

20. Fisheries trust funds report (continued)

Recreational Fishing (Saltwater) Trust Fund expenditure

Project	Total available 2004-05* \$'000	Actual expenses 2004-05 \$'000	Carry forward \$'000
ACoRF meeting expenses	17	17	0
Artificial reef management	169	126	43
Communications management	143	143	0
Dusky flathead research	65	18	46
Expenditure Committee meeting expenses	30	37	-7
Fish aggregation devices (FADs)	128	130	-3
Fishcare Volunteer Program	607	536	71
Fisheries officers (coastal officers)	1 053	1 053	0
Fisheries officers (mobile squad)	355	317	38
Gamefish Tagging Program	183	177	6
Life history of black bream, luderick & age validation research	321	202	119
Marine recreational management	75	75	0
Marine recreational research	93	93	0
Maximising survival of line-caught fish research	238	143	96
Pilot Habitat Restoration Program (Clarence)	64	59	6
Recreational Fishing Fisheries Management Strategy	300	300	0
Recreational harvest of baitfish in NSW research	134	63	71
Recreational fishing havens survey - Lake Macquarie, Tuross Lake	71	71	0
Recreational fishing havens process	506	179	326
Small grants	99	39	60
Tournament monitoring (coastal)	150	148	2
Trust Executive Officer & Reminder Notice Program	280	284	-4
Subtotal	5 081	4 210	870
Direct payments:			
Angel rings (ANSA)	39	39	0
Capacity development for recreational committee representatives	14	14	0
Economic survey of recreational fishing in 2 coastal towns	22	22	0
Impact of restocked mullet fingerlings	40	40	0
Loan repayment – recreational fishing havens	2 000	2 000	0
Marine Discovery Centre, Bondi Beach	50	40	10
Mullet tagging in estuaries (identifying mullet sites)	11	11	0
Recreational fishing havens survey – northern NSW	121	60	60
Research to develop minimum size limits	51	51	0
Striped mullet economic survey	19	19	0
Study of landed fish at gamefishing tournaments	24	18	6
Validating existing fishing survey information	19	0	19
Video sampling of fish in recreational fishing havens	20	20	0
Subtotal	2 430	2 334	95
Total	7 511	6 544	965

* The total available 2004-05 consists of allocations from the trust fund in 2004-05 and amounts carried forward from 2003-04

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ACoRF meeting expenses

The Advisory Council on Recreational Fishing (ACoRF) provides high quality advice to the Minister for Primary Industries on matters relating to recreational fishing. The Council plays a key role in consultation over changes to recreational fishing and advises on the feasibility and acceptability of management initiatives. The Council is required to meet at least four times a year and also considers issues out of session. Expenses associated with Council meetings are funded by the Trust.

Artificial reef management

A three-year pilot program has commenced involving the deployment of artificial reefs in identified barren areas in three recreational fishing havens to enhance fishers' catch. Once the necessary approvals have been obtained, the reefs will be constructed using 'reef balls' which have been successfully used around the world to create extensive habitat for marine fish.

Communications management

The aim of the communications program is to inform and educate the community about responsible fishing using a wide range of communications tools such as media, publications, the web and events. The program involves the management of the information and advisory telephone and email service, coordinating the content of the website, designing, producing and distributing well over one million booklets, flyers, sticky rulers, and other print materials, and coordinating and supporting over 50 fishing events and field days across NSW.

Dusky flathead research

The Saltwater Trust is funding research to determine the reproductive cycle, size and age at maturity and the timing and location of spawning of dusky flathead in NSW. The research will inform possible management options to maintain sustainable harvesting including suitable size limits.

Expenditure Committee meeting expenses

The Recreational Fishing Saltwater Trust Expenditure Committee provides advice on priorities for expenditure from the Recreational Fishing (Saltwater) Trust. There are 13 anglers representing eight regions along the coast and coastal statewide groups with interests in recreational fishing. The Committee met four times during 2004-05 and was also requested to consider issues out of session. The Saltwater Trust Fund expenses associated with the committee meetings included sitting fees, travel expenses and accommodation.

Fish aggregating devices (FADs)

Fifteen fish aggregating devices or FADs have so far been successfully placed in easily accessible coastal waters to attract pelagic fish

such as mahi-mahi and even tunas and marlin. The FADs have been installed with the assistance of local recreational fishing clubs and provide an alternative to traditional fishing grounds while relieving fishing pressure on popular surrounding reefs. Fishers have been reporting great catches, especially over the summer months. Approval is being sought to deploy an additional five FADs.

Fishcare Volunteer Program

The successful Fishcare Volunteer Program is the flagship education initiative of the Recreational Fishing Trusts. The program started in 1999 and now involves over 310 coastal volunteers. Fishcare Volunteers are community members involved in face-to-face education of the recreational fishing community. Volunteers donate their time and effort promoting awareness and advising fishers about the rules and values of sustainable recreational fishing. Volunteers assist in a range of activities such as fishing workshops, catch surveys and community fishing events. As part of the program, the Saltwater Trust has provided funding for three eye-catching mobile education units which spread the message on responsible fishing at fishing events, community days, schools presentations and fishing clinics.

Fisheries officers (coastal)

The Saltwater Trust is funding nine coastal fisheries officers based in the Clarence, Hastings, Port Stephens, Hunter, Sydney north and south, Shoalhaven, Batemans Bay, and far south coast regions. These officers work closely with other NSW DPI officers to target high-risk offenders and known black spots. The increased presence of fisheries officers is widely appreciated by fishers, as it is an effective deterrent against illegal activity. The officers are also able to distribute advisory material and answer fisher enquiries.

Fisheries officers (mobile squad)

The Saltwater Trust is also funding a recreational mobile squad or 'flying squad' of three fisheries officers based at Brooklyn. The mobile squad carries out extensive day and night-time patrols throughout NSW to maximise compliance with fishing rules and to promote the Recreational Fishing Fee. Officers are equipped with the latest technology.

Gamefish Tagging Program

The program aims to provide valuable scientific information on the biology (distribution, movement, growth and exploitation) of billfish, tuna, sharks and sportfish. Running since 1973, the tagging program is the largest of its kind in the world and encourages gamefish anglers to participate in fisheries management and research. The program provides the only tag/recapture information on species such as black marlin, sailfish, albacore, dolphin fish and sharks. A small plastic tag has recently been introduced for small pelagic fish such as dolphinfish and kingfish.

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Life history and biology of black bream, luderick and age validation research

The Saltwater Trust is funding essential research on the biology and life history of blackbream and luderick, two key recreational species. Over 3000 samples have been collected, measured and dissected to determine length at age relationships, growth and reproductive biology. As part of the study, black bream and luderick have also been tagged in order to study their movement patterns. This study is providing essential information on the status and structure of NSW black bream and luderick populations that will ensure sustainable management of these key recreational species.

The age validation research aims to provide an ageing technique for key recreational fish species, including sweep, tarwhine, luderick, sand whiting, bream and dusky flathead. Information on age and growth is essential for stock assessments of fish populations. The study aims to answer questions such as How old is a fish at any given size? and At what age does a fish reach the minimum legal length?

Marine recreational management

Funds have been allocated to a range of marine recreational management activities. Such activities include providing information to angling groups, stocking groups and stakeholders; consulting and corresponding with fishing clubs and other key stakeholder groups; responding to angler inquiries; collating community submissions; and maintaining a database of over 1000 NSW-based recreational fishing clubs.

Marine recreational research

This program covers the employment cost for a technical officer to coordinate the recreational fishing havens – Lake Macquarie and Tuross Lake research program, which was recently completed.

Maximising the survival of line-caught fish program

Due to the increasing popularity of catch-and-release fishing, the Trust is funding research using recreational fishing events and aquarium experiments to estimate and maximise the survival of released line-caught fish. The project aims to test and develop changes to procedures and/or fishing gears to ensure sustainable recreational fishing practices. The study will identify detrimental hooking, handling and release procedures and establish strategies for enhancing the survival of large numbers of released caught fish.

Pilot Habitat Restoration Program (Clarence)

The Pilot Fish Habitat Restoration Program aimed to encourage community involvement in fish habitat rehabilitation projects within the Clarence River catchment. The 14 grant projects have generated a range of projects that have restored natural tidal flows, habitat and fish passage to over 500 hectares of floodplain and estuarine wetlands and generated almost \$500 000 in additional funding.

Recreational Fishing Fisheries Management Strategy

NSW DPI has prepared and distributed 75 000 discussion papers covering issues such as bag and size limits, fishing competitions, spearfishing and charter boats. This is the biggest-ever recreational fishing initiative in NSW. Some anglers are already involved in the project through the Advisory Council on Recreational Fishing and specially formed management planning committees. Community feedback will inform decisions on immediate and longer-term actions for a sustainable recreational fishery.

Recreational harvest of baitfish in NSW research

This research program aims to provide reliable estimates of the quantities of blue mackerel taken by the recreational sector to determine the total impacts of fishing and to make informed decisions about resource sharing amongst stakeholders.

Recreational fishing havens survey – Lake Macquarie and Tuross Lake

This project is designed to assess changes in the catch and effort of recreational fishers following the declaration of recreational fishing havens in Lake Macquarie and Tuross Lake. The study repeated previous creel surveys in 1999-2000. During the survey, 70 volunteers and staff collected data on 72 sample days at each estuary during the 12-month survey period. At Lake Macquarie 4200 shore anglers and 10 600 boat-fishers were surveyed at the various boat ramps while at Tuross Lake 4100 boat-based anglers were surveyed.

Recreational fishing havens process

Recreational fishers along the NSW coast are benefiting from the 30 recreational fishing havens preserved for recreational fishing. The commercial fishers who surrendered 251 fishing businesses, including 468 fishing boat licences and 1670 net registrations, received fair compensation. Their relocation and retraining costs were also covered.

Small grants

The Small Grants Program funds the little things that matter. Fishing clubs, councils, community groups and individuals have received grants up to \$5000 for programs to improve recreational fishing. Funding proposals are limited to \$5000 and should be matched by funds from the applicant or other sources. Programs funded to date include:

- 20 fish cleaning tables
- 3 fish measuring stations
- 1 outdoor display centre
- 1 weir removal
- 3 education pamphlets
- 5 research studies investigating bream, luderick, estuary perch, kingfish juvenile fish and gamefish.

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Tournament monitoring (coastal)

Fishers at fishing competitions across NSW are contributing to improved knowledge of the state of our fisheries. Researchers are collecting catch and effort data at selected events to monitor selected fish populations and the quality of recreational fishing locations across coastal NSW. The fisher-generated information assists fisheries managers to evaluate the success of strategies in place for recreational fishing. Competitors are asked to complete a fishing report form on which they record number of fish captures, fish measurements and the time spent fishing. This information is used to determine an angling catch rate (i.e. the number of fish caught for every hour spent fishing in the particular area) and the fish population structure in each fishery.

Trust Fund Executive Officer and Reminder Notice Program

The Trust is funding an Executive Officer to oversee and provide better service delivery to the Saltwater Expenditure Committee and to the Advisory Council on Recreational Fishing to ensure transparent reporting, communicate the work of the Committee to fishing clubs and the broader community, and provide a conduit for recreational fisher views into the Committee. The Executive Officer also oversees the implementation and delivery of trust-funded programs and monitors and reports on trust fund budgets and program progress. The Executive Officer coordinates the Reminder Notice Program, which incorporates advisory material to increase awareness of recreational fishing management, including details of where funds from the fishing fees go.

Direct payments

Angel rings

Funds are assisting the Australian National Sportfishing Association (NSW) to install angel rings or life buoys at popular rockfishing spots. Since inception of the program, over 65 assemblies have been installed and at least 20 lives have been saved. Contributing funds from the Recreational Fishing Fee will allow further installations.

Capacity development for recreational committee representatives

The Trust has funded a program to improve the skills of Recreational Fishing Committee members.

Economic survey of recreational fishing in two coastal towns

The report released in August 2005 and funded by the Saltwater Trust has shown that the recreational fishing sector is worth more than \$20 million each to Port Macquarie and Narooma/Bermagui every year. The study examined the daily spending and fishing habits of anglers, the number of fishing days each year for both locals and visitors, and fishing-related expenditure. The study has increased

our understanding of the importance of recreational fishing to local economies in rural coastal NSW and the link between tourism and the recreational fishing industry in a typical coastal town in NSW.

Impact of restocked mulloway fingerlings

Ongoing research is exploring the impact of stocking a highly prized sportfish, the mulloway. Since 2003 NSW DPI, in collaboration with the University of NSW, has stocked 140 000 mulloway fingerlings in Botany Bay and Smith's Lake. Researchers have investigated the growth and survival of the stocked fish and have examined the gut contents of recaptured stocked mulloway to determine what they eat. This information will be used to assess the impact of stocked fish on wild stock food sources such as other fish and prawns.

Loan repayment – recreational fishing havens

The recreational fishing havens established in 2002 were funded through a \$20 million loan from the NSW Treasury. The Treasury loan repayments schedule requires that repayments of \$2 million be paid in each financial year. Payments of \$1 million were made on 31 December 2004 and 30 June 2005.

Marine Discovery Centre, Bondi Beach

Funds from the Recreational Fishing Trust have been allocated to the enhancement of the Bondi Marine Discovery Centre, Bondi Beach for the education of Sydney school children on sustainable recreational fishing. The Centre is a non-profit organisation that offers marine and coastal education excursion programs to schools and communities in the Sydney region. Located within the Bondi Pavilion, there is an interactive aquarium, museum and educational arcade.

Mulloway tagging in estuaries (identifying mulloway sites)

The University of NSW is using ultrasonic tags to track mulloway, thereby collecting data on daily and seasonal movements. Mulloway have been caught in Botany Bay and tags surgically injected into the abdomen of the fish. The fish can then be tracked with a radio transmitter on a daily basis. The tracking information will provide estimates of the home range and preferred habitat of mulloway and also assist in determining the appropriate densities for any future stocking in NSW estuaries.

Recreational fishing havens survey – northern NSW

The Saltwater Trust is funding a study to determine the effectiveness of recreational fishing havens in improving recreational angling in northern NSW. Southern Cross University is undertaking sampling in three havens, the Tweed River, Richmond River and Camden Haven River. These river systems are different sizes, provide various habitat types and are not completely closed to commercial fishing. Data will be collected on species composition, abundance and the size structure of key recreational fish species within and adjacent to the havens. Surveys will also be used to gauge angler attitudes regarding

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the implementation and benefits of the havens.

Research to develop minimum size limits

The Saltwater Trust is funding research to develop a framework based on biological, social and economic information so that appropriate minimum legal lengths can be determined for species. Species to be studied include snapper, silver trevally, rubberlip morwong, yellowtail kingfish, mulloway, sweep, pearl perch and various reef associated wrasses and leatherjackets.

Striped marlin economic survey

The Saltwater Trust funded an economic survey of the striped marlin fishery. The report released in December 2004 assessed the comparative economic benefits of the use of the striped marlin resource by recreational and Commonwealth licensed commercial fishers.

Study of landed fish at game fishing tournaments

This program involves the organisation, coordination and reporting on biological research and sampling at gamefishing tournaments across NSW. Local and international scientists and NSW DPI staff

attend the tournaments to collect valuable biological data on otherwise difficult to access species so that the life cycles of gamefish and sharks can be studied.

Validating existing fishing survey information

The Saltwater Trust is funding a study to reconcile all current information on recreational fishing activity, catch and expenditure in NSW, including the NSW component of the National Recreational and Indigenous Fishing Survey. The study will identify areas where potential discrepancies may occur and propose further investigations in order to clarify the validity of using the surveys for management decisions.

Video sampling of fish in recreational fishing havens

The Saltwater Trust funded the purchase of video equipment to assist the Recreational Fishing Havens – Northern NSW Research Program.

Recreational Fishing (Freshwater) Trust Fund expenditure

Project	Total available 2004-05* \$'000	Actual expenses 2004-05 \$'000	Carry forward \$'000
Dollar-for-Dollar Native Fish Stocking Program	225	186	39
Eastern Cod Stocking Program	20	13	7
Effectiveness of stocking research	160	107	53
Enhanced fish production for stocking	303	294	9
Expenditure Committee meeting expenses	18	25	-7
Fishcare Volunteer Program	268	194	74
Fisheries officers (inland)	625	528	97
Freshwater recreational management	160	149	12
Fish habitat restoration grants	184	160	25
Impoundments Access Program	23	9	14
Inland advisory trailer	27	27	0
Recreational Fishing Fisheries Management Strategy	122	122	0
Regional fish habitat managers (2)	274	272	2
Small Grants Program	40	23	17
Statewide angler survey	13	13	0
Tournament monitoring research (inland)	150	167	-17
Total	2 612	2 289	325

* The total available 2004-05 consists of allocations from the trust fund in 2004-05 and amounts carried forward from 2003-04

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Dollar-for-Dollar Native Fish Stocking Program

The Dollar-for-Dollar Native Fish Stocking Program has been a great success with many stocking organisations involved. Fishing clubs, council and community groups are matched dollar-for-dollar by the Freshwater Trust in raising money to buy native fish (Murray cod, golden perch and Australian bass) from private hatcheries to stock public waterways. During 2004-05, 534 478 golden perch, 247 766 Murray cod and 100 100 bass were stocked.

Eastern Cod Stocking Program

This conservation stocking program is part of the Eastern Cod Recovery Plan. Funding supports essential research into genetic factors to ensure effective stocking practices.

Effectiveness of stocking research

This program provides estimates of mortality and survival rates of stocked fish, the contribution of stockings, and percentage returns to the angler. The project utilises several marking techniques on trout and native fish species. Several impoundments and rivers have been stocked with marked fish including rainbow trout, Murray cod, golden perch and Australian bass.

Enhanced fish production for stocking

Freshwater Trust funds are being used to enhance the capacity of government hatcheries at the Narrandera Fisheries Centre, Gaden Trout Hatchery (Jindabyne), Dutton Trout Hatchery (Ebor) and Port Stephens Fisheries Centre to produce high priority recreational species including trout, salmon, Australian bass, Murray cod, golden perch and silver perch. During 2004-05, over seven million fish were released from government hatcheries. This included a record 543 000 Murray cod fingerlings. The program also funds fisheries technician positions at Narrandera, Jindabyne and Port Stephens hatcheries. Operational funds provide support for additional production costs, including feeding, stocking costs, overtime and temporary assistance at hatcheries during peak periods.

Expenditure Committee meeting expenses

The Recreational Fishing Freshwater Trust Expenditure Committee reviews new funding proposals from the Recreational Fishing Freshwater Trust and the progress of existing programs funded by the Trusts. Members also provide input on expenditure priorities from their region or organisation. There are eight positions on the committee: three representatives from east of the dividing range, three representatives from the highland and western slopes, and two far west representatives. The Freshwater Trust funds meeting expenses including travel to and from meetings, sitting fees, catering and accommodation expenses.

Fishcare Volunteer Program

Under the freshwater component of the Fishcare Volunteer Program, the saltwater and freshwater trusts jointly fund a state coordinator's position and the freshwater trust funds an education officer's position in Bathurst. The state coordinator sets the overall direction, policy and procedures for the program, guides the work of the education officers and coordinate statewide education programs. The education officer is responsible for the training and support of Fishcare Volunteers in inland NSW and also provides support to other community programs, such as fishing workshops and school visits. The education officer manages the more than 110 active volunteers in the Armidale, Bathurst, Orange, Cowra, Albury, Mudgee, Tamworth and Wagga Wagga regions.

Fisheries officers (inland)

Freshwater Trust funds make it possible to have six extra inland fisheries officers out and about on the water. These officers are located at Inverell, Bathurst, Wellington, Cooma/Jindabyne, Albury and Dareton. They work closely with other NSW DPI officers to target high-risk offenders and known black spots. The increased presence of fisheries officers is widely appreciated by fishers, as it is an effective deterrent against illegal activity. The officers also distribute advisory material and answer fisher enquiries.

Freshwater recreational management

Funding is provided to employ an inland recreational fisheries manager based at Tamworth. The manager is chiefly responsible for activities associated with the coordination of the community and government fish stocking programs, the small grants program and the Freshwater Trust Expenditure Committee. The manager plays a key role in community liaison, correspondence with fishing clubs and other key stakeholder groups, the advisory signage program and in the updating of freshwater fishing publications.

Fish habitat restoration grants

The Freshwater Habitat Restoration Program matches funding to enhance native fish stocks by restoring and protecting their environment. Fishing clubs, local councils, landholders and Landcare groups carried out projects in 2004-05 which have resulted in the rehabilitation of more than 80 hectares of floodplain and wetland habitat and 30 kilometres of riverbank by removing obstacles to fish movement and introducing large, woody debris to create habitat for native fish.

Impoundments Access Program

The program involved the development of a guidebook to assist and encourage anglers to visit 93 quality fisheries established as a result of stocking recreational fish species. The guidebook provides

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information on local facilities, the dimensions of each waterbody, accommodation, stocking history, other fish present and boating information. This guide is available at www.dpi.nsw.gov.au

Inland advisory trailer

Funding has been provided for a mobile education unit. The unit will be similar to the successful coastal education units and will spread the message of responsible fishing at fishing events, community days, schools presentations and fishing clinics.

Recreational Fishing Fisheries Management Strategy

This program is outlined on page 126.

Regional fish habitat managers

Two inland conservation managers are responsible for a variety of activities including weir review, fishway installation, management of the Fish Habitat Restoration Program, management of habitat rehabilitation projects, impact assessment, extension and education, recovery planning for threatened species and coordinating the implementation of the Murray-Darling Basin Native Fish Strategy.

Recreational Fishing (Freshwater and Saltwater) Trust Fund expenditure

The following programs are funded on a one-third/two-thirds basis by the respective trust funds.

Project	Total available 2004-05* \$'000	Actual expenses 2004-05 \$'000	Carry forward \$'000
Fishing guides	140	143	-3
Fishing workshops	88	74	14
Fishing promotion	64	66	-2
Recreational fishing fee administration	808	860	-52
Recreational fishing fee research	80	80	0
Total	1 180	1 223	-43

*The total available 2004-05 consists of allocations from the trust fund in 2004-05 and amounts carried forward from 2003-04

Fishing guides

The fishing licence fee funds production of the saltwater and freshwater recreational fishing guides. Each year the guides are updated to ensure the most current information is being provided to recreational fishers. Last year 200 000 copies of the saltwater guide and 100 000 copies of the freshwater guide were distributed free of charge from fisheries offices, Fishcare Volunteers, at community events and most fishing tackle shops, caravan parks, local shops, service stations and Kmart stores where the fishing fee can be paid.

Fishing workshops

Money from the recreational fishing licence fee funds fishing workshops. NSW DPI participated in over 25 coastal and 12 inland workshops, teaching responsible fishing practices to children and

Small grants

The small grants program is designed to provide seed funding for community groups and other organisations for projects designed to enhance freshwater recreational fishing opportunities.

Tournament monitoring research (inland)

Angling catch and effort data is being collected at almost 50 freshwater tournaments each year. Anglers are issued with a fishing report kit, which enables them to record the length of fish caught and the time spent fishing. This allows for the calculation of a catch rate (number of fish caught per angling hour or angling trip), which can be compared from year to year and between different waterways. The information collected is assisting fisheries managers to evaluate the success of strategies in place to benefit recreational fishing.

their families and promoting fishing to disabled people and those from other cultures.

Fishing promotion

The expenditure committee actively supported a wide range of communication initiatives designed to educate the community about the requirement for a NSW recreational fishing licence and responsible fishing practices. The project involved distribution of information about the fishing licence, exemptions, the purpose of the licence and sustainable fishing practices.

Recreational fishing fee administration

Administration of the NSW Recreational Fishing Fee system ensures the efficient servicing of enquiries from licence sales agents and licensed recreational fishers. The fees cover running costs associated

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with maintaining the licence sales network, licence printing, postage, financial management and audit requirements, data management and payment of the five per cent agent commission to standard agents.

Recreational fishing fee research

NSW DPI maintains a database of the recreational fishers who pay the fishing licence fee. Information on the number and distribution of

recreational fishers is important for the management of recreational fishing and the conservation of fish stocks. The database has been used for various research projects, including expenditure surveys to show the importance of recreational fishing and the National Recreational and Indigenous Fishing Survey.

21. Marine parks

Expenditure incurred on marine parks during 2004-05 is shown in the following table:

(a) General (recurrent expenditure)	Budget \$	Actual \$
Solitary Islands	457 506	468 650
Jervis Bay	116 312	118 265
Cape Byron	467 553	471 649
Manning Bioregion	406 303	399 226
Corporate Projects	119 576	108 927
	1 567 250	1 566 717

(b) Buyouts	Budget \$	Actual \$
Cape Byron Administration	0	0
	219 000	110 773
	219 000	110 773