

# CALM NEWS

DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT

COMO RESOURCE CENTRE  
DEPARTMENT OF CONSERVATION & LAND MANAGEMENT  
WESTERN AUSTRALIA  
June-July 1992



CALM forester Alan Hordacre casts an approving eye over a tree-planting exercise carried out by Fairview Primary School year five students Kim Bissaker and William Hammond. Kim and William were among thousands of students throughout WA who took part in Arbor Day celebrations. For more on this annual event see page 3.  
Photo courtesy Collie Mail

## Scrub-birds established in new home

by Andrew Burbidge

WITH help from the Channel 10 helicopter, five male noisy scrub-birds were translocated to Bald Island Nature Reserve in June.

When re-discovered in 1961, there were fewer than 100 scrub-birds left in one colony at what is now Two Peoples Bay Nature Reserve, 40 km east of Albany.

Since then, the implementation of a fire management plan at Two Peoples Bay led to an increase in numbers of scrub-birds, and to the establishment of two new populations through natural spread.

Translocation began in 1983, with a population being established at Mt Manypeaks within Waychinicup National Park, and a further population has since been established at Mt Taylor, in Gull Rock National Park, just to the east of Albany.

### Breeding territories

In 1991, there were 293 singing males defending breeding territories, compared with about 40 in 1961.

Not all translocations have been successful.

Attempts to establish scrub-birds in Nuyts Wilderness in the Walpole-Nornalup National Park and near Owingup Swamp in Quarram Nature Reserve have failed for no apparent reason.

In 1991, the Noisy Scrub-bird Recovery Team was set up comprising representatives of CALM (Albany District and Research Division), CSIRO Division of Wildlife and Ecology, the Australian National Parks and Wildlife Service, the Shire of Albany and noisy scrub-bird volunteers.

A recovery plan has been almost finalised.

Earlier this year, permission was gained from CALM and the National Parks and Nature Conservation Authority to try a translocation to Bald Island Nature Reserve, about 25 km east of Two Peoples Bay.

The advantages of Bald

Island include protection from fire and the absence of introduced predators.

Initial reconnaissance by Alan Danks, the CALM officer in charge of the project, revealed that suitable scrub-bird habitat existed in the southern parts of Bald Island.

The problem was how to get the birds to the island in mid-winter - the only time that scrub-birds can be captured.

### Stress

A sea voyage would have been difficult, if not impossible, because of winter storms and would have meant considerable stress for the birds, not to mention the people involved.

The only feasible means seemed to be by helicopter, the cost of which was beyond the resources of the Recovery Team.

Fortunately, Perth's Channel 10 agreed to provide a helicopter at minimal cost to CALM in return for exclusive rights to the story.

At the time, CALM had a request from the Royal Australasian Ornithologists Union that we facili-

tate a visit to Two Peoples Bay by well-known ornithologist and comedian Bill Oddie, who was in Australia to promote bird conservation.

Bill's presence increased the appeal of the project for Channel 10, who ran a major feature during their news on June 16.

The team set up to capture scrub-birds for translocation to Bald Island this year comprised Alan Danks and Dave Wilson (Two Peoples Bay Nature Reserve), Ian Wheeler (Manjimup Research), Peter Cale (volunteer) and Clare Welbon, an Honours student at Murdoch University who is studying scrub-bird food requirements.

Despite strong winds for several days before the helicopter arrived, five males were captured and flown to Bald Island, then released to try out their new home.

Only males are selected for the first year of a translocation project.

If the males are still present on Bald Island in the winter of 1993, females and further males will be moved next year.

Does anyone have a spare helicopter they can lend us next year?

## Directors appointed

THE Public Service Commission has confirmed the appointment of Dr Jim Armstrong as Director of Research and of Keiran McNamara as Director of Nature Conservation.

The appointments were announced recently by Executive Director Dr Syd Shea as part of a readjustment of CALM's structure to make it more effective and responsive to a rapidly changing environment.

### Reorganisation

As part of this reorganisation, all directors will report to the Executive Director.

The General Manager Roger Underwood will absorb the duties formerly

carried out by Jim Edwards before he retired from the position of Director of Operations.

All Regional Managers will report to the General Manager.

In addition to line control of Regional Managers, the General Manager's principal task will be to ensure the integration of the three principal programs (nature conservation and wildlife; tourism and recreation; forest resources) into departmental operations.

Dr Frank McKinnell has been appointed Director of Project Management and his current responsibilities transferred to other Directors.

His role will be to head up major projects within

the Department and to deal with major external interactions between other Government agencies and the private sector.

### Overseas projects

In this role he will also be responsible for coordinating overseas projects.

A new Director of Finance and Technical Support also has been created.

Dr John Byrne has been placed in this position in an acting capacity, and he will be responsible for the Finance Branch, Information Systems and Land Information Branch.

The Director of Corporate Services Alex Errington gains the Records Branch and En-

vironmental Protection Branch.

Ron Kawalilak has been appointed Director of Corporate Relations after acting in this position since February 1991.

The role of Regional Managers will be reinforced and while it is intended to maintain the existing Districts wherever possible they will function as integrated units.

This means the District structure will not be a replica of the Regional structure.

Further minor adjustments and some staffing changes are expected to flow from these appointments and restructures and will be announced over the coming weeks.



Reserves officer Alan Danks loads a transfer box with two scrub-birds into the Channel 10 helicopter.  
Photo by Andrew Burbidge



Returning recently from a month's long service leave, most of which was spent happily planting trees in the Avon Valley, I found myself embroiled in the difficult issue for CALM of herbicides and jarrah stand improvement (JSI) work.

Herbicide use has long been an environmental and public health issue. Now it is also an industrial one.

To fulfil its forestry obligations and ensure good regeneration and stand development, CALM has to carry out culling work in cut-over and regrowth jarrah stands. Some of this work (especially regeneration areas) can be done with machines. The most efficient way to do this is to use the same machines that haul logs in timber production operations. In other areas we have to use herbicides applied manually by CALM staff. No cheaper effective method is known to control coppice regrowth on stumps or to reduce the competition for crop trees in dense regrowth areas.

Herbicides are used massively in the agricultural industry in WA and seem to be accepted by the community in that environment.

In the forest and in CALM it is a different matter. Some staff are deeply concerned about the possible health effects of using herbicides, and this has led recently to restrictions on jarrah stand improvement work in some districts. It has also led, unhappily, to the issue becoming portrayed as a "them against us" industrial dispute.

I would like to reaffirm that CALM's senior management shares with all staff the desire for a safe working environment. We are absolutely committed to the department's Health and Safety program, and the results over the years prove this.

Our approach to JSI is to minimise herbicide use (especially the use of TCH) and to use only herbicides for which we have a full clearance from the Departments of Health and of Occupational Health, Safety and Welfare. We are also committed to work with staff to ensure the safest possible methods of application. Finally, we are doing everything we can to improve utilisation of "cull" trees so as to make JSI work unnecessary. This won't happen overnight but it is the best solution of all.

Roger Underwood, General Manager

## STAFF NEWS

### Appointments

Roy Fieldgate - promotional appointment to Program Manager, Land Information, Como, from DOLA; Don Herbertson, Admin Assistant, Dwellingup; Kylie Dyson, Officer, Woodvale; Aminya Koch, Forest Ranger, Planning Branch, Pinnacle House.

### Promotions

Keiran McNamara, Director Nature Conservation, Crawley; Jim Armstrong, Director Research, Research Centre, Crawley; Roger Foxlee and Gary Robinson to District Forester, Communications Branch; Bob Hagan, Regional Operations Officer, Manjimup; Jude Allan, Environmental Officer, Environmental Protection, Como; Grant Revell, Senior Landscape Architect/Planner, Recreation and Landscape, Mt. Pleasant; Greg Oliver, Reserves Management Officer, Karratha; Greg Lynch, Project Leader, Timber Supply, Como; Peter Mapson, Programmer, Information Systems, Como; Andrew Morton, District Manager, Walpole; Vicki Hamley, Technical Officer, Herbarium, Como.

### Transfers

Russell Bone, Forester, to Moora; Phil Durell, Forester, Manjimup Region; Bill Muir, Technical Officer, Woodvale; Janine Rosman, Officer, Timber Supply, Como; Brendon Peet, Forest Ranger, Pemberton; Steve Raper, ADFO, Dwellingup; Martin Scantlebury, Forester, Nannup; Paul Van Heurck, Technical Officer, Woodvale; Graeme Gardner, Forester, to Busselton; John Carter, Reserves Officer, Mundaring; Grant Pronk, Forest Ranger, Inventory, Bunbury; David Atkins, Forest Ranger, Mundaring; Dave Caudwell, Admin Assistant, Geraldton; Brad Ellis, Forest Ranger, Nannup.

## CALM NEWS - JUNE-JULY 1992

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Published by CALM Corporate Relations Division, Cygnet Hall,  
(cnr) Mounts Bay Road & Hackett Drive, CRAWLEY, Western Australia 6009  
Telephone: (09) 389 8644 Facsimile: (09) 389 8296

Deadline for CALM NEWS is the 10th of the preceding month.

PRINTED ON 100% RECYCLED PAPER



## Obituary

CALM staff throughout Western Australia recently paid tribute to their friend and colleague John (Jock) Smart - a national leader in bushfire control and fire management - who died in Busselton on June 22.

Jock retired from CALM in December, 1991 as manager of CALM's Fire Protection Branch following 32 years of service in both CALM and the Forests Department.

Jock was nationally recognised as a leader in bushfire control and fire management, and was manager of the Department's Fire Protection Board for eight years.

Before this he was regional manager of CALM's Southern Forest Region at Manjimup for six years, and a district manager at several CALM districts including Busselton, Margaret River, Harvey and Nannup.

In 1990, Jock led a fires inspection tour of China, and in 1985 participated in an Australian fire study

tour of America and Canada.

One of his greatest achievements was the coordination of the new Southern

Forest Region during the establishment and development of the woodchip licence operations in the 1970s.

CALM Executive Director Dr Syd Shea said Jock's commonsense approach to the many complex issues that arose at that time was a major contribution to the successful working arrangements that developed between all parties involved.

"Jock gained great respect among his colleagues for his ability to dissect a problem and implement effective, uncom-



Illustration by John Goodlad

plicated solutions," Dr Shea said. "He was an immensely practical person renowned for his great sense of humour and dry wit.

"He was able to establish life-long friendships with a wide array of people, and his passing will leave an enormous gap in the lives of all of us who are proud to call Jock our friend."

Jock died in his Busselton home following a long illness.

He is survived by his wife Meg and daughters Anne and Christine.

# Westweek

THE annual Westweek exhibition in Forrest Place found John Forrester National Park senior ranger George Duxbury (left) 'educating Jamie' at lunchtime on the last day.

James (Jamie) Smith is a clerical officer with the Corporate Relations Division and was responsible for packing, transporting and erecting the display then dismantling it and bringing it back to storage "with nary a scratch on it."

Well done, James!

Not that George was idle - there were visitors other than James. "But not as many as last year," George said.

"It's very disappointing but let's hope those we did see took the CALM conservation message to heart and, of more importance, let's hope they act on it."

Others who staffed the display at Forrest Place were rangers Keith Kickett, Mark Moore, Jim Smith, Brad Cockman and Martin Lloyd.

Photo by Verna Costello

## Library updates forestry information

USING the latest information retrieval technology, the CALM library at Como can provide up-to-the-minute information on forestry and related subjects.

A CD ROM disk called TREE CD covers all the information printed in forestry abstracts from 1939 to 1991, forest products abstracts from 1978 to 1991, and agroforestry abstracts from 1988 to 1991.

The disk is to be revised annually and covers abstracts of books, journals, technical reports, patents, confer-

ences, theses and other materials from over 100 countries.

CALM staff are welcome to use the data base at Como or to provide a diskette (three-and-a-half-inch or five-and-a-quarter inch) accompanied by a request for information.

The information can be downloaded onto a diskette and sent to anyone in CALM or in the forestry industry.

Hard copy printouts can also be provided.

For further information, please contact Julie Ellender on 367 0324.

## LETTERS TO THE EDITOR...LETTERS TO THE EDITOR...LETTERS TO THE EDITOR

Dear Mr Kawalilik  
Your last edition of CALM News covered the proposed ban on recreational duck shooting through amendments to the Wildlife Conservation and CALM Acts.

We are particularly pleased to know that CALM is strongly enforcing the laws which protect native waterbirds from illegal shooting throughout the State.

Our concerns have always included the damage to habitat which occurs during duck shooting seasons, when vegetation is removed to make hides; vehicles are often driven up to the edges of lakes over fragile vegetation; and rubbish, including plastics,

is left behind to pollute the environment.

The destruction of nesting hollows in trees which CALM has mentioned in the article, is another aspect of duck shooting which we deplore.

We congratulate CALM on its enthusiasm in protecting our wildlife and look forward to a new era when waterbirds are protected from 'sports' shooters for 365 days a year.

Yours faithfully,  
Joan Payne & Sally Carryer (Convenors)  
Coalition Against Duck Shooting (C.A.D.S.).

Dear Sir,  
I have received LANDSCOPE or Forest Focus since 1977 when I then lived in Perth.

I now have a good collection and find it a great source of information. My own children are at that age where usage of these publications is increasing when they are working on their school assignments.

I would like to take this opportunity to congratulate the staff and others connected with the magazine

for its beautiful finish, top quality photography and information on your parks and wildlife.

It is a credit to you all. I only wish that Queensland's Forestry Department and the Department of Wildlife and Heritage could produce a similar publication covering this great State of Queensland.

Keep up the good work.

Lloyd R. Davies  
Cabarah, Queensland.

Dear Sir/Madam  
May I offer my thanks as a resident of Ocean Farms for the efficient way that Ken Borland of your staff handled the fire that occurred in your reserve.

He is to be congratulated on the way he preserved the natural trees in

the area of the fire but still controlled the burn.

I hope men of his standing remain in this district. It made me appreciate their value and CALM officers and you will always get my wholehearted support.

Please convey my thanks to Ken - he went over and above his duty.

D P Early  
Volunteer Ocean Farm Bush Fire Brigade

## CALM Classified

THIS column is divided into sections dealing with 'for hire', 'for sale', 'surplus equipment', 'swap', or 'wanted'. If you have any equipment or requirement that you wish to advertise through this service, please send or fax type-written details to:

The Editor,  
CALM NEWS,

Corporate Relations Division

### For Hire

Lewis saw with experienced operators. \$30.00/h plus wages and plant. Contact Peter Moore, Collie 341 988.

### For Sale

Cafe Bar - Series 6A. Very good condition. New hot water element. Coin operated. Facilities for tea,

coffee, chocolate, milk, sugar, soup. Make an offer! Contact Lynne Oakes, Dwellingup 538 1078.

### Surplus Equipment

1 off 3-point linkage slasher. Contact Jim Raper, Collie 341 988.

### Wanted

Chairs in very good condition. Preferably

ergonomic or similar. Contact Lynne Oakes, Dwellingup 538 1078.

One D3 desk or ergonomic desk. Can exchange with a D4 desk. One adjustable footrest. Can exchange with a fixed footrest. Contact Warwick Boardman, Como, 367 0472

# Arbor Day

TREES FOR ALL REASONS



More than 7 000 entries were received from 140 schools throughout WA in the Arbor Day Poster Competition sponsored by LANDSCOPE magazine and Radio 6WF. Communications officer Helenka Johnson (left) and graphic designer Susan Marais tackle the difficult task of sorting the entries into the excellent, the very good, and the slightly less so. According to Helenka and Sue, their task was extraordinarily difficult owing to the high standard of entries. Winners were announced on Tedd Bull's breakfast show by CALM's Executive Director Dr Syd Shea.  
Photo by Vema Costello



While the folk group The Darling Rangers sing *Waltzing Matilda*, schoolchildren act out one of the scenes from the song on stage at the Matilda Bay celebration. Some of the posters received in this year's children's Arbor Day Poster Competition can be spotted in the background.  
Photo by David Gough



Environment Minister Bob Pearce joined Perth schoolchildren at CALM's Arbor Day celebration at Matilda Bay Nature Reserve on June 5. A native tree was planted, songs in praise of the environment sung, and native tree seedlings taken home to plant. CALM's Community Education Section also treated attending schoolchildren to activities designed to let them learn more about the role of trees in our lives. The theme for this year's Arbor Day was Trees for all Reasons.  
Photo by David Gough

## ...and the history

ARBOR Day was first observed in Australia on June 20, 1889 in Adelaide.

In Western Australia, the celebration of Arbor Day was provided for in the Forests Act of 1919, and now in the Conservation and Land Management Act of 1984.

The date for its celebration is fixed each year by the Minister for the Environment to coincide

with the Day of Trees during Western Australia Week.

Arbor Day originated in the United States of America and was first observed in Nebraska in 1872. The idea was one of forest conservation.

It promoted replanting following deforestation, and the planting up of treeless areas.

The idea has spread widely to other lands

where it is celebrated as the *Festival of Trees* in Japan, *The New Year's Day of Trees* in Israel, *The Tree-loving Week* in Korea, *The Reforestation Week* in Yugoslavia, *The Students' Afforestation Day* in Iceland and *The National Festival of Tree Planting* in India.

Arbor Day in its various forms is now recognised in more than 50 countries.

## Meziella rediscovered

THANKS to the recent rediscovery of *Meziella trifida* by CALM senior research scientist Greg Keighery, Western Australia now has no extinct plant genera.

According to Greg, the elusiveness of *Meziella trifida* has baffled botanists since 1840, when Ludwig Preiss collected a specimen from the shores of a lake near Albany.

"But Preiss's specimen, the only known specimen until now, is fragmentary and doesn't include fruit," Greg said.

"Being a member of the Haloragaceae family, fruit are needed to determine relationships between members of the family.

"However, this small amount of material was so distinctive that *Meziella trifida* was placed in its own genus.

"As Preiss's specimen was from a lakeside it was assumed that it was a semi-aquatic herb, so I've been searching lakesides and claypans for *Meziella*.

"Most of the areas where I expected to find the plant had been cleared and despite searching suitable habitats I was unable to locate it.

"In 1991, the Australian National Parks and Wildlife Service funded a rare plants survey of the Scott River Plains, east of Augusta.

"This area is the most

westerly part of a series of seasonally waterlogged coastal plains stretching from Albany to Augusta.

"At the conclusion of the survey, I checked an outlier of the Scott Plains in Chester forest block for populations of the plants we'd identified in the survey.

"In one of the swamps I found a prostrate-fruited, red-leaved herb with spiky-looking fruit, rather like miniatures of the sea-mines used with such devastating effect during World War II.

"I didn't recognise the plant immediately so I collected it for future identification and some six months later was amazed

to find the plant resembled no plant I'd seen before.

"However, I did recognise it as a member of the Haloragaceae family and immediately compared it with the description of *Meziella* (based on Preiss's incomplete specimen) in Tony Orchard's *Flora of Australia*.

"My plant appeared to match this description, so I sent material to Tony and within days he confirmed my identification.

"An excited Tony said he believed it was a find of such significance that he'd already started preparing a paper on it, which I'll co-author and submit for publication in the WA Herbarium Journal, *Nuytsia*."

## Dryandra conservation

by Helenka Johnson

AS HOME to some of the State's rare animals such as numbats, woylies and mallee fowl, Dryandra State Forest, in the wheatbelt, is an important conservation area.

The wheatbelt, originally comprising wood and shrublands, has been largely cleared and remaining areas of natural vegetation, particularly the larger remnants like Dryandra, have therefore assumed major conservation significance.

To protect the important values of Dryandra State Forest, CALM has initiated a Draft Management Plan which is being prepared by wheatbelt planning officer Anthony Sutton.

According to Anthony,

involving the local community in the preparation of the Dryandra Draft Management Plan is essential.

"Local people have had many years' experience with their environment and by involving them, better quality decisions can be made and implemented more effectively," Anthony said.

### Public responses

There were 45 responses from the public, both locally and from Perth, to the request for comments about the area.

Thought-provoking con-

tributions were received from the Kooraminning Committee of Narrogin and the local TAFE college regarding Aboriginal cultural interests.

A number of naturalist clubs, as well as private citizens, have responded, commenting on a wide range of issues.

In addition to the written comments, Anthony has gathered a great deal of information from talks with local residents and CALM officers.

After analysing the responses Anthony will write the draft plan, which he hopes to complete early next year.

Once the Draft Management Plan is completed and approved by the NPNCA, it will again be open to the public for comment.

# Nyungar culture in Walyunga



Dr Peter Bindon (left facing) describes the possible significance of the quartz outcrop in Walyunga National Park to CALM rangers and wildlife officers. Story and photo by David Gough

PENNY Hussey, Trevor Walley and Bouyden Yarren, from Wildlife Protection in Como, joined National Park Rangers Ross McGill, Hardy Dershow, Karl Mucjanko, Keith Tresidder and Tony Tapper for a tour of Walyunga National Park with Dr Peter Bindon, Head of Anthropology at the WA Museum.

The tour was organised by Trevor Walley, at the request of Ross McGill and George Duxbury, to give the wildlife officers and national park rangers an appreciation of the history and culture of the local Nyungar people, who used areas of the park as regular camping and meeting places.

## Customs

The long-term plan is to be able to provide an interpretive and educational program on Nyungar customs and their hunting and gathering techniques.

The tour began at the archaeological site to the west of Walyunga Pool carpark.

Here, Peter described the way the area was used as a camping ground and tool-making site.

He explained the way in which the museum is able to date artefacts found in such sites and estimate the length of time sites were used.

One particular rock for which the area was known

is Mylonite. This rock flakes when struck and the flakes were used to make cutting tools, sharpening tools and, when glued along a smooth stick, produced sharp serrated knives.

Near to this camping ground was a small area thick with yams, which were dug out and eaten.

The next area visited was the Walyunga Heritage Trail, which runs upstream from Walyunga Pool. Here, Peter described in detail the various topics covered by the signs along the trail.

After lunch, the group went to a remote part of the park to view a large quartz outcrop which was believed to be a quarry site.

Although the site was very interesting, Peter was not sure it was a quarry since there was no immediate evidence of manufacture of rock tools.

All of the rock pieces appeared to have been produced by rock breaking and cracking from the heat of bush fires. However, Peter said the site warranted further investigation.

The day's activities ended with a demonstration of fire-lighting using the dry stems from the blackboy grass-tree.

## Museum visit

As a follow-up to the field trip around Walyunga, the participants were taken on a 'behind-the-scenes' tour of the WA Museum to view some of the Aboriginal artefacts from Walyunga area.

## Tall tales and true on tape

ORAL historian Julia Ball has recently recorded retired CALM forester Len Talbot's recollections and knowledge of the Mundaring area for an innovative CALM project.

Information and anecdotes provided by Len will help form the basis of an hour-long audio-cassette that can be played by visitors travelling through the Hills Forest.

by Lotte Lent

Some of the likely highlights on the trail cassette will include Aboriginal use of the area, early timber-getting, weir construction, the tale of the Spanish bushranger, ambush at Chipper's Leap, and stories about the lives of foresters in the early days.

The cassette is also ex-

pected to include a musical component featuring songs from and about the area and which could be made available for sale or hire.

The trail is visualised as beginning just west of John Forrest National Park on the Great Eastern Highway and continuing to Mundaring township.

It would then travel through winding forest roads past Jacoby Park,

Mundaring Weir, the Dell, through to Kalamunda then up past Gooseberry Hill National Park to form a loop.

Several opportunities will be provided for visitors to get out of their cars for a picnic or to take

a forest walk at areas of historical interest.

Anyone with information or ideas for stories to be included on the cassette is invited to contact Stev Slavin at the Hills Forest Office on (09) 295 2244.



Oral historian Julia Ball listens to tales of Mundaring forest as recalled by retired CALM forester Len Talbot. Photo by Grahame Rowland

## Swan Region first

SOME 650 colour slides covering each of the 27 species of rare flora occurring in the former Northern Forest Region have been compiled into a presentation program to assist staff identify species.

The high quality slide presentation includes close-up shots of

by Mike O'Donoghue

each species, with general shots of the habitat, showing associated species, topography and soil types.

The program, which comes with a clear, concise commentary and

background music, was compiled by CALM conservation officer Les Robson.

The presentation will be shown to staff in District Offices and will be made available on request to other Government agencies and interested conservation groups.

## Kimberley currency

by Chris Done

BUSH currency has been around for generations, and in times of budget cuts Kimberley bush currency has never been more important!

For example, we recently baby-sat a 35 ton track excavator for a mining company at Windjana Gorge in exchange for services rendered.

With the machine we dug pit toilets five drums deep, with park rangers Dave Milne and

Ernie Fagan placing four lots of five-drum sets into the excavated trenches.

We now have pit toilets that go half way to China and enough capped pits to last ten years.

Along similar lines, we recently provided advice and made some directional signs for La

Grange Mission in exchange for a \$10 000 tankstand the Mission no longer needed.

When Gascoyne Trading transported the new Geikie boat from Perth free of charge, we saw to it that the event received well-deserved publicity.

Four cartons of beer purchased \$3 000 worth of grader work and an annual box of mangoes from CALM's Broome Nursery secures dis-

count express bus freight for the West Kimberley District.

Tour operators deliver goods, mail and services to all parks, while we recently agreed to supply 3 000 trees for Fitzroy Crossing street-scape in exchange for \$6 000 worth of roading in Windjana Gorge.

Without a doubt, 'No-money Kimberley currency' is alive, well and flourishing.



CALM and tourists alike benefited from the Gascoyne Trading Company's offer to transport the new Geikie Gorge boat from Perth. Photo by Grant Lamb

# Growing success

by  
Tanya Maxted

CALM's Narrogin Nursery is self-funding for the first time - and is now being operated as a business.

Run by forester Greg Durell and CALM officer Sharon Hann, the nursery (accredited by the Nursery Industry Association) began sales in May with about 60 000 individual potted seedlings going to the Goldfields for revegetation programs run by CALM, conservation groups, mining companies and other organisations.

A further 300 000 trees in trays are going to farmers and Shires, and to the Main Roads Department for planting programs.

CALM's Wheatbelt Region takes about 40 000 trees for local planting on nature reserves and rehabilitation sites, and for the wheatbelt sandalwood establishment program.

Last year the nursery had more than 700 orders. As well as Narrogin-grown stock, CALM's Manjimup Nursery provides an-

other 78 000 trees for sale at the nursery.

Greg Durell said that about 200 species were grown for sale, mostly drought-resistant and salt-tolerant species.

The biggest sellers were salt-tolerant species such as the flat-topped yate (*Eucalyptus occidentalis*), salt river gum (*Eucalyptus sargentii*), red river gum (*Eucalyptus camaldulensis*), flooded gum (*Eucalyptus rudis*), and salt sheoak (*Casuarina obesa*).

The nursery services a huge area from Williams to Kalgoorlie and Esperance to Dalwallinu - basically the wheatbelt, goldfields and south coast.

Tree orders are delivered to clients throughout this area.

In conjunction with rural advisory officer Peter White, Narrogin nursery staff advise clients on the most appropriate tree species for particular sites and purposes.



Gearing up for the sale season at CALM's Narrogin Plant Nursery were nursery workers (from left) Clarke Tassell and Geoff Leake, officer Sharon Hann and forester Greg Durell. Photo by Tanya Maxted

## Annual army invasion

**THE forests around Mundaring were invaded recently by the army.**

For the second consecutive year a joint exercise between the Army Reserve and CALM saw engineering works completed that otherwise would have been financially unviable.

This program is part of what has now become an annual camp for the Army Reserve Engineers.

During this time practical skills such as laying mines, booby trap training and water supply techniques are covered, and the engineers gain a familiarity with field machinery.

Coordinating the Department's involvement was forester Kevin Pollock from Mundaring District, with the 11/28 Battalion Pioneers carrying out the works under the direction of No 13 Field Squadron's warrant officer Ron Dupey.

The army was given instruction in chainsaw use and tree-felling techniques by overseer Tom Niven and forest worker Brian Selk.

"It's great to have guys assisting us who do this work for a living," warrant officer Dupey said.

"Some of the army guys have never used a chainsaw and they soon learned they could be downright dangerous if not properly used.

"This year's work involved the installation of several culverts and a bridge in the Lesley Block as well as a grading program near the disused Barton's Mill prison site.

### Fox holes

"Participants erect their own accommodation which they build up as a defence position with fox holes, a minefield and so on," warrant officer Dupey said.

"There was an old, partially burnt stringer bridge, and as the Battalion had completed demolition training, they blew it up, cleaned up and then put the culvert through.

"This is rewarding work because it's realistic, it's productive and it helps CALM achieve some of its objectives which, in turn, benefit the community as a whole."

With the disused prison located in the heart of Mundaring District it is hoped that such work may be expanded to include

by Grahame Rowland

projects currently being planned for the Hills Forest.

These include a treetop walkway, amphitheatres, a comprehensive overhaul of the walking tracks, a viewing platform at Mount Dale and a new recreation area at Ball's Green near the district office.

Kevin Pollock sees a lot of scope for these cooperative efforts.

"Rather than taking work away from CALM crews, it allows them to share their skills with others on projects that otherwise may not be completed, or at least not in the same time frame," Kevin said.

"It also gives our staff a chance to work with new equipment as well as liaising with a broader cross-section of the community.

"This will be an integral part of what we are trying to achieve in the Hills Forest and in this instance we are lucky to have people with the skill and dedication of the army," he said.

At the conclusion of

the program, the three CALM staff were invited to an army dinner at Barton's Mill where, on behalf of CALM, Kevin Pollock thanked the Battalion for its work.

A shield commemorating CALM's assistance was presented by warrant officer Dupey and was accepted with thanks on CALM's behalf by Tom Niven.

## School exercise to lure migratory waders

**SOUTH Perth Primary School children and teachers, with help from CALM rangers, Perth Zoo staff and South Perth City Council staff, recently took part in an ambitious planting exercise at Milyu Nature Reserve, South Perth.**

The whole school came out in force to plant 650 plants and seedlings.

These included salt water paperbarks and casuarinas as well as the sea rush (*Juncus kraussii*), white myrtle (*Hypocalymma angustifolium*), and *Lechenaultia florabunda*.

### Propagated

The seeds were collected by the students, then propagated and cared for by Parks and Gardens staff of the City of South Perth.

The purpose of the exercise was to revegetate the foreshore in order to attract the migratory wading birds that once visited the area in much larger numbers.

Twenty-two species of migratory birds have been sighted on the tidal flats of the Swan River, some of them coming from as far away as Siberia and Alaska.

Native birds are also expected to benefit from the rehabilitation of the habitat.



CALM reserve maintenance assistant Glyn Hughes helps students with their revegetation exercise at Milyu Nature Reserve, South Perth. Photo by Verna Costello

## LANDSCOPE wins commendations

**THREE articles published in LANDSCOPE have earned their writers awards in competition for the annual Alex Harris Medal which honours excellence in science and environmental writing.**

Steve Hopper, for *Poison Peas: Deadly*

*Protectors*, an article on WA native poison plants; Jack Kinnear and Dennis King, for *1080: The Toxic Paradox*, an article on the role of WA's poison plants in controlling introduced predators; and Paul Anderson, for *Sea Pigs of Shark Bay*, an article

on the dugongs in Shark Bay, received three of the five commendation certificates awarded by judges.

Winner of this year's Alex Harris Medal was Wendy Prior of the *West Australian* for a series of articles on threats to Perth's underground water supplies.

# Meet Melissa

MELISSA Ford is a familiar face at Katanning District office.

Katanning born and bred, Melissa moved to Perth in 1987 to attend business college.

After successfully completing her course, she decided that office work was what she wanted to pursue but she preferred home in Katanning to live in Perth.

Back in Katanning Melissa became involved with a local joblink scheme called KANWORK which is run by a community-based committee funded by the Department of Employment and Education Training (DEET).

by Greg Leaman

After completing a six-month training program at KANWORK she moved to the Commonwealth Employment Service (CES).

It was at this point that CALM's Katanning District Manager, Greg Leaman, was looking for a temporary replacement for clerk/typist Jeanette Vann, who was taking maternity leave.

Greg also made it known in his area that he wished to recruit more Aboriginal people, so he was put in touch with Melissa, who joined the

office in January, 1991.

After a six-month training period she was given a temporary position, and when Jeanette resigned in March, 1992, Melissa was made a permanent employee.

Early this year Melissa, who was KANWORK's first trainee, was elected as its secretary.

Greg is very pleased with the work that Melissa is doing and with the success of the Training for Aboriginals Program run by DEET.

As for Melissa, she says she's very happy working with CALM in Katanning, doing a job she enjoys.



Melissa Ford hard at work. Her duties include financial administration, word processing and general office duties. Photo by Greg Leaman

## Roadside rare flora markers

RECENTLY all declared rare flora populations on the Shire road reserves in the Shire of Kent were marked with standardised roadside markers.

Placement of the markers throughout the Shire of Kent was undertaken as a joint project by the Shire and CALM's Katanning district. Most of the markers were manufactured in the Shire's workshop, largely from salvaged materials.

CALM supplied some markers, information on sites requiring protection and undertook the bulk of the actual placement.

The surrounding Shires of Lake Grace, Dumbleyung and Woodanilling have already implemented the standard roadside marker system for rare flora.

According to senior reserves officer Mal Graham, approximately 98 per cent of the rare flora on Shire roads in the Katanning District

is now protected using the standard marker system.

"This is proving useful with the modern trend towards use of contractors for road maintenance, sharing of plans between shires and contracting work to adjoining shires," Mal said.

"The marking of the remaining two per cent of rare flora will have to wait until spring, as annual species are involved."

## Boring beetles found in 'dead centre'

A MIDNIGHT trip to a cemetery plot in Manjimup to collect beetles was a highlight of the recent visit to CALM by Qiao Wang, a Ph.D student from La Trobe University.

He was accompanied on his nocturnal, torchlight expedition by principal research scientist Elaine Davison, chief

utilities officer Des Donnelly, Forest ranger John McKenzie, technical officer Helen White and research scientist Janet Farr.

Qiao (pronounced 'chow') is studying wood boring cerambycids of the tribe Phorocanthini which are more commonly known as longicorn beetles.

These beetles are

known to infest a wide range of eucalypt species and include a native Australian longicorn which is now a worldwide pest of eucalypts.

Qiao's visit was organised by Janet Farr of CALM's Forest Entomology and Mycology Program and funded by Wood Utilisation.

Its purpose was to exchange information on cerambycid research, particularly that on the wood boring cerambycids of jarrah and karri.

The information exchange will be especially useful as Elaine Davison and Janet Farr are planning to conduct research into the relationship between

cerambycid beetles and brown wood in karri.

During the visit Qiao also inspected WA insect collections and timber mills at Harvey, Greenbushes and Pemberton. Field sites of known borer infestations were also examined.

And what was the outcome of the midnight trip?

Very few beetles, but the group consoled itself by retiring to Janet's place for a warm and welcome port and hot coffee.

Note: The plot is known as 'CALM cemetery plot' because it was in forest cleared for the new Manjimup Cemetery. The plan fell through, but the name stuck.

## Volunteer NEWS Volunteer members who CARE

MEMBERS of the Exmouth conservation group CARE (Conservation, Animal Rescue, Research and Education) have been involved with Drupella research in the Ningaloo Marine Park.

The population studies

being conducted by park manager Sue Osborne require the assistance of volunteers from divers to boat crew to land crew and cooks.

Volunteers from the local area (including U.S. service men and women),

around Australia and a few international volunteers have combined their efforts to collect snail samples, measure coral and record data in order to better understand the population increases of the Drupella snails.

by Patricia Willis

Since 1989 volunteers have donated their time and expertise at various sites along the Ningaloo reef from Coral Bay to Bundegee.

The experienced divers who volunteer perform tasks such as removal of snails by hand from various control and experimental sites on sections of the reef.

The divers are also required to measure and record the different types and percentages of coral along transect lines set on the reef.

The rest of the volunteers perform the many other logistical tasks required to support this type of labour-intensive research which includes keeping from five to 15 hungry divers well fed.

Not only are CARE volunteers active in Drupella research, turtle tagging, and whale watching, but many care for orphaned or injured animals, some assist the staff members at Milyering Visitors' Centre in Cape Range National Park, and others are involved in fund-raising activities in which the monies raised are used to help fund these projects.

According to Sue Osborne, without the help of CARE volunteers and funds, much of the Drupella research would not have been accomplished.

## Social notes

by James Smith

THE CALM Social Club kept the fun going in May when it organised its second River Cruise on the Swan.

About 40 enthusiastic CALM staff converged on the Barrack Street jetty ready to wine and dine a bracingly cold Saturday night away on the good ship *Mystique*.

Cruising upstream, the merrymakers applied themselves to the task of enjoying the juice of the grape, as long as it was red or white and properly fermented.

Arriving at Mulberry Farm, they just as diligently tucked into a smorgasbord that would have done any native-born Scandinavian restaurateur proud.

Once everyone felt replete, singers and dancers took to the stage and commenced to 'Grease' it.

Several CALM staff eagerly entered the jive competition, with only the

odd carafe of Moselle to lubricate their joints.

The return cruise was equally memorable for most (and a complete blunder for one or two others).

Happy emotions flowed and even overflowed, as did the odd glass of claret while the stayers sang, danced and grooved their way back to dry land.

A function to remember is the Annual General Meeting to be held in late July, when the election of CALM Social Club committee members for 1992-93 will take place.

Staff members willing to accept nomination or to support the Social Club in any way, please contact Rick or Debbie.

You are also reminded of the CALM Ball to be held on November 21 at the Parmelia Hilton Hotel, Perth.



Exmouth CARE participants set out on a Drupella population survey. They are front (l to r): Karen Rising, John Sparks and Alan Roberts; in boat at rear: Rick Karniewicz, Casey Rykers and Ruth Hodson. Photo by Sue Osborne

# A recipe for fun and learning

TAKE a group of energetic 11 and 12 year olds, get them out of doors into the jarrah forest at Mundaring and then offer them an educational program to get their teeth into and you have a recipe for fun and learning!

Two primary school groups - Glengarry and Mary's Mount - joined CALM staff recently to pilot a schools program at the Hills Forest, Mundaring.

It was designed for upper primary school students to learn more about the forest and its management.

## The program

The overnight trip packed in 14 hours of active learning, so it is little wonder that CALM officers Fiona Marr, John Carter and Jean Butts had to work hard to keep up with their 11 and 12 year old charges.

Students camped out in the forest in Mundaring.

From this base, they explored different faces of the forest through a range of activities showing various aspects of the forest and its management.

After pitching their own tents, students played a game of forest tag.

They modelled a forest food chain from grass to widgeon.

Next they took to the forest for an action-packed forest walk.

"Human Connections" was a great leveller! Here, students and adults alike

by Fiona Marr

helped to trace the tangled web of connections between the human community and the forest ecosystem.

By making this human web that reflected the complex links between forest and the human community, it added real meaning to the major theme of 'ecosystems'.

## Night moves

The forest at night is a whole new experience.

Slides, together with bird and mammal specimens were used to introduce students to the animals of the forest.

The use of trapping for research and management was also introduced in preparation for the morning activity of checking a trapline.

The night closed with a supper of traditional damper dripping with honey from the forest and a hot brew of Milo.

Many memories and new discoveries were recorded by students in their individual log books.

This small booklet served as a diary of their stay in a living, breathing jarrah forest.

## What's next?

The program is currently being evaluated and improvements are being made.

After staff availability and financial resources are sorted out, a version of this educational program will be offered more regularly.



CALM reserves officer John Carter of Mundaring district helps years six and seven students from Glengarry Primary School trace forest connections by linking humans to the parts of the living forest. Photo by Fiona Marr

# Mundaring goes for gold

by Grahame Rowland

AFTER making it into last year's final of the prestigious John Tonkin Award, Mundaring District fully expects to carry off one of the first prizes this time around.

The annual award is organised by the Greening Australia Council for projects that encourage tree planting.

In conjunction with Mundaring Primary School, the Department of Community Services and the Mundaring Shire, the District has continued with the second stage of a five-year rehabilitation project.

Under the guidance of forest officer Barry Hooper, the various groups contributed their skills to

make this year's effort a great success.

"It's very rewarding to get the other groups involved as it gives everyone a chance to find out a bit more about what each other is doing," Barry said. "But what's probably more important is that we can achieve things together that we couldn't do alone."

The project aims to re-plant two hectares each year. This involves contouring and ripping before the planting.

In addition, about a dozen car bodies were removed by the Shire and the associated rubbish cleaned up with help from the Department of Community Services.

Young people carrying out court-ordered community work, removed debris such as door panels and seats that had been stripped from the dumped cars.

The co-ordinator of Community-based Offender Programs, John Sawle, said they had also concentrated on clearing up broken glass to make it safer for the tree planters.

## Consequences

"We are trying to make the kids aware of the consequences and impact of their offending behaviour," John said.

"Cleaning up in this type of project helps to achieve this goal.

"Furthermore, it helps build positive links between offenders and the community."

After the site was cleaned it was ready for the 60 Arbor Day tree planters - Mundaring Pri-

mary School's years five and six students.

In addition to using a selection of local eucalypt seedlings, seed from a mixture of scrub species was broadcast over the area to better replicate the original forest structure.

Mundaring Primary School teacher Robert Birtles said that by continuing to work on one area it gave the students and the school a sense of ownership.

"The school is very keen on environmental projects as it gives us an opportunity to put something back into the community," Robert said.

"There are many mutual benefits to be gained - besides the kids really enjoy themselves."

To further emphasise the importance of the day and the role of trees the school was also addressed at assembly by Barry Hooper.

This day was typical of

activities carried out elsewhere in the district using a number of local schools at a range of sites.

Mundaring district manager Peter Keppel agreed that the programs provided a range of benefits.

## Caring

"They also encourage the children to have a caring attitude towards the environment and in the long term that will be of benefit to everyone," Peter said.

Other CALM officers and schools involved were: forest officer Glenn Willmott and ranger Keith Kickett with Lesmurdie Primary School at Boundary Road, Pickering Brook; forest officer Bruce Telfer with Pickering Brook Primary School also at Boundary Road, Pickering Brook; forest officer Jamie Ridley and ranger Keith Tresidder with Falls Road Primary School (Lesmurdie) at John Forrest National Park.

# A French connection

RESEARCHERS Myriam and Christine Masson from the University of Lille in France recently visited the Fitzgerald River National Park Biosphere Reserve.

The visit was part of a world study tour of biosphere reserves and sustainable development in

areas of importance to nature conservation.

Their study tour, which is co-sponsored by the University of Lille, UNESCO MAB Secretariat in Paris, French government agencies and others, has already taken them to Sinharaja Biosphere Reserve in Sri Lanka, Palawan Biosphere Re-

by John Watson

serve in the Philippines and Mount Kinabalu National Park in Sabah.

They spent four weeks in WA, including a week at the CALM regional office in Albany and two weeks in and around the Fitzgerald River National

Park with CALM rangers, members of the Fitzgerald River National Park Association, the Biosphere Project group and the local farming community.

After completing their study tour via Canada, Central America and South America, they will prepare a special report on their findings.



CALM ranger (Hopetoun) Mark Roddy with Myriam and Christine Masson at Fitzgerald River National Park. Photo by John Watson

## Thanks from Jean ...

THANK you for the many messages, cards, flowers and visits I received during my recent stay in hospital.

It was tremendous for me to know I was not facing my crisis alone, and that there were so many out there barracking and supporting me.

This made my job of getting well so much easier. (It also put CALM on the map at the Bicton Private Hospital).

The dozens of bouquets of flowers were all beautiful, each one a little different to the other. They came in shades of apricot, pink, autumn tones, orange, red, blue and white.

The 'species' of flowers were many and varied, including the foliage of several eucalypts. I have photos of all the flowers.

The cards and letters numbered 40 plus, each one bringing with it thoughtfulness and love. This was really appreciated - words cannot express my thanks.

The many visitors were eagerly received and enjoyed.

To all of you I give a great big THANK YOU.

In time, a personal thanks will be sent to all.

**Jean Collins**  
Note: Jean, an administration assistant with the Fire Protection Branch, is currently on sick leave.



Jemma, a wedge-tailed eagle typical of the birds of prey at the Open Day, weighs 4 kg, which is why handler Tom de Vries has to hold her aloft rather than on an outstretched hand. She is the second wedge-tailed eagle bred in captivity by Phil Pain (who also bred the first). Jemma's parents are still alive and are about 28 years old.

Photo by Phil Pain

# Bob and Hazel Hawk make a flying visit

by Verna Costello

MORE than 200 visitors turned out at the Kent River Land Conservation District Committee's Open Day held at Lake Nunijup on April 3.

Visitors showed keen interest in demonstrations and talks on how landscapes should be managed, the advantages of tree plantations in agriculture, how extra cash could be made from aquaculture and how birds of prey had been used to protect Margaret River's ripening grapes.

## Highlight

The highlight of the day for the Kendenup school children was the display of birds of prey. They were particularly amused by the two kites named Bob and Hazel Hawk!

The birds were brought along by Phil Pain from the Margaret River Raptor Rehabilitation Centre.

The children and their

parents were given the rare opportunity to hold a hawk on their wrist and to watch the birds fly from the hand over Lake Nunijup.

Arguably, the most valuable outcome of the day was that it brought together groups of people who had something to offer each other in terms of knowledge and experience as well as new innovations.

In a social atmosphere (that became heartier and more boisterous as the day wore on), local farmers met people like research scientists Jim Goodsell (CALM) and Don McFarlane of the Department of Agriculture, and Peter Beatty, CALM's senior district forest officer.

Together, they worked out a plan of an aero-magnetic survey of soil and

water table salinities of 925 square kilometres of the Kent and Frankland-below-Gordon catchments.

The result paves the way to coordinating protection of water tables of the Kent and Frankland catchments.

According to Jim and

Peter, this sets a precedent for the integrated management of nature reserves and farms that they predict will be emulated by other land conservation district committees and local authorities throughout WA, wherever salinity is a problem or threatens to become one.

# Burning workshop

by Chris Done

DELEGATES from Queensland and the Northern Territory met with their Kimberley counterparts in Kununurra recently to swap notes and share experiences about prescribed burning in national parks, nature reserves and other parts of the conservation estate.

Inspections were made of CALM's prescribed burning program at Point Springs Nature Reserve, Hidden Valley (Mirima) National Park, and Pary Lagoon Nature Reserve.

The aim in all these areas has been to try to use fire early in the dry season to create a mosaic of burnt and unburnt areas and to set up a series of strategic breaks in order to stop the entire reserves being burnt during later, more severe fires.

Speakers at the workshop included CALM's General Manager Roger Underwood, Keith McDonald from the Queensland Department of the Environment and Heritage, and Andrew Bridges

from the Conservation Commission of the Northern Territory as well as several other speakers from various departments and organisations.

Dr Rick Braithwaite from the CSIRO's Division of Wildlife Ecology in Darwin gave an extremely interesting overview of some of the ecological aspects of fire in the 'top end'.

There are many similarities in the problems and experiences outlined by those attending from different areas despite the variation in rainfall and other climatic factors.

All delegates had useful knowledge and experience to pass on to others.

It is hoped that two of outcomes of the workshop will be the production of an occasional newsletter to keep people up to date with advances in technology, and the setting up of a data base designed to record predictions and observations of the prescribed burning program in conservation lands in northern Australia.

# It's a real bottler!

by Martin Lloyd

THANKS to balmy Albany nights, CALM staff and spouses recently enjoyed a 'bottling good barbecue.'

Parks and reserves officer Terry Passmore organised the purchase of 200 litres of highly drinkable Hermitage red from a local vineyard, whereupon much drinking up and falling down was embarked upon by those connoisseurs who take their wine-tasting seriously.

Regional manager John Watson gave several demonstrations on how to bathe in the red fluid while attempting to syphon it into the bottles.

Drawing the wine from the drum demanded expert suction skills and John carried off the task with consummate ease and some plastic piping.

The task kept him quiet for about an hour but the fumes got to him eventually.

The occasion proved such a success, a second is in the offing.

Note: The Suffolk Cellars shown on the label is a classy name for Terry Passmore's garage.



The 'original' label.

# Parking fees

PARKING at Matilda Bay will never be the same.

CALM has installed three ticket vending machines and begun to charge car parking fees.

This is the first time that CALM has initiated pay parking in any of its management areas.

The parking problems at Matilda Bay are almost entirely due to the reserve's proximity to the University of Western Australia.

Further redevelopment is planned for the car parking bays opposite the CALM executive offices at Crawley. While this is a

first for CALM, the Director of National Parks, Chris Haynes, does not see an immediate need for pay parking in any other parks.

Special approval was needed to amend the CALM regulations to allow the Department to charge parking fees. The work was a joint effort between Chris Haynes, legislation officer Dave Hampton, senior forester John McKenzie and reserves officer Rod Martyn.

So, next time you visit the executive offices at Crawley, remember to park in the allocated blue staff parking area.

# Greg - a man for all seasons

by Tanyia Maxted

CALM for 14 years and makes CALM's brown and white State forest signs and the green and gold nature reserve signs.

As well as Wheatbelt Region signs, he makes them for other regions and for outside organisations and private clients who are

charged for the service at commercial rates.

All signs are made from Valwood.

In summer, Greg lays down his tools and climbs the 15 metre (50 foot in real measurements) Dryandra firetower.

From there he watches for fires (and can see smoke up to 100 km away) that might threaten

Dryandra Forest or nature reserves in Cuballing, Wickpin, Williams and Wandering Shires.

As well as spotting fires, Greg acts as radio link for operations mobiles in the region.



Kelly Gillen caps a bottle of 'chuckle-juice'. Photo by Martin Lloyd

NARROGIN District forest worker Greg Ferguson has two jobs for the price of one - in summer he is a fire tower man - in winter he makes signs.

Greg also works in the district's nursery assisting with tree seedling propagation.

Based at Dryandra settlement, he has worked for

# Poster comments

LIKE it or not, CALM's Arbor Day poster was a hot topic of conversation in many department offices this year.

The poster, which was made up of a number of simple and colourful illustrations depicting the many values we ascribe to trees, was a radical departure from previous posters which featured large photographs of attractive trees.

"A number of people in the department took the time to speak or write to

me to express disappointment that we'd broken from the tradition of previous years," said Ron Kawalilak, Director of Corporate Relations.

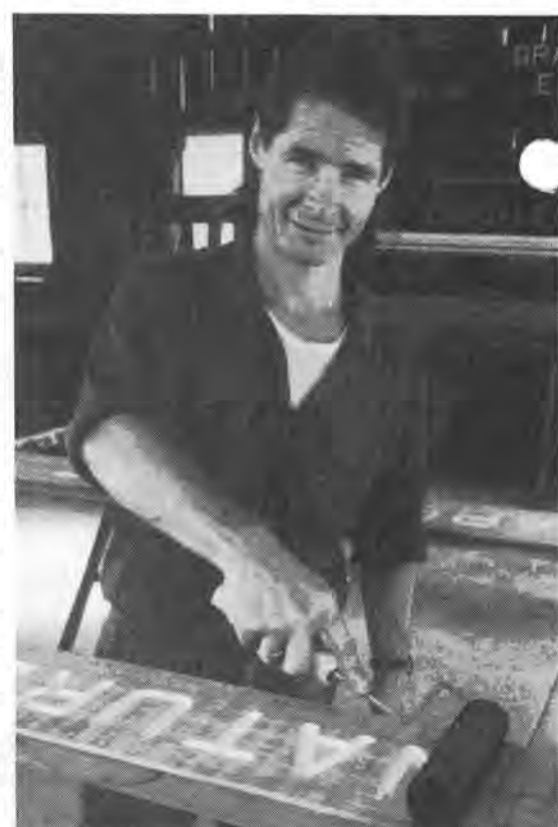
"While I can understand that view, tradition has little to do with effective marketing today.

"There are pretty forestry posters in Stores, many of them pre-dating CALM; they're there because they are largely irrelevant to schools and to the general population today," he said.

"And irrelevant is something we can't afford to be."

He said that the style and approach to the poster were decided after considering the poster's primary target - school children.

"Before preparing the finished art, we tested the concept on a few primary school-age children and they were enthusiastic. Response from schools to the finished poster confirmed the appropriateness of the design for children," he said.



Narrogin district forest worker Greg Ferguson at work in the Dryandra settlement. Photo by Tanyia Maxted