

Winter issue

Quarterly newspaper of the Queensland National Parks and Wildlife Service

June 1984

## Service task spread

The ability of the Queensland National Parks and Wildlife Service to meet its responsibilities state-wide is being enhanced.

New major Service centres have been opened at Moreton Island and Charleville, new offices are opening at Gladstone and Taroom, and work is to start on facilities at Lawn Hill Gorge, north of Mt Isa.

The National Parks Minister, Mr McKechnie, opened the Moreton Bay Ranger Base between Cowan and Tangalooma on the island's west coast on 9 May.

The base — two houses, an extensive workshop, fuel store, generator shed and pump shed — cost \$300,000.

Five staff plus two island residents are working from the base.

Mr McKechnie said the base was a tangible example of the State Government's long-term promise to make most of Moreton Island national park.

Some Moreton Island mining leases had been relinquished after complex negotiations recently:

He hoped that by the end of the year at least 90 percent of the island would be gazetted national park.

The Primary Industries Minister, Mr Turner, opened the Service's South West District Office at Charleville on 1 June.

The \$470,000 centre comprises a modern office block, ranger's residence, workshop, chiller, cages and animal pens. A zoologist and an assistant, and a wildlife ranger and an assistant are working from the centre.

Mr Turner told 80 guests one of the officers' major functions would be supervision of kangaroo culling.

The Service Director, Dr Graham Saunders, said the nearest national parks were a long way from Charleville.

An extensive study of mulga lands was in progress to find those areas of greatest diversity for flora and habitat.

He asked guests to think now that when their grandchildren asked in the future what the mulga lands were like, there would be an area of national park not far from Charleville to show them exactly what mulga was.

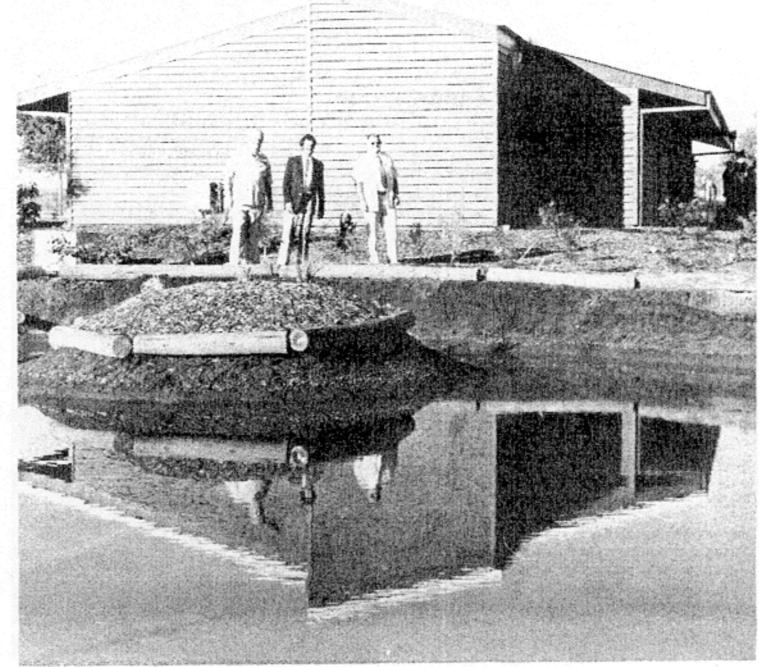
A start is imminent on facilities to prepare for a visitor influx to the proposed Lawn Hill Gorge National Park in north-west Queensland.

Mr McKechnie recently approved initial payments from a \$250,000 Budget allocation to go to the Burke Shire Council as constructing authority.

From last month, a Service officer is available at the Taroom Shire Council offices on Friday mornings to discuss area park matters.

Approval has been given for a Service office to open in Gladstone to give better service to boating people visiting the Capricornia section of the Great Barrier Reef Marine Park.

### Pause to reflect



Principals of builders
T. T. Constructions Pty
Ltd pausing to consider the work they put
into this landscaping
pool near the main
building of the
Charleville complex.

They were among 80 guests at the opening ceremony.

The pool level is maintained by rainwater run-off.

Two residences forming part of the Moreton Bay Ranger Base (below) opened recently by the National Parks Minister, Mr McKechnie.

Moreton Island staff work out of the office in the house in the foreground only 200 metres from the western beach.

# Warnings on fauna

Severe penalties will be sought for anyone caught trapping native birds.

This assurance has been given by the Queensland National Parks and Wildlife Service Director, Dr Graham Saunders.

Several warnings about fauna have been made recently.

Dr Saunders' warning followed reports to the Service of trapping of scaly-breasted lorikeets in the Hervey Bay area.

He said not only were native birds protected but the Hervey Bay area was a fauna sanctuary.

The Fauna Conservation Act provided for penalties of from \$100 to \$1000 for taking fauna in a sanctuary.

A person found guilty could forfeit traps and a vehicle and faced penalties of double prescribed royalties for each animal or bird taken.

The National Parks Minister, Mr McKechnie, said no leniency would be shown to people using protected fauna like possums to 'blood' greyhounds.

He said using de-clawed possums was seen by the community as one of the sickest acts of cruelty. Necessary laws existed for police and wildlife rangers to prosecute unscrupulous people seeking any way to use wildlife to make an illegal quick dollar.

Under the Fauna Conservation Act, most native fauna is totally protected.

The keeping, buying, selling and moving of protected fauna requires permits.

Gazetted aviary birds, mostly exotics like canaries but also coloured mutated types of native budgerigars, may be kept, bought, sold and moved within the State without restriction.

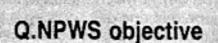
As general policy, the keeping of kangaroos, wallabies and other native mammals as household pets is not permitted.

Injured fauna may be kept without a permit provided a wildlife ranger is notified immediately the animal or bird comes into a person's possession.

A permit to keep costs \$12 a year and may be obtained from the nearest Q.NPWS wildlife office.



To foster harmony between man and his environment, thereby facilitating the well-being of man, and safeguarding the integrity of nature.



# Watch out for whales

After more than 30 years, a natural phenomenon of the Queensland coast is undergoing a resurgence.

In the next few weeks, the giants of the animal kingdom may be seen from prominent points along the coastline.

These include Point Danger, Point Lookout, Cape Moreton and Double Island Point.

Almost certainly, the object to be seen is the humpback whale (Megaptera novaeangliae), for years hunted almost to the point of extinction.

In recent years, scientists and other observers along the coast have accumulated sufficient data to indicate numbers are now reaching levels where the population is 'safe'.

The humpback, along with several other species of whale, has an annual migration which takes it up the coast to warmer waters of the Great Barrier Reef to calve.

Here they are recorded by Q.NPWS staff on surveillance flights over the Great Barrier Reef Marine Park Capricornia zone.

In September-October, the whales return to the south in a more haphazard and leisurely fashion.

At Cape Moreton, a small but dedicated group will be continuing to monitor this migration in much the same way as did the whalers from Tangalooma in the 1950s.

They will be attempting to record accurately the species and numbers, and in some cases, the individual animals according to body markings.

Life for them is not easy. They live in tents and are on the job in all hours of daylight in all weathers for the month or more that the task demands.

The eye cast to sea needs not only to be observant but to be trained as often passing whales give little evidence of their movement.

Occasionally the ardent whale watcher is rewarded when a north-bound group of whales stops to cavort. Then they may dally a while about the surface and produce the spectacular leaps and tail fluke 'waving' that have made the whale such a fascinating creature.

For such moments the whale watcher lives.

That commercial whaling reduced whate numbers severely is unquestioned. The drop in numbers caused the industry to fail.

Today, there can be a new commercial industry centred on the whale.

In some parts of the world like California and New Mexico, tourists venture to see such migrations.

In Queensland, a similar challenge and opportunity exists.

The spectacle of a mature whale surfacing to blow at close hand can be unforgettable.

The creature's sheer size, gracefulness, and even its encrusting barnacles at close quarters is one of the wonders of the sea.

Normally, a humpback whale will breach three to four times in a breathing cycle.

On the first, water will be expelled from the blow hole as the whale exhales. In subsequent breaches, air will be taken in.

On the final breach, the whale will dive deep exposing its huge tail flukes in an almost symbolic wave to the fascinated onlooker.

The sequence is repeated after a few minutes, or as long as 28 minutes.

Trained whale watchers pride themselves on predicting when and where the next breach will occur.

The way in which numbers are increasing gives hope that one day soon even the untrained tourist visitor may be able to see these giants of the deep in their migration.

### Parks swept by storm





Bridge above Natural Arch damaged in the strong winds which swept Numinbah Valley in the same storm.

Wind-swept western beach of Moreton Island photographed by district ranger Vic Bushing shortly after the peak of a near-cyclonic blow on 8, 9 and 10 April. Service rangers were praised for their help to boat owners whose craft were swept ashore or sunk. Vic and Cec Hais rescued Mr and Mrs Vic Gamble from their trimaran Tropic Bird.



Sappers from the Army's Land Warfare Centre, Canungra, used chainsaws and slashers to assist Service staff clear fallen trees from the national parks on Tamborine Mountain after the storm.

Hundreds of trees were brought down on Springbrook, Natural Arch, Lamington, Tamborine and Scenic Rim national parks blocking popular walking tracks.

A major effort was raised to clear most tracks in time for the busy Easter period which followed. The Army answered a request for help at Tamborine where trees and fallen limbs made many picnic areas unuseable.

Several teams of sappers came fully equipped and put in many hours of work.

Other staff worked over the intervening weekend.

Some damage to tracks was more extensive and work had to be put off until after the following holiday periods.

### By the tail...

Brisbane Forest Park is offering a wide range of workshops, camps, day and night activities and lectures in its Go Bush — Winter program.

An introduction to the park's vegetation and spotlighting of possums are two involving national parks within the

Full details are in the BFP newspaper Bush Telegraph.

Phone enquiries to 30 4855, the BFP headquarters at Mt Nebo Road, The Gap, on the left just past Enoggera Reservoir.

Natureglides are offering a range of natural wilderness experiences, many in our national parks.

Weekend trips include Girraween, Lamington, Cooloola and Noosa. Holiday trips include Carnarvon, Blackdown Tableland, Great Sandy and the Whitsundays and several parks in north Queensland.

Phone (07) 370 7428 or (071) 48 7699 for details.

Telephone users in five Queensland regional districts have some distinctive covers on their new phone books. The Service provided a selection of flora, fauna and landscape pictures.

A framed series was presented to the Service recently by the Brisbane manager of Telecom's directories branch Mr Ron Warnock. Travellers to Cape York Peninsula should double check their routes before they leave.

Some roads marked on popular maps are privately owned and the owners are taking steps to make sure others stay out. .

The Townsville City Council has honoured the Service and the Townsville Town Common Natural History Association for contributions to the council's 'Entertainment in Parks' program.

The Service conducted guided walks at Mt Elliot and Magnetic Island. The NHA arranged guided tours of the Common each first Sunday of the month.

Pleased to record that the relatively new Rochedale State High School is prospering under its House scheme named after national parks — Lamington, Girraween, Manorina and Cooloola. Excursions to the parks are planned.

Have you wondered why so many national park features seem to have a fixation on 'blue' — Blue Pool (Lamington). Blue Lake (Stradbroke Island) and Blue Lagoon (Moreton Island)? In winter, that's your colour when you come out of them.

Keep watching the State Affair current affairs show. Coming up are items involving Service studies on turtles and on coral trout.

Changes within the Service continue. The map in this issue marks the subregional boundaries in south-east Queensland. This should help readers direct their inquiries to the respective office.

Many journalists and camera crews will be out to collect several prizes of \$5000 offered for presentations of the Whitsundays area.

How many will mention that more than 90 percent of the Whitsundays is national park?

If speleology and archaeology are your things, then Probe scientific expeditions this year are for you.

Safari company Austrek and the Burke Shire have created Probe as a scientific support unit for volunteers to take part in research on Lawn Hill between Mt Isa and Burketown in Queensland's

The 15-day cave exploration trip sets out on 8 September, and the archaeological trip on 29 September.

Enquire now at Austrek's Brisbane agent Adventure World Pty Ltd, 26 Wharf Street, Brisbane (07) 31 1277.

### Heath areas home to many wildflowers

# Promise of spectacle

The showy mass of golden wattle, the white flowering stalk of a grass tree, and diverse patterns of pinks, mauves, golds and whites can transform the usual tones of our vegetation into a great spectacle.

Wildflowers hold great appeal to many more people than would usually be interested in the land-scape, and add an extra delight to those who wish to know an area through all its changes.

The common names given to some wildflowers — poorman's gold, queen of the bush, and wedding bush — indicate some of the feeling associated with wildflowers, as do the many artworks inspired by them.

Although floral displays occur throughout Australia in most vegetation types — flowering trees, wattles, orchids in the rainforests, the rare blooming of the desert following rain and the summer flowering of the alpine herbfields all being spectacular — the heath areas provide the most regular and easily accessible wildflower displays.

The features of heathlands, being made up of shrubs and smaller growth forms and having a large number of species per unit area, allow for a large number of visible plants.

Heaths occur on areas of soil low in nitrogen and phosphorus and sometimes other plant nutrients, and are unable to support taller growth.

These soils may be derived from low nutrient parent materials — sandstone, granites and sands — or heavily leached soils, or soils where waterlogging limits the availability of nutrients.

divide to form a very effective and massive root system capable of absorbing high amounts of nutrients.

Leptospermums, baeckeas, melaleucas and eucalyptus all in

As these conditions can occur either as extensive areas or isolated outcrops, so do heaths sometimes

cover large areas, as in the case of the coastal lowlands. Or they may be restricted to mountain tops like Mt Maroon, Glasshouse Mountains or outcrops of sandstone areas in the Great Dividing Range such as Carnarvon, Blackdown Tableland, Robinson Gorge and others.

Sandy areas within brigalow like Alton National Park, or mulga areas also allow for heath vegetation among other vegetation types.

Heath can also occur as an understory in forest where nutrients are too low to support the more usual grasses and herbs.

The low nutrient status of the soil not only affects the structure of the vegetation but also the species which occur.

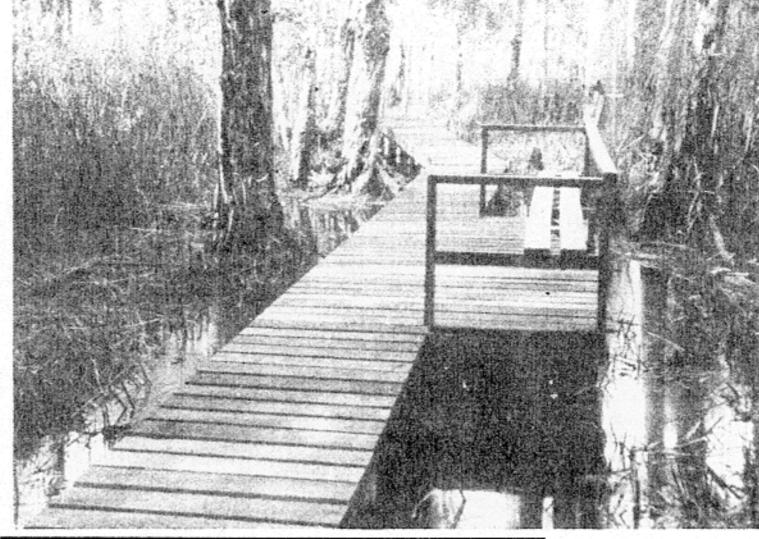
The golds and yellows which predominate are the main colors of the fabaceae or pea-flowers and the mimosaceae or wattles.

Many of these plants have nitrogen fixing nodules associated with their roots.

The banksias, grevilleas and hakeas

— all part of the familiar wildflower
scene — are members of the family
proteaceae and possess root
systems which are able to finely
divide to form a very effective and
massive root system capable of absorbing high amounts of nutrients.

Leptospermums, baeckeas, melaleucas and eucalyptus all in the family myrtaceae, and also the families epacridaceae — the heaths — and rutaceae — boronias and wax-flowers — have mycorrhizal



(fungal) associations in their roots to allow more efficient uptake of the scarce nutrients.

The plants also need to be able to cope with fire for this vegetation type is quite flammable.

The plants regenerate at different rates so that what species are present in an area is affected by the time since fire, which in turn means that flowering is influenced by how long since the area was burnt.

Fire also seems to stimulate flowering in some plants and the Christmas bell displays, ground orchids, the flowering spikes of grass trees and the lomatia flower are all associated with the years following burning.

Time of year also greatly affects what will be flowering in an area.

Some species will carry a few flowers most of the year and have one or two peaks in flowering.

Others such as the wattle and peas have a flush of flowering in late winter and spring. In the coastal lands, it is this flush of acacias and peas which provide much of the spring flush. The timing of the peak seems to be determined by the temperature with a mild winter allowing earlier flowering.

Picking of flowers cannot be tolerated. In some areas harvesting of Christmas bells has led to their disappearance. Collection of blossoms reduces reproductive capacity, and also detracts from the spectacle for other viewers.

Heath plants do not transfer well and also heavy fines are imposed on those who interfere with the vegetation.

Some places where wildflowers are most likely to be seen are: Coastal heaths - Pine Ridge EP, Moreton Island, Cooloola and Noosa National Parks, Woodgate, the Sunshine Coast and Fraser Island. Heath granite — Girraween National Park. Heath sandstone — Helidon area. Mallee heath - Binna Burra (Daves Creek circuit), Mt Maroon NP. Sandstone ridges along the Great Dividing Range such as Mt Moffatt section of Carnarvon NP, Blackdown Tableland, Isla Gorge NP, Robinson Gorge, and Barakula State Forest, north of Chinchilla.

Jenny Curnow,
 Service botanist

Section of the new boardwalk in Woodgate National Park which will give access to wildflower areas not far from Woodgate township.

The 200m long 1m wide boardwalk, through a melaleuca swamp, took four men 23 days to build.

The boardwalk provides alternative access to the 6km banksia walking track in the park.

Elderly people now will be able to take advantage of a much shorter 2km walking track and boardwalk circuit.

The observation platform with seating is ideal for boardwalkers wanting to stop to watch birds or to appreciate the swamp environment.

Picnic at the boardwalk entrance.

### Guide to parks, camping

An up-to-date listing of the attractions and facilities of the most popular national parks and environmental parks is summarised on the following pages.

Features of many of the parks are outlined, the locations of the major parks are shown on the map, and details given about facilities and the offices concerned.

Addresses and telephone numbers are given on the back page.

These pages incorporate a guide to camping in the national park system.

A written permit to camp is required for camping on any national park in Queensland.

A site booking system operates to ensure the visitor a site is available before he travels to his destination.

An application for a site should reach the booking office listed not earlier than 12 weeks or less than six weeks before the proposed date of arrival.

The application in writing should include the group leader's name, address and vehicle registration number, the number in the party, the date of expected arrival and proposed duration of stay, the number and type

of camping structures and-or vehicles, the proposed camping area, whether the group is from a club or organisation and if so, which one, and whether an alternate date or area in the park would be acceptable.

You must include a self-addressed envelope for the notification of whether a campsite is available.

This will be sent at least four weeks before the visit.

Late applications for sites in writing, by telephone or in person will be considered only if a site is available within the camping area.

Visitors should be aware that the more popular national park camping areas like Freshwater and Double Island Point, Green Mountains, Bunya Mountains, Girraween and Carnarvon Gorge are often fully booked at peak holiday times.

Whether you book ahead or make a late application, you require a camping permit from the ranger on the park.

Where the park is unstaffed, your permit will be forwarded to you with your site notification.

If you change your plans or find you have double booked, please notify the booking office to allow reallocation of the site. There is no fee for site booking or a camping permit.

If you reach a camping ground in the late afternoon or at night when no ranger is on duty, set up your camp in a vacant space.

Your booked space can be determined next day. If you have not booked a site, and all have been taken, be prepared to move on perhaps to another park.

Service rangers are praised often for their ingenuity in making arrangements satisfactory to all visitors.

Please appreciate that some national parks, because of their size, location use or environmental importance, are not available for camping.

In some areas, road access for vehicles is provided and facilities developed.

In others, the park has been left undeveloped to provide a more primitive camping experience.

Backpack camping is prohibited within 2km of developed camping grounds, graded tracks and roads.

Park rangers have details of other conditions of the privilege to camp designed to protect the natural environment.

## Plea to farmers

Co-operation between farmers and Q.NPWS Service officers could minimise problems about land drainage in north Queensland.

This is the view of the National Parks Minister, Mr McKechnie.

He said land was being drained illegally on to some coastal national parks in the Cairns area and further south.

'In some situations, the existence of national parks is causing legitimate drainage problems for farmers. The reverse can also apply. Some national parks gazetted to preserve unique swamp habitats in the wet tropics are in jeopardy because of activities by adjacent farmers.'

Mr McKechnie said he had asked Service officers to look at how legitimate requests concerning drainage could be met where there were no alternatives.

At the same time, the security of important remaining swamp habitats was to be increased.

Boundaries of parks between Cairns and Tully would be examined from the air. Any new drains on to national park land would be removed.

He appealed to farmers who felt they had a significant drainage problem created by a national park not to take their own action, but to contact Service regional directors in Cairns or Townsville.

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### Guide to national parks

### Maiala (1140ha)

This popular park on the D'Aguilar Range 42km north-west of Brisbane is managed as part of the 25,000ha Brisbane Forest Park. The park is ideal for day visits and picnicking, and offers scenic views of the coastal plain and walks through a variety of forest communities. Manorina (with overnight camping), Jolly's Lookout and Boombana are other national parks along the Mt Nebo Mt Glorious road.

### Mt Tempe'st (Moreton Is) (9360ha)

Mt Tempest (285m), reputed to be the highest coastal sand dune in the world, crowns this large island composed almost entirely of sand. Park areas now cover 58 percent of the island and include wind-blown sand, heath, swamp and forests. A management centre and campgrounds with facilities are being developed. Access is via vehicular ferries, for off-road vehicles, a fast passenger ferry or light aircraft.

### Blue Lake (501ha)

This lake is a water table window in a sand dune about 10km east of Dunwich accessible by fourwheel drive vehicle only from the main coast road followed by a short walk. Eucalpyt woodland surrounds the lake which is popular for day visits. Access via vehicular ferries from Redland Bay and Cleveland.

### Tamborine Mountain

On and around this distinctive plateau 70km south of Brisbane are a series of relatively small national and environmental parks preserving some of the mountain's natural features of forest and waterfalls. All are popular with day visitors and most have facilities. Cedar Creek (230ha), Joalah (36ha). The Knoll (Henderson's Knob) (85ha), Witches Falls (131ha), Palm Grove (117ha), McDonald Park (12ha) and Macrozamia Grove (Franklin Park) (7ha) all have their own interesting features.

### Burleigh Head (24ha)

This complex of vegetation types including rainforest, open eucalypt forest, tussock grassland and pandanus is a landmark area in the sweep of the highly urbanised Gold Coast. Walking tracks lead to lookouts and pleasant places of retreat.

A series of four parks help comprise a green mountain backdrop to the Gold Coast. Warrie (599ha) offers extensive walks past waterfalls and through forests to lookouts. Gwongorella (534ha) has tall eucalypts with rainforest gullies. Wunburra (140ha) is an area of wet eucalypt forest. Mt Cougal (788ha) is an undeveloped area for adventure bushwalking and spectacular views along the border.

### Natural Arch (212ha)

This interesting natural formation caused by cascading waters is set in an area of dense rainforest high in the Numinbah Valley. The park is popular for day visits but only the night time visitor sees glow-worms in the cave under the

### Lamington (20 200ha)

Rainforest, eucalypt forest and heathland. magnificent views and series of waterfalls are features of this major park some 100km south of Brisbane. Extensive walking tracks and picnic facilities are provided in areas but others are reached only on bushwalking excursions. Access is via Binna Burra in the north-east. Green Mountains — O'Reilly's in the north-west, and several roads and tracks in the west and south.

### Mt French (63ha)

This 468m peak near Boonah has a road to the top to picnic areas, walking tracks and lookouts. Several rock faces are used to learn and test climbing techniques.

### Mt Barney (11400ha)

This landmark double peak (1360m) with nearby Mt Lindesay (1191m) and Mt Maroon (965m) are undeveloped areas of eucalypts and rainforest among a variety of natural features exciting bushwalkers and climbers. Reach the area via Rathdowney, 100km south of Brisbane.

### Cunningham's Gap

Part of the 10,500ha Main Range National Park with Mt Mitchell and Mt Cordeaux forming the sides of the gap through which runs the busy Cunningham Highway. Walking tracks pass through eucalypt forest and rainforest and there are several picnic areas and lookouts. Popular for day visits from Brisbane. Ipswich and Warwick with overnight camping.

### Girraween (11400ha)

Massive granite tors and outcrops tower over a diverse and often dense vegetation of eucalypts. flowering shrubs and herbs in this park 30km south of Stanthorpe. Camping facilities allow for long days walking to see birds and wildflowers in season, and swimming in creeks and holes in summer. At elevations about 1000m. temperatures are often much lower than expected, Bald Rock National Park in New South Wales adjoins.

### Sundown (6680ha)

Rugged gorges leading to the Severn River are a feature of this park reached via Stanthorpe or via Ballandean. Dense forests of cypress pine and eucalypts cover hill slopes. Facilities at campsites are being extended as the park's popularity

### Kondalilla (75ha)

A waterfall dropping more than 100m is a feature of this rainforest park off the Maleny-Mapleton road. Tracks lead from a popular picnic area to the top and bottom of the falls and a swimming

### Mapleton Falls (26ha)

Scenic views, the falls and walks through rainforest and eucalypt forest make this another popular picnic spot 24km west of Nambour just off the Mapleton-Kenilworth road.

### Ravensbourne (100ha)

This park off the Hampton-Esk road north-east of Toowoomba preserves a remnant of the wet sclerophyll and rainforest vegetation which once covered the surrounding countryside. Ideal for a picnic and a walk.

### Crows Nest Falls (949ha)

A two-part park north and south of Perserverence Creek Dam east of Crows Nest. The waterfall in the north tumbles into a steep granite gorge with mixed vegetation. A picnic area and swimming holes make the park ideal for day trips.

### Bunya Mountains (11700ha)

An expanse of coniferous rainforest and grassy balds on the Great Dividing Range crest between Dalby and Kingaroy. Two developed campgrounds and a network of tracks make this a popular area to visit through winter nights at about 1000m elevation can be cold. Road access from Kingaroy, Maidenwell and Jondaryan.

### Noosa (382ha)

One of the most popular parks offering coastal scenery with mixed communities including dune vegetation, heath and rainforest growing on sand. Walking tracks and picnic areas. Adjacent to Noosa Heads township.

### Cooloola (39 400ha)

A vast sandy area encompassing a range of vegetation types from heathland to rainforest. Ocean beaches, freshwater lakes and coloured sands add to the variety. Access is by boat from Boreen Point, four-wheel drive vehicle on Tewantin ferry, by a special road for conventional vehicles to the Freshwater camp, and by fourwheel drive to the Double Island Point camp.

### Great Sandy (Fraser is) (52 400ha)

The park preserves most of the northern end of the largest sand island in the world. Included are eucalypt woodland, heath and swamp vegetation which should be seen in conjunction with state forest reserves to the south. Two developed campsites. Access from Urangan and Rainbow Beach and by light aircraft.

### Woodgate (5498ha)

Pleasant beach scenery backed by a series of sand dunes and vegetation types make this park attractive for weekend visits and holidays. Wallum heath provides wildflower displays in season. Access via Goodwood.

### North Keppel Island (580ha)

Most popular of a group of continental island parks about 25km off Yeppoon. Open eucalypt forest with some pandanus along the coast with tussock grassland on exposed windward sides. Popular for fishing and camping holidays. Launch service from Rosslyn Bay.

### Heron Island (Capricorn Group) (12ha) Greater part of this coral cay is national park with total protection for animal and plant life marine and terrestrial. Rookery for turtles and nesting area for seabirds. Access by helicopter or boat to the tourist resort and research station. No camping.

North-West Island (Capricorn Group) (94ha) Typical coral cay with pisonia, pandanus and casuarina vegetation about 75km north-east of Gladstone. Seabird nesting site and turtle rookery. Popular camping spot for self-sufficient groups. Minimum facilities. Reached by charter boat from Gladstone or Rosslyn Bay.

### Lady Musgrave Island (Bunker Group) (20ha) True coral cay with a large surrounding reef 115km east of Gladstone. Popular safe an-

chorage with camping except bird nesting season 1 October to 28 February. Ideal for diving and snorkeling. Access by charter boat from Bundaberg or Gladstone.

### Carnaryon (217 000ha)

A combination of four areas, Carnarvon Gorge, Mt Moffatt, Salvator Rosa and Ka Ka Mundi, in the central highlands sandstone belt. Features include a variety of vegetation, spectacular escarpments and gorges, and relics of Aboriginal culture. Resort near the Gorge. Self-contained groups may explore extensive areas rarely visited by man.

### Blackdown Tableland (23 800ha)

Sandstone plateau at the junction of three ranges reached by road off the Capricorn Highway near Dingo. This park with waterfalls, a variety of vegetation and sandstone cliffs is run in conjunction with the Forestry Department. Popular camping and picnic spot distinctly cooler than the surrounding plains.

### Cape Hillsborough (816ha)

Coastal park of hoop pine rainforest and open eucalypt forest with fringing mangrove areas. Popular for nature study and recreation 45km from Mackay via the Seaforth road.

### Isla Gorge (7800ha)

This park preserves a deeply dissected sandstone range vegetated with eucalypts and wildflowers with heavy stands of softwood scrub and some brigalow on the lower flats. Suitable for self-contained bushwalking groups. By the Taroom-Theodore road.

### Simpson Desert (555 000ha)

The State's largest national park west of Birdsville complementary to an even larger conservation park in South Australia. Preserves dunefields and spinifex open-hummock grassland with some shrubs and a distinctive wildlife habitat. Suitable for the well-equipped, careful and adventurous.

### Eungella (49 610ha)

Large area of tropical rainforest with some grassy eucalypt woodland west of Mackay. Most is inaccessible except to experienced bushwalkers. Tracks at Broken River pass through rainforest and lead to points of interest. Ideal for day picnics and limited camping.

### Conway (23 800ha)

This park of tall lowland rainforest, tall eucalypt forest and coastal scenery forms the mainland edge of Whitsunday Passage. Walking tracks are limited to the northern end around the camping area on the Airlie Beach-Shute Harbour road.

### Whitsunday Passage Islands

A large group of continental islands some of which are developed extensively for tourist activities. Fringing reefs, rocky outcrops and rainforest make many difficult even for bushwalkers. Whitsunday (10.930ha) is by far the largest. North Molle (259ha) and Hook (5180 ha) are also popular. Access is by launch from Shute Harbour and the resorts of Lindeman, Long and South Molle Islands, and by air.

Bowling Green Bay (Mt Elliot) (55 300ha) Area of extensive lowlands of relatively low rainfall. The upper slopes of Mt Elliot include the southern limit of the tropical rainforest belt. Reach the Alligator Creek camping and picnic area from the Bruce Highway 25km south of

### Magnetic Island (2533ha)

A major part of this continental island off Townsville is national park. It features boulder strewn hillsides with hoop pine and eucalypt forest with 22km of walking track. Habitat for koalas. No camping. Regular ferry service.

### Crystal Creek — Mt Spec (7224ha) This park along part of the Paluma Range near

Townsville includes rainforest and eucalypt forest. Picnic areas and walking tracks are reached from the Bruce Highway.

### Jourama Falls (1070ha) Series of cascades over salmon coloured granite

amid lush greenery with eucalypt forest surrounds. Popular picnic area off the Bruce Highway 35km south of Ingham.

### Wallaman Falls (602ha)

One of a number of parks featuring gorge scenery and falls on the Herbert River and its tributaries inland from Ingham, Wallaman (278m) is the largest single drop waterfall in Australia. Popular camping and picnic area.

### Dunk Island (730ha)

Most of this island named by Captain Cook is national park. The rest is a holiday resort where an attempt is made to preserve the rainforest and open forest immortalised by author E. J. Banfield. Access by launch from Clump Point, via Tully, and by air. Dunk and nearby island national parks are suitable for day visits.

### Edmund Kennedy (Cardwell) (6200ha) Explorer Edmund Kennedy traversed this area.

on his ill-fated 1848 expedition. Mangroves. dense rainforest, tea-tree — sedge associations, fan palm and sword grass swamps make up an outstanding park between the Bruce Highway and the coast. Suitable for picnics and camping.

### Hinchinbrook Island (39 350ha)

Largest of the island national parks separated from the mainland by a drowned river valley. Rugged rocky mountains, waterfalls, beaches, rainforest, mangroves and tall eucalypt forest make this a valuable part of the national park estate. Launches travel from Cardwell and Lucinda Point.

### Mt Hypipamee (The Crater) (364ha) Geological curiosity similar to a volcanic crater and while solidified volcanic ash is present, the

sides are of granite, a rock not directly associated with eruptive volcanic activity. Rainforest and eucalypt forest too. By the Kennedy Highway between Atherton and Ravenshoe.

### Bellenden Ker (31 000ha) Undeveloped park covering the eastern slopes of

the Bellenden Ker Range and including Queensland's highest mountain, Mt Bartle Frere (1657m). Numerous waterfalls and streams flow through dense upland rainforest, the habitat of many mammals, including the tree kangaroo. birds and reptiles endemic to Queensland. Josephine Falls in the south is a popular day picnic spot reached from the Bruce Highway south of Minwinni.

### Palmerston (2556ha)

Walking tracks from the Palmerston Highway between Innisfail and Ravenshoe lead to many waterfalls set in luxuriant rainforest on the Johnstone River, Popular for picnics

### Davies Creek (486ha)

This park preserves an area of eucalypt forest growing on granite soils. The creek tumbles over a 100m waterfall into a deep valley. Wildflowers in spring. Reached from the Kennedy Highway.

### Millstream Falls (372ha)

An open eucalypt area crossed by a bottlebrush bordered stream and featuring one of the widest falls in Australia (65m). A small camping area nearby. Reached 1km off the Ravenshoe-Mt Garnet road.

### Lake Eacham (490 ha)

This is a maar, a lake in the cone of an extinct volcano, surrounded by rainforest in which might be seen the musk rat kangaroo, carpet python, water dragon and Ulysses blue butterfly. For picnics, swimming and walking. Near Yungaburra.

### Lake Barrine (491ha)

Another crater lake just off the Gillies Highway 6km from Lake Eacham. A 5km track circles the lake giving excellent opportunities for nature study in the rainforest.

### Barron Gorge (2784ha)

River bed of the Barron River drops 260m into the rainforest covered gorge seen by travelling on the Cairns-Kuranda railway which winds up the gorge. Most water is held for irrigation or diverted for power generation before the falls.

### Chillagoe-Mungana Caves

A series of reserves for limestone caves, some of considerable size. Regular guided walks are offered through three, Royal Arch. Tower of London and Donna, and Ryan Imperial. Donna Cave is lit to highlight cave decorations. Reached by road from Mareeba.

### Green Island (7ha)

Most of this coral cay and surrounding reef is national park with total protection of all features. A walking track passes through varied vegetation. Launches make regular trips from Cairns. Overnight accommodation is available.

### Daintree (56 450ha)

Extensive undeveloped national park drained by many tributaries of the Daintree River. Variety of vegetation types but broad areas of tropical rainforest. For the self-sufficient bushwalker out of Mossman or Daintree.

### Cape Tribulation (17 100ha)

A vehicle ferry at the Daintree River crossing provides access to this important area of coastal rainforest. Camp at Noah's Beach.

### Lizard Island (1012ha)

This continental island almost surrounded by fringing reefs is difficult of access some 120km north-north-east of Cooktown. An airstrip is used to service a tourist resort and a research station. A walking track leads to the peak where Captain Cook stood to seek a passage through the outer Barrier Reef. An unusually large variety of plant and animal species.

### Lakefield (528 000ha)

Extensive example of peninsula country with vegetation ranging from fringing rainforest, stringbybark forest and paperback woodland to mangroves, mudflats and open grassy plains and swamps. Natural habitat for many species of birds and also freshwater and estuarine crocodiles. Impassable in the wet.

### Iron Range (34 600ha)

True wilderness area of world significance containing the largest area of lowland rainforest remaining in Australia as well as mangroves, heathlands and open forest. The Janet and Tozer Ranges, coastal scenery and the variety of forest and wildlife impress visitors.

### Archer Bend (166 000ha)

The Archer River and tall vine forests which line it are features of this park on the western side of the peninsula. Swamps and tagoons are home to many ducks, pelicans and other waterlowl. Freshwater crocodiles are common in the river.

### Rokeby-Croll Creek (291 000ha)

An extensive area stretching from the McIlwraith Range to the Archer River flood plain preserving a variety of peninsula vegetation types and hosting some rare and beautiful birdlife and freshwater crocodiles. Visit in the dry only.

### Jardine River (235 000ha)

This park covers most of the catchments of the largest perennial stream in Queensland, a true wilderness with a variety of vegetation types including rainforest, open forest, heath and shrubland with a corresponding variety of fauna not fully recorded. To be seen by the adventurous in the dry.

### Ready for many feet



New cypress pine boardwalk is giving visitors to The Tombs Aboriginal site at Mt Moffatt, Carnarvon National Park, a close view of the site while protecting it.

Members of the Central Highlands Sandstone Consultative Committee visited the site before their recent meeting.

But no-one could walk on the structure for it had been given a coat of protective oil!

The boardwalk was built by Mt Moffatt overseer Peter Stackhouse who was praised for his design and workmanship.

The boardwalk is built without a post in the ground which

might disturb the site for any future archaeological dig.

Aboriginals are believed to have used the site for several thousand years.

Committee members also visited Kenniff Cave, used for some 19 000 years.

A high fence now protects the cave entrance and visitors



Moving fauna without relevant permits is an offence Have you got yours?

Maximum penalty \$10,000



Publications -

### Informing visitors

A major effort by Service staff has resulted in the recent publication of a dozen items to inform and help educate park visitors.

The items cover parks from the southern border to Chillagoe in north Queensland.

They include new walking track guides to the Binna Burra and Green Mountains entrances to Lamington National Park, and park guides to Girraween and Carnarvon A visitor information sheet is helping those who venture to the Mt Moffatt section of Carnarvon National Park.

A park guide for Cape Hillsborough and a bird key for the central coast will assist those visiting the Mackay-Whitsunday region.

Visitors to the north now have an orientation guide for the popular Lake Eacham National Park.

How limestone is weathered to form unusual caves and formations is explained in the Chillagoe-Mungana Caves park guide.

In addition, the Service has published a speleological field guide for the Chillagoe Caving Club but its issue has been restricted to protect unwary visitors and some of the caves.

This latest poster from the Service does not indicate a diversification into the fast food industry.

It's just a novel way of drawing attention to an important message about wildlife.

The poster in green and red is going up in prominent places like airports and railway stations where people are likely to get the message before they attempt to move wildlife. The Fauna Conservation Act pro-

vides for a maximum penalty of \$10,000 for a person found guilty of moving fauna without a permit.

Each poster includes the address and telephone of the nearest Service wildlife ranger from whom permits can be obtained.

In announcing the poster's issue, the National Parks Minister, Mr. McKechnie, said ignorance of fauna permit regulations was no defence for non-observance.

Gazettals -

# Peak Range areas added

Two areas of the Peak Range in central Queensland gazetted recently bring the number of national parks in the state to 311.

The areas declared are Wolfang Peak and the Gemini Mountains, held in high regard for their scenic and geological values.

The new parks front the Clermont-Nebo road about 40km north-east of Clermont.

The volcanic Wolfang Peak dominates one new reserve of 172

The block was surrendered from leasehold land for national park.

The Gemini Mountains National Park of 787 ha includes Mt Pollux and Mt Castor, volcanic peaks rising sharply from plains country with sparse woodland.

This area was surrendered from the Logan Downs East holding.

Both declarations were sought by the Clermont Tourist Promotion Organisation and the Geological Society of Queensland.

Last September, the Peak Range National Park of 784 ha, about 50km east of Clermont, was declared.

Duck shooters this year are being given the opportunity to help Service officers survey distribution and populations.

All shooters receiving requisite \$12 permits are being issued with a form on which to enter all details of their season's take.

This has to be returned to district wildlife rangers within one month of the season's end.

The gazette notice lists 25 August for fauna districts No. 1 and No. 2 (southern Queensland) and 29 September for the rest of the State.

Only shotguns may be used to take up to 12 wild ducks of specified species in any 24 hour period.

Junior Ranger corner

### Moving into winter

Hello Junior Rangers

I'm sure you all enjoyed your Easter holidays. Now that winter is starting you should be getting out your warm clothes and putting blankets on the beds.

Animals get ready for winter too. Some find snug places to sleep the time away. Others have left for warmer places, while still others have grown longer furrier coats for more

We received copies of the winning entries in the Capricornia Wildlife Welfare Association's essay contest for years six and seven conducted in 1983. They also had colouring contests for years one and two and three and four.

I thought you might like to read a bit from the three winning essays Grant Titman wrote about his visit to Carnarvon: 'I was awakened at five o'clock by a possum as it jumped on my tent.'

Justin Ewart wrote about what conservation meant to him: 'If we cut down our trees we will be destroying our birds in the process. Trees are very important to the ecological process.'

Catherine Turner discussed life histories of some native animals among which was the emu: 'It is the second largest living bird in the world."

If any of you watch Over Ann's Rainbow with your younger brothers and sisters, perhaps you saw the frogs. With some of the boys and girls who live near me I had a frog hunt one night and caught them.

Did you also see the dingo on the program. I helped find her too. When she first saw the stuffed kangaroo she thought it was real and she stalked it. When she got close enough

to sniff it she was very disappointed to find it was only a stuffed one.

Have any of you raised native animals? Would you tell me about it? Look well, Ranger Frances.

Now here are two chances to change a predator into its prey by changing one letter at a time. I've given you some clues as you

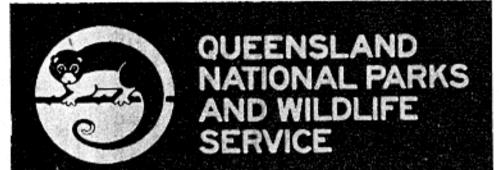
DINGO	
	a game where you have to get all the numbers in a line. a drinking spree.
	the deepest inside part of a ship's bottom. to swell outward.
  B I R D	an adjective describing what's swelled outward, something when it's large or too large, what you cook tea in over a campfire, what the dingo may eat in arid places, related to a bandicoot.
a	minstrel or poet.

is

0 1 11 0	
	a minstrel or poet.
	vertical rods which surround jail cells.
. — . — . — . —	a mammal which might eat the same prey as a bird.
	what you take at night in
	water. a school subject that deals
	with numbers.
	relative of a butterfly which is

moth. bard, bars, bats, bath, math, bulgy, bully, billy, bilby. Bird, Answers: dingo, bingo, binge, bilge, bulge,

seen at night.



## Where to find us

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Queensland National Parks and Wildlife Service 5th, 6th and 7th floors MLC Centre 239 George Street, Brisbane PO Box 190 North Quay, Qld 4000

Southern Region Southern Regional Centre 55 Priors Pocket Road Moggill PO Box 42 Kenmore, Old 4069

(07) 224 0414

(07) 202 7000 Burleigh Head 6 Peggs Road Burleigh Heads, Old 4220

(075) 35 3183 Sun Fleay's Fauna Centre via 6 Kabool Street via 5

Lamington Binna Burra Beechmont via Nerang, Old 4211 (075) 33 3584 Green Mountains via Canungra, Old 4275 (075) 45 1734

West Burleigh, Qld 4219

Mt Glorious c/- Post Office Mt Nebo, Qld, 4520 (07) 289 0200

Natural Arch via Nerang, Qld 4211 (075) 33 6156

Moreton Island Cowan Cowan via Tangalooma Moreton Island, Qld 4004 (075) 48 2710

Springbrook via Mudgeeraba, Qld 4215 (075) 33 5147

Tamborine Knoll Road North Tamborine c/- Post Office Tamborine North, Qld 4272 (075) 45 1171

Kondalilla Falls Flaxton via Montville MS 956 Nambour, Qld 4560

Mapleton Falls Falls Road Mapleton MS 956 Nambour, Qld 4560 Toowoomba Sub-Regional Office 142 Margaret Street Toowoomba PO Box 407 Toowoomba, Old 4350 (076) 38 1897

Hermitage Research Station via Warwick, Old 4370 (076) 61 3710

Cunninghams Gap Cunningham Highway via Maryvale MS 394 Warwick, Old, 4370 (076) 66 1133

Granite Belt District Office Girraween Wyberba via Ballandean, Old 4382 (076) 84 5157

Lake Broadwater PO Box 401 Dalby, Qld 4405 (074) 63 3562 Crows Nest c- 33 South Street Crows Nest, Qld 4355

Sundown via Glenlyon Dam Road via Stanthorpe, Qld 4380 (067) 37 5235

Boonah Mt French Road Boonah MS 161 Boonah, Old 4310 (075) 63 1579 (after 6pm)

South-west District Office Park · Street Charleville PO Box 149 Charleville, Old 4470 (074) 54 1279

Maryborough Sub-Regional Olfice onr Wharf and Richmond Sts Maryborough PO Box 101, Maryborough, Old 4650 (071) 22 2455

Gympie District Office Lands Office Building 27 Shannon Street Gympie PO Box 350 Gympie, Qld, 4570 (071) 82 4189

Woodgate c/- Post Office Woodgate, Qld 4660 (071) 26 8810

Noosa Park Road Noosa Heads, Old 4567 (071) 47 3243

Sir Thomas Hiley Information Centre (Kinaba) Q.NPWS Box Boreen Point, Old 4568 (071) 49 7364 Bunya Mountains MS501 via Dalby, Qld 4405 (074) 68 3127

Mon Repos c/- Turtle Sands Caravan Park Mon Repos Beach Bargara, Old 4670 Central Region

Central Regional Centre Royal Bank Building 194 Quay Street Rockhampton PO Box 1362 Rockhampton, Old 4700 (079) 27 6511

Mackay District Office Court House Victoria Street Mackay PO Box 623 Mackay, Old 4740 (079) 57 6292

Gladstone Sub-Regional Office Roseberry Street Gladstone, Old 4680

Taroom PO Box 175 Taroom, Old 4420

Blackdown Tableland via Dingo, Old 4702 Cape Hillsborough MS 895 Seaforth, Old, 4741 (079) 59 0222

Carnarvon Carnarvon Gorge via Rolleston, Old 4702 Mt Moffatt via Mitchell Old 4465

Central Highlands District Office PO Box 906 Emerald, Old 4720

(079) 82 2246 Eungella c/- Post Office Dalrymple Heights, Qld 4740 (079) 58 4552

Keppel Islands-Capricorn Coast Rosslyn Bay Centre Matthew Flinders Drive Rosslyn Bay Harbour PO Box 770 Yeppoon, Qld 4703 (079) 39 3268

Miriam Vale c/- Post Office Miriam Vale, Old 4677 Northern Region Northern Regional Centre Marlow Street Pallarenda Townsville, Old 4810 (077) 74 1411

(077) 74 1411 Ingham District Office 20 Lyn Street Ingham, Qld, 4850 (077) 76 2727

Crystal Creek-Mt Spec c/- Post Office Paluma via Rollingstone, Qld 4816 Proserpine District Office Conway PO Box 332 Airlie Beach, Old 4741 (079) 46 9430

Bowling Green Bay — Mt Elliot PO Box 1954 Townsville, Old 4810

Magnetic Island c/- Post Office Picnic Bay, Old 4816 (077) 78 5378

Barkly District Office Cnr Hilary and Butler Sts Mt Isa PO Box 2316 Mt Isa, Old, 4825 (077) 43 2528

Far Northern Region

Far Northern Regional Centre Moffatt Street Cairns PO Box 2066 Cairns, Qld 4870 (070) 53 4533

Chillagoe District Office PO Box 38 Chillagoe, Old 4871 Chillagoe 13

Lake Eacham District Office PO Box 21 Yungaburra, Old 4872 (070) 95 3768

Lakefield PMB 29 Cairns Mail Centre, Old 4870 Lakeland 4D

Josephine Falls/Palmerston PO Box 800 Innisfail, Old. 4860 (070) 67 6304

Mission Beach Garners Beach Road Mission Beach PO Box 28 Mission Beach, Old 4885 Tully District Office Cardwell PO Box 74 Cardwell, Qld, 4816 (070) 66 8601

Rokeby PMB 28 Cairns Mail Centre, Old 4870

Lawn Hill Gorge PMB 12 MS 1463 Mt Isa, Qld 4825

Other organisations

Brisbane Forest Park Mt Nebo Road The Gap PO Box 168 North Ouay, Old 4000 (07) 30 4855

Great Barrier Reef Marine Park Authority Melton Place 67-71 Denham Street Townsville PO Box 1379 Townsville, Qld 4810 (077) 71 2191

Queensland Department of Forestry 13th floor Mineral House 41 George Street Brisbane GPO Box 944 Brisbane, Qld, 4001 (07) 224 8369

New South Wales National Parks and Wildlife Service 189-193 Kent Street Sydney PO Box N189 Grosvenor Street Post Office Sydney, NSW, 2000 (02) 237 6500

Australian National Parks and Wildlife Service PO Box 636. Canberra City, ACT 2601 (062) 46 6211

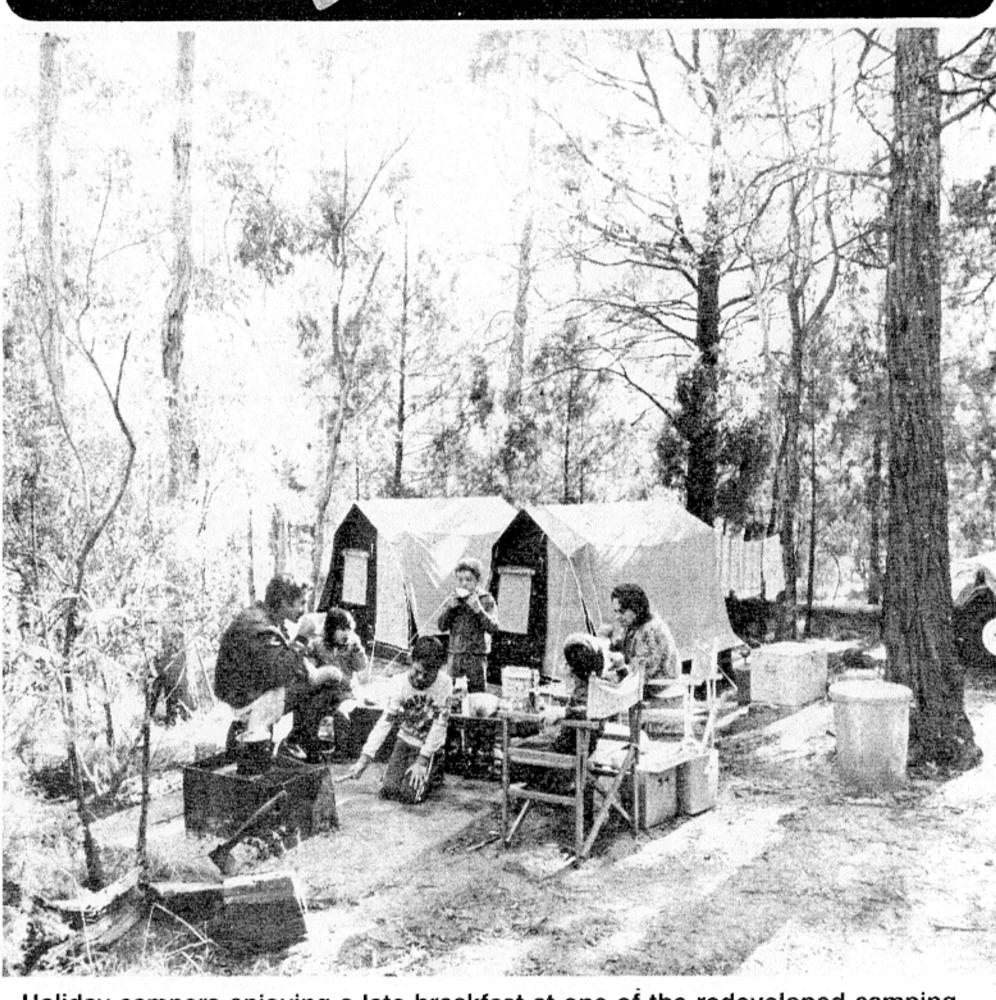
Published by the Queensland National Parks and Wildlife Service. Printed by The Queensland Times, 260 Brisbane Street, West Ipswich. ISSN 0811-6237.

Any opinions expressed or inferred from articles are not necessarily those of the Queensland National Parks and Wildlife Service.

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## Ringtail 3





Holiday campers enjoying a late breakfast at one of the redeveloped camping areas at Girraween National Park, south of Stanthorpe. The main Bald Rock Creek campground was re-opened recently after work costing more than \$50,000. The project included forming 33 campsites, and a large open area for group camping, painting toilets, replacing barbecues, installing new tables, improving drainage and extending tap water. Another \$40,000 has been spent on track work from the camping ground to the Pyramids.