

ENDANGERED!



PINNATE-LEAVED EREMOPHILA

A member of the family Myoporaceae, Eremophila is a relatively large genus of some two hundred named species distributed throughout all mainland States of Australia. There are also numerous unnamed species. with the estimated total around 400. Most occur in semi-arid or arid regions. Eremophilas are commonly known as emu bushes or poverty bushes. Eremophila is derived from the Greek eremos, meaning desert or lonely places, and phileo, the verb to love-in reference to the preferred habitat of many of the species.

Pinnate-leaved eremophila (E. pinnatifida) is an erect, rounded shrub that grows to over a metre in height when mature. Its unusual, distinctive leaves are in whorls of three, and are deeply pinnately lobed—the source of both the specific and common names. The species is allied to Wongan eremophila (E. ternifolia). However, it differs from Wongan eremophila and other allied species, such as Sargent's eremophila (E. sargentii) and whorled eremophila (E. verticillatá), by the diagnostic pinnate leaves and the densely hairy branches and leaves. The flower tube is deep purple with downy

hairs on the outside, and white with pale purple spots inside.

Its flowering period appears to be dependent on the species being in active growth and has been recorded between August and late January.

When Bob Chinnock first discovered pinnate-leaved eremophila in 1990, he counted 35 plants. However, it appears that the species could have a short life cycle, possibly less than 10 years, as the population had declined to just five plants by September 1998. In December 1996, an additional population of two plants was found and, in October 1998, a population of 16 plants was located on a narrow, very degraded road verge.

Volunteers from the Kalannie-Goodlands Land Conservation District Committee (LCDC) have searched for pinnate-leaved eremophila, but no new populations have been found. A survey of thirty large remnants in the north-eastern area of Dalwallinu Shire was carried out by the Goodlands-Jibberding LCDC in 1996,

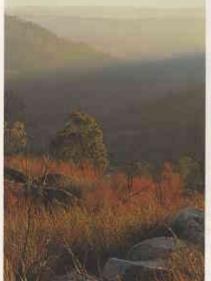
Andrew Brown
Photo – Andrew Brown

and although these contained areas of similar habitat, no populations were found there either.

Pinnate-leaved eremophila grows only near Dalwallinu, in remnant tall open eucalypt woodland over sparse mixed shrubland of Drummond's eremophila (E. drummondii), quandong (Santalum acuminatum) and Acacia-species, over dense annual grasses on brown clay loams.

Pinnate-leaved eremophila is ranked as Critically Endangered. Weed invasion is a threat to the long-term viability of all populations. An Interim Recovery Plan is in draft form and the Department of Conservation and Land Management (CALM), through the coordination of the Merredin District Threatened Flora Recovery Team, is currently addressing those threats most endangering the species.

In June 1997, Alex Agafonoff collected seed from two populations for storage in CALM's Threatened Flora Seed Centre. The material collected has only had initial processing, so its viability and germination rate is as yet unknown. Guy Richmond, who has been studying the ecology of rare *Eremophila* species, collected five cuttings in 1997.



This land, where the Avon River cuts

through the Darling Range, was

home to WA's most notorious bushranger. His story is on page 10.



VOLUME FOURTEEN NUMBER 2, SUMMER 1998–1999



Just when everyone thought it was extinct, this small mammal suddenly reappeared. See 'Dibblers' on page 28.



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100,000 hectares of bluegums by the year 2000. Was it a realistic target? See 'From Blue sky to Blue Chip' on page 35.



'Karla Wongi: Fire Talk', on page 48, is a Nyungar perspective on the use of fire in the south-west of WA.



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'What about the Animals', on page 21,

discusses early findings from the

Kingston Study.

One of Western Australia's best-known woodlands may be under threat now, but research by CALMScience Division staff is playing a key role in safeguarding their future. See 'Small Steps to Save Salmon Gums', on page 17

Illustration by Philippa Nikulinsky



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Executive Editor: Ron Kawalilak Managing Editor: Ray Bailey

Editor: David Gough

Story Editors: Mandy Clews, Verna Costello, David Gough, Nigel Higgs, Louise Johnson, Mitzi Vance, Penny Walsh

Scientific/technical advice: Andrew Burbidge, Ian Abbott, Neil Burrows, Paul Jones and staff of CALMScience Division

Design and production: Tiffany Aberin, Maria Duthie, Sue Marais

Illustration: Gooitzen van der Meer

Marketing: Estelle de San Miguel

(08) 9334 0296 Fax: (08) 9334 0498

Subscription enquiries: # (08) 9334 0481 or (08) 9334 0437

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