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TRAINEE **SCHEME** KICKS OFF

selected and are now learning office and land management skills.

based in offices in the metropolitan area to receive training in office skills.

Twenty office trainees began work in district and regional offices on January 6.

Thirty land management technical college training at (front).

THE FIRST group of 150 either Midland and Bunbury CALM trainees have been in mid January, then began work in the various districts and regions.

The balance of the trainees, Fifteen young people are numbering 55, will start in April.

Some of the trainees who started in the metropolitan area are (pictured above from left to right, back row) Maria Lee, Caroline McNoe, Natalie McBeth, and Malcolm Kinintrainees attended one week of month, and Wendyl Tennent

tion, education and youth, rural land holders, tourism, business and

By COLLEEN HENRY-HALL

shires. In welcoming the committee, Syd Shea said the Department was committed to public involvement in land management be-cause it had no right to impose on the public its value judgements.

He said the committee approach had proven successful in the past because when people are able to discuss something, they often end up working together to find a solution acceptable to all involved.

The committee will meet once a month to provide advice on issues referred to it and to bring to CALM's attention matters of concern or interest to its responsibilities.

The committee will also help CALM get informa-tion to the public and pro-vide a liaison between CALM, local government and the community.

Other subjects identified for future consideration include: an inquiry into the timber industry; under-standing of the area's biology and environment; fire and other protection policies; security of tenure for all uses of CALM land; provision of recreational facilities; pine afforestation; and levels of use in forests and parks.

GANDY TIMBER Pty Ltd of Manjimup has secured a contract with CALM worth \$1.4 million a year for five years for the production of about 20,000 cubic metres of small sawlogs and 40,000 cubic metres of other small logs.

Don Keene, Manager Timber Production, said was \$7.5 million in current

The karri and marri logs will be from thinnings of regrowth resulting from previous selective cutting and there will be some pre-logging in areas to be clearfelled later.

Vasse bird survey

A RECENT survey of the Vasse and Wonnerup estuaries near Busselton has proven the area's importance to waterbirds.

The survey, by members of the Royal Australasian Ornithologists' Union (RAOU), was funded by CALM.

Roger Jaensch, Field Officer for RAOU Waterbird Studies, said the area's importance was reflected in the number of birds and the numbers of species found using the estuary system.

He said more than 33,000 waterbirds were using the estuaries for feeding and shelter, making the area one of the most important habitats for waterbirds among those surveyed by the RAOU.

The number of species recorded was 68, 18 more than found during previous surveys.

There are 19 species on the Vasse-Wonnerup Estuary protected by the Japan-Australia Migratory and Endangered Birds Agree-ment (JAMBA), a treaty protecting birds that stop in Australia and Japan during migration.

Previous surveys had found nine species protected under JAMBA.

Survey counts of the Yellow-billed Spoonbill and the Wood Sandpiper were the highest counts recorded for the species in RAUO studies since 1981.

Also 44 Long-toed Stints were counted, one of the highest for this species which is regarded as rare in Australia.

Protecting fauna

"SOME populations of fauna on small nature reserves could be obliterated by uncontrolled fires, so it's important to know how to manage fire for their protection,' said Gordon Friend, CALM Research Officer in fire ecology at the Wildlife Research Centre.

Gordon, along with Technical Officer David Mitchell, will be conducting research on the effects of fire on animals with particular emphasis on the wheatbelt nature reserves

where little faunal information has been gathered.

Litter dwelling reptiles and invertebrates will be

the main groups studied. The first step for the two is to compile data on an

GORDON FRIEND, (left) and David Mitchell study a pit tap design at the Wildlife Research Centre. Woodvale

area for several years before it is burned.

Problems with fire ecology research have arisen in the past because most studies have begun after the fires and assumed a pre-fire similarity between different areas.

tions on flora and fauna.

He then joined the CSIRO Division of Wildlife and Rangelands Research in the Northern Territory, where he worked for seven years before be-coming CALM's first fire ecology research officer.

David has just completed a double major BSc in biology and environmental Murdoch science at

University.
Gordon is interested in Tutanning Nature Reserve, a comparatively large wheatbelt reserve east of Gordon gained a PhD Perth where Angas Hopfrom Melbourne University in zoology, researching the effects of pine plantafects of fire on flora for several years.

Information on the effects on fauna should give a better understanding of fire ecology in the region, Gordon said.

Work also will be carried out on wheatbelt reserves

near Kellerberrin in con-junction with CSIRO, and on some experimental fire ecology plots in the Perup Management Priority Area, set up by staff from the Manjimup Research

CALM's representative.

Alan said the most important current role was to advise CALM on the preparation of manage-

ment plans for the area, a

function which would head

the agenda at quite a few of

contract with CALM to set

up the committee, said

members were chosen by

identifying the issues in the

region and the groups of

people wanting access to

He said those groups in-

CALM lands.

Richard McKeller, on

the coming meetings.

Little research has been done on the sampling methodology of pit traps, so Gordon and David also are experimenting with the design of pit traps to enable efficient sampling of litter-dwelling animals.

Gordon has just finished the draft of his research proposal, outlining what he intends to do over the next six years as Fire Ecology

GARY INIONS, a recent graduate of the Australian National University and now a forest officer at Maniimup research, received an award in recognition of being the year's graduate student with the most promise.

The Schlich Medal is a memorial prize awarded each year to a worthy graduate of ANU

The award is after Sir William Schlich, a former professor of Forestry at Oxford University. Gary received a degree in forestry with concurrent

habitat trees and fire. His study also was nominated for a separate award which is still unawarded.

At present, he is doing research in karri silviculture



GARY INIONS with his radiotracking equipment.



BAD PRESS

IT IS inevitable, and I believe desirable, that CALM receives its share of media coverage.

After all we are managing public land, and one of the major sources of information for the public is the

Inevitably CALM will receive 'bad press'.

Sometimes it will be justified, but often it will be

During the last few weeks there have been numerous articles and letters to the editor in State or local newspapers which have been less than kind.

I am aware that unfair criticism does affect staff morale, but there is no way we can stop it from being published.

Wherever possible we have responded, but often the response is not published.

In some cases we have not responded because to do so would only give further publicity to the critics and their cause.

However, we can ensure that the public knows of the initiatives we are undertaking.

We have issued, and have had published, many press releases and over the next 12 months we will be even

We are also looking at a whole range of different methods of communicating our work to the public. But no matter what we do, we will always get some bad press and the only solution is to 'cultivate a tough

FIRE EMERGENCY

Few people realised how serious the fire situation was during the last heatwave.

CALM forces were stretched to the limit and we would have had difficulty handling another fire.

This was the first test of the new Department in a fire emergency situation and my assessment, and that of many outside observers, was that we passed it extremely well.

TRAINEESHIPS

The CALM Traineeship scheme was officially launched last month at Bunbury.

Our scheme is one of the first to be launched in Australia and considerable credit goes to all those who helped draw up the programme.

I believe it is an excellent scheme which will benefit the Department and the trainees.

Everybody knows what it is like to turn up on your first job, so I hope that if the opportunity arises you help the trainees adjust to their new positions.

SYD SHEA **Executive Director** WATERBIRD

PLANNED

SURVEY

FOR THE

NORTH WEST

THE ROYAL Australasian Ornithologists' Union, World Wildlife Fund and Earthwatch are organising expeditions to the northern coast of Australia to study wetlands and migratory waders, and they're inviting interested people to take part.

The North West is the most important area of wader habitat in the country and about half of Australia's waders either pass through or stay in the Broome to Port Hedland area.

There are two other areas of northern Australia that hold large numbers of waders: the southeastern corner of the Gulf of Carpentaria, near Normanton in 11-26, 1986, and August 15 to September 14, 1986. The April expedition will con-

tinue work begun in 1985 looking at the northward departure of waders from the area.

Queensland, and the north-

eastern coast of Arnhem Land.

W.A. will be held between April

The expedition to the north of

In August-September, the arrival of migratory waders will be studied in detail through counting, banding and colour dyeing waders and watching them on radar.

The expedition to Queensland, September 14-27, will monitor a selection of good roost sites and

search for Red Knots dyed a few weeks earlier in the North West, which will help determine the arrival time of different species and the extent of migratory passage through the area.

The visit to Arnhem Land, October 13-25, will be the northern-most survey of waders in Australia and the RAOU hopes some interesting information will be gathered.

For more information on cost of travel, accommodation and food, contact: Wader Expedition Coordinator, c/o RAOU, 21 Gladstone St., Moonee Ponds, 3039, Victoria, or telephone (03) 370 1272.

BANKSIA ATLAS PROJECT

peal to record A THREE-YEAR nationwide survey of Banksias is in its last eight

months of recording.

"The Banksia Atlas," funded jointly by CALM and the Australian Biological Resources Study (ABRS) is the first Australia-wide plant mapping project to rely on volunteers as recorders.

The project is coordinated by Anne Taylor from Wildlife Research

Pleased with the response to date, Anne is urging all banksia recorders to submit their final efforts.

"In WA we have alreayd discovered two new banksia species and have established considerable range extensions for other species," Anne said.

"Some parts of WA, for example Albany to Cheyne Beach on the Lower Murchison River, have been well covered, but there are computer and distribution

still large areas which are poorly covered.'

Those areas are listed below and Anne said she would be delighted to hear from any CALM employees who live or work in the area and could fit in a spot of banksia recording.

"I am particularly hopeful that rangers and wildlife officers with knowledge of particular nation-al parks and nature reserves will contribute information about the banksias growing in such areas information which they may have already, but which has not yet been included on the Banksia Atlas files," she said.

In the first 15 months of recording, Anne received more than 5000 record

produced using the 'FLORA-PLOT' programme in use at the Wildlife Research Centre.

The latest maps have been published under the title "Banksia Atlas In-terim Maps II" and anyone wishing a copy should con-tact Anne at the Wildlife Research Centre, P.O. Box 51, Wanneroo, 6065, tel. (09) 405 1555.

Volunteer recording kits are also available as are the four newsletters documenting the progress of the project to date.

Poorly covered areas in W.A.: - Arrowsmith Lake Arrowsmith Lake north to Kalbarri including Geraldton area - North of Kalbarri National Park - Coast between Arrowsmith Lake and Jurien Bay - Coast beween Cervantes and Seabird - Nambung N.P. and inland to Moora - Bullsbrook to Moora and eastwards - East and south east of York and Northam e.g. Quairading and Kellerberrin - Between Mandurah, Bunbury, Beverley and Wagin - Busselton south to Blackwood River and east

to Boyup Brook - Augusta to Windy Harbour - Augusta to Manjimup Northcliffe to Cranbrook and Mt Barker - Boyup Brook through Kojonup and Broomehill to Jerramungup, north as far as Woodanilling and Pingrup, south as far as Cranbrook - Fitzgerald River westwards of Hamersley River - Between Frank Hann N.P., Hyden, Corrigin and Tarin Rock -North eastwards from Hyden - Between Munglinup Beach and Esperance - Cape Arid N.P. except for Mt Ragged.

John Savory

WILDLIFE officers Matthew Warnock, left, and Russell

illegally gathered from a roadside reserve.

Gueho with a truck-load of Verticordia brownii which was

Caravan bug captures John

JOHN SAVORY, a mobile park ranger for eight and a half years, has given up his official wandering in a caravan to take up leisurely wandering in a caravan.

John said he "really loved the life, enjoyed every minute of following the seasons and the tourists as mobile ranger

Now that retirement has come, "I'll do the same thing under my own power" as he and his wife visit family throughout the

John answered an adver-

tisement for the ranger po-sition because he was "sick of doing nothing" as a semi-retired businessman in Busselton.

He said he and his wife most enjoyed working with

ADVISORY COUNCIL

FRANK McKINNELL, Divisional Manager Services, has been reappointed to the Soil Conservation Advisory Committee (SCAC) for three years enabling him to continue a professional and personal interest in soil conser-

The SCAC is a group comprised of representatives of farming organisations, government departments and landholders who advise the State Government on land degradation in WA.

The committee is particularly concerned with salination and erosion.

It is currently overseeing the setting up of soil conservation districts throughout agricultural areas, aimed at getting farmers to work together to address their land degradation problems on a district or catchment basis.

A number of CALM district and regional officers are involved since the soil conservation district activities often affect CALM

on twigs, branches and trunks of trees. Caused by fungi or bac-

teria, cankers are characterised by sunken areas of bark, splits and kino exudation (a red gum-like substance).

Research Branch has

received many inquiries re-

cently about what could be

canker diseases of wandoo

Some cankers develop

slowly over many years,

although the fungi which

cause them are usually only

active intermittently - the fungi take a fresh bite of

the tree perhaps once a

The cankers eventually

girdle the branches or

stems and the damage is

evident once the leaves of

the gridled branches turn

The eucalypts produce

kino, a dark red substance

often seen bleeding down

their bark, when they are

injured or attacked by in-

Kino is a soup of poly-

sects or fungi.

and marri.

year.

Plants of Australia", first published in 1889, gives recipes for mixing kino with distilled water for use in the treatment of diarrhea and nose bleeds.

A cross section of a attack.

Unfortunately, kino veins are one of the worst wood defects in eucalypts. Marri is one of the most



tree near Manjimup.

By JOANNA TIPPETT

PUBLIC ENQUIRIES

ABOUT 'CANKER'

phenols with some antibi-

"CANKER" is the term commonly used for dead areas of bark

otic properties. Maiden's "The Useful

perennial canker often will reveal kino veins, showing that the tree has reacted each year to the fungal

production. Marri timber is of good quality when free of veins, but this is relatively rare.

sensitive species to kino

The extent of the canker problem is yet to be assessed but it is unfortunate if we have fungi as well as borers increasing the incidence of kino veins.



A typical canker on a

WA's kangaroo

garoos,

Federal The Minister for Arts, Heritage and Environment, Barry Cohen, announced the 1986 kangaroo quotas on January 22.

For WA, they are:

Western Grey Kan-garoos and 10,000 Euros.

The quota for the Western Grey Kangaroo and the Euro remained unchanged

Red Kangaroo increases by 20,000, in accordance with the recommendations of the WA Kangaroo Management Advisory Committee. — KEIRAN

The birds were seized and charges laid.

nests, so young they only had pin

were hectic for Wildlife Officers in

W.A. with people being charged for

the illegal possession of both flora

In one case, Doug Coughran and Mike

THE few weeks before Christmas was \$400. It has since been increased to \$4000.

In a second case, cooperation between Wildlife Officers and National Park Ranger Ross McGill led to the seizure of flora illegally taken from a roadside

Doug said it was only the help of the other branch of the department that the seizure was made.

"The information flow in the new Department is quicker, and Ranger McGill advised our branch of the whereabouts of someone picking protected flora from an area outside the park he

was patrolling," he said.
Russell Gueho and Matt Warnock seized a truckload of Verticordia brownii following the tip from Pass

Mahoney followed up a newspaper advertisement offering pink and The quota for the grey galahs for sale. Their investigation revealed that threeweek-old birds had been taken from their

and fauna.

It is illegal to remove birds from the nest when they are too young to fend for themselves.



Don Keene (left), Peter Bowen, Jock Smart, Brian Cornell, Police Supt. Alan Hough, Ric Sneeuwjagt and Kevin Goss review the path of the Yanchep-Guilderton fire on January 22.

By COLLEEN HENRY-HALL TEMPERATURES had been in the 40s for five days.

The air was so dry and hot that trees, grass and bushes seemed to crackle in the wind.

Conditions were perfect for a fire and all that was needed was one small

That "spark" is suspected to have been deliberatelit, northeast of the Yanchep pine plantation on Tuesday, January 21.

Wanneroo fire crews moved into action.

Because of the important pine plantations in the district, almost all fire fighting is "red action" - all available resources are committed from the first sign of trouble.

ROSHLIKE OUTRKEVE

District Wanneroo Manager Alan Briggs, fire controller at that time, said after the fire: "We started setting up the Large Fire Organisation (LFO) even through we looked like having it under control quite a few times on Tuesday''.

Other fire officers at the time were Keith Sclater as Intelligence Officer and Drew Haswell as Regional Duty Officer.

Ralph Smith was fire boss for the first shift and Ted Cracknell, on the second shift, was in charge of the dangerous backburning near the Wanneroo Road when the fire threatened to cross tha major road Wed-

nesday morning. Mundaring fire crews were the first to lend assistance.

Ric Sneeuwjagt, Inspector Fire Control, said even though this was the biggest fire in WA since 1969, there were no lives lost, no major property damage and no pine plantations

Alan said the major factor of the fire was its speed.

He said it was moving at a rate of 6,000 to 8,000m an hour and fire fighting was "a case of just trying to catch up with the fire."

Sandy soils made it difficult for tankers and crews to get to points sufficiently in front of the fire to fight it and many units got bogged.

By the time equipment was moving to the front, the fire had swept past in

many cases. The LFO was put into effect Tuesday midday at the district level at Wanneroo, the regional level at Kelmscott and at State headquarters at Como.

On Wednesday, when the situation looked like threatening the settlements of Guilderton and Two Rocks and Yanchep Na-tional Park, the police moved in and eventually the State Emergency Service for traffic control, to arrange possible evacuations and to provide hospital facilities and other

welfare services.

Alan said, "After the first day, we had plenty of resources and involvement from other parts of

Fire fighting crews came from as far as Busselton, Collie and Manjimup.

DRYSDALE'S DIVERSE

RESOURCES

CALM fire crews battled 13 bush fires in the Mundaring District in the first two weeks of the year.

TEST OUR

Officers from the Wildlife Research Centre at Woodvale were on standby to staff a large fire organi-sation, if necessary, and National Park Rangers joined with fire crews from Mundaring, Wanneroo and Jarrahdale in what was a real team effort.

The fire fighting effort was so effective that most of the fires were controlled before they got larger than

Lightning from three storms in the area was the major cause of the fires, although five are suspected of having been deliberately lit.

"The fire provided tremendous interaction with other agencies," Alan

"It was a good exercise to see how everything works in an LFO, and it also showed the need for further improvement in the development of structure for a campaign fire."

A campaign fire is a large, fast moving fire that endangers lives, involves numerous fire fighting and welfare groups and a large number of people.

Fire crews fought the blaze to the Indian Ocean. The fire fighting conditions were such that men

were working in extreme heat caused by the weather and the flames.
Alan said, "I want to ex-

press thanks to everyone who showed up for the "You all showed top ef-

fort and you put up with many inconveniences, especially on the first day." On Friday, conditions were bad and a hot north

west wind was blowing. An escape occurred on the south side of the Yanchep fire which threatened

Two Rocks. Twelve employees, three officers and three heavy duties controlled this fire.

At the same time, another fire occurred in Neerabup National Park south of Yanchep National Park, which also threatened lives in the Quinns Rock area.

This fire was contained through the combined efforts of CALM and fire brigades from Wanneroo

A final account of the major fire was provided by Keith Sclater.

Wanneroo had 70 employees, 11 officers and eight heavy duty units committed to the fire and 18 people at Wanneroo District Office.

The rest of the Northern Region contributed 32 employees, eight officers and four heavy duties.

From outside the region came 27 employees, eight officers and two heavy

Twelve bulldozers, seven graders, 14 tankers, five loaders and two heavy duties were contracted for the fire.

They also had the help of seven volunteer bush fire brigades, the army, police and St John's Ambulance Association.

Alan had high praise for the Salvation Army and the Country Women's Association, who provided food and drinks during the emergency.

The area burnt by the major fire was 10,488ha, and the small fire that flared up two days later burned 870ha.

Mòora a challenge

MOORA, about 200km northeast of Perth, is far from being on the cool side when it comes to weather, but compared to Karratha, it's pleasant, said Kelly Gillen, Moora's new District Manager.

Kelly took up the position in September.

"What's interesting is the sheer scope of being in a new office, in a new district, with up to seven national parks and 100 reserves to cover in terms of fire management, land management and working with the area shires," he said.

Right now his major concern is fire protection.

The district is working with a new fire protection plan for the Central West Coast that draws together the area's seven shires and the Department in a mutual aid

Friendly bunch at Kununurra

By VAL STOREY

TO OUR CALM colleagues, I would like to pass on greetings for the New Year and give a run down of our staff and area here in the Kimberley for 1986.

Kununurra staff are Chris Done, Regional Manager, Dave Rose, Forester, Bob Taylor, Ranger, and myself, Val Storey, Clerk/Typist.

THE last few months

have seen more than 50

The list is too long to print here, but the follow-

ing should give some idea

of who is doing what and

Roger Armstrong, In-

ventory and Protection at

Kelmscott, is now an Assis-

tant District Forest Officer

at Nannup. Rob Towers, District Manager at Collie, has

taken over Roger's position

in Inventory at Kelmscott.

tant District Forester at

Manjimuip Research, has

taken Rob's place at Col-

Keith Sclater, ADFO at Wanneroo, is working in

hardwood silviculture at

Cameron Schuster, Dis-

Dennis Hilder, ADFO at

Gavin Butcher, District

Busselton, has moved into

the District Manager's seat

Manager at Jarrahdale, is

at Como in Environmental

Denise Allen, formerly an ADFO at Nannup and

now at Jarrahdale, has

taken up Gavin's position

as District Manager at Jar-

trict Manager at Busselton, is now at Manjimup as

Operations Officer.

Manjimup.

at Busselton.

Protection.

lie at District Manager.

Richard Briedahl, Assis-

transfers at CALM.

Noel Nannup is permanent Ranger at Fitzroy Crossing for Geikie Gorge National Park and he is assisted by three mobile rangers in the tourist

season. Forester Peter White is at the Broome Nursery. Assisted by Rod O'Don-

nell and a team of nursery personnel, he propogates a variety of native and tropical exotic plants for distri-bution throughout the Kimberley.

Peter is also involved in mining rehabilitation at Koolan and Cockatoo Islands

If you are planning a trip to the Kimberley this year, please don't hesitate to call into our offices at Fitzroy Crossing and Kununurra, we are a very friendly bunch and are very proud of our "team"

Ranger Bob Taylor will point you in the direction of Hidden Valley National Park, or you may even see him in there, because it if weren't for the "No Camping" sign, he'd probably

live there! Bob also covers Wolfe Creek Crater and is preparing for extra visitors as it's one of the best vantage points for observing Hal-

Wildlife Officer Mike Osborn covers an enormous area and a great deal of time is devoted to crocodiles, from catching rogue saltwater crocs in Wyndham to searching at night for reported "salties" in

Lake Kununurra. Noel Nannup had about 30,000 visitors at Geikie Gorge last year, an increase of 7,000 over 1984, and ran the Park with the help of Mobile Rangers Keith Moon, Barry Cartledge

and Kevin Hughes. Mobile Ranger Trevor Anderson cared for Windjana Gorge, which is also popular tourist spot, and John Arkey manned Tun-nel Creek National Park.

A vote of appreciation goes to the Rangers' wives who help and support their husbands a great deal.

I would also like to thank all of SOHQ for their assistance for this region, especially Stores and Accounts.

We are currently in the middle of our wet season and "wet" is just what it has been.

Fitzroy suffered again this year with floodwaters 24cm higher than the 1983 "record" floods.

During floods, Noel's only means of transport was a dinghy tied to his front gate.

The office is on lower ground and had 28cm of water runing through it at



FITZROY CROSSING's Ranger's Office during a "wet" season.

Kalumburu.

During this expedition,

J.S. Morgan, retired Sur-

veyor General of WA and

member of the former Na-

tional Parks Authority,

discovered the falls that

From 1971, the WA

After the successful sur-

vey, it was decided to con-

tinue with a survey of the

Funds were provided by

the WA Government through the Department of Fisheries and Wildlife, the

National Parks Board, the

Australian Biological

Resources Study Interim

Council and the Depart-

ment of Conservation and

In August 1975, a bio-

logical survey of the Park, led by Dr A.A. Burbidge,

was done by staff of the

WA Wildlife Research

Centre, the WA Museum,

the WA Herbarium.

Environment.

Department of Fisheries

and Wildlife organised a

series of biological surveys

now bear his name.

in the Kimberley.

THE DRYSDALE River National Park (435,590h) was gazetted a "B" Class Reserve and vested in the National Parks Board in September 1974. The Drysdale and Car-

son rivers in the Park were named by C.A. Burrowes, surveyor for the Victorian Squatting Company, in 1886.

Burrowes explored the country west of Cambridge Gulf to Mt Bradshaw, and he may have been the first European to visit the area now included in the Park boundaries Another European visi-

tor to the Park was C.P. Conigrave in 1911-12.

Conigrave was a member of the Royal Australasian Ornithologists Union and an account of his expedition is in the journal Emu (Anon. 1912).

A visit was made by the North Kimberley Survey and Mapping Expedition in 1954. This expedition conduct-

ed detailed surveys and prepared a general land classification of the central north Kimberley.

They also constructed the first vehicle track from

Gibb River Station to CSIRO Division of Ento- nal sites". mology and the National

> The first proposal for a reserve in the area came from Mr Morgan in 1955. The Park, with its origi-

Parks Board.

nal boundary, was recommended by the WA Sub-c ommittee of the Australia Academy of Science Committee on National Parks.

The Sub-committee recommended the area because it contained land typical of the northern savannah formations of tropical Australia.

Despite approval by both the National Parks Board and the Department of Fisheries and Wildlife, nothing happened until 1969 when a Reserves Advisory Council was appointed by the State Government.

After some members of the Council inspected the Reserve, it recommended to the Minister for Lands that the area be reserved for "national park, conservation of flora and fauna and protection of Aborigi-

This recommendation was not accepted by Cabinet, mainly because of objections by the Mines Department that the area was prospective for uranium and diamonds.

In 1972, the newly creat-ed Environmental Protection Authority set up a Conservation Through Reserves Committee to recommend a state-wide system of conservation reserves.

The Drysdale River area was one of the first considered and in April 1973 the Authority endorsed its recommendation that the area be made a Class "A" Reserve for National Park.

Negotiations with the Mines Department resulted in the Class "B" status.

Scenically, the Park is diverse - gorges and cliffs contrast with broad rivers and plains.

Spectacular waterfalls are found on Palmoondoora Creek (Morgan Falls), on the Drysdale

River (Solea Falls) and on Johnson Creek (Cracticus Falls) as well as on many of the smaller tributaries.

The Park encompasses a

cross section of the main

geological formations of

the north Kimberley -

ly represented - which is

only the laterites are no

in marked contrast to the nearby Prince Regent River Nature Reserve in which one rock type, the King Leopold Sandstone, predominates. Biologically, the Park is intermediate between the sub-humid north-west

Kimberley and the semi-arid east Kimberley. The vegetation is mostly low open-forest, low woodland, and low open-woodland but there are small areas of vine thickets and a unique area of tall closed-forest.

Because of its remoteness and rugged terrain, little collection was done before 1975, but the team led by Dr Burbidge collected 28 species of native mammals, nearly 2,500 species of insects, about 600 species of plants, 26 species of freshwater fishes, 13 frogs, 47 reptiles and

127 birds.



dale River National Park. Picture by J.F. Morgan.

rainees weicomed at Bunbury college

CALM Executive Director Syd Shea and the Minister for Employment and Training, Peter Dowding, welcomed 30 land management trainees to the South West College of TAFE at Bunbury on January 23.

VISITOR SURVEY PLAN IN S-W PARK

A VISITOR survey is being conducted by CALM Planning Branch to gain public input into the Leeuwin-Naturaliste National Park draft management plan now being compiled.

Planning Officer Paul Frewer is coordinating the work on the draft

The working group for the plan comprises Paul, Mike Batchelor, Senior Ranger for the Park; Dennis Hilder, Busselton District Manager; Neil Taylor, Parks and Reserves Officer; Jackie Brown, Technical Officer Planning; and Richard Hulauko, Technical Officer Planning.

The issues to be examined include protection of fragile areas and rare flora and fauna, fire management, access and services, recreation and cave management.

Over the Australia Day long weekend, 660 surveys were completed by visitors at more than 40 of the Park's sites.

Surveys also were collected in February and two more sessions, one in March and one over Easter, should provide about 2000 responses in busy and off-peak times.



The visitor survey will collect responses from people who have used the Park and are likely to use it in the future.

The draft plan will take into account the needs of the park users who are most concerned with the way the Park is managed.

"We're approaching the plan in such a way that we define the park's resources, its use pressure and visitor and communi-ty attitudes," Paul said.

The interviewers handing out the surveys also record the number of people visiting a site and visitor activities.

In addition, rangers are keeping track of numbers of visitors during weekday periods.

The survey is one phase of public participation in the draft plan.

Local community and recreation groups will be contacted and a workshop similar to that recently held in Mundaring District is being organised.

It will be a forum for local user groups to in-form CALM on their views on management of

The draft plan is due for completion toward the end of this year and will be available for public comment for at least two months.

The trainees, parents and college and government officials attended the opening of the CALM traineeship scheme, which is one of the first of its kind in

know CALM offers the greatest range of educational opportunities of any government depart-ment I can think of.

"Your year will be a hard and tough time, but I can guarantee you will enjoy it."

The trainees spent a week at the college learning safety rules and basic land management policies.

Mr Dowding, said, "It is my own belief that we don't solve problems of unemployment by putting people into \$100 a week jobs cleaning offices or working a check out stand.

"We needed to offer opportunities to young people to educate themselves and thus enable them to get better jobs."

Syd and Mr Dowding lauded the efforts of many people from the Department of Employment and Training, CALM, the Department of Employment and Industrial Relations, TAFE and the South West College of TAFE, in getting the programme started.

Syd particularly thanked Trevor Hislop, who had been seconded from the Commonwealth Department of Employment and Industrial Relations, for CALM's organising scheme.

The trainees and where they are based: LAND MANAGEMENT TRAINEES

Kirup: David Glover, Dwayne Henderson, Simon Watkin, Philip Min-chim. Esperance: Matthews Bonnitcha. Harvey: Robert Murfit, Russel Duffield, Sean Patterson, Stuart Cassie, Michael Lang. Bunbury Region: Ian McRobert. Gascoyne (Karratha): Andrew Horan. Manjimup: Mario Pessotto, David Manix, Martin Coulter, Karen Anderson, Richard Bruton. Collie: Wayne Simmons, Christopher Trigwell. Mundaring: David Bloom-field, Geoffrey King, Craig Yeoman, Roderick Kelson, Eric Bowley. Wheatbelt (Narrogin): Graeme Wilson. Dwellingup: Paul Halford, Melanie Mounsey, Paul Lupton, Glen Layton. Pemberton: David Evans, Peter Bamess, Michael Hordienko, Miles Harrison, Ian Jackson. Walpole: Richard Garbellini, Mitchell Bone, Geoffry Passmore. Busselton: Craig Bell, Ashley Chitty, Shaun Eakin. Nannup: Stephen Jay, Gareth Wright, Sean England, Matthew Timms. Metropolitan (Murdoch House): Jeff Brooks, Wan-neroo: Sharon Fraser, Owen Donovan, Craig Rogers, Damian Gardiner, Ellis. Jarrahdale: John McDonald, Jeffry Poad, Andrew White, Poad, Andrew Caroline Brocx, Shayne

OFFICE TRAINEES

Boyle.

South Coast: Melissa Tew. Northern Forest: Bronwyn Lebrasse, Manjimup District: Coralie Manjimup Region: Linda Dean, Pin-

Wanneroo: Lee, Maria

Caroline Dodimead. Moora: Juanita Watson. Pemberton: Deanne Bradley, Jarrahdale: Craig Gleeson, Kirup: Julie Kerklaan. Geraldton: Mark Twiss. Esperance: Marlene Curtis. Woodvale: Martine van Loon. Har-Tracey Marinoni; Central Forest Region; Joy Simpson. Mundaring: Paulette Monague. Wal-pole: Jennifer Price, Nannup: Denise Pitt. Dwellingup: Sharon Findlay. Metropolitan (Como): Caroline McNoe, Natalie McBeath, Malcolm Kininmonth, Wendy Tennent.



Syd Shea (left) and Peter Dowding, (right), joined land manage ment trainees in Bunbury for the official launch of the traineeship scheme. Also pictured are Michael Cross, Executive Director of the Department of Employment and Training and Anne Evans, Acting State Director of the Department of Employment and Industrial Relations.

for Departmental

managers and planners, with an early draft serving as a pub-

lic involvement tool providing information to interested pub-

lie and inviting public sub-

RESEARCH BULLETIN

It is an avenue for formal

replaces the former Wildlife Bulletin and Forest Bulletin.

scientific reporting of a major research program that would

generally be considered too lengthy or too parochial to

meet the requirements normal-

ly demanded by external

scientific community.

The intended audience is the

RESEARCH PAPER re-

places the former Forests

Research paper, It is for brief to medium

length reporting of research according to the conventions

of scientific writing.
It may be either a complet-

ed of interim report of con-tinuing research. They do not replace publication in scientific

journals.
They report local projects

that may differ from the re-

quirements of a national or in-

ternational journal. The in-

tended audience is the scientif-

TECHNICAL REPORT

replaces the former Wildlife Report, National Parks Bulle-

tin and Forests Technical

technical information on data

that is a significant contribu-

tion reports, field surveys or

for presenting technical details

of projects or developments, or important data pertaining

to such projects or develop-

It is appropriate for situa-

tion to local knowledge.

It is for communicating

ic community.

missions.

PUBLICATION TITLES

By MARIANNE LEWIS

SEVEN publication titles have been identified for Department dissemination of research and technical information.

The Policy Directorate announced the titles in December.

They were selected, after lengthy and detailed research and discussions, as appropriate to the needs of the Department.

These titles are designed to supplement and comple-ment, but not to replace, publishing in external journals, which is preferred.

However, for various reasons, external publishing is not always appro-

A brief description of

each title is provided here. For further information contact Marianne Lewis, Technical Editor, or Sweton Stewart, Senior Publications Officer, at Como,

367 6333 LAND MANAGEMENT PLANS are produced following the requirements of the Conservation and Land Management Act.

The documents will contain all aspects of land management planning and implemen-tation including a descriptino of the biophysical resources, consideration of options, reasons for preferred options, and

from a study tour, or a re-source inventory or be a disguidelines for implementation. They are working docu-

> They are intended primarily for a local (i.e. WA) au-dience including land manage-ment agencies, technical and

cussion paper.

research personnel.
WILDLIFE MANAGE-PROGRAMME MENT replaces the former Wildlife Management Programme.

This is intended for the presentation of approved management for single or groups of wildlife species in need of special consideration.

It includes a summary of bi-ological and ecological knowledge of the species concerned, together with a statement of objectives, options and a plan for management.

The audience will be variou external agencies including federal authorities concerned with export of species or products, conservation organisations and Departmental per-

sonnel. LANDNOTE is a new publication and is intended as communication between internal research, technical and operations personnel.

It is for communication of findings from specific projects, observations in the field or state-of-the-art knowledge, as

they come to hand. This will be a significant outlet for work by operations staff in the districts and regions, or works relevant to these people, on any subject area embraced by the func-

tions of the Department. Landnote will be compiled and edited by Peter Kimber,

Chief Scientific Officer. ANNUAL RESEARCH SUMMARY is produced by the Departmental Research

branches. It is a summary of all research activity within both Wildlife and Production research branches, set out according to project and identifying research officers.

It is indended for internal

reference and readership.

evegetatio

A TRIAL management plan to counter erosion of poolside banks at the Millstream National Park has proved encouraging.

The trial was started about 18 months ago at Deep Reach Pool where vehicles were causing problems.

The area was fenced off and River Gums, Coolabahs, Millstream Palms and acacia ampliceps planted.

Despite flooding, more than 50 per cent of the plants have survived, with some River Gums standing 1.5m.

One notable aspect of the trial was the amount of flood debris that accumulated along the fenceline and the growth of the young plants at these sites.

The effect is striking, and reflects the famous

fenceline at Grimwade, which highlighted the need for trace elements. on laterite soils for Pinus Radiata.

Following the success

at Deep Reach Pool, more fences have been erected by Trainee Rangers at Millstream, and the next wet season is eagerly awaited.

THE Wood Utilisation Branch at Head Office has a timber identification service that has been set up over the past three years.

In 1982, Yugo Ilic, experimental scientist with the CSIRO Division of Chemical and Wood Technology, Victoria, trained several officers in practical aspects of wood identification. Since then, Don Challis and Phil

Shedley have offered a wood identification service when time permits.

If disputes arise concerning the identification of a specimen, a sample is sent to Mr Ilic for confirmation.

The CSIRO Division of Chemical and Wood Technology currently uses a micro-computer based wood identification process.

It is hoped that some time in the future, CALM may be able to introduce a similar system for timbers available or commonly used in W.A.

In the meantime, if you have a timber sample of a commercial species that you require to be identified, please forward it to Don Challis or Phil Shedley at Como. — DON CHALLIS

ments, e.g. management reviews or surveys. It may also be an avenue for publication of review material on any suitable topic. Other types of reports might arise

anjarri cleanup



WANJARRI shearing shed.

Active, on-the-ground management of Goldfields Nature Reserves-

began recently with a working week at Wanjarri Nature Reserve, 430km from Kalgoorlie.

Work was urgently required on the reserve so a week was arranged and the opportunity used to get all the staff together.

The crew was Ian Kealley (Acting Regional Manager), Mike Tagliaferri (Assistant Forester), David Pearson (Research Officer, Dan Grace (Technical Officer), Bob Fitzgerald (District Wildlife Officer) and workers Zlan Freeman and Phillip Goodall.

Lee-Anne was left to run the region in our absence.

Wanjarri is a Conservation of Flora and Fauna A Class reserve of 53,248ha.

It was a Nature Reserve in 1970. The area has a wide diversity of habitats including breakaway, granite outcrops, mulga woodland and spinifex hummock grassland.

The diversity of habitat is reflected in

a diverse flora and fauna. Remnants of pastoral activity are an old shearing shed, fences and mills.

The main work for the week concentrated on restoration of the shed, rubbish and fire hazard removal and repair of the shed windmill.

The crew achieved plenty with solid 12

hour days.

The windmill and plumbing to the shed was repaired.

About 10 tonnes of rubbish was removed and the fire hazard reduced. Tracks and firebreaks were dragged.

Final restoration work on the shed was completed and a pit toilet constructed. It wasn't all hard work - time was

spent inspecting the reserve for future work, management plans and research

Forty three species of birds, several mammals and reptiles were identified.

With future proposed work the Wanjarri shed will become a valuable field study centre located within this unique Nature Reserve. - IAN KEALLEY