is clear scientific evidence the animals pose an ongoing threat to our artive forests and gatssland ecosystems; she said. "Deer hunting is a popular recreational activity that introduces many people to the outdoors. Recreational hunting will be encountiged but deer numbers will not be maintained at levels that cause severe and long tasting forest damage just to provide easy hunting. Opportunities to hunt will nevertheless remain plentiful on public conservation land."

Als Lee said the Deer Control policy signalled a move away from single species plans towards a more integrated approach to pest control, with decisions on deer eventually being made alongside initiatives to control possums, goats and other linears.

The Department of Conservation's priorities for decreontrol will be to eradicate acts and isolated populations, such as those in Northland and Tannaki, which have historically been deer-free, and to control deer to low levels on priority sites.

"Under the policy," Ms tee said, "the Department of Conservation will encourage regional councils to include deer in their Regional Pest Management Strategies parlicularly in areas historically free of the animals,"

The Conservation Minister said OOC would also work with deer farmers to reduce the risk of farmed deer escaping and forming new wild populations. She said new regulated and nonregulated areas for deer farming and associated fencing standards would be gazetted following consultation.

Ms Lee said no changes were currently planned for requirements for holding deer and other wild animals in game estates.

SUMMARY OF THE DEPARTMENT OF CONSERVATION POLICY STATEMENT ON DEER CONTROL

Key points

Goal: To reduce the impacts of deer, along with other threats, on public conservation lands so as to maintain and enhance forest

regeneration and indigenous ecosystem protection.

Scope of Statement: The statement applies primarily to deer control on public conser-

vation lands but also includes actions to restrict the feral range of deer, which will occur across all lands.

Priority Outcomes for Deer Control: The fetal range of Jeer, or species of deer, should not be allowed to expand into new areas, including deer, free regions, catchments and islands, and where possible the existing feral range should be reduced.

Natural habitats and ecosystems will be maintained in, or restored to an indigenous natural character, through effective control of deer and other threats

Hunting: The Department recognises that commercial and recreational hunters value deer as a hunting resource and that commercial hunting in particular provides effective control in those areas that are most suitable for hunting by helicopter. Hunting on public conservation lands will be encouraged where this is consistent with management for conservation. Commercial and recreational hunters will generally have open access to public conservation lands.

Recreational hunters kill large numbers of deer in total each year hm generally caunor kill deer faster than they can reproduce. Recreational huming is not able to reduce deer densities to low enough levels to allow regeneration of palatable seedlings and saplings The Department sees no need to set up new areas to be managed for recreational hunting, h will not seek to devolve the issuing of hunting permits to a hunter organisation. The existing hunting permit system will be streamlined and where appropriate will move to longer-term area wide permits The option of removing the requirement for written hunting permits for deer entirely will be explored. This would require legislative change:

Deer Farming and Game Estates: The Department will work with deer farmers to reduce the risks of deer escaping and establishing new populations. No changes are currently planned to areas where farming of deer is generally prohibited. Nor are my changes planned for requirements for holding deer and other wild animals in game estates (safari parks).

Working with Regional Councils: Regional councils will be encouraged to include deer in Regional Pesi Management Strategies, particularly in deer-feec areas. Copies of the full policy statement are awallable from Sue McCinhe, Department of Conservation Head Office, (04) 471-3117 or 025-846-810 or smeedbeld acgouing Insert image of front page of policy document



Summary of the Waipa Trap Results - 2000

By
Rob Marsball.
Rob is the Fishery Area
Ecologist and is
responsible for the
fishery monitoring
programmes. De is also
a very keen
angler.

Table 1 The number of tront trapped in the Waipa Stream adjusted to take account of those fish that hypassed the trap during floods Another successful trapping season was completed last year on the Waipa Stream, a tributary of the Tongariro River. The year 2000 was the third year of trapping the stream and we are starting to build up a long ternt picture of the spawning run in this stream Collecting data over a long Deviod of time is very important and we are pleased that so far the Waipa trap has survived every.

some of the highest densities ever of spawning fish in many other Lake Taupo tributaries. For example, in the Tauranga Taupo River the highest monthly count recorded this year was 648 fish per kilometre, 262 fish per kilometre more than the previous high. The Hinemaiaia and Whitikau Rivers showed very similar tesults Anglers ieaped the bene lits of this with higher than usual eatch rates.

Species and sex	1998	1999	2000
Rainbow female	1949	3666	4109
Rainbow male	1151	2451	2707
Total rainbow	3100	6117	6816
Brown female	312	287	413
Brown male	257	157	257
Total brown	569	444	670
OVERALL	3669	6561	7487

thing nature has thrown at it including the July 1998 floods. Hopefully this will continue and the trap will be around for a long time to come.

The largest run since trapping began.

East year trapping results show an impressive number of fish migrated up the Waipa Stream to spawn. An estimated 6820 rainbow and 670 brown trout run the river. These are 11% and 51% increases on the previous respective year's rans. Table 1 shows the total number of rainbow and brown trout trapped since monitoring began in 1998. The size of the run in the Waipa Stream supports the results of the 2000 escapement (spawning) monitoring which recorded

Graph 1 shows the peak rainbow run occurred in September with 1-421 fish trapped this month. The brown trout run petked three months earlier in June, when 161 fish were trapped.

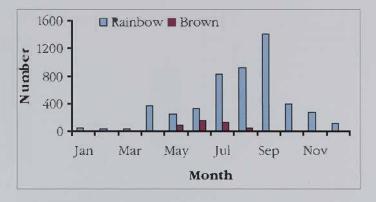
Not only lots of fish but a good average size

Anglers were blessed last witter with not only a lot of fish mid a very good eatch rate but also with good sized fish. Table 2 shows the average weight of rainbowtrout last year was 1.95kg (4.31h), an increase of a quarter of a kilogram on 1999. The size of hrown trout also improved with an average weight of 2.79kg (6th) and an average length of 603mm.

Table 2: Average length and weight of trout trapped in the Walpa Stream since 1998

		Length		Weight			
	199#	1999	2000	1998	1999	2000	
Rainbow male	579	528	542	2.29	1.68	1.85	
Rainbow female	581	524	542	2.48	1.75	2.02	
Total rainbow	580	524	542	2.4	1.72	1.95	
Brown male	647	591	616	3.39	2.56	2.84	
Brown female	622	585	593	3.17	2.59	2.75	
Total brown	633	587	603	3.26	2.58	2.79	

Greeph 1: Actual number of brown and raintone treat aapped each month in the Waipa Steam 2000

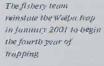


How long do trout spend in the Waipa Stream spawning?

The figures shown in table 1 are adjusted to rake into account those fish that bypass the trap in floods. At the completion of the trapping season we know the total number of trout actually trapped each month. What we don't know is exactly how many fish managed to avoid the trap during floods and therefore are not included in the total run. In order to overcome this we clip part of a fin of every fish that is trapped going upstream. We then trap as many fish moving back downstream after spawning (kelts) so we

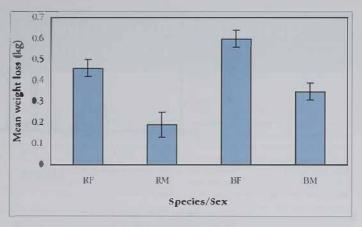
can to determine the proportion of these fish that don't have their fins clipped, and therefore the proportion of fish that bypassed the trap during their upstream migration. If we adjust the actual number of fish trapped by the proportion of kelts that don't have a lin clip we get an estimate of the total run size.

However in order to estimate the total number of tront using the Waipa Stream we also need to know how long they spend above the fish trap (residence time). For instance, if we know that rainbow females stay above the trap for an average of two months then we can adjust the number of





Graph 2: Average weight loss by species and sex of fish spawning ubove the Waipa trap 2000



rainbow females trapped in July by the proportion of unclipped kelts recaptured in September

In order to establish the residence time we tagged 30 rainbow and 30 brown trout every month between April and October in 1999 and 2000 The tags used are small lengths of coloured plastic that resemble short pieces of spaghetti, hence their name spaghetti tags. When the fish are tagged their weight, length and maturity are recorded. Each fish is then released upstream of the trap and allowed to continue spawning as usual, the fish are then trapped again as kelts moving hack downstream to the take and the tag number date of recapture and weight of the lish recorded.

The length of time spent above the trap and the amount of weight lost by each fish was established and the average for each sex and species of tish calculated. On average rainbow females and rainbow miles spent 53 and 64 days above the trap respectively and browns spem around 80 days. For the purposes of calculating the achusted run total we rounded these times to two months for rainbows and three mombs for browns. Dr Michel Dedual, the Taupo Fishery Area Seientist completed a study in 1996 that established how long it took for from to run from the lower river to the upper spawning reaches of the Tongariro River (Torget Tom be issue 22). Michel discovered that it took on average 41 days to make the journey but notes that the fastest fish took 12 days and the slowest 37 days From the results of the two studies it is possible to estimate how long some fish actually spend in the river

each year The degree of variation between individual fish is obviously very high but it is appears that on average spawning fish in the upper Tongariro spend between 100 and 140 days (three to live months) in the river or its tributaries.

While in the river the fish essentially stop feeding. Compounding this is the amount of effort exerted undertaking the spawning migration and while acmatly spawning. The net result is a substantial loss of weight and condition. By tagging individual fish and weighing them before and after spawning we were able to establish just how much weight is lost As graph 2 shows females of both species lose around 0.5kg (1lb.) while males lose between 0.19kg (0.4lb.) to 0.35kg (0.7lb.) Little wonder most people don't keep these ketts or slabs'. They don't look very nice and they don't raste very good either but as discussed in issue 35 of larget Taupo these fish still have a very important part to play in the fishery:

Fishing Regulations Review

The Taupo Fishing Regulations 1984 were created pursuant to Section 14 of the Maori Land Amendment and Maori Land Claims Adjustment Act 1926 and Section 48A of the Conservation Act 1987.

The last major review of the regulations occurred when the current version was written in 1984. Since that time, there have been many changes in attitudes and fishing practices in the fishery. We are aware that some regulations have omlived their usefulness and 50 we are now conducting a review of all of the regulations.

Many anglers have strong opinions about the relevance of some of the existing regulations and you now have an opportunity to help shape any new changes. Possible changes will be discussed with the Taupo Fishery Advisory Committee before being implemented.

The process is expected to take some time and therefore anglers will not see any signifi-

cant change in the existing regulations for the coming season, which commences in July of this year.

If you wish to make continent on the regulations, please write to:

The Taupo Fishery Area Manager Department of Conservation Private Bag Turangi

Some anglers have suggested it should be possible to use splitshot ueft) to directly neight the leader. They argue many of the weighted nymphs already used are simply neights attached to the leader via a book What doyou think?



Four Wheel Drive Access in the Taupo Fishery

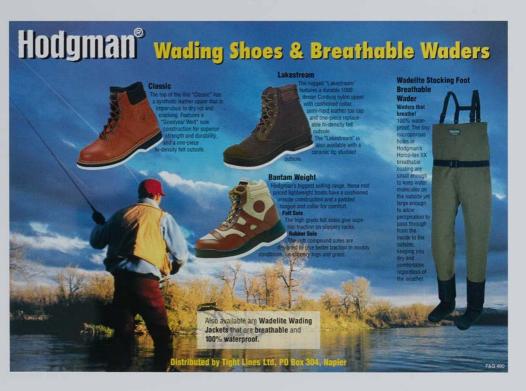
Once four wheal drive vehicles were sturdy little jobs with rippled sides, scratched, dented, herefi of paint, with hig mud.gapping boxts and a winch out front.

Maybe Crumpy and Scotty did it; they must have helped. Now four wheel drives are big, fat, smooth and shing, with street shoes and tim, music and tinted glass. All in all a vehicle that owners are proud to have parked on the graved bank beside the river while they east in the background. Just like the ad really However it went a bit far the other day when a bloke rang and asked if we would clear the nasty scratchy bits from the track access across the inverhed to the Bridge Pool on the Tongariro or else pay for restoring the vehicles that use it. The simple fact is that for a number of reasons we do not encourage vehicle access on to the riverbeds and so any informal track is just that.

If you drive off formed roads in the Taupo

Fishing District, you have no right to be there without landowners' permission. That includes the riverbeds

Rights of way for licensed anglers in the Taupo f shery are spelled out in Target Taupo issue 32. They allow walking access along the banks of specified rivers for specified distances and do not include any rights of vehicle access. We maintain two wheel drive access over land that we either manage or have an agreement with the owners to cross. for anglers to gain access to rise rs. tracks, or fishing spots. So unless you have the owners permission you should not be driving on to the riverbed by Bridge Lodge along the Waforaka berween Waforaka Road and State Highway One, along the Waimarino upstream of State Highway One, beyond the end of Tuki Road nor up to the Crescent on the Tauranga-Taubo.



Catfish Numbers Appear Stable

By Rob Hood

Rob is one of Taupo
Pishery Area field staff
which special responsi
bility for the day to day
running of the
2000/2001 harvest
SUTES

Since 1996 the Department of Conservation has been monitoring and assessing the impact of the brown bullhead (catfish) on the take Taupo trout fishery. Last year a significant diet analysis programme was initiated as a component of the monitoring to be repeated every three years. The monitoring programme provides information on catfish distribution, population and diet and allows any changes or trends in these to be recognised.

On the basis of our results it appears that currently there is no impact by eatfish on the Taupo trout population.

Monitoring the catfish population

Every second month, three fyke nets are set at selected lake edge sites in Waihi, Motuoapa and Whakaipo Bays The nets are set 20 to 40 metres abart at a depth of one metre and left overnight. The following morning they are retrieved and the catch checked. The lake level and weather conditions are also recorded. Any clipped or tagged catfish that are eaught have their length recorded and are then returned to the lake unharmed. The remaining catfish are then processed. This involves firstly killing the catfish by giving them a benzocitine overdose and then recording their length A random sample of 25 large (>250mm in length) and 25 small (<250mm) catfish are then selected and these lish weighed beforebeing dissected to determine the gender of the catfish (which sometimes is still impossible to determine in very small specimens). The stomach/gut/digestive tract is checked and if any food is present this is identified and recorded. Any other relevant information is also noted, such as the general health of the cathish or any unusual features In addition a small sample of catfish longer than 250mm in length are speared by SCUBA divers using Hawaiian sling spears. This is done at a depth of approximately live to ten metres near the drop off at Tauranga. Tampo and Pukawa. The aim of catching these catfish is to determine if there is a difference in diet between cattish living in different habitat types. The deeper water has a tock or sand bed with little weed while the shallow habitat is weedy, muddy and has poor visibility.

What do catfish eat?

Results show that the catfish diet consists primarily of aquatic plant life, freshwater mussels and snails and small invertebrates (insects). Larger catfish also eat small koura and small lish such as bullies, goldfish and a few smelt. Of the 1236 carlish that were in shallow water, only 200 (approximately 16%) contained food in their gut. This low figure is possibly a result of the method of capture (fyke ners) and the feeding habits of the catfish. Most of the netted earlish were likely caught soon after they move out into the shallows in the early evening to feed and therefore had empty stomachs. The low percentage with anything in their stomach differs from the small sample of 41 cathish eaught in the deeper water at Pukawa and Tauranga-Taupo. Thirty one of these fish (76%) contained food in their gut. These fish were taken early morning and therefore had all night to feed. There were also differences in the diets of cat fish between the shallow and deep areas which could be expected owing to the opportunist feeding nature of cattish. For example, cattish that inhabit the deeper water had a lot less aquatic plant material in their stomachs, likely reflecting that there is less weed present. However small fish which are more available in this habitat featured more in the diet. Feeding on koura and fish appears linked to the size of the catfish and their ability to hunt, as only larger catfish (>250mm) contained this prey Several larger catfish from both areas contained a full gut of fish, some containing large goldfish or bullies approximately 80mm in length (the largest found was the remains of a 100mm bully that was in a catlish only 285mm long).

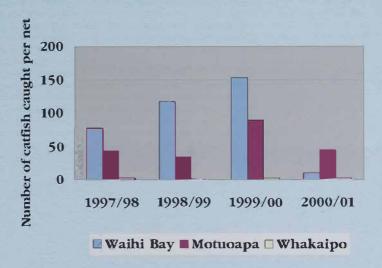
A concern which has been raised is that catfish may affect koura populations. Results from the diet analysis show that of the 23t catfish that had food items in their gut, only 13 contained koura remains (approximately 6%). These catfish were all over 275mm in length. The results for both small fish and koura lit in well with observations made by Department of Conservation SCUBA diyers who have seen large catfish attempting to catch live fish and koura. They were generated

ally unsuccessful unless the catfish was able to trap or pin its prey against the bottom. While koura are more susceptible living on the bottom, catfish appear to ignore large koura which seemed be able to defend themselves in a more than satisfactory manner. Many of the small fish and koura-found in the gut are likely to have died naturally, for example large numbers of smelt die after spawning, and have been found by the catfish rather than been hunted. It is also interesting to note that juvenile trout remains have not yet been found in catfish.

and size of the eatlish have not changed either. The largest eatlish we caught last the year was 376 nm long (15 inches) and weighed 600 grams (1.31b). The average size of the sample was 220 nm in length and 205 grams in weight. Most of the large eatlish we caught were in noticeably poor condition. The smallest that we were able to eatch using our standard fyke nets was only 85 mm in length and there were several others at 90 nm.

So at least at present it does not appear the carfish population is increasing in size. The

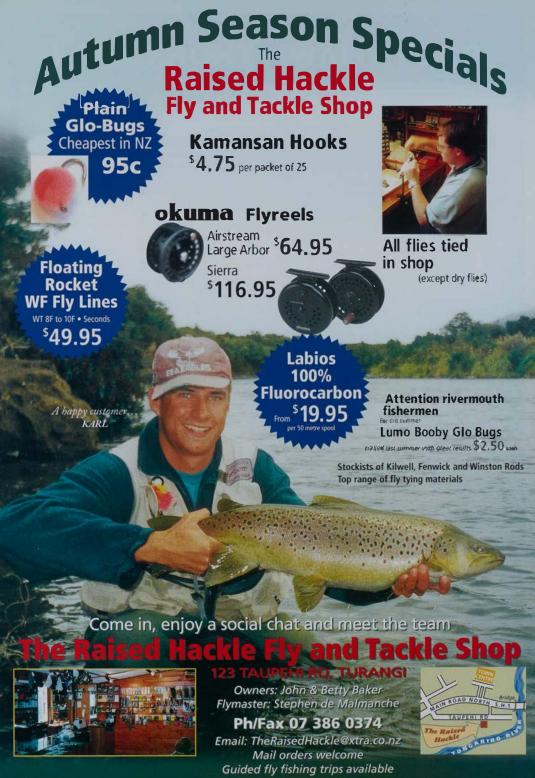
Graph 1: Catch per net per night of catifish at three sites around Lake Taupo summer 1997/98 to 2000/01.



Catfish also cat some strange things at times. One catlish was found to have a stomach full of small pieces of punice and several others had eaten small twigs. The balatability and nutritional value of a diet like this would not be that great! small average and maximum sizes of the catfish also suggests that the conditions for growth are not ideal.

Are the numbers increasing?

Whilst the total size of the catfish population is very difficult to estimate, we are able to establish trends in the size of the population and distribution. There will always be natural fluctuations in any population, but as can be seen by graph 1 which shows the number of catfish caught per net at the three sites over the summer period each year, there have not heen any significant increases in the population density over this period. The condition



Taupo Fishery Advisory Committee What's It All About?

The Timpo Fishery Advisory Committee (ITAC) was set up as an "advisory user group" following the establishment of the Department of Conservation in 1987. The functions of the Committee as defined by the Taupo Fishing Regulations are to:

- Advocate Taubo sport fishing interests.
- 2 Facilitate communication between the Department of Conservation and anglers, and to keep anglers informed on matters affecting their interests.
- 3 Foster ethical standards of angling behaviour.
- 4 Consider and advise the Department of Conservation on freshwater and sport fishing matters within the Taupo Fishing District.
- 5. Make representations, as it sees lit, to the Minister of Conservation or to the Department itself or any other government agency or other organisation, on matters affecting the Taupo fishery including national and regional policy statements, management strategies and minagement plans.
- 6 Liaise with Fish and Game New Zealand on matters of mutual interest relating to sports fish.

One of the main functions of the TFAC is to facilitate communication between the angling community and the lishery managers. The Committee consists of the following members:

Six members appointed by the Minister of Conservation from persons nominated by the following organisations:

New Zealand Professional Fishing Guides Association
Taupo Commercial Launchmen's Association

Taupo Fishing Club

Tongariro and Lake Tampo Anglers' Club (TAITAC) Turangi/Tongariro Trom Unlimited Waitahanui Angliag Improvement/Association.

One member each is also appointed by the minister to

represent:
Tuvvharetoa Maori Trust Board (on advice from the

National angling interests

Fish and Game New Zealand (on advice from Fish and Game)

Tongariro/faupo Conservator of the Department of Conservation

The current members of the Taupo Fishery Advisory Committee are as follows:

Strato Cotsill nis National Fishing interests telephone (04) 472 78 27, fax (04) 472 9982

Chris Jolly Taupo Commercial
Launchmen's Association telephone (07) 378 0623 or
email chrisj@chrisjolly.co.nz

John Davis (Chairperson) Taupo Fishing Club telephone/fax (07) 378 2303

Cotin Patchett Waitahanui Angling
Improvement Association telephone (07) 378 4738
Alun Simmons New Zealand Professional
Fishing Guides' Association telephone (07) 386 7574
or email alan@fishnhunt.co.nz

Gratisam Whymaum Tongariro and LakeTaupo Anglers 'Club telephone (07) 386 8996 or email aport.life@xtra.co.nz

Bryce Jobnson Eish and Game New Zealand telephone (04) 499 4767 or email bjohnson@fishandgame.org.nz

John Gibbs Department of Conservation telephone (\$\mathbb{0}7\$) 386 9228 or email \(\) gibbs \(\mathbb{0} \) doc govt, nz

The Tuwharetoa Maori Trust Board also have a representative on the committee

The Committee encourages anglers who want to comment on any aspects of the fishery to communicate either directly with John Davis (IFAC, 1003 Poihipi Road, RDJ, Paupo, or to contact one of the above members. The Comminee will make regular Contributions to Target Tampo advising anglers of current issue. s.

The Committee meets every two months and deals with a wide variety of matters. Recent meetings canvassed the following:

A review of Timpo fishing regulations

The renewal of the TPD resource consents.

The "Iron Protection" Bill.

Water quality issues and the effect of land development, Fishing guideslicences

The review of the Taupo Fishing Regulations 1984 will be a major issue for the committee and anglers generally over the next year. Judging by the frequent discussions around the camp table many anglers have strong views on sone of the current regulations. This is a great opportunity to have your say and parhaps influence the shape of the new regulations and we welcome your comment. This is your fishery and we urge you to get involved. Contact the committee with any comments which you feel will assist in maintaining the Taupo fishery as one of the best in the world.

Streeto Cols Amis

For sale by Auction **LAKE FRONT - WAITETOKO**



An immaculate property offering unsurpassed views across the lake to Taupo township in the north and Kuratau to the west.

A fisherman's dream location with one of Taupo's most famous rivers at your doorstep. A family holiday paradise; a unique opportunity to secure a treasured lake front property offered for the first time since establishment.





- · First time offered ever
- · Magnificent boating facilities
- · Versatile family accommodation

To be auctioned Sunday 15th April at 11.00am On Site (if not sold prior)



Phil Turner

Office 07 378 1112 A/h 07 377 2262 Mobile 021 325 010 07 378 0305 Fax



Tongariro National Trout Centre Society (Inc) Update

The Tongariro National Trout Centre is the visitor centre for the Taupo fishery area, It performs the same function as a visitor centre in a national park, which is to provide information, educational material and advice to visitors. As outlined in the last issue of Target Taupo the Centre is managed and run by the Department of Conservation (Jaupo Fishery Area) DOC is greatly assisted in this function by the Tongariro National Trout Centre Society. Previously a trust, the society is now confirmed as an incorporated

The Tongariro National Trour Centre Society will have its first public meeting at 10 a.m. on 28 April at the Tongariro National Trout Centre. The purpose of this meeting is to officially launch the Society and to elect the executive officers. You are most welcome to attend and participate in this meeting. Following this meeting a membership drive

will commence. Everyone with an interest in trout fishing. freshwater ecology or in the nianagement of the trout centre are encouraged to join the Society The more diverse the skills represented amongst members, the more successful the Society can be

The first major project for the Society is the refurbishment of

the workshop adjacent to the hatchery year. This will represent another major step building. The existing shell will be converted into an advocacy centre by renovating the building and by the addition of an extension on the eastern side. The centre will house a series of displays describing the history, use, and management of the laupo fishery, and the ecology of the lake and rivers Within the centre will be an auditorium to enable talks to large groups to take place in a comfortable and interesting setting.

The centre will be staffed initially by a Ranger but it is also planned to employ a full time teacher under the Learning Outside the Classroom (LEOTC) programme run by the Ministry of Education. It is expected that well in execss of 50,000 people will visit this facility annually,

The Department of Conservation and the Society have been busy recemly trying to raise funds for this project. The total cost of the project is \$258,456 and is broken clown as follows:

working drawings completed building \$156,300 contract administration \$5.281 interpretative displays \$90,000

So far \$105,000 has been raised (\$50,000 from the Tourism Facilities Development Grant and \$55,000 to be provided from the Tongariro National Trout Centre Society from funds afready held). An application to

> Lottery: Community Facilities Committee for \$83,456 has just been completed, and the Department of Conservation will fund \$70,000 for the inter pretative displays.

If the Lotto application is successful it is hoped that construction will commence at the end of July and the advocacy centire open by the end of the

forward for the Tongariro National Tront Centre.

The Tongariro National Trout Centre Society will have its first public meeting at 10am on 28 Aprilal the Tongariro National Trout Ceiltre.

Winter Possum Control Operations

The winter of 2001 will see large areas of the Tongariro/Taupo. Conservancy, subject to extensive aerial possum control operations in a retreatment of areas done between 1994 and 1996. The operations are a combination of both Animal Health Board and Department of Conservation initiatives. These operations may affect the activities of hunters and anglers over the coming months, Planning is currently underway for operations in the following areas:

Lake Taupo Lakeshore Reserves

This operation includes land of nilved tenure and covers the northern and western shores of take Taubo from Mine Bay, west and south to Kuratm. Approximately eight thousand hectares will be treated with 1080 impregnated carrot balts in June 2001. The operanced carrot balts in June 2001. The operanced carrot balts in June 2001.

tion is funded by the Animal Health Board and is targeting possums to maintain the very low reactor rates in domestic cattle and deer in the North Empo and West Taupo Bovine Tb Management Areas.

Pihanga/Toka:mu and Rotoaira

This operation includes 20,000 hectares of land between southern Lake Taupo and Mount Tongariro including most of the Rotoaira basin. Fight thousand hectares of conservation land are involved including the whole of the Pilanga block and most of the northern slopes of Mount Tongariro under Ketetahi Hut within Tongariro National Park, and a number of associated smaller reserves including those along the steep takeshore effets herween Wathi Village and Pukawa. The operation is a joint Animal Beahli

Possum control in the Roteaira basin this winter will result in the protection of significant ecological values.



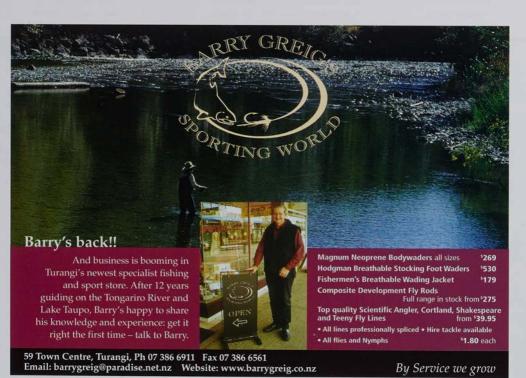
Board/Department of Conservation initiative and will involve the application of 1080 impregnated carrot baits applied by helicopter in June 2001. The operation is targeting possums in an attempt to maintain very low reactor rates in domestic cattle and deer in the Somh Turangi Bovine Tb Management Area. It will also prevent further totara and kamahi canopy die back and protect threatened plant populations within the National Park.

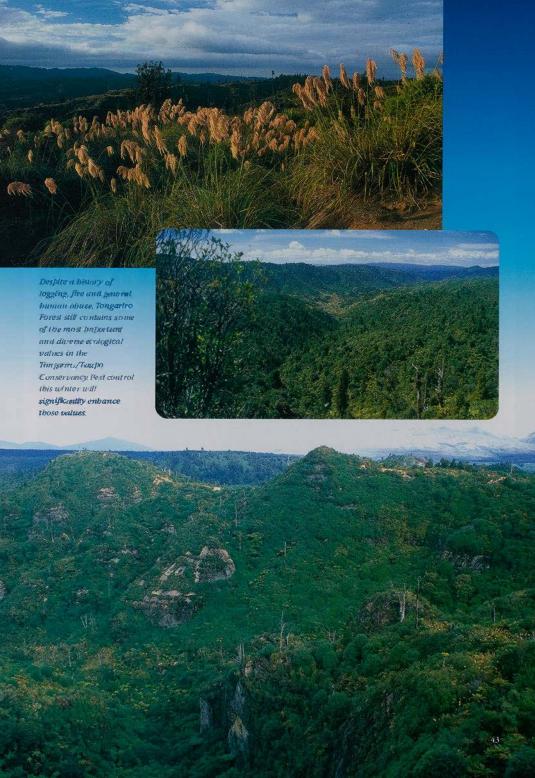
Tongariro Forest

The Tongariro Forest operation includes 27,000 ha of land stretching from State Highway 41 in the north to National Park in the somh, h includes all ofTongariro Forest west and south of the Mangerepopo Stream, parts of Pukepoto Forest and the Waituhi/Kuratau and Raurimu Spiral Scenic Reserves, as well as private land in the north. The operation is another joim-Animal Health Board/Depattment of Conservation initiative

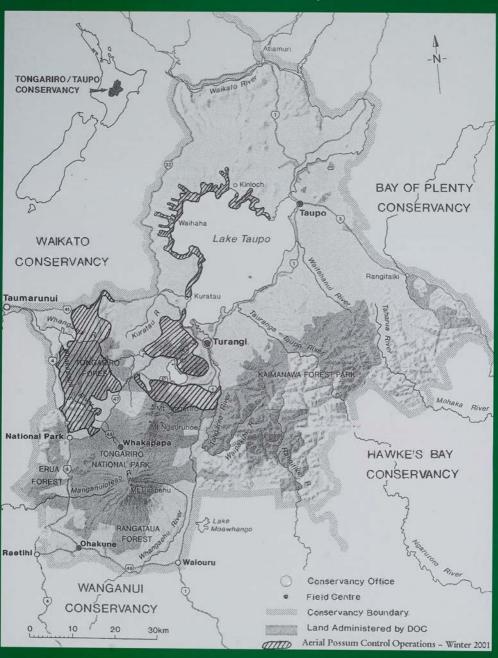
and will involve acrial application of 1080 impregnated cereal pellet baits (3kg/ha) targeting possums and rodents. The operation is an integral part of managing the new Western North Island Brown Kiwi Sanetuary created withinTongariro Forest as part of the government's Biodiversity Strategy. It is planned to occur in September 2001 just prior to the hatching of the first kiwi chicks of the 2001/2002 kiwi breeding season.

In addition to these larger operations, large areas of conservation land within the Conservancy are also under maintenance control regimes using a variety of methods to maintain low possum densities after initial knockdown. Some of these may affect the activities of hunters and anglers. A Pestlette Summary is published by the Department three times each year detailing where toxins have been laid on conservation land within the Conservancy. Copies are distributed with all hunting permits and are available at local Department of Conservation offices.





Major Possum Control Areas in Tongariro/Taupo Conservancy - Winter 2001



Tongariro Power Development Resource Consents

The Department presented its case on the Genesis Power application for nanewal of consents for the Tongariro Power Development (PPD) in November 2000. The hearing was held jointly by the two regional councils concerned (Environment Waikato and horizons.mw) until it was adjourned at the end of November. It is due to recommence to consider the western diversions part of the scheme on 16 July with a decision expected sometime after completion of the hearing.

DOC's concerns centred on four key issues

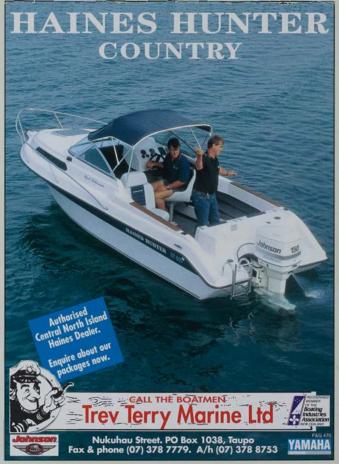
affecting conservation interests in the area of the power scheme. These are residual flows in the Moawhango River below the dam, scheme-wide effects on blue duck, compensation flows in the western diversions (Whangamui River catchment) and flows in the lower Tongariro River. The Department considered that other matters had been adequately dealt with in proposed conditions.

Progress was made on several of these issues, with Genesis conditionally agreeing to a 0.6 cubic metre per second (cumee) flow below

the Moawhango dam (though the Department still seeks a higher residual flow of two cumees), funding a trust to assist blue duck conservation, a 0.3 cutner minimum flow below the Whanganui River intake and a 0.5 cumer minimum flow below the Mangatepopo Sream intake.

Genesis Power argued that there should be no change from the current flow regime in the lower Tongariro River (a minimum of 16 cumees rejetsed from Poutu Intake)

The Department disagreed and sought an increase in flows to improve the lower longariro River trout fishery to something closer to its original pre-scheme quality. The details of this case are in our article in the July 2000 issue of Target Tautpo. One of the more complex areas addressed was the use of a technique called IFIM (instream flow incremental methodology) to model the effects of different flows on fish habitat. The case presented by DOCTaupo Fishery Area staff and a consultant argued that use of this model to implicitly predict fishery effects may be inappropriate where other evidence shows a different result. We now must wait for the decision of the hearing commissioners later in the year.



Survey Update Survey Update

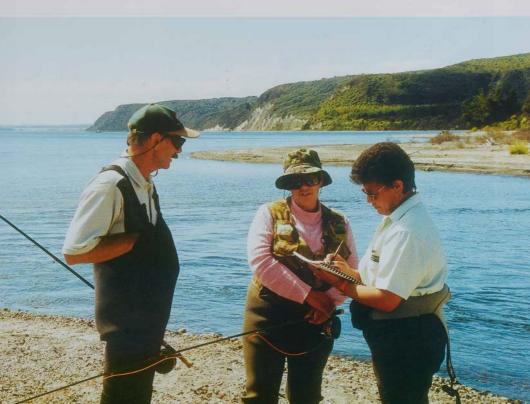
For the first time data from take shore anglers has been collected as part of the lake Tampo Harast Survey. Ranger Vick! McLean (right) asks Dennis and Brenda Butterworth from Wellington about their success at the

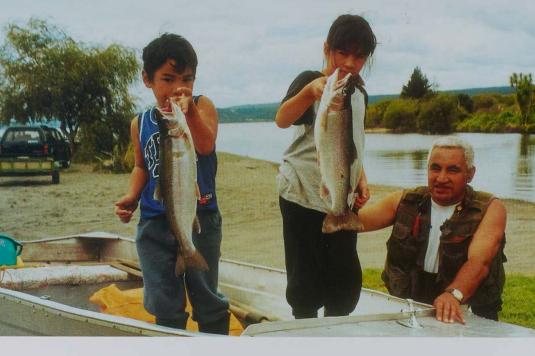
Throughout the summer, Department of Conservation staff continued with the lake Taupo Fishery Harvest Survey. Staff interviewed anglers either as they returned to the boat ramp or while lishing at the river mouths and around the lake edge. As could be expected we were kept very busy. On the 10 days surveyed in October through January, approximately 200 anglers were interviewed each day. We have been delighted with the positive response from anglers, approximately 3550 of whom have been interviewed around the lake since the start of the survey in July 2000.

The anseasonable weather certainly had a large influence on the fishing effort and at times made take lishing difficult for anglers. The highest total number of boats counted fishing on the lake during a survey flight was 285 on 30 December 2000. This is similar to

last year's peak count of 291 hoats and although this sounds a lot, it is still well short of the highest count of 450 boats during the summer of 1998/99. When anglers were able to get out their success was comparable to last year with an overall catch rate of 0.31 fish per hour (one fish every three hours) for all methods over the summer months (Octlan). The most productive period was in November when the average cruch rate was 0.44 fish per hour (last year 0.46).

At first glance these earth rates seem at odds with the low acoustic eoum in November (page 25). However a closer examination of the flshing success, in particular the large number of previous spawners or kehs caught by anglers this summer, explains the variance. The high incidence of previous spawners is a consequence of the record spawning runs last





By tate summer it is often very difficult to distinguish between a maiden trout (left) and a provious shawner (right), thouni (left) and Pentina French bold a-couple of typical Taupe trout caught figging in mid March with their fether Peter.

winter combined with spring floods which washed the spent fish back into the lake to coincide with the smelt spawning. Feeding on this bouniful food supply concentrated around the lake margins allowed many of these fish to regain their body condition and maximised their chances of survival. Living around the lake edge these fish are also vulnerable to anglers trolling and harling, which is why anglers reported eatching so many kelts this summer. These fish sustained the high catch rates which otherwise would have been much poorer given the low incidence of maiden fish seen in anglers bags. The acoustic estimate on the other hand covers the whole lake and is usually dominated by young maiden fish living deeper in the lake. So while eatch rates were similar to last summer the quality of the fish was not.

While these previous spawners often didn't look too flash when they first arrived back in the lake they have quickly regained condition and are very valuable to the fishery, particularly when the number of maiden lish is low (Target Taupo issue 35). The excellent conditions for growth are also reflected in the condition of the maiden fish amongst which are some very large prime specimens. For example our data for fish kept by river

mouth anglers shows an average weight of 2,00kg and 540mm in length. We have heard of several large fish over 4,50kg being caught, as well as a good number of fish around 3,00-3,50kg A feature of the maiden fish this year is the colour of the flesh, which is often red rather than the hright orange colour typical of Taupo trout.

This summer havling in the early morning and then tishing deeper later in the day with downingers and leadlines continued to be the most popular method but jigging is finally growing in popularity. Although widely practised in other parts of New Zealand and proving very successful for the few anglers who tried the method on Lake Taupo, jigging had been slow to take off. However it was noticeable the greater numbers of anglers now trying what is a very successful method in late summer on the

We will cominue the lake and lake-edge surveys as well as the winter river surveys which start again in April, until the end of the season in June. Following this an estimate of the season long harvest from the Taupo fishery will be calculated from the data collected and a summary of the results primed in the November 2001 issue of linget Taupo.

Children's Fishing Days

The fishing pond at the Tongariro National Trout Centre (TNTC) will be open on the following days in 2001:

Sunday 6 May Sunday 10 June Sunday 8 July Sunday 12 August Sunday 30 September

Numbers are restricted to 30 children per hour from 9 a.m. to 2 p.m. and bookings are essential. You will be given a start time when making your booking. Bookings can be made by telephoning Mandi Goffin on (07) 386 9243 between 1 p.m. and 3 p.m. on any week day.

The programme involves tuition at the poolside by members of the Tongariro National Trout Centre Society. Children are shown the basics of casting and then hooking and landing their own trout. The fish is weighed, measured and presented to the child along with a certificate to take home. The programme has been operating for many years now and has proven a highlight for Bookings can be made by telephoning Mandi Goffin on (07) 386 9243 between 1p.m. and 3 p.m. on any week day.

thousands of kids and their parents

Children must be aged between 6 and 14 and there is no charge. However a fishing licence is required, which can be purchased on the day for \$3.00 or they can bring their own Taupo District fishing licence.

While you are at the TNTC take time to also to enjoy the walks, picnic areas, interpretative displays and undercover viewing chamber.

Blue Pool Access

Thanks to the generosity and energy of an angler who wishes to remain anonymous, you will soon be able to again drive to the Blue Pool on the Tongariro River.

The floods in July 1998 washed 20 metres of the road away (see Target Taupo issue 24) and destroyed several of the favoured pools that it previously gave access to. Subsequently similar numbers of anglers have wanted the road left as is as want it reinstated. In addition rafters were not enthusiastic about sharing the estimated \$25,000 cost of repairs, so instead a walking track was cut around the washout, a haul-out area for rafts established and the old Breakaway Pool carpark enlarged.

Work has started on the new section of road and there are plans to widen and improve the turnoff from State Highway One at the southern end of the Poutu Bridge and also the parking area near the Blue Pool with picnic areas and facilities. This should all be completed within the next four to six weeks so autumn and winter anglers can look forward to some changes.

The anonymous benefactor has gained the support of the Departments of Corrections and Conservation for the project, which he wishes to leave as a memorial to his late wife and the many pleasant days they spent fishing the river in this area.

Dog Policy for Tongariro/Taupo Kiwi Forests

In January 2001, a public discussion document was released by the Department of Conservation outlining probosals to manage the potential impact of dogs on kiwi and other widdlife within three forests in the Tongariro/Taupo Conservancy. These are the Tongariro. Erua and Rangataua forest Conservation Areas.

The proposal is to declare these forests controlled dog areas under the Conservation Act. This would restrict dog access to the forests to ensure engoing kiwi management work is not put at isk by uncontrolled dogs. Dogs would only be authorised under permit. For specified activities, including threatened

species recovery work, DOC funded animal control work, and recreational huming where dogs are an essential part of the success of the hunter.

Under the proposal, permits would only be issued for certified threatened species dogs, or dogs which have entered the Kiwi Recovery Programme's "Kiwi Aversion Training Scheme". This scheme involves a one day training session for the dog and handler by a local trainer at a nonninal fee. The dog is exposed to various kiwi stimuli which are negatively reinforced with an electric collar. Dogs entering the scheme will be trassessed at 12 monthly intervals.





Exision is a natural feature of the himematata River but we believe the *Peration of the power scheme has in the past exacerbated this.

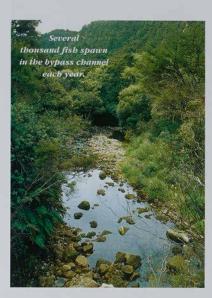
Hinemaiaia Consents Applied For

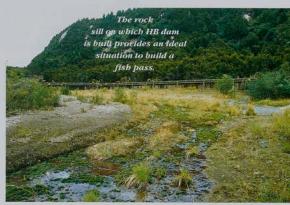
TrustPower the owner of the Hinemaiaia hydro power scheme, has recently applied for consents to operate the three hydro dams on the river in discussions with the Department of Conservation we have raised a number of concerns regarding the past operation of the scheme, in particular the loss of access by trout to two spawning streams above HB dam the reduction in suilable spawning habitat as a consequence of the regularly fluctuating flow the loss of angling opportunity owing to moving the winter limit downstream, the armouring of the stream bed owing to the truncation of the sediment flow by the dam and what we believe is an exaggeration of the natural erosion in the lower river

While the f shery has been in good shape over the past couple of years it is important to acknowledge that some severe restrictions are in place to achieve this result, most notably the reduced daily bag limit and increased minimum size. These measures were introduced to reduce the lake harvest as a consequence of reduced recruitment of

young trout into the lake. As we discuss in A Return of the Good Old Days' on page 4 the only obvious change in the catchment which can explain the reduced production of young trout is the impact of the various hydro schemes. In the case of the Hincmaina a further angling restriction is the setting of the winter fishing limit at the state highway bridge, a restriction which is in place solely as a consequence of building the HD dans. Prior to the scheme the winter limit was at HA dam which meant an additional 11.25 km of fishing water was available to winter anglers.

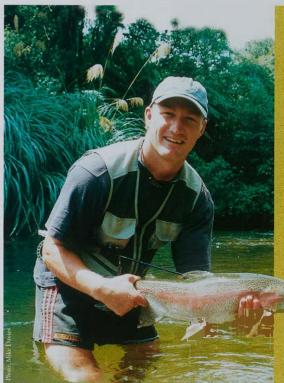
A number of options have been canvassed to mitigate these concerns. Several involve attempting to enhance the spawning conditions in the stretch of channel between HB dam and the power house. We do not finour this approach, for while spawning conditions are not optimum the fact of the matter is that the fifsh already successfully spawn here, improving the conditions will therefore not result in any more fish spawning. Our favoured options involve a much more





natural flow regime in the river below HB and the provision of a fish pass to lift spawning lish above the dam so that they can utilise the Rakapo and Pahikohuru Streams as they used to.

The Department has had several meetings with Trust Power and other stakeholders to address fishery issues and we have provided comments on the draft Assessment of Environmental Effects. We will also be making full submissions at the hearing of the applications.



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MIKE DAVIS, Freshwater Specialist, Fish City Limited, Hamilton.



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Lake Angling Seminars

Due to the success of last year's lake fishing seminars held in January 2000, we decided to make these an annual event. In spite of the success though we were unsure exactly how many more people would be keen to listen to three fishery staff talk about fish and fishing again this year. We need not have worried. This year's seminars proved as successful if not nore so than last year. In total approximately 280 people attended, 130 at Kinloch Marina and 150 at the Mottoapa Motor Camp. One gentleman at

the Kinloch seminar informed us that he had travelled down from Whangaparioa (north of Auckland) that morning and was driving back immediately after the seminar. We hope he found the trip worthwhile.

Needless to say, we will be running the seminars again, which are designed to provide anglers with the basics to trolling on Lake Taupo. The dates and times will be advertised and published in the November issue of *Target Taupo* and at local boat runtps next summer.

This coming winter we will also be running two similar fay fishing seminars designed to improve the success of beginning or visiting anglers on Taupo rivers, these will be held at the liongariro. National Trout Centre south of Turangi on Sunday 3. June and Saturday 21. July starting at 10 a.m. Each session will last approximately two hours, so bring a deck chair.

Glenn Maclean passes on tips to some of the 150 people at Motuoapa and 130 beoble at Kinlocks



Signs advertising the winner angling seminars have been erected at popular angling access points on the Fongariro and Fancanga lango rivers.

Mighty River Power Consents

Many readers of Target Taupo will have followed the resource consent process in which Genesis Power has been involved over the past two years for the Tongariro Power Development (see page 45). For those with a bent towards natural resource management, particularly as if affects the aquatic environment and the Lake Taupo fishery, Mighty River Power is also about to also lodge resource consent applications which cover fake Taupo and the Waikato River. Its applications seek a much greater degree of operational flexibility. The new consents sought would allow Mighty River Power to hold Lake lauloo higher for longer, greater minimum and maximum levels on all Waikato River dams and a greater degree of flexibility for ramping rates within the Waikato River,

The Department, iwi, public interest groups and local authorities have been working with varying degrees of success with Mighty River Power over the past few years in order to understand its requirements and what the effects of its resource consents might be on

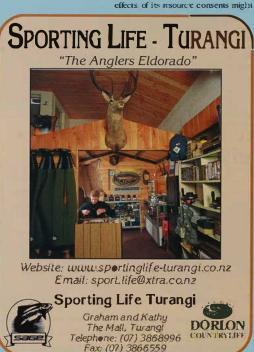
Lake Taupo and the Waikato River. The Department of Conservation is concerned that there is a significant lack of information about the effects on the environment of the existing operation let alone the proposed increases in operating regimes.

An important evolving national debate surrounding major resource consent applications of this type is how much consideration should be given to the state of the environment that existed prior to the schemes for which consent renewals are now sought. These schemes were established under quite different legislation which took a much different view of environmental effects. Mighty River Power is in essence assuming that the current lake level management and river flow regimes are the starting point when assessing the potential impact of the consents applied for The Department acknowledges that the structures are in place and in most cases should continue but believes that this does not mean currem operating regimes must necessarily continue if serious adverse environmental effects are apparent

The Department of Conservation has identified its key concerns to Mighty River Power, They include the lake level regime, which may adversely affect habitat on the margins of Lake Taupo. The loss of the world class trout rishery in the Warkato River near Huka Ladge in the upper Waikato River and the loss of this area for trout spawning from lake Taupo are also of concern. In the Waikato River below Acatiatia dam right through to the coast, internationally significant wetlands and the species that depend on this habitat have been damuged through the operation of the existing scheme with the potential for further impacts from the new operating regime being sought.

Mighty River Power is lodging its consents at the end of March. For those with an interest in the process or its outcomes, becoming involved is not difficult. Community groups such as lakes and Waterways in Taupo, local angling clubs, Wild Fowlers Club, Fish and Game and agencies such as the Department will all be involved and are generally very happy to have individuals with an interest on board or to help where an individual wishes to pursue their own position in the resource consent processes.

The Genesis Power resource consent process



The level of Lake Yaupo is determined by natural implows and Alfghly River Power's operation of the Taupo control gates.

has produced some valuable community and environmental outcomes though a number of issues still require resolution. Mighty River Power application has the potential to achieve similar outcomes with full community involvement.



Private Land Adjoining Kaimanawa Forest Park

HE public is reminded that there are large areas of private land in the central high country adjoining Kaimanawa and Kaweka Forest Parks. This land is leased to a number of private companies involved in air transport and wilderness tourism activities such as trout fishing and hunting.

There has been a long history of apparent unrestricted public use of much of this private land. Many people, mistakenly, believe some form of public right exists on these lands. We wish to make it very clear to all users of Kaimmawa and Kaweka Forest Patks that this is not the case. Prior permission must be obtained from the lessees of this land before you may legally access such areas. Failure to do so constitutes an offence against the Trespass Act, or, if firearms are involved, the Wild Attimal Control Act, Please respect the rights of the owners and lessees of this land.

For further information on land boundaries and adjacent owners or lessees please contact Department of Conservation Turangi /Laupo Area office staff in Turangi or Taupo

Taupo Fishery Expertise Helps Out in Fiordland

As part of resource consent renewals for the Manapourihydro scheme. Meridian Energy and Southland Fish and Game wish to know how the scheme affects the trout and salmon spawning migrations in the Waiu River. Four different species and varieties of trout and salmon run this niver there are two types of brown trout: those that spend their entire life in freshwater and those that, like salmon, spawn in freshwater but spend most of their life in the sea (searun brown trout). There are also river resident rainbow trout and recently chinook salmon.

Pushed by the urge ro spawn, these fish migrate up the Waiau River. It is no easy trip though. After having escaped the anglers they next face the Mararoa weir which diverts water from the Mararoa River into take Manapouri. This weir is equipped with a fish ladder to permit the fish to migrate feather upstnam. At the top of the fish ladder there is a lish tmp where the fish are processed in a similar way as in Taupo before being released upstream. However this is not the end of their problems Indeed, the flow upstream of the weir can change direction and it is possible the lish may get confised as to where to go to reach their spawning grounds (see Target Taupo issue 34). The overall success of the spawning may there fore be strongly influenced by how "user friendly" the tish ladder is and how the fish colse with the changes in direction.

These questions will be addressed by using radio-tracking technology Essentially this

involves catching the fish in the trapand fitting them with radio transminers. The fish are then transported back downstreant and tracked as they return back toward the Mararoa weir The pattern of movement in the vicinity of the fish lackder will provide information on how easy they find the entrance to the ladder. If they move in a consistent manner and don't spend much time immediately downstream of the ladder then the ladder is working effectively. However, if they spend a long period milling around below the weir it will mean that something is not quite right in the design or operation of the ladder.

The radio-tagged 6sh that find the ladder and get trapped again will be released upstream of the dam and tracket by foot and plane as they night to the spawning sites to see how they cope with the changes of flow direction when it occurs.

Initially the emphasis will be on scarun brown trout, which are the most prized species; Furthermore, the location of their sptwning grounds is not well known. Southland Fish and Game with the support of Meridian Energy will be earrying out the fieldwork but has asked for the assistance and expertise of Dr Michel Dedual from the laupo fishery in the early stages of the experiment, especially for the insertion of the tags and methods for tracking the lish. It is also a valuable experience for Michel working with species not found in Taupo and in a unique part of New Zealand We will keep you updated with the restuts of this interesting project.



Images of the Taupo Fishery

Moerangi - 'sleeping sky'

When thinking about boats, people and places that have a special association with the Taupo fishery it is hard to go past the 95 year old Logan launch. Moeningi, Fifteen years ago well known Taupo family, the Pointons bought the old boat and introduced her to Lake Taupo. Since then she has graced the lake for thousands of hours, principally in pursuit of trout.

Before we discuss her life on the lake it is worth having a quick look at the colourful and sometimes mysterious past of this most intriguing boat. She was built in Auckland in December 1906 for a Mr Len Harnett, who immediately shipped her to Whangarei where she began ferrying mail and passengers from Whangarci to the heads. During

this time the Moerangi

In 1975 the Pointon family brought her to laupo. Originally, she didlittle work until eoowner Steve Pointon took an interest in trout fishing After half a dozen fishing trips in a friends dingly, Steve decided it was time to get the Moerangi out on the lake and catching fish. He admits to suffering the usual frustrations of any beginner angler and is thankful that his skills and success have improved, a fact he simply puts down to time spent on the water Nowadays, the Moerarge spends many hours chasing trout and is a regular feature in the western bays. Monday is Steves day off, so like a lot of us he goes fishing He and a mate board the Moerangi in the Taupo Boat Harbour at 5:30 a.m every Monday and head for the western bays

where they fish until 10



became known as the "ghost"

Whangarci.

because of the way she moved silerally through the water, Soon after, a well known game fishing family; the Waldrons bought her and the Moerangi got her first real tasre of fishing. However it wasn't until the CoxSmith family acquired her in 1938 for 125 pounds that things really got interesting for the Mocrangi With the onset of the Second World War she was fitted with a machine gun and began pairolling the Whangarei coastline in search of mines lier war time duties extended to transporting stores to naval establishments up and down the coast, running to Sail Rock for bren gun faring practice and ferrying salvaged gold bullion from the sunken Niagara back to

mates that Moerangl

sees about 2000 fish landed every year. Again he hastens to add, "It wasn't always like this"

The higgest trout caught on the Morrangi is an impressive 121b (5.5kg) rainbow caught by Steve in 1999 from Whanganui Bay. You may have seen it displayed in his father's local measwear shop. While Steve cruised around the lake front chatting about the boat and fishing, he proudly recalled one of his best evening's fishing on the Moercing i, In spring 1999 he and a friend landed four fish weighing a total of 32lb, (14.5kg) all caught between Acacia and lerusalem Bay All in all an impressive fishing history considering the Moerangi has only been a recreational family fishing boat,

The Moerangi's classic

tines including pointed

stern make ber very

distinctive on Lake Taupo.

Stelse Pointon, the person behind the Moerangi With Steve's growing interest in fishing and the realisation that the Moerangi was a true classic, the family decided to give her a total relit. Over an 11month period professional Taupo boat builders Bernie and Joe Dale beautifully restored her to near original condition with the help of family and friends. The entire cabin top was removed and replaced with mallogany beams and maranti ply and new teak decks were added. Traditional finishing, including polished

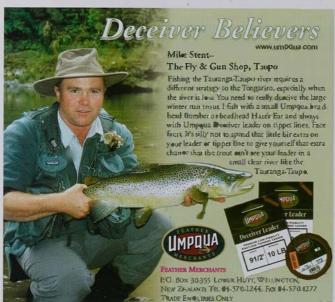
brass portholes and varnished interior deck beams, make the Moercingi a sight to belsold, inside and out The old 40hp BMC diesel was replaced with a 100hp 3BToyota Landeruiser motor, marinised by Yamaha. Steve was a bit worried that the increased horsepower would make trolling at slow speeds difficult. He installed a trolling valve that allows the engine to run at a constant 1 100 revs, but lets the clutch intentionally slip to give low revs at the drive shaft and propeller. This allows him to troll at virtually any speed down to one to two knots. A very handy feature on a 40ft boat used exclusively for trout fishing. The Moerangi recently featured in a Boating New Zealand article written by Mike Hunter,



Upon reading the article the son of the late Hughie Cox-Smith, who had skippered the Moerangl during the war, wrote to the Pointon family expressing his delight at seeing the old boat again. The letter contained some interesting stories and first hand history of the boat. One story in particular took our fancy, and is testament to the scaworthiness of the Doat Alan Cox-Smith writes, "I would like to relate a trip from Whangarci to the Bay of Islands. When we got to Cape Brett the southwester which had been about 20 knots increased to 50 plus and the tide turned and kicked up a big ugly breaking sea. They were coming down the deck and breaking on the wheelhouse. The dutghy was lashed down up

by the mast, broke free and disappeared in a welter of foam. The motor was wide open and we didn't make any headway for 5 hours until the wind dropped in the evening. We were a pretty tired crew when we fanally got into Russell."

With a cruising speed of 8-10 knots Steve's ritual Monday lishing trips to the western bays cost him around \$25 in diesel (plus a bit more for refreshments). A quality relit to a classic like the Moerangi doesn't come cheap but Steve is firmly of the opinion that if it's worth doing, it's worth doing well. An attitude that resonates around the entire boat. Next time you're on the lake, look out for the Mocrangi and give her wave. Hopefully she will he charming her way around lake Taupo for many more years to come.



Visitor Asset Management Programme (VAMP)

by Errol Cudby
Errol is Programme
Menager Visitor Assets
and is responsible for
visitor facilities including
tracks and signs, habitats
maintanence and the
day to day operation of
the Tongariro National
Trout Centre within the
Taupo Fisbery Area.

The Visitor Asset
Minagement Programme
ensures that the footbridges across the
Tongariro River are safe
to use.

The Visitor Asset Management Programme (WAMP) is a group of procedures followed by the Department of Conservation to ensure that visitor facilities are safe, appropriate and of ficiently managed.

Every hut, structure, track and sign that is provided and maintained for visitors to land managed by the Department is catalogued in detail on computer and then programmed for regular inspection by engineers and suitably qual-lifed DOC staff, depending on the assigned priority. The inspections are recorded and recommendations made regarding maintenance requirements and the urgency of remedial work or closure or removal.

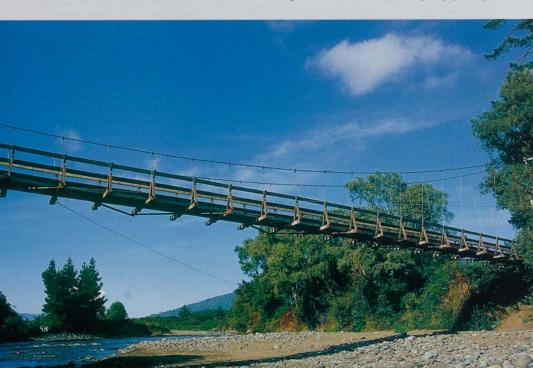
Area Managers in each conservancy are responsible for the assets in their area. A Conservancy Programme Supervisor keeps an overview of all of the assets in the Conservancy and laises with the VA.MP team running the national programme from Wellington.

The Taupo fishery area has fewer visitor assets than other areas in the Tongarito

Taupo Conservancy but even so there are 29 stractures ranging from boardwalks to the Major Jones and Red Hut swing bridges, three buildings, 105 signs, 27 tracks totalling nearly 40km, 17 car parks and six roads of nearly 10km.

Inspection data is recorded on a handhold computer containing pick lists of descriptive terms for each feature. Measurements can be added where required and the data logger is connected to a portable geographic positioning system (GPS) to provide map references of features and assets. The little "gismo" stores a surprising amount of data, which is downloaded into the notional computer system at the end of each trip. Engineers' drawings, sketches and photographs can be added where necessary.

A simple sign, for example indicating "auglers' access", will have its number, map references, type of message, materials, method fixed, dimensions, method set in ground, and maintenance recommendations recorded along with a photograph. Lagger



signs, tracks and structures have more detail depending on their classification – which depends in turn on location number of visitors using them, and the type of user.

Our angling tracks are classified as "back country adventurer" (BCA) or tramping tracks. The specified standards are less than for the Tongariro National Trout Centre walkways, which are classified "day visitor". Standards set for any class of track can be exceeded but not reduced. For example our angling tracks are cleared wider than the one metre specified for BCA tracks in recognition of the fact that anglers carry fishing rods. However the standards are maintained only while the majority of anglers use the track which is why the fishery tracks may become overgrown during summer.

The programme is excellent for tracking the management, usefulness and safety status of visitor assets over time but does not absolve us from checking tracks, bridges and buildings after storms, floods, gales, earthquakes and volcanic eruptions, and temporarily bypassing the system to make immediate repairs to protect an asset. Rest assured public safety is paramount - remember how the Maior Jones bridge was closed immediately after the 1998 floods took out two sway wires and then kept closed on engineers advice until these were repaired.

If you come across a DOC structure you feel is unsafe or wish to report some damage there is a free 0800 number that you should call to initiate appropriate action. The number is 0800 999 005.

Aquatic Weed Research

The Department of Conservation is currently investigating what existing and potential impacts aquatic weeds could have on the ecology of Lake Taupo and the trout lishery. With the recent discovery of Egeria densa (a type of oxygen weed widespread through the Waikato and Bay of Plenty lakes) in the Taupo harbour, the Department has contracted

NIWA scienists to undertake a survey of Lakes Taupo, Kuratau, Rotoaira and Otanangakau. This survey will identify what weeds are present and where and how they are impacting on the lakes ecology and fishery. Additionally NIWA will produce a threat assessment identifying which aquatic weeds present within New Zealand but no

yet found in Lake Taupo might bave the most serious impact on Lake Taupo. A detailed report on the survey and any implications for Lake Taupo will be presented in the next issue of Traget Tautpa



Tongariro Protection Works Underway

Work to brotect the true left bank of the Tongariro below the Hydro Pool has begun. The works, which are being undertaken for the Taupo District Council, are necessary to stabilise 250 metres of eroding river bank to protect a number of properties between Koura and Kutai Streets.

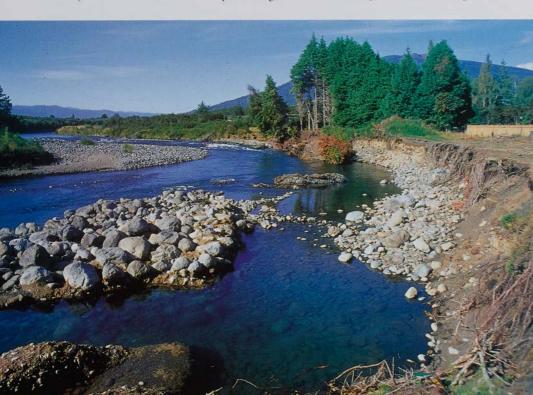
The works involve placing large rocks to form a sloping revenuent similar to that downstream of the State Highway One bridge. Filling will occur behind the revetment to reclaim some of the hank lost to crosion. In order to undertake the work, which has to be completed before the end of March so as not to impact on trout making their spawning migrations, it is necessary to divert the Tongariro River down the old flood channel below the Hydro Pool.

Initially it was proposed to excavate the food channel in a major way to capture the flow but the Department of Conservation expressed concern that major moxification of the tail of the Hydro Pool might threaten

its long term existence. As a consequence the mouth of the channel has only been lowered to the existing water height and a bund across rhe main river used to divert water down the flood channel. This has the effect of increasing the water height in the Hydro Pool during the period of the works At the completion of the project the hund will he removed so that the water returns to the normal channel under low flows.

It was also agreed to line the rip-rap with stones out of the diver to minimise the visual intrusion of the work. The Department is the manager of the marginal strip adjacent to the work and as part of our agreement to work occurring on the strip we asked that a proposed stop bank running adjacent to the revenment he built at the same time rather than later as initially planned. The work will require extensive disturbance to the site, which will be revegetated at the completion of the project and it seemed a pity to have to rear this up later on to build the stop bank.

Erosion downstream of the flydro Pool threat ened nearby houses



To underlobe the work a bund was used to divert the Tongariro River down the old flood channel below the Hydro Pool.



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Team Profile

MANDI GOFFIN

Mandi is the Taupo fishery learn's newest recruit, filling the position of Programme Manager Licensing and Community Relations following the retirement of Shirley Oates This postfrom involves administration of the fishing licence system secretaritly support, raising public awareness and publication production including Torget Tempo for the Taupo fishery area-During the 1960s. Mandi lived in vacious locations around the Central Plateau including Hauhangaroa in the Western Bays, Rangalaua, and Akugatepopo, where the family was involved in the timber industry. Oki bahits die hard and she hopes to resume her interest in outdoor activities pursued during this lime including Inmting, fishing and tramping.

Mandi has returned to Turangi from Jueldand, where she held various managedial positions mostly in the

health and fitness industry. A qualified fitness instructor and ex-body huilder she is also a personal trainer part time at the local gym.so watell out fishery term!

Her other interests (when time permits are interior) decorating, philosophy, reading, drawing and design and cooking spicy food. As a "people person" Mandi looks forward to the challenge that this position will provide, especially with regard to the development of the advocacy role of the Tongariro National Trout Centre.

STANLEY BOOY

Stanley has temporarily taken over Jon Palmer's position as Programme Manager-Service for the Taupo Fishery Area while Jon is away on secondment. Stanley's job igvolves planning and scheduling all the resources for the programmes and projects undertaken and providing finantial services and administrative support to the area.

Stanley originales from the Netherlands. There he studied landscape architecture and environmental muragement. After his studies Stanley realised a 10 year dream by immigrating to New Zeafand with his wife Karin. Stanley started with the Department in May



2000 as a volunteer. Among other things he developed a management plan for the Tokuanu Stream and designed the parking area for the historic what in Tokaanu. As an assistant for Greg Carlyon, the Conservancy Planner he was involved in various projects. From November 2000 until the end of Jamary 2001, Stanley worked on Tiritiri Matangi Island in the Hauraki Gulf as an assistant supervisor on a vaceding project. It was a wanderful experience to have worked on a sanctuary island close to many rare and ordangered plants and animal species."

Stanley is very eager to learn more and strives for good results, both in his job and in sports. With his team the Rainbow Runners he ichitised a remukable result in the Great Lake Relay 2001. Other activities Stanley enjoys are eyeling, running and playing squash. When not physically active, he loves to read about plants and mything that has to do with landsscaping.

Statley's English has improved markedly with coaching from DOC staff, even if it did take some time to indicastered what being someone's gopher meant, Still we had to hite our tongue when like Olympics were on least Stanley reminded us of the success heing enjayed by the Dutch feam.

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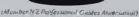
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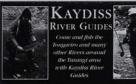


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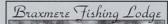
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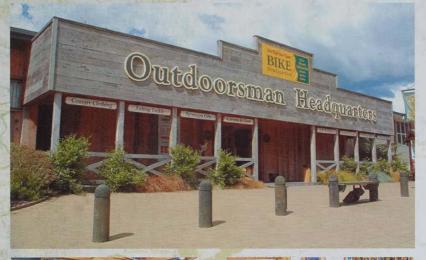
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