

Official newspaper of the Department of Conservation and Land Management

The forester rides again



Jack and "Saskatoon" exploring mallet forest near Dryandra.

Jack Bradshaw explores in style

IN THE recently published book of foresters' stories 'Leaves from the Forest", Jack Bradshaw tells a hilarious story of his early days as a forester in the south-west, when he and Terry Court used horses in a surveying project on the south coast.

The story was called "The Forester's Last Ride.'

CALM's national parks.

visited

Peter Hutchison and

Como recently before

heading to their respective

bases at Kalgoorlie and Turkey Creek.

Hutchison will work with communities in the

central reserve and possibly

Peter McGlew

Now Jack is the Department's top forester as manager of Silviculture Branch. He is still interested in horses,

but now he rides in style. Jack has completely restored

a 19th century buggy and loves to explore the forests of the south-west from "buggy height" on weekends. About all I had to start with

was a set of springs and an axle, which I got from a farm rub-bish dump," Jack said. "I worked from blueprint

from an old library book.' Seven different timbers are used in the reconstruction.

The project took Jack and his son Iain (who made all the harness) over a year to complete.

NILDLIFE NUMBERS RISE WITH FOX CONTROL

A RECENT survey of Tutanning Nature Reserve for woylies, tammars and possums has produced evidence that all three species have increased in number since the implementation of fox control measures.

Bob Bromilow and Mike Onus from the Wildlife Research Centre at Woodvale carried out the survey over four days. Research Scientist Jack

Kinnear, who is supervising the fox control programme, said the baiting started three years after they had some idea of the relative abundance of the three species.

He said: "Things looked pretty grim; on average we were lucky to sight a tammar or possum during

"As for woylies, we never did see one, but we trapped a few after a lot of

A five-year-study by the CSIRO had yielded similar

Graham Arnold's team, during the course of 54 spotlight surveys of Tutan-ning, recorded on average less than two tammars per survey, and no woylies were sighted at all.

The recent survey by sightings for all species -

sighting per night. Jack said: "It's an en-

couraging sign, but we expect an even greater im-provement in the near future because population growth rates are a function of population size; the

The rise in numbers was achieved by Bob's baiting the reserve one day each month.

phascogale population (a

Research on fox control, which has recently been extended to the large national parks, is continuing with the aim of reducing the baiting frequency.

With this point in mind, Jack has been reviewing the literature with the object of modelling fox control.

He said: "There has been a lot of activity in this area, particularly in Europe and the US, due to the fact that the fox is largely responsible for the spread of rabies.

"In many respects, the

effort."

results.

Bob and Mike recorded 56 an average of 14 per night.

In sharp contrast, the 1984 prebaiting surveys produced less than one

more animals, the faster their numbers breed up."

He has also noticed the

mathematics of fox control for rabies seems to be very relevant to our predation problem, and it seems likely that the mathematics can be directly applied to our situation as soon as we acqure sufficient data.

"Even at this early stage, the review has led to some insights about fox control that should make the task more efficient and hence, more cost effective.

"The hardest part will be linking the rabies models to predator-prey models and the collection of relevant information in the field," Jack said.

RESEARCH andoo de

CALM researchers are investigating the causes of wandoo decline in the western wheatbelt by looking at the role of biotic agents, correlating these with environmental conditions and developing a practical guide to the diagnosis of symptoms.

Paul Brown, who heads the Tree Research Centre in Narrogin, addressing a recent Research Seminar at Como, said: "In the early '80s, we noticed that there was branch decline in the wandoos, and there was every reason for it occur — drought, salinity, and insect attack."

But the precise reason for the decline was unknown, so Paul applied for a grant from the Rural Credit Development Fund and, with the money, hired Paul Albone on a two-year contract with CALM.

Brown and Albone have been looking at two types of biotic agents: those affecting the bark and wood and those defoliating the trees.

Brown said: "We're trying to get a handle on the life stages of the different insects that have been found associated with branch decline, and also photos of the stages of decline for the diagnostic guide."

Toward this aim, Albone has set up 27 plots across the wheatbelt to look at how widespread insect attack is, and to correlate stand and site characteristics.



Generally, Hutchison will do consultative work programme should be run. with the community, tak-McGlew said: "We're ing a broad look at trainvery much open at this ing Aboriginal people to not only become rangers in "When we speak to them national parks, but to carry we'll know what they ex-pect and develop the proout community based

duties McGlew said he will

He has a degree from and Murdoch University, and a teaching diploma.

McGlew has been associated with Aboriginal communities for the last 10 years, most recently as a schoolteacher in the central reserve and then in the Pilbara.

By Colleen Henry-Hall

stage.

gramme from there.

the western desert, and McGlew will work with Turkey Creek communities and later in Bungle Bungle National Park

The Aboriginal ranger training programme is funded by the Federal Government, and the two training officers will work closely with Aboriginal communities to develop specific training programmes.

Both Hutchison and McGlew said they feel it is important to consult with their communities before

PETER HUTCHISON, (left) and PETER McGLEW

been The two have working closely with Steve who developed Szabo, who developed CALM's first Aboriginal Training Programme last year.

Steve said: "It's important to note that we're responding to requests from the communities for this sort of training.

"And because we are working for the communities, it's necessary to identify what they think is important for them to learn."

negotiate with the community to see how they wish to participate in park management, and work with them on the selection of ranger trainees. Steve said: "The impor-

tant thing in both jobs is to sit down and listen.

"The training pro-gramme is also an opportunity to learn from these people, a chance ot gather and record their knowledge on land management and the environment.

"These training officers

are a contact point and a sphere of influence that CALM otherwise wouldn't have, and we'll have additional help in the parks.

"We're anticipating 16 people will come out of the training programmes next year.

Hutchison, formerly with the WA Fisheries and Wildlife Department, was doing community development work in Arnhem Land before he joined CAIM

He has a teaching diploma, with a major in Aboriginal education, and a bachelor of science degree in horticulture.

dasyurid species somewhat smaller than the spotted native cat or chuditch) and has shown that baiting has not harmed this species.

The data is now being put on computer for analysis. Brown said the project has been hampered by the fact that there has been little branch decline in the past 18 months.

The study will run for another six months.

Park Opened ational New

THE world's only Tuart forest was declared a national park by CALM's Minister Barry Hodge recently.

To be known as the Tuart Forest National Park, it covers an area of about 2880 ha near Busselton.

The establishment of the national park gives security to a unique example of the State's landscape.

Tuart trees grow only in WA in a narrow belt of coastal limestone based soils that extend from the Moore River mouth of Perth of the Sabina River near Busselton. It is a very slow growing, hard and durable timber which prows to a height of

about 40 metres with a logging between 1920 and 1960 when the Tuarts were diameter of about two metres. cut for railway sleepers.

A LITTER clean up with a difference

occurred in the Marmion Marine Park

recently, with volunteer help from Down

Under Divers and diving instructor Tom

This joint effort involving C.A.L.M.

and the divers successfully cleaned up

Boyinaboat Reef; a show piece inshore

Rubbish cleared from the sea bed rang-

reef just South of Hillary's Marina.

Whiteoak.

The area of Tuart forest Logging stopped in the set aside as a national park area more than 20 years ago. had been subjected to intense Foresters have developed highly successful regeneration techniques for Tuart.

These techniques will continue to be employed in the park to ensure the perpetuation of the Tuart Forest.

Underwater clean-up

For Marine Park Manager Greg Pobar this help was much appreciated. Not only did it involve the local com-

munity, but it paved the way for one of the first underwater dive trails in the Park.

The trail will include submerged plaques explaining the layout of the reef and the surrounding marine life.

It is envisaged that other clean ups involving C.A.L.M. and local divers will be

FROM MY DESK

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During mid-October regional and branch managers met at Como for their annual reporting and problem-solving session.

I enjoy these sessions, particularly the views put forward by managers from the bush. They provide a different angle on things from the political, policy and administrative people with whom I mainly work.

To a large extent senior staff are required to deal with conservation and land management at different levels - resources are columns of figures, or lists of staff; forests, parks and reserves are areas on maps. On the other hand field managers are in the bush trying to make policies work with dollars and people (or without them!).

At our most recent meeting, the managers highlighted a number of issues which they considered need urgent attention in the months ahead.

These included better intersection of the tourist dollar by CALM, more sophisticated user-pay system, better contact with park and forest visitors (especially at weekends in the south-west), more efficient management of the wildflower industry, and the development of more consistent and efficient ways of dealing with "necessary operations".

The managers also spent some time looking at ways to improve CALM's public support.

All of these issues will be followed up.

It encourages me to hear the ideas and schemes which flow from our field and specialist staff.

This constant drive to do our job more efficiently and more intelligently can only result in a steady improvement in wildlife conservation and the management of forests, parks and reserves in WA.

Incidentally, at the recent National Fire Workshop at Busselton, I was very proud to hear a visitor from the east remark that "CALM is widely regarded as setting the standards for conservation management in Australia.'

Full credit to all staff who have helped create this situation.

ROGER UNDERWOOD Acting Executive Director



CALM First Year Cadets helped construct the whale watching platform in Leeuwin-Naturaliste National Park.

doing planting, weeding

"We walked to where we

walked a

lot

were going to work in those

days, carrying our lunch

throughout his forestry

career, sometimes 7 or 8

km a day, particularly while doing fire control

day before 1 retired and

I'm sure that's kept me pretty fit," Les said.

really like was high prun-

"I walked right up to the

"The only job I didn't

which wrecked my

and axe," Les said.

and cultivating.

Les

and edging.

ing, neck

Les, a forest worker at

"I was always in-

always

Ludlow who retired from

the Department recently,

trigued by the work, so

much so that the years

flashed by and before I

knew where I was, it was

something interesting going

on when you're working

with trees - there's plan-

ting, pruning, felling, bur-

ning - looking after them from the time you've planted them until they're

Les had chalked up

almost 50 years with the

Department, thanks to

starting when he was just a

boy by carrying mail from

the Ludlow Post Office to

He was then promoted

to rabbit trapper and paid

'six pence a pair of ears".

ment officially in 1941, and

worked in the pine nursery

He joined the Depart-

the Ludlow settlement.

ready for the mill."

time to retire.

"There's

said:

Cadets in Central Region

CALM First Year Cadets spent time in Central Region recently working on recreation sites in Leeuwin-Naturalists National Park. Under the direction of Parks and Reserves Officer Neil Taylor, the cadets built two lookouts, which give spectacular views of the coast.

One lookout included a three-panel display on whales, their migration and identification.

Neil said: "The cadets did a good job and the work was really appreciated.

"The project was part of their official training and they all enjoyed the work."

The cadets also did a complete revamp of an existing walk trail on Cape Naturaliste.

NER REI

Neil said much of the trail had to be re-cut through heavy coastal heath where it had been overgrown.

CALM NEWS

Seats and trail markers have been placed throughout and all wooden signs have been replaced.

Also, the accompanying brochure will be rewritten and reprinted as part of the project.

Busselton District provided funds for materials and tradesmen to assist with the carpentry

Leeuwin-Naturaliste Ranger Mike Batchelor was involved with the work whenever possible.

"It's hoped that the success of this programme will ensure the cadets annually tackle a recreation project close to Bunbury, where they do their first year of training," Neil said.

FOR Les Warner, forestry was a most fascinating career. "I liked to work, to do

a job and do it property. Les won't be giving up his career entirely: his retirement plans include cutting firewood for the area's pensioners.

Les was inducted into CALM's Allegator Club just before he retired for avoiding a serious chainsaw injury by wearing safety pants.

He received a gift pair of safety pants from CALM Minister, Mr Hodge, which will no doubt come in handy.

Les' other plans include completing renovations on "But I was getting paid to do a job and I did it. his Busselton house, and doing some gardening.

A BICENTENNIAL-funded project will construct an 8km walk track in Millstream-Chichester National Park. along part of an original camel track last used in 1892

The Python Pool Camel Trail, which will run from Mt Herbert to Python Pool via McKenzie Springs, has been constructed by clearing spinifex and gound debris up to a metre wide.

Work on the signs and accompanying brochure is being done now for next year's opening.



LES WARNER receives a pair of safet pants from Barry Hodge.

Admin Officers attend seminar

Those people who do much toward keeping this Department runn-Administration ing and Clerical officers met again recently for an annual conference on administration and finance.

Frank Townsend, the primary organiser of the seminar in Forests Department days, organised last year's seminar, and then made an appearance at the seminar to meet all his old friends.

Field administration officers from all over the state, clerical officers from the smaller district officers and some SOHQ and Murdoch House people attended the three-day seminar.

dinated it. For the first time, sessions in communications skills were held.

These were very well received, with many of the officers commenting on the content of the seminar was one of the best they had attended.

At the end of the seminar, a course evaluation was distributed to the participants.

Everyone felt that the seminar was worth attending for a number of reasons.

These included gaining valuable information, getting updates on new developments, having an increased understanding of the administration role, departmental re sponsibilities and struc-

Safe year for CALM workers IT'S been a good, safe year for CALM, and the annual report for the Oc-

cupational Health Safety and Welfare programme proves it.

The All Accident Rate has been drastically reduced during the past year, there has been a marked decrease in the number of Lost Time Accidents, from 41 to 28, and a reduction in the number of Medical Treatment Accidents, from 204 to 127.

Safety Officer Tom Wood reports that the frequency rate for all injuries is the lowest annual rate ever recorded since the introduction of the Occupational Health, Safety and Welfare programme into

The number of working days lost due to lost time accidents was 1382, a reduction of 95 days from last year.

There was one fatality. Environmental factors (insects. dense undergrowth, uneven terrain and bad weather) encountered every day by a large number of field staff, contributed to 34 per cent of all accidents.

The number of back injuries has stayed at 20 percent of all injuries.

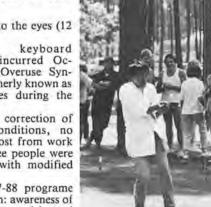
The next most prevalent type of injury was to the legs (26 percent), followed

by injuries to the eyes (12 percent).

Three operators incurred Occupational Overuse Syndrome (formerly known as RSI) injuries during the

With the correction of working conditions, no days were lost from work and all three people were reassigned with modified duties.

The 1987-88 programe will focus on: awareness of the environmental hazard that cannot be changed; reducing the duration rate of each lost time accident; continuing manual handling training; an eye safety programme; ongoing education and correct management of keyboard operators. The following units achieved one or more years without incurring a lost time injury accident in the past year: Dwellingup Cadet School, Busselton, Harvey, Pemberton, Col-lie, Walpole, Manjimup, Greenough/Gascoyne and Bunbury Region. A total of 524 people qualified for these awards. Other OHSW activites during the year included safety training schools, St John's First Aid schools, a chemical users school, the audiometric testing of 599 staff; training in manual handling.



Northcliffe reach a milestone

THE gang at Northcliffe, an outstation of the Pemberton District, reached a milestone in September when they achieved 20 years without a lost-time accident.

Over the years, the gang has varied between five and seven employees.

Man-hours worked during this period would exceed a quarter million and kilometres travelled would be in the vicinity of three-quarter million.

Some 40 permanent employees, as well as six Serpas and 10 students on work experience, have made up the Northcliffe gang in this 20 year period.

Many aspects of forest work, including controlled burns, wildfires, planting, bridge building, tourist facilities and road works have been done in this time.

Credit must go to all those involved over the years for working safely and avoiding injury and lost-time accidents.

Presently employed at Northcliffe are Park Ranger Rick France, Overseer John McDonald, and Forest Workmen Mick Liebregts, Colin Daubney

Also, eight people were awarded membership of the Allegator Club for saving their legs from serious chainsaw injuries by wear-

Assistant Forester Francis Tay concentrates as he catches an egg during the Tabloid Olympics, at Como recently.

Finance Manager Alan Hill chaired the seminar, and Kerry Olsson coorture, and the chance to discuss mutual problems with their peers.

CHURCHILL TRUST

WHY not help yourself and your country by applying for a 1989 Churchill Trust Overseas Fellowship to pursue your particular passion.

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STOP PRESS: Additional sponsored Churchill Fellowships offered in 1989 are:

THE GANDELL CHURCHILL FELLOWSHIP for the study of alternative methods for the raising of revenue and finance by Municipal Councils in order to discharge their local government responsibilities: (Victoria only). THE SAMUEL & EILEEN GLUYAS CHURCHILL FELLOWSHIP for study and research into the pastoral

industry particularly as it applies to the tropics;

THE A.V. JENNINGS CHURCHILL FELLOWSHIP for the study overseas in the field of domestic architecture, home building and residential planning;

THE KERN CORPORATION CHURCHILL FELLOWSHIP for the study of property development - the impact of advanced technologies;

THE DONALD MACKAY CHURCHILL FELLOWSHIP for the study of organised crime and its suppression; THE MEDICHECK CHURCHILL FELLOWSHIP in Preventative Medicine;

THE SWIRE GROUP CHURCHILL FELLOWSHIP for the study of an aspect of the Australian Cotton Industry. Applications, including references, must be forwarded not later than Monday, February 29, 1987



AUS students Matthew Swepstone, (left) and Jon Collinan build

their campfire at Icy Creek. FAO fire study

A GROUP of seven men from Indonesia, the Philippines and Tanzania have returned home with valuable information on the use of fire in forest management following a two-month tour of Australia.

The group recently com-pleted their United Nations Food and Agriculture Fire Study Tour with a week in WA

Chris Muller, Senior Fire Officer Bunbury, coor-dinated the visit to this State.

"Fire Chris said: management must be integrated with forest management, so we looked not only at the fire operations in WA, but also some of the forest operations.

Of particular interest to the group were seed tree removal in the Karri forest, and salinity control with tree plantings near Collie.

The week was packed with things to see and do, and Chris said the group often had a pre-8am start

"Australia's expertise in fire management has world recognition, a fact proven by the United Nations' decision to send these peo-

ple here. "Their job now is to translate what they've learned to their own culture, both scientifically and socially.

Chris said he thoroughly enjoyed the week he spent with the visitors, although at times he said he wished he were fluent in their languages and had more understanding of their cultures.

ed Matthias and soon they were chattering away in Swahili. It rapidly became evident that Jock G was held in God like status by Tanzanian foresters, since he had meticulously planned and recorded the initial plantings in what is now a high yielding 43,000 hectare plantation complex supporting a pulp mill and a saw mill. Unfortunately Matthias's command of the English

of Mount Kilimanjaro.

Language was insufficient to get his tongue around all the syllables of "Gilchrist", so Jock became "Mr Christ" for the day.

of W.A

Does this mean that Jock G's God like status has been reduced by 50% or has his halo merely slipped?



<u>Icy Creek camp</u> ... **STUDENTS DEVELOP EDUCATION CENTRE** By COLLEEN HENRY-HALL

A GROUP of Morley High School students, enrolled in the Alternative Upper School (AUS) programme, are transforming an empty house into an education centre at the Department of Conservation and Land Management's Icy Creek camp near Dwellingup. year saw 42 students in the

Creek.

students

responsibility.

on both sides.

The students, supervised by teachers Doug Melville and Kerry Cribb, have been working at Icy Creek periodically over the past year on a number of projects to improve the centre and camping area.

Icy Creek has been established by CALM as a place for community and school groups to camp, under canvas, away from public camping areas in the Lane Poole Reserve.

The camp is comprised of an education centre, bush amphitheatre, campsites with fire rings and tables, and toilets in a superb natural setting: a creek surrounded by tall jarrah forest.

It is available for bookings by school groups who are interested in investigating the environ-ment first-hand.

The Morley AUS group have taken over the administration of Icy Creek, handling the bookings, the finances and arranging previsit inspections.

In addition, a work party, six students out of a total of about 20 in the

programme, are rostered to what they need, because if work on various projects at the camp.

The party travels down from Perth, sets up camp and works for two or three days at Icy Creek.

Past work has seen the kitchen floor tiled, a wood stove installed and carpet laid.

According to Doug, the AUS programme "gives these students skills and helps socialise them.

"It also gives them skills to use when they've got time on their hands, helping to keep them out of trouble."

The students prepare everything for the time they will spend at Icy Creek; they plan meals buy food, pack the camping gear and the tools they will use to do the jobs.

Kerry said: "They know it's up to them to bring

they don't bring it, they go without.'

The students, through

the AUS programme, raise

the money needed to buy food and travel to Icy

Doug said that by work-

ing together and doing the

jobs that affect everyone

first and then dealing with

their own needs second, the

"A project like this is

good for the students

because they are able to see

the change and the im-

provement through their own efforts," he said.

developed good working relationships with the

CALM officers, fostered

by cooperation and respect

The beginning of the

Doug said the kids have

learn

AUS programme. The number is now down to 16 as students that

Page 3

have found work leave the programme.

In addition to projects like Icy Creek, the students do work experience, which is arranged for them through the AUS pro-gramme, Doug said.

There is scope for other AUS groups to become involved in specific projects at Icy Creek.

Some possibilities, ac-cording to CALM's Education Officer Susan Worley, are constructing a confidence course and orienteering course, development of walk trails, making trail signs or brochures for the walk trails, or field activity guides for different user groups

RANGER Ross McGill, (left) heads the volunteer collecting group in Watheroo National Park.

WEEKEND SURVEY **AIDS HERBARIUM**

By PENNY HUSSEY

NATIONAL Park Ranger Ross McGill recently added more than 80 named specimens to Watheroo National Park's field herbarium, all the result of one weekend's work.

with the project from wealth of this park. members of the WA Na- After setting up ca tional Parks and Reserves

Association (WANPARA)

who organised a weekend

WA Wildflower Society

The result was about 30

botanists eager to study the

excursion

amateur

collecting

also attended.

enthusiastic

recently.

After setting up camp the park, Jingemia Hill, a

Ross had asked for help magnificent wildflower group, which went to look at a very different area of

• WHEN Matthias Makupa from Tanzania was asked by Fire Branch Manager Jock Smart where he worked, he was told Mufindi which is a small village on the slopes Jock knew that fellow Scot, Jock Gilchrist (now retired) had worked in Mufindi and promptly rang him, introduc-

and post 7pm finish each

day. "We spent a lot of time and detail on the planning involved in fire management," he said.

"A high point was a session on the way we prescribe fire, led by Manjimup Forester Greg Mair.

Their week included a trip to Manjimup, where they were shown fire equipment, and they were especially interested in the light units and the use of foam to fight fires.

Other districts and regions visited were Bunbury, Collie, Dwellingup and Wanneroo.

All the participants were foresters involved with fire their respective in countries.

"We gave them a broad overview of our approach, how we got where we are, and some things that were directly relevant to them. such as training and equipment." Chris said

PARTICIPANTS on the FAO Fire Study Tour attended sessions held at Fire Protection Branch, SOHQ.

Getting the message through

ON a recent Sunday, Rosalie Hollands, wife of Geikie Gorge Ranger Ron, took a phone call from a Bunbury chap trying to locate his family travelling in the Kimberleys, with news of a death in the family.

Rangers at Geikie and Windjana Gorge were contacted by radio and asked if the people were in either park, but no luck.

Mobile Ranger Kevin Hughes heard the message on his way into town to catch a flight over the Bungles, and he jotted down the description and number plate of the car being sought.

Now comes the strange twist of fate.

Kevin's plane, just within sight of the Bungles, developed throttle trouble and turned back to find a safe place to land, which turned out to be the Great Northern Highway.

Kevin hitched a ride back to Halls Creek with the local policeman, and on the way met a car with a familiar number plate.

He asked the policeman to stop the travellers as he had a message to deliver.

The startled travellers were amazed and I might say grateful that the ranger service literally dropped out of the sky to deliver the message.

Needless to say, Kevin, being a hardy warrior, took to the skies again the following week and managed to get his aerial view of the Bungles.

behind the ranger's house, everyone followed Ross for a botanical ramble through the rich heath around the house block - surely one of the most beautiful front Members of the WA Naturalists' Club and the gardens of any house in the

State. During the evening, the enthusiasts got down to serious taxonomy, while the rest gathered for a

wongi around the barbecue provided by Ross and Elaine.

The next day, Kelly Gillen, Moora District Manager, joined the

chart outcrop near Watheroo.

No heath here, but woodland, including gimlet, and a very large cave.

This area also produced the botanical "find" of the weekend, a wattle known only from one other location.

Everyone thoroughly enjoyed the weekend.

Not only was it in-teresting and great fun, but it was also helpful to park management.

THE old cook house near the Millstream Homestead has been restored with a grant from the Heritage Committee.

The original oven had to be removed for the renovations, which included replacing timber posts standing inside the cook house.

The oven has since been put back.

The work was done by regional staff supervised by the Building Management Authority.

* * *

The recently completed Munjina Gorge section of the Northern Highway puts a bitumen road within just 17km of Hamersley Range National Park Headquarters.



Trevor Smith and Peter Henderson inspect historic timber baulks on a Lake Clifton property near Yalgorup National Park.

RANGER Trevor Smith has made a historic find on a farm adjoining the Yalgorup National Park.

Stopping in for lunch on a recent patrol Trevor noticed two large baulks of unusual timber lying in a paddock.

He later showed the timber to his district manager, Peter Hender-

wasp Sirex noctilio.

States and could be in-

troduced here in the future.

of the wasp is being carried

out by Dr Ross Field, of

Research Institute, Land

Protection Division of the

Department of Conserva-

tion, Forests and Lands,

Dr Field addressed the

The most recent attack

most recent seminar in

CALM's research seminar

has prompted a step-up in an inoculation programme

using the nematode Deladenus siricidicola.

Keith

the

Victoria.

series.

Research into the control

Turnbull

By COLLEEN HENRY-HALL

be the best weapon in the fight against a

PARASITIC nematodes are proving to

RANGER MAKES HISTORIC FIND

Nematode counters

son, who took a small sample for identification, and contacted the farm's owner, Mr Peter McLarty, for details.

The timber has turned

were constructed of teak from the log. help pick up the historic timber baulks and arrange for them to be proout to be Indian Teak. Mr McLarty has recallperly conserved and ed that his grandfather displayed in a museum, found a teak log washed and Mr McLarty has

wished us well in the up on the beach over 100 years ago, and snipped it project.



FIRE management on nature conservation lands was the focus of a five-day workshop hosted by CALM and organised by Manjimup Fire Research, in October.

The session attracted participants from all States and territories, representing conservation land management agencies, rural fire authorities, the voluntary conservation movement, CSIRO and tertiary institutions.

In the first two days of the workshop, speakers addressed a number of important fire management themes including: setting fire management objectives; deciding critical data requirements; selecting ap-

propriate management strategies, cooperational considerations and constraints; requirements for monitoring; social factors and public involvement. Speakers provided ex-

rabbit grazing in coastal vegetation following fire, amples from a wide range and the specific problems environments of throughout Australia.

Executive Director Syd Shea gave the opening address and also spoke on the role of public participation in fire management.

A field trip in the Leeuwin-Naturaliste Na-

Lyric for our five fighters

By TONY MOUNT, Tasmanian Forestry Commission

BECAUSE the winter weather kept them office-bound together

The Manjimup Researchers had nothing much to do So they all jumped to attention when they heard somebody mention

That "Sydney wants a workshop to bring the experts to".

So they sent to each a letter saying "If you've got

nothing better To do in '87 why not come to our fair land

Together we will fashion with skill and art and passion An everlasting method of how fires should be planned.'

The leaders of the party, under watchful eye of Smarty Were Neil, Lachie, Michelle Prie and all their motley band

They gathered us together with promises of weather With sun forever shining — far too hot for us to stand So when the sun shone brightly — they schooled us day and nightly

In a stuffy room near Busselton beside the tempting beach

But when it started hailing outside they took us sailing To every fire problem that the old school bus could reach

Thus when the rain stopped falling, 'twas then we heard them calling

"It's time to start the syndicates so fire can be planned" So seven experts wrangled over fire problems tangled Up with people, parks and politics all up and down the land

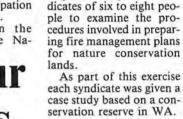
Side by side we worked together juggling fauna, fuel and weather

Into one united document to deal with every fire Each group, its task completed, eight times to all repeated

The measurable objectives to which we should aspire But now our task's completed and your problems we've defeated

Home we now must wander back to bother and to fuss Adieu, CALM, you've collected, four park plans all corrected

Now you must come back our way and do four for each of us!



The reserves chosen were Walpole-Nornalup National Park, Dryandra Forest, Fitzgerald River National Park and Hamersley Range National Park.

tional Park provided a

focus for discussion of a number of issues including

protection requirements

for coastal settlements,

posed by the large number

the workshop, the par-ticipants were put into syn-

For the final two days of

of caves in the area.

CALM staff with experience in each of these were on hand to provide detailed local knowledge, and a wide range of other resource information was also available.

Workshop convenors Neil Burrows and Lachlan McCaw were generally pleased with the outcome of the workshop.

Neil said: "The syndicate exercise highlighted a number of important steps in the fire management planning process, and these should for a useful checklist for planners in the future."

The workshop proceedings will be published by CALM following editing of the papers and collation of results from the syndicate exercise.

In addition to the formal programme, the workshop also provided a chance for CALM staff to discuss issues with counterparts elsewhere from in Australia.

A slide show by Pilbara Regional Manager Tony Start, a limerick competition, and a poem by afterdinner speaker Tony Mount contributed to a successful conference dinner on the Thursday night.

FACELIET

Pine wasp wasp that is killing pines. More than a million The nematode works in Pinus Radiata trees have two ways to control the died in southeastern South spread of the Sirex wasp: it Australia and western Vicinvades the wasp's eggs, toria after attacks by the and feeds on the fungus intended for the wasp; or it The wasp has not yet parasitises Sirex larvae, rendering them sterile in their adult phase. been recorded in WA, but it has invaded all other

"If we can inoculate about 20 per cent of the dead trees that are playing host to Sirex, we might have some chance of noticeably decreasing the wasp population next year," Dr Field said.

But he added that he thought the one-million tree death estimate was conservative, and that only about 150,000 trees could be inoculated, a far lower number than was necessary to control the wasps. "The problem could be

just as bad next year," he said.

Trees are actually killed by the fungus that the egglaying female injects with

her eggs into the tree. The female will only lay eggs in stressed trees, ones that have undergone recent thinning, are not getting enough water or have recently had a fire through

them. Early symptoms of wasp infestation are drops of sap from the egg holes.

Other signs are red or brown tops of stricken trees, resin flows, and fungal stains in the bark. Dr field said "Sirex is here to stay, and there will always be some en-vironmental factor over

which we will have no control, such as drought and fire, that will provide Sirex with suitable trees."

He did suggest a number of ways to decrease the possible occurrence of Sirex:

to the farm for pitsawing

Some of the fittings

CALM has offered to

and furniture in the house

on site.

· timely selective thinning or reduced tree competition and the removal of suppressed, deformed, multi-stemmed trees and those that are dying or diseased;

 early salvage of trees damaged by wind, hail and lightning; minimise injury to

trees from fire and silviculture practices;

· avoid planting on steep slopes where thinning can not be done;

 restricting high pruning and noncommerical thinning to periods outside the insect's flight season, between May and November:

routine • and surveillance by foresters to check for infestation.

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POLICE PRAISE RANGERS

NATIONAL Park Rangers Noel Nannup, Bruce Woodley and Robert Cheedy came in for high praise lately from the police at Port Hedland for their help in a search for a missing man at Millstream.

And Pilbara Regional Manger Tony Start also some good words for the three: "I would like to add my own thanks to you for your immediate and thorough response to the call for assistance.

"I know that the police place great reliability on the effectiveness of national park rangers in emergency situations.

"It is your response to calls such as this one that has earned the reputation you have.

Staff

Allan Briggs, Regional Leader Planning, and Warren Tacey, Planning Liaison Officer both from the Northern Forest Region, left late in October on a six-week Rotary Group Study Exchange visit to Thailand. While there, they will study forestry in northern Thailand and make business and similar work

Appointments

Hugh Clift has been appointed Librarian-in-Charge at Woodvale. Promotions

news

Aubrey Fretz has been appointed sub-accountant at Como. Ms Rae Bur-rows has been promoted to Education Officer. Manjimup.

Transfers

David McMillan, Forester, from Karratha

Mead, Forester, Dwellingup to Karratha.

Rob McGeachin has been seconded to State Treasury. He has been replaced by Lorraine Doherty from the same Department.

Retirement

Deryck Woodford, Timber Production, Como, has retired after 10 years' service beginning in Registration with

CALM News is the Department of Conservation and Land Management's monthly staff newspaper.

We hope you will become involved in its publication by sending articles (up to 400 words), letters, photographs (with captions), minutes from meetings and items of interest to: Colleen Henry-Hall.

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AYMAN

THE Layman picnic area, the site of the recent launch of the Ludlow Tuart National Park, will be renovated under the direction of Busselton District Forest Ranger Nick Read.

A loop road will be put through the picnic area, with barbecue sites and tables located adjacent

The car park will be upgraded to cater for buses and caravans and a greater number of cars.

More picnic tables will be placed throughout the site.

Nick said the walk trail, which passes a former saw pit and some older tuarts, will be upgraded and signposted with interpretive information and directions.

He said the work is slated to be finished under next year's budget.

