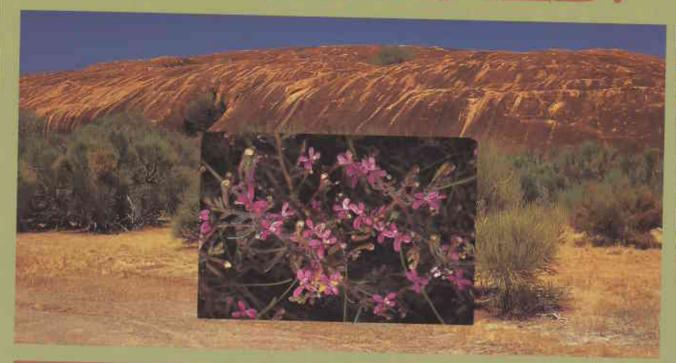


## ENDANGERED!



## MERRALL'S TRIGGERPLANT

Merrall's triggerplant was first collected in 1888 from near Lake Brown north-east of Toodyay, by Edwin Merrall, a gold prospector. The plant material was sent to the famous Victorian botanist Ferdinand von Mueller, who described it as Candollea merrallii in October 1888. It was transferred to the genus Stylidium in 1896.

For more than a century, the collecting locality and identity of the plant was to remain an enigma. Thought to have been destroyed by clearing for farmlands, it was presumed to be extinct and gazetted as such in 1991.

The original collection is in the Herbarium of the Royal Botanic Gardens in Melbourne. It consists of two fragments, one with a rosette of leaves conveying the false impression that the plant was related to the group known as creeping triggerplants.

In 1976, Basil and Mary Smith of Wongan Hills sent the Western Australian Herbarium part of an inflorescence of a triggerplant collected in the state's eastern Wheatbelt. This specimen remained among the many unidentified plants in the Herbarium until 1991, when Allen Lowrie examined it and suspected it might be the long lost *S. merrallii.* 

In 1992, Dr Syd James, of the University of Western Australia's Botany Department, collected non-flowering material of an unknown triggerplant from a granite rock. Examination of this material by Allen Lowrie confirmed it was identical to the material collected by the Smith's.

On the basis of the Smith and James collections, extensive fieldwork was conducted in 1992 and 1993 in the eastern Wheatbelt by Allen Lowrie, Daphne Edinger and Kevin Kenneally. Populations of what were believed to be *S. merrallii* were located and collected. The rediscovery was confirmed by matching the original Merrall material from Melbourne against the new collections.

Merrall's triggerplant is a perennial herb, arising from a rootstock and producing a basal rosette of leaves and long, spreading, flowering shoots. It flowers continuously throughout summer. In late January, it produces adventitious rosettes of leaves along the flowering shoots, which take root on touching the ground.

Merrall's triggerplant is endemic to Western Australia and is restricted to the aprons of granite rocks in the eastern Wheatbelt. Although the plant is protected within the Yanneymooning Hill and Walyahmoning Rock Nature Reserves, further surveys will need to be conducted to establish the extent of the species on other granite rocks in the eastern Wheatbelt.

Genetic studies suggest Merrall's triggerplant may be one of the most primitive triggerplants.

Kevin Kenneally and Allen Lowrie



The galah is just one of the many bird species that visit our urban and suburban gardens. 'Birds in the Garden' shows us how we can attract more.



In spring, the Wongan Hills are ablaze with wildflowers, but this 'island' sanctuary is also a home to a wide variety of animals. See page 21.

## DSCOPE

VOLUME TEN. NO. 2 SUMMER ISSUE 1993-94



Yanchep National Park is having a facelift. Our story on page 28 examines the history and rebirth of one of Perth's closest and most visited national parks.



Banksia gardneri var. brevidentata is one of a number of plants named in honour of Charles Gardner. See 'Gardner's World' on page 41.



The Pinnacles is one of several destinations for licensed tours operating in WA's national parks. See 'Travel Companions'.

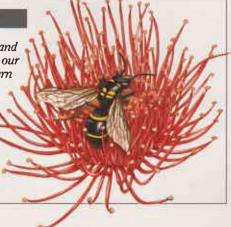
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## COVE

Hyleoides zonalis is a solitary bee and one of the native bees described in our story about the 'real' bees of Western Australia on page 17. The illustration is by Philippa Nikulinsky.



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Colour Separation by Prepress Services Printed in Western Australia by Lamb Print

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Published by Dr S Shea, Executive Director Department of Conservation and Land Management, 50 Hayman Road, Como, Western Australia 6152.