

Conservation News

Print post approved PP65002/00001



FOREST SCIENCE LIBRARY
DEPARTMENT OF CONSERVATION
AND LAND MANAGEMENT
WESTERN AUSTRALIA

JUNE 2005

New herbarium gets green light in Budget

THE construction of a new herbarium has been given the go-ahead in the 2005-2006 State Budget.

Announced in late May, the budget was described by CALM's Executive Director, Keiran McNamara, as providing "a very positive budget outcome for the Department and the work it performs".

"Although I acknowledge and understand that there are still pressures in many areas, and we would all like to do more to manage the State's parks, reserves and forests, and protect biodiversity," he said.

"I would like to thank CALM's Financial Services Branch, in particular, and all other staff who have contributed to the budget process and to the close working relationship we have developed with Treasury officials."

Keiran said funding of \$16.2 million over three years had been allocated for the new herbarium and an integrated science facility, with \$1.2 million allocated for 2005-2006.

"It's very pleasing to see the recognition of the serious overcrowding in the current herbarium as well as the fundamental role it plays in the conservation of the State's rich flora," he said.

"The early planning and staff consultation already carried out will now intensify markedly.

"Our aim is to provide proper housing for the State's plant collection now and well into the future, as well as provide good facilities for those inside and outside the Department who study and use the collection."

Keiran said the project would be a major step towards achieving the vision of bringing together CALM's metropolitan workforce, which is currently scattered across Perth.

Other highlights in the budget are improved funding for fire management both in the south-west and across the State; increased funding for marine parks and reserves at Ningaloo, the Muirons, the Montebello/Barrow Islands area, the Rowley

Shoals and Jurien Bay; and new funding to assist the Department carry out its roles in assessing major development proposals.

"These initiatives will build on the gains made in last year's budget, such as in the areas of park facilities and roads, Indigenous joint management and implementation of the forest management plan," Keiran said.

"There will also continue to be an emphasis on achieving savings through improved whole-of-government purchasing practices."

Budget details include:

- An extra \$2 million for fire management in 2005-2006, rising to an extra \$3.93 million per annum thereafter, as an initiative that was in the 2004-2005 budget and is carried forward in this budget.
- An extra \$2.75 million per annum to employ 40 extra conservation employees in the south-west to meet fire management requirements and carry out other priority works. The extra staff will be employed in the Swan Coastal, Perth Hills, Wellington, Blackwood, Donnelly and Frankland districts.
- Increased funding for marine parks and reserves, specifically for Ningaloo Marine Park and the Muiron Islands Marine Management Area (\$1.65 million in 2005-2006, and rising in subsequent years), the Rowley Shoals Marine Park (\$195,000), the Montebello/Barrow Islands marine reserves (\$573,000) and Jurien Bay Marine Park (\$110,000).
- \$900,000 to fight the cane toad threat.
- An extra \$420,000 per annum for the Department's role in assessing the impacts of major development proposals on CALM-managed lands and waters and on biodiversity.
- Continuation of additional funding of \$1 million per annum, initially provided on a one-year basis in the 2004-2005 budget, for Indigenous joint management programs.
- Provision, through CALM, of \$1.5 million across two years

for an environmental centre in the Canning River Regional Park.

- An additional \$2.108 million in 2005-2006 to help fund payroll increases and escalating costs.
- The budget also continues the State Government's reform program in the area of procurement (or purchasing), with CALM expected to make further savings of \$1.144 million in 2005-2006 through the use of improved purchasing behaviour including common use contracts.

Preserving a record



WA Herbarium Group Manager Neville Marchant stalks through the plants in his former office. Each file contains a specimen of a new WA plant discovered by botanists, volunteers, farmers and people interested in plants.
Photo - Rhianna Mooney

by Sue McKenna

WA Herbarium Group Manager Neville Marchant's lifelong ambition is to preserve the State's priceless plant specimens collected over the past two centuries.

The Kensington herbarium has more than 600,000 plant specimens bursting out of their shelves and storage rooms. Overcrowding reached such proportions that Neville was forced to vacate his office for a transportable eight months ago.

"Yes, my old office is now used for specimens... We simply ran out of space," Neville said.

News that a new herbarium will be built at Kensington as part of a biodiversity science centre by 2008 is music to his ears.

"It's amazing - just incredible," Neville said.

"We've had our fingers crossed about getting a new herbarium for a number of years and we're all as pleased as punch that it will go ahead."

Neville has held discussions with every staff member to ensure that plans for the new herbarium will meet future needs.

The WA Herbarium leads the world by promoting WA plants using its database, FloraBase, and by encouraging volunteers to set up herbaria throughout WA to add to the plant collection.

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Huge effort to save whales



This was the early morning scene at Geographe Bay, west Busselton, after the whales had stranded when only a few people were assisting with the rescue. Photo - Murray Dix

A staggering 1500 volunteers helped stage the dramatic rescue of 120 whales off the Busselton coast earlier this month.

Some traveled from Perth to tend to the false killer whales, while others - including local school children - cooked or provided hot drinks for the volunteers as they tried to keep the whales wet and calm in the cold conditions.

It was a sight that will remain with CALM's Incident Information Officer, Tammie Reid, for some time.

"It was pretty amazing. Only eight weeks before we'd had a whale rescue when 13 were saved," she said.

"I think people knew they would be welcomed."

by Tracy Peacock

In fact all 40 CALM officers involved in the operation were overwhelmed at the community response.

"The speed of the rescue and the sheer size of the rescue were amazing, we've never seen anything like it," said CALM's Blackwood District Manager, Greg Mair.

"With the help and enthusiasm of the volunteers, we were able to return the whales out to sea in an amazing eight-hour operation."

The mass stranding of the false killer whales occurred early on the morning of 2 June.

A call for volunteers was made through local media outlets with the requirement that they bring full wetsuits, booties, food and drink.

Tammie praised the efforts of all volunteers from local business people, individuals and schools.

"One of the local schools, West Busselton Primary School, coordinated a sausage sizzle and fed people on the beach," she said.

"We had a situation where people were kneeling next to a stranded whale eating a hot dog!"

Local high school students and Edith Cowan University surf science students also donned wetsuits to take part in the rescue.

Working Together

At the start of June the Minister for the Environment and Science, Dr Judy Edwards MLA, announced funding for the establishment of the WA Marine Science Institute. The Institute will be a partnership involving State Government agencies (including CALM), universities, Commonwealth Government research organisations and the private sector.

The Institute presents the opportunity for a significant expansion of marine research in Western Australia that is expected to assist greatly with what we need to know in order to manage marine parks and biodiversity, and the marine environment generally. An interim Board on which I represent CALM is working to set up the structure and operations of the Institute.

June also saw the latest in Corporate Executive's program of regional visits, this time to Kalgoorlie to coincide with the Regional Managers' meeting. A safety presentation to the Goldfields Region staff was also held, as well as a field trip. The Corporate Executive values these opportunities to meet Regional staff and discuss issues in the field, and we will be continuing our program of such visits.

Later in the month CALM received a Silver 'W.S. Lonnie' Award for its 2003/04 Annual Report. The Lonnie awards recognise excellence in annual reporting. My congratulations go to the team at Strategic Development and Corporate Affairs Division who put our annual report together each year, as well as the many people who contribute financial reports and information on our diverse activities and achievements. While seen perhaps as a fairly 'dry' topic, annual reports play a fundamental role in terms of accountability to the Parliament, transparency, good corporate governance and providing a permanent, official record of the Department's activities.

Keiran McNamara, Executive Director



Helping to monitor native mammals

VOLUNTEERS from across Western Australia have been helping to monitor native mammals in the Lake Magenta Nature Reserve, east of Pingrup, as part of CALM's wildlife recovery program, Western Shield.

The group – Gwen and Neil Hogstrom of Albany, Erin Harris of Perth, Jan Rodda of Fremantle, Geoff Burrows of Moulinning, Rachel Hams of Newdegate and Linda Strahan of Ongerup – camped on a farm alongside the reserve as part of the monitoring.

"Each morning the volunteers rose early to help set and check fauna traps strategically placed around the reserve," said CALM Katanning Nature Conservation Officer, Carl Beck.

"During the monitoring program a number of species including heath mice, red-tailed phascogales, western mice, chuditch, Mitchell's hopping mice and brush-tailed possums were caught," he said. "The volunteers assisted with handling, measuring and recording details about each of the animals."

Carl said the volunteer monitoring team also provided valuable assistance to Murdoch University PhD student Damien Cancilla, who was conducting research fieldwork at Lake Magenta at the time. Damien is studying the status and ecology of the threatened heath mouse.

"Volunteers play an important role in CALM's fauna monitoring program which also provides them with the opportunity to learn more about our natural environment and the Department's role in managing conservation areas in different regions such as the Wheatbelt."

Lake Magenta Nature Reserve is one of the largest nature reserves in the Wheatbelt covering about 108,000 ha. As well as being an important habitat for a number of native animals, the reserve also has populations of several threatened flora species.

Conservation News June 2005

Published by Department of Conservation and Land Management Strategic Development and Corporate Affairs, Cygnet Hall, (cnr) Mounts Bay Road & Hackett Drive, CRAWLEY, Western Australia 6009

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Printed on 100% recycled paper

Crocodile hunt comes to an end

by Tracy Peacock

THE hunt for a 1.8 m saltwater crocodile wrongly released into Lake Kununurra in March ended in early May when it was shot by CALM officers.

CALM East Kimberley District Wildlife Officer, Brad Rushforth, said the crocodile, estimated at four to six years of age, was shot after unsuccessful trapping and harpooning attempts.

"We tried catching it with traps and conducted spotlight patrols for about two months but the only crocodiles we caught or saw were freshwater crocodiles," he said.

"It was eventually seen up at the Argyle Dam wall by a local tour operator but all attempts by CALM officers to harpoon and capture the crocodile proved unsuccessful as it would disappear underwater within 50 m of the boat."

Brad said it was eventually shot near where it was last sighted, some 45 km from where it was released at Lily Creek Lagoon.

Its removal from the lake was in line with management zone guidelines for saltwater crocodiles and to ensure public safety.

New system to track CALM revegetation programs

by Jodie Watts and Shane French

A new system to track and manage revegetation programs is up and running at CALM.

REVEG Database collects and stores information such as site characteristics, the area planted, costs, nursery details and landholder facts.

It was developed by CALM's GIS Section, Natural Resources Branch, Natural Diversity Recovery Catchment officers and revegetation officers over 18 months.

Revegetation programs generate large amounts of data that require careful record keeping. In the past, this information was stored in an uncoordinated way across the regions.

REVEG Database is available to all staff and may also be used by external natural resource managers.

The database comes with its own extension tool for capturing and viewing information spatially.

To find out more about the program's training requirements, call Marguerite D'Alton or Jack Green in the GIS Section.



CALM Technical Officer Lindsay Bourke, from the Buntine-Marchagee Natural Diversity Recovery Catchment, enters 2004 planting information into the database.

Spotlight on cane toads in Budget

THE fight against cane toads was a feature of the recently-announced State Budget.

An allocation of \$900,000 for 2005-2006 is in addition to \$600,000 already announced by the State Government in December 2004.

From 1 July CALM will also become the WA Cane Toad Initiative's lead agency, building on the work already done by the Department of Agriculture.

The new funding will be focused on controlling cane toads in the Northern Territory, quarantine and surveillance, biodiversity protection and public awareness.

"The majority of the 2005-2006 funding will go towards fighting the entry and establishment of cane toads into WA," said the Department's Nature Conservation Acting Director, Gordon Wyre.

Cane toads have had a major impact in Queensland and the Northern Territory.

The front line for cane toads is in the northern and eastern sections of the Victoria River catchment in the Territory. However, there are confirmed populations in and around the Victoria River Roadhouse area on the Victoria Highway.

A feature of the WA Cane Toad Initiative is a Kununurra-based control and surveillance team.

"The new budget allocation means the continuation of the surveillance team's significant work in monitoring the Victoria River Catchment in the Northern Territory, mapping the cane toad front and looking for likely habitats," Gordon said.

"The team will be increasing its collaboration with the Northern Territory Government in fencing and trapping programs."

Road signs are being installed on all main road entries into WA, advising motorists to check their loads to prevent cane toads from hitch-hiking into the State.

from page 1

"The herbarium collection is an invaluable record of one of the world's hotspots, renowned for its high diversity of shrubs and trees and for a huge range of bizarre flower types that are endemic to Australia's south-west," Neville said.

"It contains specimens and records of poisonous plants, valuable hardwood trees and the only collection of WA's rare and endangered plants. It also has collections of drought-tolerant and salt-tolerant plants, fungi and marine plants such as algae."

"The new building will provide the ideal conditions for permanent preservation of these priceless records," Neville said.

WA's oldest plant specimen, an orchid, is stored at the WA Herbarium. It was collected by botanist Robert Brown, who accompanied the Flinders expedition to King George Sound in 1801.

Twenty years ago this month. . . June 1985



CALM News

Official newspaper of the Department of Conservation and Land Management FOREST SCIENCE LIBRARY DEPARTMENT OF CONSERVATION Vol. 1. No. 4. June 1985

CLIMATE A FACTOR IN DIEBACK OUTBREAKS

By the Director of Planning and Research, JOE HAVEL

THE last three years have been an eventful period in the history of research in jarrah dieback.

Safety Record Awards

THE district staff at Pemberton clocked up a year's work without a lost-time accident on May 22.

A major safety achievement, the effort earned the district the honour of receiving the Executive Director's first Individual Safety Awards on Friday, June 21.

The award is a continuation of the previous conservator's award and the same rules have been adopted: The whole district (or division as it was called in the past) has to work one year without a lost time injury accident.

The Executive Director, Syd Shea, congratulated the office-in-charge, Bob Hagan, and all the staff.

The District team of 56 now includes Karl Mucjanko, the local parks ranger.

The Minister assisting the Minister for Conservation and Land Management, Dave Evans, presented staff with personal travel bags to mark the occasion.

On May 10 the staff at Narrogin completed three years work without a lost time accident.

Senior management, including Executive Director Syd Shea and Policy Directors Barry Wilson and Joe Havel, travelled to Narrogin for a Safety Presentation on Thursday, June 27.

Syd Shea told the staff that their safety performance was an outstanding achievement.

NOTE: Both the Nanup and Walpole districts were expected to qualify for annual awards at the end of June.

The most notable event was the occurrence of climatic conditions leading to disease outbreaks of a kind rarely seen during the last 20 years.

These outbreaks allowed critical testing, and in some cases modification, of hypotheses about the tree-pathogen-environment interaction.

Scientists with the Department now have a far better understanding of the conditions leading to the establishment of the pathogen (*Phytophthora cinnamomi*) and to the development of the disease.

In particular, the researchers have better insights into the characteristics of sites and influences that may tip the balance in favour of the disease, or of the forest.

Research is currently in progress to define the mechanisms used by infected jarrah trees to resist or contain fungal attack.

Natural resistance can strongly influence whether jarrah survives or succumbs to the disease on marginally susceptible sites.

A large number of artificial inoculations, more than 3000, combined with microscopic studies of the progress of the invasion through the tissue, have shown that jarrah trees have a range of defence mechanisms that curtail the spread of the fungus.

The effectiveness of these barriers varies with season and site.

There are, however, indications that there is some variation between trees, which is independent of site and season, and so there is a parallel but much smaller research programme aimed at finding out whether there is genetically based resistance or tolerance to the disease, and how this can best be used in rehabilitation of disturbed sites.

There has been good progress made in developing appropriate tissue culture methods and testing a number of families for resistance.

Progress in disease detection techniques has also run parallel to this

progress in understanding the way *Phytophthora cinnamomi* attacks and kills jarrah.

All areas scheduled for forestry operations are now examined by detailed aerial photography and ground checks and the information gained is used to schedule operations to minimize the likelihood of spreading the pathogen.

Disease management is further backed by legislation, defining quarantine areas and allowable operations, and aerial and ground surveillance of areas at risk, so the Department's efforts cover the full cycle — from basic research to broadscale field application.

Our staff shape up



HELEN FORDHAM and Ian Frame go through their cycle exercises while Anthea Walker (UWA) and Steve Gastelaars (UWA) monitor their heart rates — Picture by IAN KAY. Story page 2.

Survey shows bird increase

By Wildlife Officer,
KEVIN MARSHALL

THIS year's bird surveys in the North West have produced exciting results for ornithologists, and seem to indicate a distinct improvement in some populations.

The highlights of the expedition were the sighting of a Dowitcher, the capture of a Red Shank, and the re-capture of a Red Necked Stint banded in Russia.

Reported sightings of Flock Pigeons on two separate occasions during late March were also extremely encouraging.

During cannon netting operations on the Anna Plains (Eighty-mile Beach) and Roebuck Bay, at Broome, some 4100 wading birds were trapped, banded and recorded.

The 15 different species recorded included: Grey Plover, Mongolian Plover, Large Sand Plover, Red-capped Plover, Turnstone Little Curlew, Grey Tailed Tatler, Greenshank, Terek Sandpiper, Red Knot, Great Knot, Sharptailed Sandpiper, Red-necked Stint, Curlew

Sandpiper and Sand-erling.

Some mist netting was also undertaken at the Leslie Salt Works at Port Hedland.

Aerial surveys conducted from Cable Beach, at Broome, along the Eighty-mile Beach, revealed that about 180,000 wader birds were still frequenting this portion of coastline.

However, large numbers were seen leaving the WA coast near Broome for Indonesia at twilight between April 16 and 20.

The observations were made using the Meteorological Bureau radar. In early March, the pilot associated with the Wader Expedition, saw a flock of about 300 pigeons.

These birds were sighted while flying over Anna Plains Station, 300km south of Broome. The pilot, a Royal

Australian Ornithologists Union member for more than two decades, positively identified these birds as Flock Pigeons.

A second positive recording was made on March 23 at Warambie Station by the Pilbara-based Environmental Officer Charlie Nicholson.

This sighting involved a flock of about 50 birds which were drinking at a road verge dam on the pastoral station.

On Sunday, May 5 I visited Warambie Station and interviewed an elderly Aboriginal stockman about the birds.

The stockman, who was born on Warambie, explained that the Flock Pigeons had always been present on the station, mainly in the White Ridge paddock region.

He identified the pigeon at first glance from my reference book, and mentioned that numbers had decreased in the general region since the late sixties, apart from the stable White Ridge population.

The largest flock he had previously seen con-

sisted of about 300 birds in the Nicol Mines area (Nicol River), between Roebourne and Karratha, in 1968.

Apparently the birds were hunted by Aborigines and whites using firearms during the early sixties.

Sightings of small numbers of Flock Pigeons were also reported by an ex-professional kangaroo shooter, presently living on the adjoining Woodbrook Station.

These recordings would appear to confirm the nearby White Ridge flock.

Observations of this nature are extremely pleasing to note when one considers the Flock Pigeons previous history and recalls quotes such as . . . "in WA there was at one place countless myriads of Flock Pigeons — the row of their wings like heavy surf."

No previous record of sightings can be located for the central Pilbara region and the Atlas of Australian Birds does not contain Pilbara recordings.



RESEARCH Assistant Joanne Barclay monitors the extent of *Phytophthora* invasion in the living bark following inoculation. A lunchtime seminar on the "Effect of site on the susceptibility of jarrah to *P. cinnamomi*" will be given by Dr Joanna Tippett in the Research Auditorium, Como, on August 16.



FROM MY DESK

THE MAJOR feature of the legislation establishing the Department is the provision it makes for public participation in the formulation of public land management.

Specifically, the legislation provides for the establishment of controlling bodies which have broad community representation and there is a statutory obligation to involve the public in the preparation of land management plans.

While it is easy to talk about public participation, it is much more difficult to make it work.

Those members of the Department who are already involved in programmes with the public, such as the Lane-Poole Advisory Committee and the Planning Group, are finding that public participation involves big demands in time, effort and patience.

But we cannot expect these programmes to work without making a commitment to them — they do not happen by themselves.

I believe the extra resources that we will be devoting to involving the public in land management will reap long-term benefits.

The alternative is to perpetuate the polarization that has occurred in the past and which, in itself, is very demanding of Departmental resources.

In addition to the role of assisting in policy formulation, I also believe that there is, in the community, a large reserve of resources, which can be used to help implement our policies.

Frankly, no matter how many staff we recruit to our Department, we will always be faced with an insatiable demand for more services because of the large public land estate we are responsible for.

I believe there are a large number of people in the community who would welcome an opportunity to assist us in a whole range of activities the Department carries out.

There are already some schemes involving the public which have been very successful, such as The Atlas of Australian Birds, the Ground Parrot Survey and the South West Water Bird Survey, all conducted by the Royal Australasian Ornithologists Union, but I believe there is ample opportunity to develop many other schemes.

A large proportion of the community have a commitment to better land management and, what is more, they enjoy doing the type of work that is involved.

The spectrum of activities that members of the community can be involved in to our benefit is very large.

It can vary from assistance with interpretation of parks, reserves and forests, technical assistance on, for example, biological surveys, and actual "hands on" development as the development of nature trails and recreation.

Over the next few months, we hope of "volunteer programmes."

If you have any community availability...

Reserve crypt find by cemetery ranger

AN area of responsibility being handled by CALM officers is the care, maintenance and supervision of the East Perth Cemetery.

For years, National Park Ranger David (Taffy) Davies has been protecting the historical monuments and gravesites.

The old cemetery ranks highly among historical sites that are part of WA's heritage.

Hundreds of our pioneers are laid to rest there, and the weathered headstones display the names of many who have played an important role in the development of the Colony and the State.

Unfortunately most of the early recorded details on these people have been lost.

Taffy Davies, like others before him, has acquired a wealth of knowledge about the Reserve, and he is happy to talk about its past with enquiring visitors.

Recently, in the course of his duties, Taffy found that the earth had collapsed between two monuments.

Realising that a tunnel lay somewhere beneath, and that further collapsing could occur, he decided to investigate.

scended into a brick tunnel about two metres long.

At either end, the rubble and dirt strewn floor led to sunken brick rooms with arched moisture stained rooves.

Fine whisks of roots hung down from the grassed surface above, the atmosphere was warm and moist, but overall the brick structures proved quite sound.

With the aid of a torch, a quick look around revealed that one room was empty and that the other contained about seven coffins.

The coffins had originally been placed on untreated timber bearers against one wall. With time the timbers

had rotted and slipped so that the top coffins had crashed to the floor and broken open.

For their age though, the treated coffin timbers were quite well preserved.

After a 10min visit to this early 19th century domain the rangers retreated to the modern world on the surface.

After they had carefully repaired the tunnel roof so that it was again safe for visitors to walk over Jim and Taffy took time off to re-read the inscriptions on the large tombstone monument.

For them, the history and statistics of the old cemetery have taken on new meaning. — JOHN HUNTER



JIM MAHER squeezes through the broken hole in the tunnel roof to investigate conditions below.

Quiz night a social success

AGM

THE Annual General Meeting of the Social Club will be held on Tuesday, July 9, at 4.15pm in the Training Centre at Como.

The agenda includes updating the club's constitution, an election of officers, and the presentation of the Annual Report.

Refreshments have been arranged to follow general business, and a Sundowner to meet the new committee has been organized for Friday, July 12.

THE last social function organized by the 1984 Social Club proved to be a sellout affair at Operations HQ, Como.

Run in the form of a Quiz Night, the canteen was jammed with 29 team tables and competition was fierce.

Quiz master Gary Robinson and his back-up committee ran the fun-filled night in which everybody seemed to get their fair share of prizes, refreshments and laughs.

This letter from Craig Thurley, a past president, sums up the reveller's feelings: "Perhaps you may have received other favourable reports, but may I take this opportunity to congratulate the committee on the excellent quiz-nite evening held in the canteen on 5.6.85."

The organization was faultless, Gary Robinson did a superb job as quiz master, although I thought he may have been more suited on top of a wedding cake. Wasn't the patronage magnificent — a full house. Congrats to all concerned.

C.T. P.S. Perhaps tables of scientists should be banned from any future quiz-nite.



ROD DAVIES and Anita Webb at the Quiz Nite. Rod departed the next day for a holiday in Singapore leaving Anita to look after CALM's records and their prizes.

Wilf retires

AN OVERSEER with the Harvey District, Wilf Worsley retired on June 6 after working with the Department for 39 years.

Wilf started with the Forest Department in the late 1940's at "East Kirup" (Grimwade) working as a forest workman for three and a half years.

He later left, got married, and recommenced with the Department as a forest workman at Tallanalla in 1954.

When the McLarty Settlement was established in 1957, Wilf transferred there as the Resident Overseer and he held that position until the Settlement's closure in 1981.

He bought his own home in 1981 at Waroona and continued to work at Hamel and Harvey until his retirement.

Wilf will be remembered by all who worked with him as a conscientious hard working gentleman — the McLarty gang and settlement were a credit to him — and we wish him and his wife all the best in the ensuing years.



CHRIS SIMMS, Faye Thurley, Craig Thurley, Steve Rowlands, John Dunn and Robert Doria pit their skills against the rest of CALM.

Helms C.E.P. scheme

AFTER a two-day chainsaw training course three Community Employment Programme participants are ready for work at Helms Aboretum.

Dwellingup based forestry officer, Fred Lindberg conducted the training course in May.

Pam Boydell, Jenny Campbell and Julie Kovacic will be supervised by Esperance district officer Klaus Tiedemann, during the six-month project.

Under the CEP scheme, \$30,666 has been allocated to maintain the growth and performance of plots within the aboretum.

Work will involve thinning and pruning plus scrub control and seed collection.

HELM'S aboretum Manager Tony Byrne supervises Julie Kovacic at Helms Aboretum.

Congratulations CALM graduates and trainees

CEREMONY MAY 2005

CALM's Graduation and Award Ceremony was held last month to celebrate some of the remarkable achievements and potential of the Department's workforce.

The ceremony, held at the New Maritime Museum in Fremantle, recognised the 24 graduates of CALM's Graduate Recruit Training program, the 17 people who graduated from Certificates II and III in Conservation and Land Management and 25 others who received various other awards and scholarships.

Environment Minister Dr Judy Edwards attended the ceremony and said the future of conservation and biodiversity management in Western Australia looked promising, due to the number and standard of integrity of people entering the field.

"The achievements of the people honoured at the ceremony are remarkable," Dr Edwards said.

"Their enthusiasm and dedication is infectious and, as Environment Minister, it is satisfying to be able to reward this dedication to natural resource management.

"Programs such as the Graduate Recruit Training program are creating a pool of specialist staff through the many formal learning programs as well as the informal learning and networking opportunities."

Dr Edwards also said she was very impressed with the progress of the Aboriginal Employment initiative with 26 trainees currently in the system with a further six students sponsored by CALM through their tertiary studies.

"The success of this program was recognised at the 2004 Diversity@work Awards with CALM winning this coveted national award," she said.

Manager Organisational Learning and Development, Alan Byrne, said



the ceremony marked a special day for the graduates and recipients of awards because it was an opportunity to recognise their commitment and achievements throughout their study.

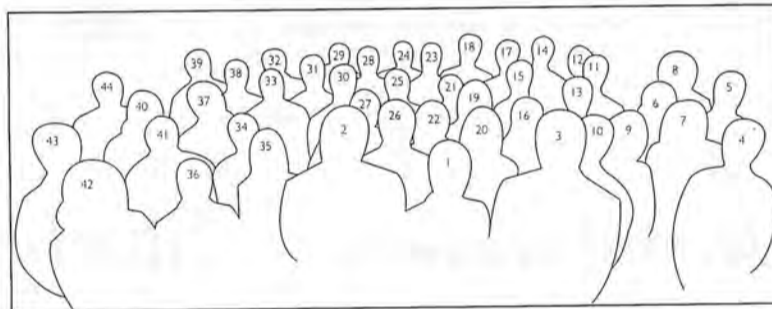
"Parents and friends of the graduates should feel very proud of their achievements," he said.

"Both the Graduate Recruit and Aboriginal Traineeship programs are very rewarding and enriching programs.

"The team at the Dwellingup Training Centre feel very proud and privileged to work with such a fine group of young men and women."

Dr Edwards said the programs recognised at the ceremony were examples of the breadth of CALM's employment and training programs

and its commitment to continue life-long learning.



1. Environment Minister Dr Judy Edwards
2. CALM Executive Director Keiran McNamara
3. Manager Organisational Learning and Development Alan Byrne
4. Aboriginal Employment and Development Officer Beth McKernan
5. Learning Programs Consultant Peter Hill
6. Curriculum Development Officer and CALM Graduate Recruit Laura Sinclair
7. Rikki Alan, Albany
8. Ken Sandy, Millstream
9. Sara Scanlan, Collie
10. Peter Jones, Bunbury
11. Glen Daniel, Geraldton
12. Jonathon Corpus, Broome
13. Roger Syme, Merredin
14. Vernon Wright, Mitchell Plateau
15. Paul Joyce, Narrogin
16. Cheryl Elthers, Dwellingup
17. Matt Wardell, Swan Region
18. Neal Henshaw, Albany
19. Daniella Hanf, Bunbury
20. Kristy Vella, Kensington
21. John Snowden, Fremantle
22. Sonya Brunt, Crawley
23. Marc Barendrecht, Kirup
24. Matt Swan, Crawley
25. Russell Venn, Bunbury
26. Daniel Oades, Exmouth
27. Ian Michael, Collie
28. Dylan McKenzie, Broome
29. Kingsley Woodley, Millstream
30. Edward Wilkes, Yanchep
31. Wesley Manson, Karratha
32. Thomas Dimer, Albany
33. Gareth Hoare, Yanchep
34. Michelle Anderson, Kensington
35. Michelle Chindemi, Exmouth
36. Kylie North, Swan Region
37. Ryan Humphries, Albany
38. Rodney Thomas, Albany
39. Shannon Farmer, Katanning
40. Wendy Barefoot, Albany
41. Marie 'Phoebe' Houghton, Kirup
42. Stephanie Hill, Albany
43. Nicole Webber, Katanning
44. Jerry Narkle, Albany

Trainee takes one for the team

ABORIGINAL Trainee of the Year Marie 'Phoebe' Houghton (pictured right) had an entire team behind her at the award ceremony – the Fremantle Dockers.

Phoebe was presented with a signed guernsey by Jon Haines from the Fremantle Football Club who said he was proud of the Dockers' association with CALM.

"CALM and the Fremantle Dockers have shared a great history and we highly value the partnership," he said.

"Seven of the club's 44 players are Indigenous and we're proud to support CALM's Mentored Aboriginal Training and Employment Scheme (MATES).

"The Aboriginal Trainee of the Year Award is a great credit to Phoebe."

Phoebe received the award for her high level of achievement during her completion of Certificates II and III in Conservation and Land Management in practical and theoretical work. She is currently studying for her Certificate IV.

She said she was extremely grateful to have received the award and thanked the people who believe in her, particularly the staff in CALM's Blackwood District.

"I'm a grandmother to four and it's important to me that I am a role model for them," she said.

"As an Aboriginal woman I want to teach the future generations about our history and culture and the ways of looking after the environment and have been able to do this through my work with school students in the EcoEducation program at the Wellington Discovery Centre.

"I also want to show other Indigenous women that if they work hard and give it a go, they can achieve all sorts of things."



At the award ceremony, Environment Minister Dr Judy Edwards praised CALM's commitment to ensuring that 10 to 15 per cent of its full-time workforce will be Indigenous people by 2013, and its encouragement of life-long learning.

"With support from workplace mentors and CALM's Training Centre staff, the trainees have achieved so much in such a short period of time – this is an outstanding achievement," Dr Edwards said.

The work of six Indigenous students under the National Indigenous Cadetship Program was also acknowledged at the ceremony.

CALM sponsors the university study of these six cadets, who are studying marine science, environmental science, commerce, law and sustainable development.

Once they successfully complete their tertiary education, the cadets will enter CALM's Graduate Recruit Training Program.

Four cadets have already graduated from university during the past two years. The Department currently employs 26 trainees across WA who are undertaking their Conservation and Land Management Traineeship. This number will increase to 36 by August this year.

End of the road, not the journey

FOR 24 young men and women, the ceremony marked their completion of the 12-week Graduate Recruit Training program, which spanned two years.

The program, based in Dwellingup, is dedicated to improving and honing the skills of young people working for conservation.

Environment Minister Dr Judy Edwards congratulated the graduates at the ceremony.

"The 24 selected – 11 women and 13 men – spent long hours learning about conservation and biodiversity management practices, including skill development in disease and fauna management, four-wheel driving, planning and designing recreational areas, fire liaison with the community and much more," Dr Edwards said.

"Since 1995, the graduate recruit program has trained 225 people – of the ones graduating in 2005, all have been appointed to positions in CALM throughout the State."

CALM Executive Director Keiran McNamara said the Graduate Recruit Training program had served CALM well in providing leaders.

"The program is in its eleventh year and many of the graduates have so far been placed in a range of fields and areas within the Department," he said.

"The ceremony is not the end of learning for these graduates, CALM has a range of challenging tasks and roles.

"It's important for an organisation like CALM to provide development opportunities and opportunity to change jobs within it."



The Graduation and Award Ceremony gave Matt Wardell and CALM Executive Director Keiran McNamara an opportunity to reflect on the significant achievements of CALM staff.

Support network owed for award

Matt Wardell, CALM Project Officer (Parks and Visitor Services) and recipient of the 2005 Keynes Memorial Award, said his achievements were owed to support from his family, friends and colleagues.

The Keynes Memorial Award, a bequest from Miss N. J. Keynes, is CALM's premier award to honour high-level achievement in practical and theoretical work in the Graduate Recruit Training program.

Matt said he owed thanks to his wife, Gill, who supported him during his study and further training, as well as his Murdoch University supervisor

and the staff at the Dwellingup Training Centre.

"The support from these people has brought me to this point. I could not have achieved what I have without them," he said.

He also thanked fellow graduate recruits, with whom he developed great friendships and received tremendous support from over the two years.

"The Graduate Recruit Training program is a great avenue though which to enter a large organisation like CALM, not only because of the great training opportunities but also because of the strong peer support

network that develops within the group."

Matt completed a post-graduate diploma in Environmental Management at Murdoch University in 2002, with an extra research project in human usage trends in Marmion Marine Park.

Matt has been working in the Swan Region since 2004 and he hopes to continue working in recreation planning and see the implementation of the Regional Direction for Visitor Services as well as develop better working relationships with recreation groups in the region.

Merit awards for Marc and Laura

MARC Barendrecht and Laura Sinclair were honoured for their best all-round performance in theoretical and practical areas in the Graduate Recruit Training program by the Executive Director's Merit Award.

When presenting the award, CALM Executive Director Keiran McNamara said a diverse and challenging range of tasks was available to the Department's employees.

"The diversity of these tasks makes it possible for staff to change jobs within the Department," he said.

"Formalised learning programs and development opportunities are important for an organisation like CALM to respond to community demands and the aspirations of its staff."

Marc graduated from Murdoch University in 2000 with a Bachelor of Environmental Science and completed an honours-style project on wetlands management.

He said he had a keen interest in nature conservation and it wasn't until he began the training program that he learnt about the role fire management played in conserving biodiversity.

Now he works year round as Fire Operations Officer assisting the Regional Fire Coordinator in CALM's South West Region.

"The 2004/05 fire season was the busiest I've seen and it gave me the opportunity to see different planning and on-the-ground roles in fire operations and see a lot of the State, which is a perk of the job," he said.

"Once I started the Graduate Recruit Training program I got a good overview of what else was out there."

Laura, who is based at the Dwellingup Training Centre and works to ensure CALM maintains its status as a Registered Training Organisation, completed a Bachelor of Arts Degree (majoring in History) and then completed a Post Graduate Diploma in Policy Studies (Ecologically Sustainable Development).

Laura agreed that the Graduate Recruit Training program opened the Department to participants in terms of the opportunity to network, the places visited and the skills learned.

"The graduate program provided us with

opportunities to immerse ourselves in CALM and gave us a sense of belonging," she said.



Laura Sinclair and Marc Barendrecht were presented with their awards by CALM's Executive Director Keiran McNamara.



Allan Madgwick and Dennis Hancock at the ceremony.

Hard work pays off

DENNIS Hancock and Allan Madgwick are no strangers to hard work and personal goal setting.

Now, thanks to the Executive Director's scholarship for study assistance, they're receiving financial assistance and study time to complete their studies.

The scholarship scheme aims to financially assist permanent conservation (wages) employees complete post-secondary studies to enter field positions throughout the State.

Dennis, who worked as a shearer for 16 years, then as a seasonal firefighter for CALM and is now based at Yalgorup National Park, said his background as a shearer was based on setting, and fulfilling, personal goals.

"I enjoy studying and the sense of real achievement that it brings," he said.

"I appreciate the recognition of my commitment to fulfilling my goals that is brought by the scholarship. It also helped me out financially."

He's currently completing Certificate IV in Conservation and Land Management and is hoping to direct his career to natural resource management.

Allan is based at Woodman Point and is working with the Regional Parks Unit. He is also undertaking a Certificate IV in Conservation and Land Management.

Allan said he began to re-evaluate his career early last year and has been studying for the past 12 months.

"I just want to learn as much as I can and get better at what I do... it's just the type of person I am," he said.

"I am prepared to put in the time and effort to achieve my goals and working for CALM has opened up opportunities for a variety of work."

June Craig Award winners

WINNING the June Craig Award will give CALM scientists, Juliet Wege and Nadine Guthrie, an extraordinary opportunity to examine collections in Canberra, Vienna, Munich and Geneva.

Nadine will use her scholarship to visit the Australian Insect Collection in Canberra in July.

She will focus on a ground beetle species known from the Pilbara region, and will compare and collate information about the species' characteristics, ecology and distribution patterns.

"I hope to use this experience of working with internationally-recognised specialists to assist in the conservation of this little-known species," Nadine said.

Juliet plans to use her scholarship to further her research on the trigger plant genus *Stylidium*, a plant group that she has been studying for the past 10 years.

Juliet will visit specimens collected by European botanists before the establishment of the WA Herbarium in 1928, which are held in Geneva and Munich.

Juliet said she would present her findings at the XVII International Botanical Congress in Vienna in mid July, which is held every six years.

"This is a once in a lifetime opportunity to compare records held in other parts of the world and present them at a forum that conveys the newest developments throughout the botanical sciences," she said.

The scholarship was established to honour the work of June Craig, WA's first woman Minister with a conservation-related portfolio and second ever female Cabinet Minister. It was developed to encourage and support all women in CALM, to enhance and develop their careers.

June Craig was present at the ceremony to honour the recipients and thanked CALM for continuing the scholarship.

"There is a wonderful variety of activities contained within CALM and... a wonderful variety of skills represented in the June Craig scholarship," she said.



June Craig (left) and Environment Minister Dr Judy Edwards presented Nadine Guthrie (second from left) and Juliet Wege (right) with the Scholarship for All Departmental Women in honour of June Craig.

Study support



Kathleen Mulholland presented Mark Pittavino with the Leadership Scholarship in memory of Seamus Mulholland, which honours her brother.

UNDERTAKING further study was something CALM Planning Officer Mark Pittavino, who's based in the Busselton Work Centre, had wanted to do for years.

Now, with help from the Leadership Scholarship in memory of Seamus Mulholland, Mark is almost halfway through his Graduate Diploma in Education (Training and Development), which he is completing externally through Curtin University of Technology.

Mark said the scholarship, which was established to honour the memory of the late Seamus Mulholland and provide continuing education opportunities, had enabled him to obtain a computer and help pay his fees.

"My Graduate Diploma in Education is teaching me skills in leadership, communications, management and organisational change and I'm able to apply these skills to my day-to-day work.

"I'm also learning about the different ways of getting information across and ways that different people learn.

"There are many things, including time and money, that deter people from undertaking further studies.

"But with the support of the District and the Dwellingup Training Centre as well as the ease of studying through Curtin University externally, I am managing to undertake study that I can apply to my job and that interests me."

Hard work pays off with CALM's cadetship program

NINETEEN-year-old former CALM Bush Ranger, new CALM Cadet and 2005 WA Youth Award finalist, Tina Bowers, admits she got where she is by hard work but says she wouldn't have had the opportunity without the CALM Bush Ranger program.

Tina graduated from John Septimus Roe Anglican Community School in 2003 and is in her seventh year with CALM Bush Rangers. She returned to the school, after she graduated, as an adult instructor.

At the beginning of this year, she started a Bachelor of Science (Biological Science) degree at Edith Cowan University after completing a six-month bridging course and her Certificate III in Conservation and Land Management, under the CALM Bush Ranger program.

Tina received a cadetship with CALM under the National Indigenous Cadetship Project, which gives her financial assistance while she's studying and work experience during the semester breaks.

"I'm really interested in conservation and would love to go on and do CALM's Graduate Recruit Training Program once I've finished studying," she said.

CALM's Aboriginal Employment and Development Officer, Beth McKernan, said CALM Bush Rangers offered a great pathway for Indigenous people to pursue careers with the Department.

"We currently have six people in the cadetship program, which is co-funded by the



John Septimus Roe Anglican Community School teacher and CALM Bush Ranger Instructor, Carleen Edwards (left) and CALM Bush Ranger Instructor and CALM Cadet, Tina Bowers.

by Rhianna Mooney

Department of Employment and Workplace Relations and CALM," she said.

"The program is a fantastic way to support people who want to study at a tertiary level and it places them in a good position to get experience in their chosen field which, in turn, helps them with their

future career prospects."

John Septimus Roe Anglican Community School Head of Home Economics and CALM Bush Ranger Regional Coordinator, Carleen Edwards, said she was thrilled that Tina had been awarded the cadetship.

"Tina has worked hard to get where she is and she deserves it more than anyone I know," Carleen said.

"I'm sure her desire would have been there,

but the opportunities wouldn't have without the CALM Bush Ranger program.

"It has given her, and other students, opportunities and skills they wouldn't have had otherwise.

"It's the best program of its kind and offers support and advice for young people and a good level of knowledge in the field of conservation."

Carleen said it was not uncommon for students to return as a CALM Bush Ranger adult instructor once they had finished school.

"Coming back gives the young people a sense of belonging. We've got one CALM Bush Ranger who's been an instructor for four years," she said.

"Tina relates really well with the other students and she plays an important mentoring role.

"She's an example of someone who has worked hard and is achieving wonderful things."

Strategic Development and Corporate Affairs Director, Ron Kawailak, said Tina's success could also be attributed to the support she received from her school and, in particular, Carleen.

"Carleen should be congratulated on the contribution she's made to the CALM Bush Ranger program for the past seven years," he said.

"Tina's story is indicative of the potential achievements of CALM Bush Rangers who have the support of their teachers and unit leaders."

Lending nature a helping hand



Yanchep National Park Manager, Ray de Jong, with Yanchep District High School student, Scott Drummond, and Wanneroo MLA, Dianne Guise, at the media launch of the Yanchep Recovery Project. Photo - Kim Cream

A unique chance to take part in a hands-on nature conservation project is being offered at Yanchep National Park.

The new Yanchep Recovery Project gives the community - particularly school children - the chance to help with the rehabilitation of the park following January's devastating fire.

The deliberately-lit fire burnt out 1600 ha of the park.

CALM's Yanchep National Park Manager, Ray de Jong, said the program allowed the community to look after a small area of the park by seed collection, planting, weeding and monitoring growth.

"It's a great opportunity for the community to put time and effort into the local environment and at the same time take ownership of a small part of a beautiful national park," he said.

"It will also make them aware of the biodiversity recovery process and to see first-hand how bushland can regenerate after fire."

CALM nature conservation staff and park rangers will monitor the efforts of groups involved in the recovery project.

Each contributing group will be recognised with signage in their designated project area.



Extended family network

by Sue McKenna

GROWING up in an extended family environment in Malaysia with plenty of cousins, aunts, uncles, brothers, sisters and grandparents has given Mike Choo a firm family outlook on life.

That outlook is translated to his work life as a Senior Research Scientist, where he regards CALM as a much larger family of friends and colleagues.

"We appreciate that everyone is part of the team, and having a big family background makes you take a more understanding approach," he said.

Mike grew up in an atmosphere where respect for the older generation was very important; something he thinks has a positive effect on home and work life.

"People tend to be more caring, sharing and tolerant when they come from large families," he said.

One of the things he most enjoys about working with CALM is there are many people of different nationalities.

"CALM is a microcosm of biodiversity... The more diversity in CALM, the better it is!" said Mike, who works with the Science Application Program in the Science Division and who was a member of the Department's Equity and Diversity Taskforce.

"In my youth I never dreamed I'd have a career in conservation because I didn't have a lot of exposure to environmental science," Mike said.

Mike completed his graduate and postgraduate studies in Computer Science at the University of Technology in Loughborough, UK, before emigrating to WA in 1976 to join other family members. He found employment in the private sector in Perth.

He joined CALM's Wildlife Research Centre in 1985 as technology was being introduced to the Department.

"One of the first things I did was develop a strategy on how to approach computerisation and how to integrate and manage research data," he said.

Since then he's been involved in many projects including Florabase, CALM's online flora database.

Divers monitor seagrass at Marmion, Shoalwater

A team of five CALM divers recently undertook seagrass health monitoring in the Marmion and Shoalwater Islands marine parks.

Seagrass health sites that were established in 2002 were revisited and additional sites were installed.

Variables that were measured included seagrass shoot counts, maximum and average shoot length and the type and percentage cover of epiphytes.

The Marine Parks and Reserves Authority (MPRA) has emphasised the need for more quantitative information to be obtained to help

to assess the health of many of the ecological values of the State's marine parks.

The Swan Coastal District is helping to address this information shortfall through the implementation of annual marine monitoring programs.

"Seagrass is an excellent indicator of the health of the marine park," said CALM Marine Conservation Officer, Kylie Ryan.

"We'll continue to revisit these sites on a regular basis to develop a meaningful dataset that shows change over time."

In 2004, the Swan Coastal District started long-term programs to monitor the western

rock lobster and finfish populations in the Shoalwater Islands Marine Park.

These data will be used to monitor changes in abundance and size over time, as well as assessing the conservation benefits of different zoning, should it be implemented in the park in the future.

These programs were designed in consultation with marine researchers from CSIRO and Edith Cowan University. ECU also provided custom-made video equipment that was used to monitor fish populations.

The ecological data collected by the district will be important for use in CALM's

performance assessment 'report cards.'

These have been developed by CALM to assist the Department and the MPRA to monitor the implementation of marine park management.

The report cards contain quantitative and/or qualitative information to assess the condition of key ecological and social values, the pressures that are being exerted on those values, and the management responses that are being applied.

These assessments help CALM to apply an adaptive management approach and focus its efforts on priority issues for the parks.

Conservation briefs

Community involvement for conservation on south coast

A draft 10-year management blueprint for the D'Entrecasteaux and Shannon national parks has been released for public comment.

It proposes strategies to manage the parks over the next decade in relation to public access for recreation and tourism and protecting the conservation, cultural, economic and educational values of the parks.

The public comment period closes on 29 July. Copies of the plan can be obtained from CALM's offices in Perth, Manjimup, Pemberton and Walpole.

Copies are also available from CALM's website, www.naturbase.net.

New floating jetties for Matilda Bay

CALM has installed two floating pontoon swimming jetties at popular picnic spot Matilda Bay.

They replace the dilapidated and dangerous jetties built in the 1940s.

The new jetties are anchored to the bottom using railway iron train wheels and are made of a poly carbonate timber look-alike which is fade, fire and flood resistant.

They are 50 m apart, so swimmers can swim laps if they choose.

Comments sought on plan change

The Marine Parks and Reserves Authority is seeking public comment about a proposed amendment that would allow dog access and in-water exercise in part of the Alfred Cove section of the Swan Estuary Marine Park.

The proposed amendment would allow an in-water dog exercise area along 67 m of the marine park foreshore.

The proposed amendments are available on CALM's website, www.naturebase.net or from CALM's State Operations Headquarters on 9334 0333.

Fun and learning... sharing the dreaming

CALM staff from many different offices recently had a great day at Walyunga National Park.

It was a special day organised by the Department's Indigenous Heritage Unit to provide knowledge and general understanding of Nyoongar culture.

The stories and explanations of Aboriginal country and the spiritual connection to the land and wildlife were told by Koodah Cornwall and beautifully embellished by his daughter Delvene.

The group was encouraged to respect and feel the spirit of Walyunga National Park and its ancient Aboriginal garden, resting area and toolmaking site where, with appropriate chants, Public Affairs Officer, John Hunter, returned quartz flakes collected some 27 years ago.

John has been with the public service for more than 47 years, the past 20 with CALM, and before that with the National Parks Authority, the Department of Fisheries and Wildlife, and the Public Works Department.

It's a day thoroughly recommended to anyone who has yet to participate and feel the empathy and spiritual connections to a unique place and culture.

John thanked Koodah, Delvene, Denise, Marissa, and Tania for the day of fun and learning.



CALM's Public Affairs Officer, John Hunter, returns the flakes under Koodah Cornwall's (left) ceremonious eye. Photo - Denise Griffith



The group takes part in a traditional Nyoongar dance - 'The Willie Wagtail'. Photo - Denise Griffith

Staff changes . . . Staff changes . . . Staff changes . . . Staff changes . . .

Contract

Lindsay Steer, Ranger's Assistant, Pilbara Region, Exmouth; Michelle Reid, Seasonal Ranger, West Kimberley District, Geikie Gorge National Park; Maria Ware, Officer, WA Herbarium, Kensington; Kate Fitzgerald, Marine Conservation Officer, Marine Conservation Branch, Fremantle; Ross Kermod, Visitor Services Officer, Swan Coastal District, Yanchep National Park; Kathleen O'Brien, Land for Wildlife Officer, Katanning.

Promotion

Leanne Thomas, Project Officer, Corporate Information Section, Kensington; George Watson, District Parks and Visitor

Services Coordinator, Moora District, Jurien Bay; Kate Roy-Chowdhury, Field Officer, Wellington District, Collie; Vince Hilder, District Fire Coordinator, Jurien Bay.

Permanent

Ian Welch, Project Officer, Corporate Information Section, Kensington; Campbell Youngson, Records Training and Audit Officer, Corporate Information Section, Kensington; Juanita Renwick, Land Management Officer, Policy and Practices Branch, Bunbury; Simon Martin, Fire Management Project Officer, Fire Management Services, Bunbury.

Temporary deployment

Daniel Cock, Reserves Officer, Wheatbelt Region, Katanning.

Change of surname

Cherie Potaczala (nee Whyte), Officer, Exmouth District; Fiona Roberts (nee Griffin), Officer, Blackwood District, Kirup; Tiffany Taylor (nee Aberin), Senior Graphic Designer, Strategic Development and Corporate Affairs.

Contract ceased

Erika De Groot, Officer, Wildlife Protection Branch, Kensington.

Resignation

Kristan Hall, Ranger, Exmouth District; Rose Haggart, Officer, Dwellingup Training Centre; Sarah Adriano, Reserves Officer, Goldfields Region, Kalgoorlie.