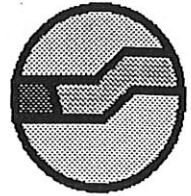




The Plant Press

Western Australian Regional Herbaria Newsletter
PERTH
W.A.

Volume 7 December 1999



New Books
page 11

**Land for
Wildlife** page 7

Biocontrol
page 4

Openings
pages 4 & 9

THE REGIONAL HERBARIA CONTINUE TO VALUE-ADD

This bumper edition of 'The Plant Press' is proof of the booming CALM and NHT (Natural Heritage Trust) funded Regional Herbarium Program. Regional Groups continue to make substantial contributions to knowledge of threatened flora, add information on variation of species and provide new geographic records.

The Program will continue to receive NHT funding until January 2001 so we only have one year to seek alternative funding. The Herbarium needs your support to ensure our project continues. Why not spread the word about what we do; if they are not already involved, explain how our comprehensive identification and information service can help with revegetation, locate saline tolerant plants or access a description of the habitat preferences of any native plant. Also you can access information about the State's weeds many of which are unfortunately a part of our flora.

The focus of our information systems, FloraBase, is freely available to collaborating Groups; this electronic system already enables a rough identification of any unknown native or weedy plant. The next task of herbarium botanists here at the Perth Herbarium is to make this system much more comprehensive. Watch this space to learn more about our planned "How to Use FloraBase" training programs to be held near your region in 2000.

We were unsuccessful in gaining funding for a parallel network to collect vital information about

our weeds. The Federal funding agency said that it was a project, which should be funded by the State. The State said that the Commonwealth should fund the project!!! Nevertheless we are progressing so keep those weed specimens coming in.

Weed collections need some extra label information compared with native plants. In addition to a precise location and the usual habitat notes it is essential that we record the degree of disturbance of the habitat. We need to know if it was a garden, paddock or rubbish dump. Or, is it in degraded bushland and if so, how has it been disturbed? Another essential observation to be added to the specimen label is whether the weed is regenerating, and if so, how? If you would like to learn more about the special information we need to collect useful weed specimens contact Kaye Veryard at the Herbarium in Perth on 9334 0500.

Have you noticed that there are an increasing number of picture books on our plants being published? The knowledge collected on our plants is now being made available to many users; wild-flower books can more easily be up-to-date with names. The clever authors contact the herbarium

(Continued on page 12)

Newsletter of the Community Regional Herbarium
Volunteer Program
Editor: Margaret Lewington
ph 9334 0587
email: <margl@calm.wa.gov.au>

☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆
☆
☆ **New Herbaria** ☆
☆ Since the 'Plant Press Vol. 6' came out, ☆
☆ we have received first boxes from Bennett ☆
☆ Brook, Useless Loop, Wellstead, Naremben ☆
☆ Gwambygine, Jurien Bay and Wubin. ☆
☆ There have also been many boxes from ☆
☆ established herbaria - thank you all for a ☆
☆ great effort! ☆
☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆

Notable Collections

This is the first column in what will be a regular series in 'The Plant Press'. "Notable Collections" will highlight some of the more exciting plant finds made by collectors within the Regional Herbaria network.

What may be termed notable or significant collections continue to occur with great regularity and given the size of our state and its famous floral diversity, maybe this should not surprise us too much. Such collections can be subdivided into several categories.

Priority taxa (1, 2 & 3) are those that need further survey work to establish their true conservation status. (See 'Plant Press' volume 4 for full definitions of the priority codes but in broad terms, the lower the code number the higher the conservation priority.) Such survey work is ongoing and in time will variously lead to these plants being declared rare flora, being removed altogether from the priority list or being transferred to priority 4. This latter code covers those taxa that, although uncommon, are considered to have been adequately surveyed and not currently threatened but still in need of periodic monitoring. Most incoming boxes from the regional herbaria contain at least one priority taxon and because these are often from new populations they are particularly welcome.

A second category of significant collections is Declared Rare Flora. It is of course against the law to knowingly collect plants that have been assigned DRF status without special permission and if you recognise or suspect that a plant is DRF do not collect it. It is a good idea to familiarise yourself with your local declared rare taxa to lessen the chances of an inadvertent collection from a known population and to keep an eye out for new populations. Should you find what appears to be a new DRF population, you should notify the herbarium and your local CALM office. Occasionally of course DRF collections are inadvertently made and some of these have been from new localities and as such are very important finds. Where DRF or Priority flora specimens are received by the Herbarium, a

standard report form is forwarded to the collector for recording any details about the collection that can be provided. This information is then incorporated into CALM's flora management program.

Further categories of significant collections include major range extensions, the rediscovery of plants not seen in decades and, maybe most exciting of all, completely new species.

This latter category can itself be subdivided into roughly two groups. The first of these includes those genera that are relatively well-known taxonomically and/or are currently being studied by an Australian taxonomist. The recent discovery of *Lysiosepalum aromaticum* ms by Gwennyth Warren and friends near Narrogin (see Carole Wilkins' article on page 6 of the last issue of 'The Plant Press') is an example from this group. In this case, when it was realised that Gwennyth's specimen did not seem to match any named taxon, it was an easy step to draw it to the attention of Carole Wilkins during one of her frequent visits to the Herbarium. Carole is currently working on several genera within the family Sterculiaceae, including *Lysiosepalum*, for a forthcoming volume of Flora of Australia. She was soon able to confirm that it was indeed new and with Gwennyth's help quickly furnished it with a name. Unfortunately this process is not always that easy, which leads us to the second group - those plants that are potentially new or at least undescribed but the true status of which must await revisionary studies within the genus.

A significant percentage of our flora still awaits a satisfactory taxonomic treatment, including such large and important elements as *Leucopogon* in Epacridaceae, *Lepidosperma* and *Schoenus* in Cyperaceae and the small-flowered myrtles, (*Baeckea*, etc.) in Myrtaceae. Because the taxonomy of these genera is so complex, it is not always clear whether a specimen that appears to be quite different is really new or just an anomalous variant of something else. In such cases it may be many years before confirmation that a particular collection did indeed represent a species new to science at the time.

Collectors within the Regional Herbaria network are always advised in the comments

(Continued on page 8)

Some thoughts on my visit to Ravensthorpe Wildflower Show, September 1999

Ravensthorpe Range is named after a village in Northamptonshire, England which was the home of the Bishop of Adelaide. I know this because wildflower collectors are usually multiskilled and just as likely to be found minding the Tourist Bureau or writing a local history as collecting the local flora.

A*Acacia glaucoptera*. Everywhere during my stay I saw this local plant in all its forms - prostrate, erect, short or tall, narrow or wide-winged. All were an embarrassing reminder of the straggly plant back home in my garden.

Visitors. What interesting people visited the Show. There was a coachload of keen amateur photographers from Australia and New Zealand who arrange their own itineraries to camera-worthy places around the world each year. Meryl Bell, a well known floral artist, came seeking a particular flower to complete a painting. One gentleman, who comes each year, photographed individual flowers with great patience and much equipment.

Enthusiasm and Energy. Such a lot of this is involved in the collection and arrangement of the flowers. It is no mean feat to have over 700 different species set out in a couple of days, and all sorts of jobs had to be done, not the least of which was bottle-washing.

Naming the flowers. I had been invited to help with this because I am a volunteer with the Regional Herbaria program. Fortunately many collectors knew their own plants and could assign names straight away, so that by the time of the official opening the display was well labelled, at least to genus. Later, Rae Papenfus and I enjoyed working with local collectors in identifying some of the more difficult groups. The specimens from the Ravensthorpe Herbarium were, of course, invaluable for comparison and verification.

Santalaceae. I was particularly interested to see a range of representatives from this family. Similarly, as you might expect, several genera from Proteaceae, Myrtaceae and Papilionaceae were well represented so the Show was a wonderful learning experience.

Tourists. They came before the Show was open, and they came to ask where the wildflowers were as they hadn't seen any in the region. Ah well!

Hospitality. Ravensthorpe folk are always so friendly. Apart from being accommodated by Merle Bennett and Enid Tink, Rae and I were taken to dinner at the local hotel, provided with lovely lunches every day and altogether made to feel very welcome. Thank you everybody.

Organisation. Flower collecting, shelf assembly, label preparation and update, allocation of space to families and genera, these are just a few of the tasks involved in setting up such a large display. It couldn't have happened without the organising skills of Merle.

Rare and endangered species. None of these were picked, of course, but one of our visitors was Sarah, the DRF Officer from Albany.

P*imelea physodes*, the spectacular Qualup Bell. Whole plants were dug up (from private property, of course), to highlight the decorative displays. Once again I was embarrassed to remember my failed gardening efforts.

Envy. Well, I couldn't help feeling a touch of that. All those marvellous garden plants just growing wild! Lots of Enjoyment too.

Gillian Smith

☞ Triumph for Tammin ☞

The Tammin Regional Herbarium opened on 27 October 1999. Enthusiasm and five years of hard work by Glenice Batchelor, a local resident and former TAFE lecturer in Australian flora, her husband Fred and helpers from the district have turned a deserted railway goods shed into an eye-opening herbarium. Help also came from a National Heritage Trust grant.

The interior of the herbarium has a vintage church lectern displaying books on WA flora and a wall of compactus units that house pressed plant specimens for public use. On the outside wall leading to the front door, there is a series of laminated photographs showing aspects of the local community at work and play.

After listening to Glenice, it was clear that the herbarium is not to be just a storeroom of dried specimens for local or visiting botanists. The Tammin Shire has less than 4% of total area left as natural bushland. The clear message is that the herbarium is to define local taxa as part of an integrated approach with the local community and other groups involved in rehabilitating degraded areas in the Tammin Shire.

The role of the herbarium and its importance was mentioned by Dr Neville Marchant, Director of the WA Herbarium, when he attended to open the Tammin Herbarium, accompanied by Mrs Marchant.

Next day a well-attended meeting of those

interested in the Herbarium was held at the Alcoa Landcare Centre.

Bill Coad, a volunteer from the WA Herbarium, emphasised the importance of correct vouchering when submitting specimens. Linda Taman gave an interesting address on sedges and grasses, much overlooked but essential parts of the rehabilitation process. Geoff Cockerton from the Sustainable Seedbanks group spoke on the methods of collecting and storing seeds successfully and followed up with a practical demonstration on a local field trip.

A further spontaneous demonstration of seed extraction (but not storage) was provided by Years 4-7 local school students as they consumed large helpings of quandong fruits.

Jan Gathe, Co-ordinator of the Community Regional Herbaria Volunteer Program, attended, accompanied by volunteers Bill Coad, Anne Matthews, Ella Fagence and Chris Hollister. Together with Dr Neville Marchant, all were made very welcome by the people from the district and enjoyed the refreshments at the opening and the sausage sizzle afterwards, which were organised by Glenice and helpers. Jan and the volunteers stayed overnight at the Alcoa landcare centre and were very appreciative of the hospitality shown by the tireless caretakers, Heather and Don.

Chris Hollister

Biocontrol of Bridal Creeper - your chance to help

If you have bridal creeper on your property, or you're involved with an environmental group battling this pest, this is your chance to be involved in a biological control project. The CSIRO and the CRC for Weed Management Systems are seeking collaborators to release the bridal creeper leaf hopper in winter 2000.

Details required are your name, address and telephone number (also fax and email if you have them). Also include the address/location of the bridal creeper infestation(s) and a brief site description. Send this information to:

Ms Kathryn Batchelor
CSIRO Entomology
Private Bag
PO Wembley WA 6014

Tel: 9333 6643
Fax: 9333 6646
email: k.batchelor@cmar.csiro.au

~~WEED~~

Flora Image Database

We were very happy to receive slides and prints in response to our request in the August issue of 'The Plant Press'.

This time we are seeking slides and prints for the following species; (e=environment; f= flower; h=habit):

ORCHIDACEAE

<i>Calochilus campestris</i>	efh
<i>holtzei</i>	efh
<i>robertsonii</i>	eh
sp.A Kimberley Flora	efh
sp.Hopetoun	efh
sp.South-west swamps	efh
<i>Corybas abditus</i>	efh
<i>despectans</i>	eh
<i>limpidus</i>	eh
<i>recurvus</i>	e
<i>Cyanicula ashbyae</i>	efh
<i>caerulea</i>	efh
<i>caerulea</i> ssp. <i>apertala</i>	efh
<i>fragrans</i>	efh
<i>gemmata</i>	e
<i>gertrudiae</i>	efh
<i>ixioides</i> ssp. <i>candida</i>	eh
<i>sericea</i>	e
<i>Cymbidium canaliculatum</i>	efh
<i>Paracaleana dixonii</i>	h
<i>linearifolia</i>	efh
<i>lyonsii</i>	e
sp. <i>Nuytsland</i>	efh
<i>terminalis</i>	e
<i>triens</i>	e

STERCULIACEAE

<i>Rulingia corylifolia</i>	h
<i>craurophylla</i>	eh
<i>cuneata</i>	ef
<i>cygnorum</i>	eh
<i>densiflora</i>	eh
<i>grandiflora</i>	efh
<i>kempeana</i>	efh
<i>loxophylla</i>	efh
<i>luteiflora</i>	eh
<i>magniflora</i>	efh
<i>malvifolia</i>	efh
<i>malvifolia</i> var. <i>borealis</i>	efh
<i>parviflora</i>	efh
<i>platycalyx</i>	efh
<i>rotundifolia</i>	efh

DILLENIACEAE

For the Hibbertias we need slides and prints of all kinds for every species EXCEPT the following, for which only 'd' is required, i.e. botanical detail such as bud, fruit.

<i>Hibbertia acerosa</i>	<i>Hibbertia miniata</i>
<i>cuneiformis</i>	<i>montana</i>
<i>enervia</i>	<i>ovata</i>
<i>furfuracea</i>	<i>racemosa</i>
<i>glomerata</i>	<i>rupicola</i>
<i>hypericoides</i>	<i>spicata</i>

We'll be delighted to have any slides or prints you are willing to lend us. As you know we keep them locked away and return them to you as soon as they are scanned.

Kath Napier

Ambergate Reserve

This reserve a few kilometers inland from Busselton has been biologically surveyed and rehabilitated by the Busselton Naturalists' Club and members of the Busselton Regional Herbarium. On 13th November, Margaret Lewington and I were lucky enough to be shown over the reserve by Dennis Cooper and four other members of the Naturalists' Club. Despite being divided into four parts and being used for grazing and as a rubbish dump in the past, the reserve was remarkably healthy - a testament to the hard work of the Naturalists' Club members. They have eradicated *Watsonia* and other weeds from a former sandpit and replanted with local species. Their regular attacks on weeds in this and other areas of the reserve have been very successful. Many native species were in flower including *Anigozanthus viridis*, which is now difficult to find around Perth.

Jan Gathe

Friends of Warwick Bushland Regional Herbarium



Collecting your specimens systematically



The Friends of Warwick Senior High School Bushland began in 1997 and expanded this year to form a new group called the Friends of Warwick Bushland to care for the 58 ha of bushland in Warwick Open Space that surrounds the 1.5 ha of school bushland. Warwick Open Space is a Bushplan site and is zoned as Parks and Recreation with extensive conservation areas of Tuart/Jarrah/Banksia Woodland in good condition. It is bounded by Erindale, Beach, Warwick and Wanneroo Roads in the suburb of Warwick, Perth. The Warwick bushland is of regional conservation value to the Perth metropolitan area because it represents an intact example of the native vegetation that was once widespread on the Spearwood Sand Dune System of the Swan Coastal Plain (the plain between the Darling Scarp and the Indian Ocean). The aim of our groups is "to maintain and as much as possible improve the condition of the Tuart/Jarrah/Banksia woodland that remains.

The group's Regional Herbarium was established in 1998 but collection has been slow until recently and mainly the initiative of one person. This spring, with an expanded membership, we decided it would be better to collect as a group using a systematic approach that would allow us to compile a herbarium of most of the species at the site relatively quickly. To achieve this we decided to conduct a botanical survey using the community-based methods of the Wildflower Society of WA described in the book "Bushland Plant Survey" by Bronwen Keighery (1994). These methods are simple to follow and do not require a knowledge of vegetation and flora beforehand. Experience in the methods had already been gained by several of our members through involvement with the Wildflower Society's Bushland Plant Survey Project and the equipment required was loaned from Ecoplan at the Department of Environmental Protection.

The recording sheets in Keighery (1994) were used but adapted to ensure all the detailed information required for each set of duplicate

plant specimens was collected. We intend to transfer this information into the computer directly, to MAX's collecting book, rather than write out the information again by hand into our collecting books. Labels can then be printed from MAX for our herbarium sheets and lodging our specimens with the notes on disk will greatly assist the staff at the WA Herbarium.

On 15 August 1999 we set up 3 quadrats measuring ten by ten metres and collected duplicates of all of the species present in each 100 m². We then searched the adjacent area of each quadrat for any additional species not present within the quadrats. The quadrats were placed in areas representative of the different plant communities observed and at different points in the landscape (up-slope, mid-slope and down-slope). Of course, not all of the species were flowering at the time of the survey so only those in flower will be submitted as Regional Herbarium specimens. For the others we will use our specimens to identify which species we need to go back to and collect from when they are in flower. We permanently marked the quadrat corners with metal stakes and made detailed notes of each quadrat's location in case the stakes go missing. On the 17 October 1999 we set up a 4th quadrat in a different area to ensure that we covered the full range of plant communities that we could observe from the aerial photo and by walking through the site. Many of the annual herbs were present at this time making a marked contrast with what we'd seen in August. We now need to revisit the first 3 quadrats to pick up the late spring-flowering shrubs, grasses and annual herbs.

At the first session we had 13 people, despite the rain, and everyone enjoyed discovering the trees and shrubs right down to all the grasses, herbs and sedges that most had never noticed before. People were crawling around on their hands and knees filling envelopes with dainty herbs they never dreamt existed before. Everyone was amazed at how many species were present in

(Continued on page 8)

Land for Wildlife

Many people are very keen to manage their land so as to maintain or enhance its value for nature conservation. Whether it be a patch of banksia woodland, a wetland or a rocky outcrop, if it carries some native vegetation it can be valuable habitat, if managed appropriately. But to obtain the right advice is not always easy.

Books can help. So can telephone conversations. But the very best advice comes from on-ground inspections, and this is what Land for Wildlife is set up to do.

Land for Wildlife is a voluntary scheme that aims to encourage and assist private landholders in WA to provide habitats for wildlife (flora and fauna) on their property, even though the property may be managed primarily for other purposes. A person would contact a LFW Officer, registering their interest in the scheme, then arrange for someone to come and visit the property.

The landholders and the LFW Officer look at sites, discuss plans and consider issues specific to each property, e.g. - 'could there be a rare orchid here?' - 'how can we get understorey back into salmon gum woodland?' - 'how can a bush corridor be designed to bring robins back to the house and still provide a windbreak and watertable control?' - 'is my bushland suitable for the reintroduction of tamar wallabies?'

Apart from a detailed property report, each person who registers with Land for Wildlife will receive the quarterly magazine 'Western Wildlife' and other publications, e.g. all 'Plant Press' readers will be aware of LFW's booklet No. 1 'How to create a local herbarium', which was written by Sue Patrick. We also organise Field Days and other events as requested by members, the most recent being a 'Managing Granites' day at Hyden and a 'Fauna Evening' at Perup.

If you have a query about bushland management or revegetation for fauna habitat, why not contact Land for Wildlife to see whether we can help you? Ring your nearest Land for Wildlife Officer, or call me on 08 9334 0530.

Penny Hussey
Land for Wildlife Coordinator

Mounting Workshop at Jurien Bay

In mid-October, I travelled to Jurien Bay to hold some workshops on how to mount wildflower specimens. I had been doing this for about 18 months at the WA Herbarium so, when asked by Joy Williams of Hi-Vallee, Badgingarra, if I'd be interested, being a keen bushwalker and wildflower person, the opportunity was quickly taken. Margaret Puckridge offered to have me stay and publicised my visit. It was for me a great success as about 14 interested ladies attended the three sessions. Herbarium needs and requirements were explained, layout shown and the necessity for presenting specimens to their best advantage was also discussed. Several of the ladies had concerns about collection and storage of specimens, which I answered as best I could. Later the ladies had a couple of

LFW Officer	Location	Phone no. (work)
Heather Adamson	Merredin	08 9041 2488
Avril Baxter	Narrogin	08 9881 1444
Emma Bramwell	Perth	08 9334 0427
Jenny Dewing	Bridgetown	08 9761 2318
Robert Huston	Mundaring	08 9925 1955
Cherie Kemp	Busselton	08 9752 1677
Sylvia Leighton	Albany	08 9842 4500
Anne Rick	Newdegate	08 9871 1791
Robyn Stephens	Morawa	08 9971 1598

opportunities each to practise mounting specimens they'd collected in a "hands-on" session, with further questions also being dealt with as they arose.

Their enthusiasm and the warm hospitality of Margaret and her husband Neil, not to mention the song and piano sessions each night and the fresh fish meal, were all added bonuses. Thank you for the opportunity to help out.

Fran Kininmonth, Herbarium Volunteer

Warwick Bushland (Continued from page 6)

each quadrat, with over 60 in several, even though this urban bushland is subject to a lot of disturbance factors threatening its biodiversity. Five people came on the second session which was less well advertised but the weather was fine and the collecting just as prolific and interesting.

We now have hundreds of well-collected specimens to sort and process and the active involvement of many members of the group who before did not want to collect for the herbarium. We've gained a number of new members in our group and everyone, including the City of Jondalup, is eagerly awaiting the results of our botanical survey which will have a major input into the soon-to-be revised management plan for the reserve. We strongly believe that you cannot manage an area effectively until you know and understand its flora and vegetation. We can now compile a species list covering approximately 85% of the flora at the site and this list can be expanded over time. We can produce a comprehensive weed list and determine those requiring most urgent treatment. We'll find out if we have any rare or priority taxa. We have accurate descriptions of the vegetation community types present in the reserve and their condition. Finally, our quadrats can be used over time to monitor the health of the reserve and the effectiveness of management activities.

If you'd like to know more about how we did the survey to fit in with the requirements of the regional herbarium collecting process, please feel free to contact Karen Clarke on (08) 9342 8482. It is an ongoing process as we will be revisiting the quadrats over a number of seasons and years. We'd be happy for anyone to come and visit or join in to learn how to conduct such a survey. We feel collecting systematically in this way is far more valuable for us than opportunistic collecting as it fulfils a number of objectives at the same time and ensures that we do not overlook any of the species present in our bushland. It is also a much more inclusive process for our members who are interested in plants but that do not feel confident to collect.

Karen Clarke

Notable Collections (Continued from page 2)

column of the returned species list if they have found anything particularly interesting and why. Below then are a couple of these significant collections that have recently come in to us from the regional herbaria.

Val Crowley of the West Arthur regional herbarium probably knows the plants of the eastern central forest region in the Darkan-Boyup Brook areas better than anybody. Her collections made over many years have made a major contribution to a better understanding of the flora of an area that has certainly been neglected in the past. Val has made a number of important finds and among her latest is the rediscovery of a long-lost *Hemigenia* and a potentially new species of *Hypoxis*.

Hemigenia ramosissima was for many years confused with *H. rigida* until taxonomic work by WA Herbarium botanist Barbara Rye indicated that the two species were distinct from each other and that while *H. rigida* was a common species of the forest, *H. ramosissima* was almost certainly rare. So rare in fact that it appears not to have been recollected since the type collection was made by James Drummond in the middle of the last century. So just when it began to appear probable that the true *H. ramosissima* was in fact extinct, in came Val's collection.

From the same site as the *Hemigenia* came a second unusual collection. There are seven recognised taxa of *Hypoxis* in WA. For those unfamiliar with the genus, they are all small yellow-flowered cormous perennials. What makes Val's collection stand out as being potentially a new species is the pronounced obovoid shape of the ovary (not evident in related WA species) together with differences in style detail. Dr Terry McFarlane is currently working on *Hypoxis*.

Mike Hislop, Identification Botanist



Colour Guide to Spring Wildflowers of Western Australia

Part 1: Kalbarri and the Goldfields

Eddy Wajon has self-published a "Colour Guide to Spring Wildflowers of Western Australia. Part 1: Kalbarri and the Goldfields". This is the culmination of at least five years work, most intensively in the last two years.

The book is designed for those who know nothing about wildflowers. It describes plants using simple non-technical terms, and organises them by colour. There are also two maps showing where to go to see the flowers shown in the book.

The book (with a bright pink cover) retails for \$19.95 (RRP) and is available in most bookstores and newsagents. The book is also available from Eddy direct for \$18. Postage is an additional \$2.50.

Eddy is an Environmental Scientist who works for Kinhill Pty Ltd, and is the WA Native Orchid Study and Conservation Group's delegate to the Conservation Council.

Two calendars for the year 2000 with Eddy's photographs have also recently been published. These are the Orchids of Australia Calendar which contains solely Eddy's photographs, and the Wildflowers of Australia Calendar which contains three of Eddy's photographs.

The Calendars come in two sizes, a Large which retails for \$9.95, and a Small which retails for \$3.95. However, they can be purchased direct from Eddy for \$9 and \$3.50. Postage is an additional \$2.50 (for the Large only).

So for all your Spring Wildflowers and Christmas gift needs, get in contact with Eddy! His contact details are:

Wajon Publishing Company
16 Eckersley Heights
Winthrop WA 6150

Phone Donna Wajon on 9310 2936

Please make all cheques payable to "Eddy Wajon".

Eddy Wajon
Environmental Manager
WA21 - The Woodman Alliance
Phone : +61 8 9214 3738
Fax : +61 8 9226 3293
e-mail: eddy.wajon@wa21.com.au

Narrogin Regional Herbarium

Wednesday 24 November was a very special day. It was the official opening of the Narrogin Regional Herbarium which has moved into wonderful quarters thanks to the generosity of AgWA (Narrogin).

Seven of the Herbarium volunteers and staff, including Neville, attended the function, which started at 10.30am. The herbarium occupies an area of the library, which opens from the main lobby in the AgWA building; it has bookshelves, cupboards, display cabinet, a large desk, comfortable chairs and carpet! Five-star accomodation!

The lobby was full of people from AgWA, CALM, Central South Naturalists Club, WA Herbarium and of course the regional Herbarium. We were all treated to a delicious "brunch" after the opening and then Neville talked of the importance of the Regional Herbarium Program in the conservation of our flora.

After this Gwen Warren and Pat Rose took us on a field trip which included the translocation site of *Darwinia carnea* and Foxes Lair, the Narrogin townsite reserve.

It was a most enjoyable day and very satisfying to know the Narrogin Regional Herbarium is so well housed and supported by the staff of both AgWA and CALM at Narrogin. We look forward to more great things from the Narrogin Regional Herbarium

Jan Gathe

Wattles of the Dalwallinu Shire

A comprehensive illustrated guide to the 80 species of Acacia (Wattles) from the Dalwallinu Shire:

- ◊ for enthusiasts and professionals
- ◊ written in non-technical language
- ◊ richly illustrated and photographed in colour

Species important in landcare and nature conservation receive special attention.

For more information contact: Bruce Maslin
tel. (08) 9334 0510; email: brucem@calm.wa.gov.au
WA Herbarium, Locked Bag 104,
Bentley Delivery Centre WA 6983



1999



For all of us involved in the CRHVP 1999 has been very interesting and eventful. The number of regional herbaria has grown from 60 to 85. Most are in the SW giving representation to important districts in that region. A few extend the range of our program, like Wanganoo Station via Leonora, Exmouth on the N coast and Scaddan in the east. We are very pleased to welcome all the new regional herbaria to our program and look forward to working with them.

The number of vouchers has grown from under 6000 early in the year to 9450 at the last count. This is really wonderful especially because of the quality of both the vouchers and their accompanying field notes. Each voucher is an important contribution to the state's Research Collection which adds to our knowledge of the flora. Some very interesting vouchers have been collected and processed this year and these have been described by Mike in 'Notable Collections'.

Identification Workshops were held at Ravensthorpe on 26-27 June and at the WA Herbarium on 14, 15 & 18 October. Participants used keys to identify a number of unknowns from the Proteaceae and Myrtaceae families. Another workshop was held at Corrigin on 12-15 July. This introduced participants to vouchering so they could survey their local reserves which have considerable tourism potential.

Wildflower shows were held by a number of regional herbaria and Perth volunteers participated in those at Ravensthorpe and Wubin. For the first time the WA Herbarium had a display at

the Kings Park Wildflower Festival 16-27 September which included information about the CRHVP and FloraBase. The display was staffed by staff and volunteers from the WA Herbarium.

Day visits were made to regional herbaria at Rockingham, York, Busselton and Margaret River by various staff and volunteers. Neville spent a day in the field with the Bunbury Regional Herbarium, which has recently moved to the CALM office there. Two other regional herbaria, Tammin and Narrogin, have also moved into new accommodation and these "openings" have been attended by volunteers and staff too.

For volunteers at the WA Herbarium there have also been a number of identification workshops. In February, March and April the Asteraceae and in November the genus *Hibbertia* were studied. In addition volunteers have had the opportunity to attend lectures by various people on the first Friday of the month from 11.00-12 noon. This year talks were given by among others, Kathy Meney on the Restionaceae, Ryonen Butcher on the genus *Synaphea* and Serena Marner from the Sherardian Herbarium, Oxford, on William Dampier's specimens. A program of topics for 2000 will be included in the next 'Plant Press' as all regional herbarium volunteers are very welcome to attend.

As you can see from the above, 1999 has been a very productive year and this was only possible because of the great ideas, enthusiasm and hard work of everyone in the Program. Thank you everyone. We look forward to another great year in 2000!

Jan Gathe

Margaret River Booklaunch

Friday 12th November was a day of great celebration! It was the occasion of the official launch and art exhibition of "Walking the Capes", written by Jane Scott and beautifully illustrated by Patricia Negus and Lynne Tinley. Jane is the founding member of the Margaret River Regional Herbarium and has a great love and knowledge of the natural history of the region. Her collaboration with Pat and Lynne has produced a superb book - a real must for all who are interested in this beautiful part of WA.

A GUIDE TO THE NATIVE GRASSES OF THE PERTH HILLS

by Una Bell

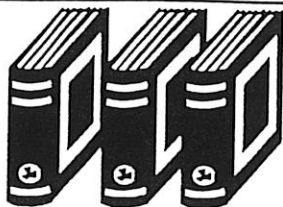
Contains information on native grasses that can be found in the Perth Hills. Features photocopies of grass specimens and some information on growing native grasses.

Cost is \$12.00 plus \$6.00 postage and handling within WA or \$8.00 interstate.

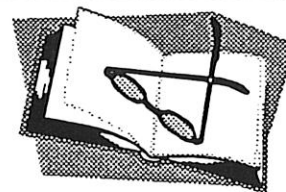
Available from: Eastern Hills Wildflower Society

PO Box 111, Glen Forrest WA 6071

Enquiries: (08) 9298 8303 or (08) 9295 1668



New Books



William Dampier in New Holland: Australia's first natural historian
by Alex George, Blooming Books, Hawthorn, Vic., 1999 RRP \$39.95 Discount price \$32.00

Walking the Capes : twenty-one walks in and around the Leeuwin Naturaliste National Park
by Jane Scott and Patricia Negus, Cape to Cape Publishing, North Fremantle, WA, 1999
RRP \$27.50 Discount price \$24.00

Flora of Australia. Volume 17B, Proteaceae 3, Hakea to Dryandra,
Australian Biological Resources Study, ABR/CSIRO, Melbourne, Vic., 1999
Hardback: RRP \$89.95 Discount price \$67.00, Soft cover (reprinted): Discount price \$52.00

Australian rushes: biology, identification and conservation of Restionaceae and allied families
Editors: Kathy Meney and John Pate, UWA Press, 1999 RRP \$95.00 Discount price \$76.00

How to manage your wandoo woodlands by Penny Hussey, CALM, Como, WA, 1999 \$10.50

Wonders of western waters: the marine life of south-western Australia,
by Sue Morrison and Ann Storrie, CALM, Como, WA, 1999, RRP \$17.00 Discount price \$13.50

Life on the rocks : the art of survival by Philippa Nikulinsky and Stephen Hopper,
Fremantle Arts Centre Press, Fremantle, WA, 1999 RRP \$25.00 Discount price \$20.00

These and other books can be obtained through the WA Wildflower Society.
Orders and queries can be sent to the following address:

WA Wildflower Society
Attn. Mrs Barbara Backhouse
Unit 8/38 Ednah Street
Como WA 6152

Wubin Wildflower Show

This wildflower show was held in mid-September to link with "Wattle Week" organised by Kalannie and Dalwallinu and was part of a larger festival that included a Bush Breakfast, historic walks, etc.

Colin Warne and his helpers set up an eye-catching display of red dirt, hollow logs, termite nests and wildflowers in the centre of the Town Hall. Tiered shelving was mounted around three walls and on this were arranged bottles of single species of local wildflowers.

My job was to help in the naming of some of the lesser-known plants but the dissecting microscope (x40) I was using and the detail that could be seen through it so fascinated people - both young and older - that I had to bring a number of samples back to Perth to work out their names! In time for next year!

It was very interesting talking to the people who attended the show - locals, farmers, gemmologists, 4-wheel drive groups, National Park guides from Sydney - all interested in our special wildflowers.

Jan Gathe

Regional Herbaria Locations

Three more Regional Herbaria have let us know where their specimens are located and when they are available for viewing. Do consider visiting the local Regional Herbaria if you are in the area.

Lakes District: Newdegate Resource Centre, Collier Street, Newdegate
Contact: Anne Rick, phone: 9820 6048

Merredin: Westrail Building, Barrack Street, Merredin.
Tues. 1.30-3.00 pm, Fri. 1.30-2.30 pm.
Contact: Ms Heather Adamson, phone: 9041 1347.

Wannamal: Lot 50 Wells Street, Wannamal
Ring 9655 7026 or call in anytime. Contact: Ms Roseanna Hindmarsh.

ID Workshop 14,15,18/10/99

A 2-day workshop on identification of Myrtaceae and Proteaceae was held at the WA Herbarium. The response was so good that a 1-day version was offered on the following Monday. This enabled more regional Herbaria volunteers to attend with some of the Herbarium staff and volunteers.

In all the participants identified more than 20 unknown plants from each of the 2 families using keys and information put together by Mike Hislop as well as the Blackall and Grieve keys.

The workshop was held in a new demountable that was light and bright and able to accommodate 24 people comfortably. It was the number of microscopes that limited the number of people who could attend.

Jan Gathe

LOST PROPERTY

FOUND in the herbarium carpark after the ID workshop on 15 October: a woven wool scarf. A woollen scarf is the last thing we need at this time of year, so we would like to return it to the owner!

Correct mailing address

When sending items by mail to us, please add to the address:

- a) one of our names or
- b) 'Regional Herbaria Program' or
- c) 'Plant Identification Unit' so it will come straight to us.

WA Herbarium, Locked Bag 104, Bentley Delivery Centre WA 6983

(Continued from page 1)

and work with us to ensure that the book they publish can be updated at any time. So that any name changes can be tracked in the future the authors of wildflower books can add the barcode number of the specimen voucher taken after they have taken a photograph. This means that no matter how old the wildflower book, the current name will be available by accessing the specimen database through FloraBase!

HAVE A WONDERFUL XMAS AND A VERY HAPPY YEAR 2000

Neville Marchant

