

Newspaws

For, of and by Department of Environment, Conservation and Tourism staff

June 1988

Welcome to all readers

All staff of the Department of Environment, Conservation and Tourism are receiving a copy of this edition of Newspaws.

Since 1983, Newspaws has been the quarterly staff newspaper of the Queensland National Parks and Wildlife Service.

It has provided communications between field, regions and head office.

Its role now is to provide a broader communication between the department's divisions.

Old readers now welcome the new

who once worked for Premier's Department, Health, Lands and Local Government whose interests cover environmental planning, air pollution, water quality and noise abatement.

Editorial policy is to include a variety of information of interest to staff, preferably written by staff rather than generated by necessity.

Contributions for future editions should be directed to Don Marshall, information and media section (07) 227 4857.

Deadline for the September edition is 15 August.

Five faces in the top seats



Mr Wilcox

Mr Smith

Mr Bonney

Mr Arnott

Dr Cleary

Corporate Services is up and running

May 5 will go down as a most important date in the history of the Department of Environment, Conservation and Tourism.

On this day, Executive Council approved the appointments of the executive managers for the department's three streams of operations.

Appointed were: Mr Rod Arnott, Director, Division of Corporate Services, Dr G.J. Cleary, Director, Division of Environment, and Mr Herb Bonney, Director, Division of Conservation.

They joined the Department Under Secretary, Mr Stan Wilcox, and Deputy Under Secretary, Mr Pat Smith, in overseeing the practical incorporation of the new department combining elements from five departments.

As explained to staff directly affected at the time, the establishment of a corporate services division providing support services to the whole department was seen as having the highest priority.

The structure approved provided for three branches — administrative services, organizational services, and financial services.

Wendy Bullock, as assistant

director (Administrative Services), is heading the Administrative Services Branch.

This covers administration support, records and communication, public counter services, information and media, and regional services.

Paul Blake, as assistant director (Organizational Services), is heading the Organizational Services Branch.

This covers marketing and commercial operations, management and personnel services, computer services, property management, and technical services.

An assistant director (Financial Services) to be appointed will head the Financial Services Branch responsible for accounts, wages and salaries, and advice regarding financial directions.

This organization structure has resulted in the abolition of at least eight positions while new positions have been created and a number of supernumeraries made permanent. Several vacancies have been advertised.

Discussions on the structures of the Divisions of Environment and Conservation are continuing, and these are likely to be made known to all staff affected in July.

A number of other changes from internal and external sources will have impacts on the department's operations in the next year.

Scott Johnson (assistant director, Planning and Review) (07) 227 4015 will discuss your concerns.

The lack of a single building to house the department has been an unresolved problem.

The purchase by the Queensland Government this month of the SEQEB building, 82 Ann Street, Brisbane, has led to rumours this could be a suitable, central location for the department.

In the meantime, watch for a new telephone list which should help solve communication problems between sections and buildings.

Performance on line 1 July

The performance appraisal scheme developed by our Management Services staff to replace the in-service examinations has been approved.

The scheme starts officially on 1 July.

The urgency to have the scheme in place arose because promotional examinations were scheduled for October this year.

The July implementation allows a six-month appraisal in lieu of an examination.

Copies of details of the scheme have been sent to all Q.NPWS rangers and Regional Superintendents.

Other officers interested in knowing how the scheme operates should contact regional administration officers who should have office copies.

Leave records for wages and salaried staff are now on a computer data base.

This change has resulted in a number of improvements:

- Quicker turnaround of leave approvals;
- Advanced notice of impending maximum leave accruals (even

though most staff formerly in this category have now been committed to Wolston Park!);

- Increased accuracy in recording of information; and
- Quicker telephone advice on leave balances.

A feasibility study will now be undertaken into whether the system can be regionalized in future.

All staff would have received the initial 2 per cent pay increase as part of the 4 per cent available under the second tier arrangements.

Negotiations continue over the awarding of the remaining two per cent.

Lester Harth

An era passed almost unnoticed in May when the last of the cash pays was issued.

It's now all EFT — electronic funds transfer — with your bank. Best check with the bank to make sure the system is working and you are not going bankrupt very quickly!

Questions answered

Brisbane Forest Park officers are to be congratulated for their initiative in producing Eucalyptus Forest Guide.

This is an easy-to-read book outlining more than 60 common trees, shrubs, vines, and ferns found in the open forest.

It's designed to answer every bushwalker's favourite identification questions but its 72 pages also contains a clever mix of scientific and anecdotal information.

The book costs \$14.95 at BFP headquarters, 60 Mt Nebo Road, The Gap, 4061, plus \$3 if you want a copy posted.



Solid boom, gaff and rigging of the Golden Hawk is true 19th century style, a far cry from the aluminium, stainless and synthetics carried by modern racing yachts.

Two 'proper ships'

Marine Parks rangers on patrol check many vessels, most of which are modern, sleek cruisers and yachts of recent vintage.

A spinoff from the Tall Ships re-enactment in Sydney saw several 'old ladies' gracing Barrier Reef waters.

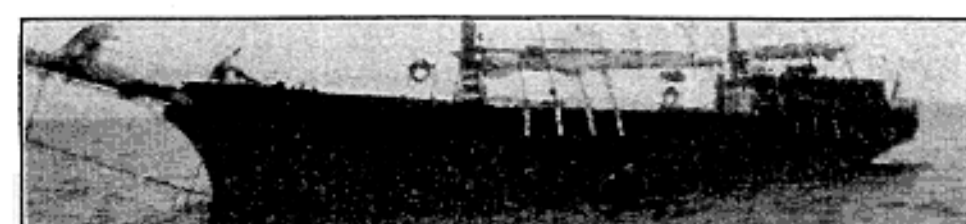
The Golden Hawk and Judith Ann II were two such craft.

Crew members of the Golden

Hawk extended a warm welcome to Peter Slaughter and Mike Cahill on an Easter patrol.

Hospitality included a hot cuppa, swapping of yarns, and offers to 'run up the rigging'.

The Aussie skipper and first mate as well as the Balinese crew expressed delight with the abundance of marine life in our park compared with the home waters of Bali.



The 35m Golden Hawk, built of timber in 1880, at anchor in Great Barrier Reef waters.



Beware the phantom!

Beware the phantom office snapper! These new super automatic flashy cameras are so good they record everything!

Here are the results of just one brief foray into the 5th floor, MLC Centre, recently, ostensibly to use up a roll of film over from a weekend.

Of course, the dreaded phantom can catch you working, or rather

peering intensively into the square-eyed monster as shown above.

Or he/she can catch you just doing nothing (lunch hour of course), or, dread of dreads, even eating hamburgers and drinking horehound when supposedly on a diet!

Put down this dreaded monster or your life may never be the same after your exposure in Newspaws.



On 24 May, the department introduced a new computer-aided records system.

The system operates using a Sperry PC-IT with CARMS (computer-aided records management system) software and intermec bar coding.

Incoming mail including memos from the Regions is received and keypoints such as sender, subject and file number to which the correspondence will be attached is entered on the data base.

If a file is not in existence, one is created and bar coded.

Barcode finds that file

Existing tenure files will be bar coded soon.

Each department section has one or more desks with bar codes attached.

By daily recording the bar-coded desk and the files on that desk, records section can advise where a file was when

the last bar code recording was made.

The system offers great benefits to users by pinpointing correspondence and files to a particular section or desk.

For any details about this new records system, please call (07) 227 5788.

Special thanks to all staff who have made this system operational.

Jim McKittrick

(Since this was written, Supreme Court staff have examined the system with a view to its adoption on the other side of George Street.)

Principles set for Management area

The Management and Personnel Services Section is the first in the department to have its principles and operations approved.

The details are presented here for they affect every member of the staff in some way no matter how far he or she may be from the department's main office.

The section's aim is to provide management and personnel services to the department.

Its primary objective is to provide essential personnel services and to undertake projects necessary to maintain this service.

Its next objective is to undertake approved client-centred projects, to be prioritised with the criteria of potential savings, current thrusts and directions, and available staff and resource skills.

Categories of work to be undertaken by the section are quite broad. They include:

- client-centred projects;
- internal section projects such as development and revision of policy, and review and

development of new and existing section systems;

- 'mini' projects;
- day-to-day processing;
- liaison and consultation with such bodies as the Queensland Agricultural College and CONCOM (conference of conservation ministers); and
- training (development of the training program, conducting training programs, co-ordinating workshops, and arranging consulting services for training programs.)

The section's operating principles make for interesting reading for all other section heads who are or who soon will be faced with setting down principles for their work areas.

For client-centred projects, projects may be proposed by the section or the client, require executive approval, are subject to time frames depending on resources with clients expected to provide help, are to be prioritised with other projects,

require client endorsement, and require outcome reports.

Internally-generated projects need the Division director's approval with a project plan submitted every six months, and outcome reports prepared.

Activities are to be given a high, medium or low priority. Any request by a client for an activity will be replied to within five days indicating a priority rating.

Day-to-day processing calls for batching including the advertising of positions and appointments, acknowledging or replying to all correspondence within five working days, and to provide accurate, relevant information to clients.

How successful the section is in meeting these principles will be watched with keen interest in the department, particularly in the next year.



Interleaves



The value of interpretation in the Service was acknowledged when interpretive staff were left in the Conservation Services Division of our new department.

The future is uncertain but a higher profile is likely now that charges are being introduced for guided tours and similar visitor services.

Welcome to Tim Moore, now regional interpreter for Moreton sub-region. Tim's verbal communication skills and enthusiasm for environmental education are well known and an inspiration for everyone.

Farewell to Marc Hockings who has devoted a decade of his working career to Service interpretation.

Marc's achievements include the Cardwell Information Centre and Wonderland office displays, numerous brochures and signs, and a new approach to interpretive planning.

The end of financial year rush has seen the finalization of many

brochures likely to be printed in the next couple of months — Heading Bush, Atherton Tableland park guide, The Park Next Door, Geoffrey Bay reef walking and Platypus — to name a few.

Recent training courses include the communication skills workshop for Southern and Central staff, reef interpretation courses in Far Northern, Heron Island interpretation training, Binna Burra Information Centre volunteer training, and St Helena tour guide accreditation courses.

The St Helena interpretive plan is almost finished. A public contact plan for Fraser Island is proposed. Public contact plans for the two northern regions are under way.

Binna Burra and Bunya Mountains displays were completed in time for Easter. Noosa office display is next.

Best wishes to all staff involved in holiday programs over June.

Pamela Harmon-Price

Psssssst . . .

Please, please, Mr Wilcox. Anything but that! Our Under Secretary, in welcoming staff to the State Law Building, said that a variety of morning teas had been staged in the past and such events were likely to continue.

The most notable had been on St Patrick's Day when the food served was green pikelets!

★ ★ ★

Winning was the name of the game played by North Region marine parks staff at a day-to-day management workshop at Magnetic Island in May

Fortunately, no one was arrested though searching for clues on a reef flat and in a hotel pool, building bridges across a Picnic Bay creek, and eating half-cooked damper attracted much local amazement.

★ ★ ★

Service botanist Carolyn Sandercoe found two new terrestrial orchid species at Cooloola National Park, one *Habenaria* species and the other an *Eulophia*. Fresh flowering material is now being sought to send to David Jones of the Australian National Botanical Gardens who is keen to describe these species.

Far Northern Region's intrepid outdoorsman Mick Godwin and Miriam Goosem, wife of research botanist Steve, may be looked at in future as the saviours of the Lizard Island lizards.

After an official Service visit to Lizard last November when 10 cane toads were taken, Mick used his head, some rec. leave, and some WPSQ volunteers to tackle a potentially disastrous problem.

A tape recording of mating calls recorded in Centenary Lakes replayed on Lizard induced toads from burrows and stimulated counter calling. A further four toads were caught.

While further monitoring is essential, the action of Mick and others appears 100 per cent successful.

★ ★ ★

From prison farm to seminary, Tim Moore certainly is a fallen angel following the ranger workshop at the Banyo Seminary early this month.

There's a revolution brewing with downgrading of nature conservation and increased pressure on ranger staff. The workshop was a good opportunity to review the role of rangers in the Service.

Heron Island resort visitors recently had a great opportunity to see a range of reef films made between 1949 and 1977.

They were used by Marine Parks rangers to lead group discussions on man's impact on the GBR. Lively debate ensued.

★ ★ ★

Dana Kelly (Central Region) due back shortly after holidays spent skiing the Rocky Mountains, visiting heaps of US national parks and museums, and dropping in on England.

★ ★ ★

Q.NPWS staff will soon have an all-weather 11m aluminium launch to help manage national park and related reserves around Moreton Bay.

Chuck Wilder says construction of the sturdy craft to be powered by twin diesels is well under way and commissioning is likely in July.

★ ★ ★

Peter Cavendish has worked so hard over the last two years upgrading the Service's state-wide radio network.

Now at last it can be monitored on a link from Moggill, Peter finds himself responsible for Ministerial letter communication.

Communication easy

It's better to communicate than to stay silent. Information and media advice is only a phone call away.

The department's information and media section is happy to provide advice about media issues and publications.

Section manager Trevor Vollbon (227 4856) supported by information and publicity officer Don Marshall (227 4857), Damian McGreevy

(227 5455), and Tina Dalton (227 5458) can provide assistance with publications, displays, promotional events, film and TV productions, commercial sponsorships, and media releases.

Direct enquiries are welcome. Often media issues require urgent action. Initial contact with the section can decide who else should be involved in resolving your communication problem.

Estate work contract

The Service and the Central Queensland Aboriginal Corporation for Cultural Activities have negotiated a contract under which four Aboriginals will work on the Service estate throughout the Central Highlands for 15 months.

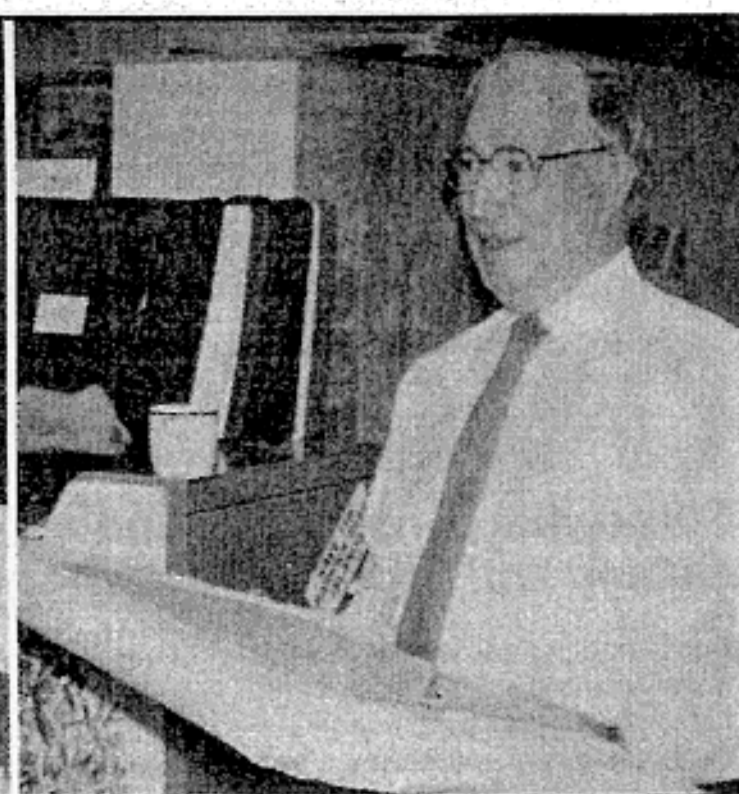
Areas where they will work are Blackdown Tableland, Taunton, Carnarvon Gorge, and Mt Moffatt.

This project is being funded by the Australian National Parks and Wildlife Service under the Aboriginal Employment Development policy.

Similar schemes are being implemented in other states. The four, who began work in late April, will be engaged in most aspects of mainland estate management including public contact and communications, infrastructure construction and maintenance, site protection at Aboriginal art sites, operation and maintenance of plant and equipment, weed and feral animal control, flora and fauna surveys, and fire management.

Terry Vowles

Popular staff retire to enjoy greener fields



There's been a spate of retirements of popular staff from the Service recently. We're sure it's all because of a Mr Keating in Canberra threatening superannuation changes rather than the prospect of switched job positions in the new department in the case of most retirees.

Daphne Long took the benefits of her many years' experience in several fields when she left the records section just before the big shift to the State Law Building.

Ken Green is probably making a mint on the real estate market now he's left the Service. We will miss his wealth of experience in land matters and land legislation in Queensland which were to the Service's great benefit in recent years.

As chief land assessment officer, Ken's

realistic valuations guided Service negotiations for acquisitions and saved the taxpayer many thousands of dollars.

For many years, electricity was Neal Mee's field of work for the Queensland Government.

In recent years, he brought us his sparkling smile and wit as FOO (Field Operations Officer for those who don't know) and as acquisitions officer.

While the picture above proves he's ready for the golf course, a new fishing rig will see him wetting a line in his retirement.

Don Seton (pictured left) retired as Toowoomba regional superintendent after working in many fields of Service activity.

A property out Bell way is certain to keep Don busy.

A late report says the retirement of the Service Director's secretary Ruth Marshall is imminent.

Other staff changes since the last issue include:

Commencements: Patricia Bird, Erika Bunga, and Chris Johnson in Rockhampton, Donna Coggins, Karen Goeldner and P. Young in Brisbane, Jeffrey Miller and Rosemary James are at Pallarenda, Tim Stevens (Moggill), and Kim McClymont (Airlie Beach).

Transfers: Barry Raymond (Brisbane) to Education; Elizabeth Nunn (Brisbane) to Premier's.

Resignations: Leah Dol, Leanne Anderson, Christina Boarman, John James, and Yve Reynolds.

First catch a wallaby . . .

In this bicentennial year, we are busy looking at our history. For many early settlers, native animals formed an important part of the meat diet.

The following is a recipe of the time for wallaby. For those with a permit to take, it's worth a try.

Ingredients: 1 wallaby, veal forcemeat (mince), milk, butter. Large roasting dish and container to soak in to remove blood.

Method: In winter, you may hang the animal for some days (like a hare). (I doubt this will appeal to many!) In summer, roast immediately after slaughter. Cut off hind legs at first joint and head, skin and clean. (They call it paunching. A more correct term is eviscerate.) Soak in water for a short period to draw out the blood. Wash the inside of the wallaby well.

Stuff with veal mince and sew it up. Truss as a hare. Roast for 1 1/4 to 2 hours. (They say before a bright, clear fire. My guess is about 250deg.C.) This will vary with size. Be careful it does not become too dry. (You might start it in a slow (190deg.C.) oven and then turn up the oven as the meat seals.)

Baste well and periodically, first with milk, then with butter. When done, dredge with flour and baste again with butter until the froth appears.

Serves about six (or more).

Frances Hrdina

Parthenium now in parks

A serious parthenium weed infestation has been threatening the grazing industry in the Central Highlands for many years.

Now its presence is felt on some of our national parks and other public land in the area.

Parthenium weed has a strong preference for cleared or disturbed land.

It is becoming increasingly common along firebreaks, access roads, waterways, and wildlife tracks in some national parks including Mazeppa and Epping Forest.

Parthenium weed's ability to spread quickly has resulted in Service employees implementing a chemical spraying program.

Field officers from the Rural Lands Protection Board have given valuable assistance and technical advice, and have made available on loan a fully-equipped, vehicle-mounted spray unit.

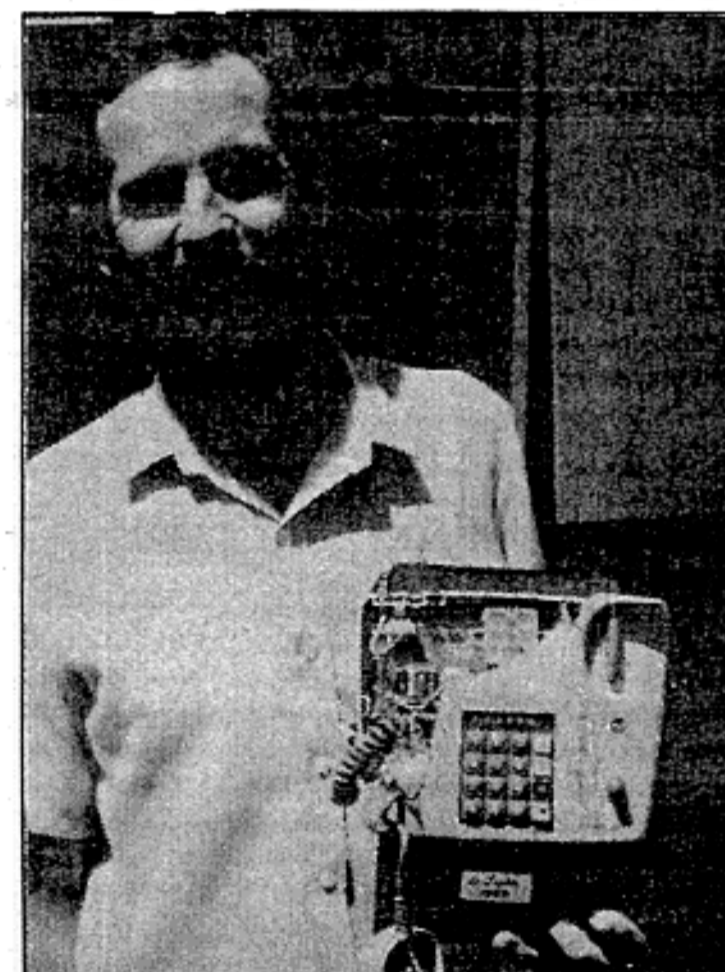
Initial control results have been very promising.

The program will need to continue for quite a few years as parthenium weed seeds remain viable in the soil for two to three years.

As a precaution to prevent spread of this weed into other national parks, Service vehicles must be thoroughly cleaned with a high pressure cleaning unit after they have travelled through a parthenium weed infestation.

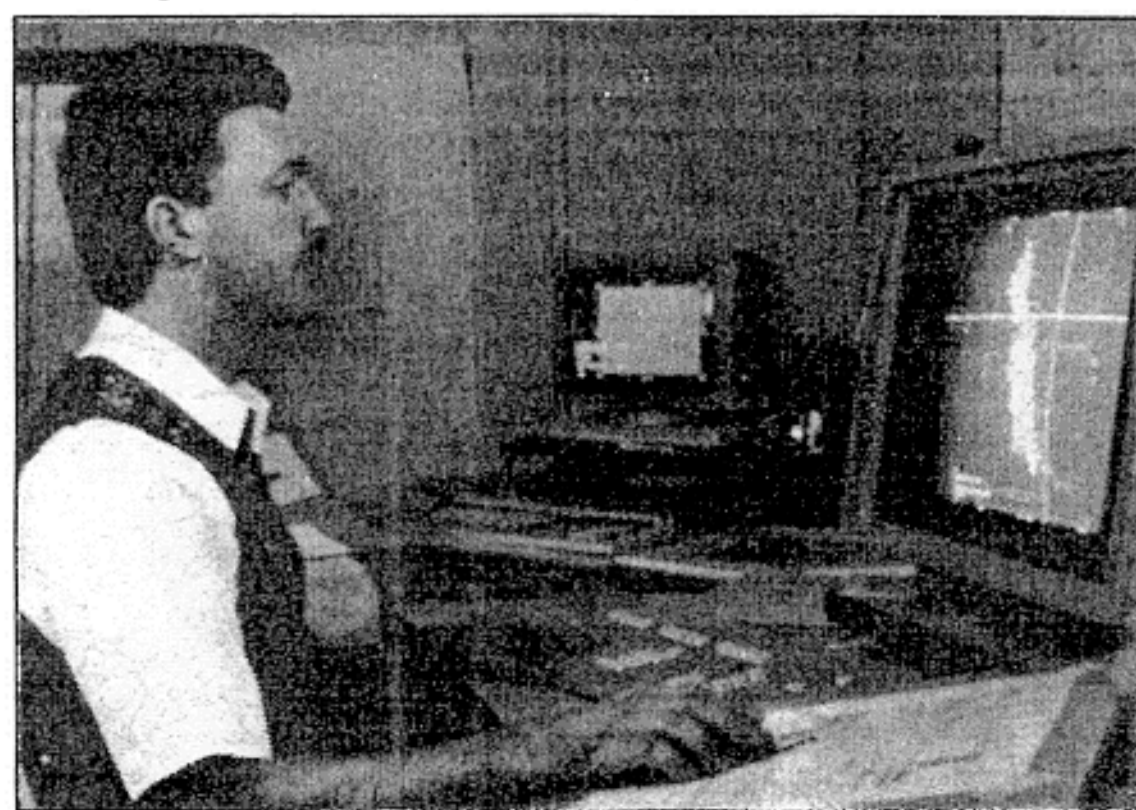
Dave Osten
Emerald

Don't call Laurie



Behind that wry grin of Laurie Taplin lies a story of Laurie, Peter Bayliss, and what was one of those super Commander telephones at Pallarenda. The evidence is now mounted for all to see joining other celebrated tropics on the tea room at Pallarenda. Ask Laurie about it. You can't call him!

A CAD comes to the aid of NORMA



The picture of Alan Rolandsen in full colour introduces readers to a new Northern Rainforest Management Agency brochure.

The brochure — Our Forests — managed by professionals — was produced to explain the Rainforest Geographic Information System and its use in optimizing rainforest conservation programs.

Alan is shown working on a rainforest analysis map using the Service's computer aided drafting equipment.

Use of such computers is basic to the GIS.

Alan and other Technical Services staff are becoming more proficient at using the very technical CAD equipment and adapting it to our every-day needs.

But Alan won't be worried about its complexities for a while. He and his family are off to Britain for a holiday.

From Mrs Saunders

Thank you for the kind letter you sent me enclosed with the \$195 for a charity. I know Graham would want the money given to cancer research, and I feel it is appropriate.

The flowers received from the Service, both at home and at the church, were very beautiful.

I am sending the money to the Queensland Cancer Fund today. Please convey my deep appreciation to Head Office staff for their generosity.

Graham's work was so much more than a job to him. He was completely dedicated to the National Parks and Wildlife Service and I rejoice that in that position he had so many true friends both inside and outside the Service.

Because of this I am fortunate to have met and known many wonderful people.

Yours sincerely,
Esme Saunders

Queensland Institute of Technology journalism student Sally Dillon was given an assignment to write a feature article for a trade or house publication. She took up a suggestion to examine aspects of the duck season which opened in parts of Queensland on 28 May. Department staff helped her in her project. This is her article, edited only to length.

Doubts about duck season

Somewhere in Queensland a duck hunter has stood by a lonely swamp and fired the first shot of the season.

Duck shooting has begun in two fauna districts but the drama and razzamatazz that accompanies opening days in southern states were conspicuous by their absence.

Queensland National Parks and Wildlife Service wildlife rangers luckily do not have to contend with backlogs of permit applications and crowds of protesters.

Maybe it's presumed shooters are aware of this. But it seems if the Service does not tell shooters what they are supposed to do, no-one else is going to.

This is despite the claims of rangers like Guy Thomas, who recently moved from Townsville to Moggill. 'We endeavour to advertise duck seasons and the requirements for permits through gun shops and gun clubs,' he

not see where their fees were going.

For the \$15 permit fee, a shooter could buy another box of cartridges. At the moment the fees seem to disappear into consolidated revenue.

While that in the end comes back to the Service, hunters can't see the direct link. Shooters need to be told that paying their fees ensure there will be ducks to shoot next season.

The reason for submitting returns also needs to be emphasised. Mr Galbraith said this would help overcome a perception among shooters that returns are an invasion of privacy.

To improve the response in both

Thomas said this factor was one reason the return rate in central Queensland was so high. 'Rangers tend to have greater contact with shooters up there.'

He said in Brisbane this obviously does not happen. 'When you've got a larger population base you're not able to have that personal contact.'

If the system is to work better, shooters need to be given more information when they go to get their licences, and more information must be disseminated through avenues such as gun clubs and shooting magazines.

John Galbraith said clubs would welcome speakers from the service. 'If there was some sort of attempt by National Parks to get their message across then I'm pretty sure we'd support them,' he said.

'We'd love them to come to our

resources were already stretched.

He said many rangers spent a large proportion of their spare time working for the Service at the moment, and couldn't afford extra meetings with gun clubs and other shooting organisations.

An alternative could be an information kit given as a resource base. More use could be made of club newsletters and articles could be submitted to shooting magazines.

Or the system could be remodelled. A wildlife conservation standing fund could receive funds and use them for wildlife conservation, research and shooter education. Suitable areas could be bought and reserved solely for wild duck breeding.

Guy Thomas supported the idea, but pointed out that the small number of duck shooters in Queensland could be restrictive. But Paul Blake argued: 'You'd end up with more money being paid in. People would probably be more willing to pay their licence fee.' He said the system had proven to be cost-effective in America.

John Galbraith said if shooters knew their fees were benefitting them such a system would get 100 per cent support. Obviously they wanted to protect their sport. He agreed most shooters would pay even up to \$30 a permit if they could see results.

Application for Open Season Fauna Permit Personal use

Fauna Conservation Act 1974-84 (Section 30(2))
Fauna Conservation Regulations 1985 (Regulation 9)

For duck shooting in Queensland is a low key sport; this year few people would realise it had started.

While this may save the Service some difficulties, it also creates some major management problems.

Community awareness of the duck season is so limited many hunters do not know or understand the regulations of their sport.

The extent of this problem can be seen by looking at returns from hunters last year. The return rate of 50 per cent looks healthy but a 96 per cent return for the Central region concealed much poorer results in the other three regions, as low as 19 per cent.

If the Service wants results, shooters must be convinced their co-operation ensures a successful future for their pastime. But this does not happen before hunters get their licences, when they are given them, or after they receive them.

said. 'A fair amount of people in gun clubs would be aware of the requirements for permits and that sort of thing.'

Discussions with gun shop proprietors quickly made it clear they do not tell duck shooters about permits. All knew customers who did not bother to get duck shooting licences.

A Kingaroy shooter said he was a gun club member but had never heard of a duck shooting permit.

He did not know any duck shooting friends with permits.

The Australian Sporting Shooters Association Queensland branch president John Galbraith said: 'To the best of my knowledge, the clubs don't tell shooters they have to have permits to shoot ducks.'

So a large number of shooters do not understand the need to buy permits or submit returns. Mr Galbraith said a main cause of the low response rate from shooters was that shooters could

Duck Shooters Return

- Complete return using block letters
- Forward return to nearest District Wildlife Ranger within 14 days after the close of the season

areas, there needs to be better communication between shooters and the Service. If this is going to happen, wildlife rangers must first establish a positive working relationship with shooters.

Though the two groups are not in conflict in Queensland, Mr Galbraith said the Service 'hasn't got the shooters on side.' The basis of the problem was that rangers did not go out of their way to make themselves known to shooters.

He said most shooters saw the Service as a law enforcer rather than a department that contributed towards conservation.

Increasing the personal contact with shooters is one solution. Guy

branch meetings. We'd publicise the thing for them if they want, and they could say well this is how we're going to spend the dollar. Not only that, it would

Wildlife information

Ducks Results of the 1987 open season

make everyone that little bit more responsible,' he said.

The Department of Environment, Conservation and Tourism Assistant Director of Organizational Services, Paul Blake, said the Service's

Man had created ideal environments for ducks where they bred profusely. With more money to ensure the species' conservation, there would be better arguments to support the continuation of the sport.

Manual answers your walking track questions

Buy a copy for your library from the Department of Lands, Parks and Wildlife, PO Box 210, Sandy Bay, Tasmania, 7005, for \$25.

A top-notch Australian walking track management manual is now available.

Produced by the Tasmanian Department of Lands, Parks and Wildlife and the Australian

National Parks and Wildlife Service, this manual provides a useful, practical and informative guide to the construction, restoration and maintenance of walking tracks.

While being produced mainly to cope with soil and climatic conditions of Tasmania, it is applicable to most conditions experienced in Queensland.

The manual presents a wealth of basic information on construction technique, planning, drainage, and surfacing materials.

The only area where the manual is lacking is in that of the aesthetics of track location. While a track may be expertly engineered, it will not be successful unless it provides the users with a pleasing contact with the environment.

Being written for Tasmanian high rainfall conditions, the manual provides much useful information about constructing a durable pavement in boggy conditions. Solutions include using gravel bases, geotextiles, corduroy, woodchips, and lime stabilisation.

These have application to us in Queensland.

There is considerable discussion on construction of boardwalks and raised plank walkways. Handy hints on building rock retaining walls are given.

Importantly, the manual considers walking tracks as a total management problem. Walking tracks

must be constructed to fulfil an overall park management need.

They have to be well located and built using sound engineering principles. They must be maintained. All this has to be done within a realistic budget.

Copies of the manual are available through the department library. Additional copies will be available in regional offices.

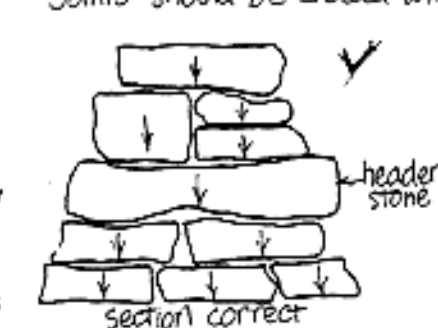
The manual is a reference must for anyone building or maintaining walking tracks.

Trevor Vollbon



section correct

Joints should be crossed with other stones.



section correct

Use gravity to help stabilise the wall.



section incorrect



section incorrect

