Department of Sustainability and Environment

Granitic Hills Woodland

Threatened in the Goulburn Broken Catchment

56% of Granitic Hills Woodlands have been cleared. 51% of what remains is on private land



Figure 1. An example of Granitic Hills Woodland from the Warby ranges in good condition, although there seems to very few large trees.



Figure 2. Another example of Granitic Hills Woodland from the Warby ranges in good condition. The photograph was taken in June.



Granitic Hills Woodland

Threatened in the Goulburn Broken Catchment

Description

This type of vegetation occurs on granite country with outcropping rocks and sandy to sandy-clay soils which typically have low water holding capacity. They occur at elevations between 150-450m, with an annual rainfall of 400-750mm. Rocky Outcrop Shrubland / Herbland is often interspersed amongst this vegetation community.

The low woodland overstorey is usually dominated by Blakely's Red Gum, with Red Stringybark, Red Box and Long-leaf Box.

The dense shrub layer is often dominated by Common Fringe-myrtle and includes species such as Drooping Sheoak, Lightwood, Box-leaf Wattle and Varnish Wattle. White Cypress-pine can also be found in this vegetation community, usually in uncleared and fire sheltered rock areas.

Ground layer species include Nodding Blue Lily, Austral Carrot, Raspwort, Cotton Fire-weed, Green Rock Fern and Austral Stonecrop.

Species To Look Out For

Flora: Hickory Wattle (Longwood area), Hairy Hop-bush (r) (Warby Ranges and Mt. Meg), Crimson Spider-orchid (Ve) Grey Rice-flower (v) (eastern area). **Fauna:** Powerful Owl (v), Bandy Bandy (n), Carpet Python (e) (Warby Ranges and Mt. Meg) and Turquoise Parrot (n) (Warby Ranges and Mt. Meg).



Figure 7. Bandy Bandy Photo: Jerry Alexander

Figure 8. Turquoise Parrot Photo: Len Robinson c/o Viridans

Figure 9. Carpet Python Photo: DSE/McCann

Why Granitic Hills Woodlands are Threatened

More than 56% of Granitic Hills Woodlands in the Goulburn Broken Catchment have disappeared since European settlement. Many of the plants and animals that rely on this habitat are now also threatened, and some are extinct. 18% of the remaining area is on private land. The support of private landholders is essential for the ongoing conservation of Granitic Hills Woodlands.

Current threats include, **inappropriate fire regimes** (too frequent/ infrequent fire which can hinder shrub regeneration leading to eventual loss of species, and changes the structure of the remnant), **stock grazing** (cause pugging, hinders native plant regeneration, increases nutrient levels, and causes loss of native species through selective grazing an trampling), **soil disturbance** (eg. ploughing and pugging, favouring weed species), **weed invasion** (particularly by St. Johns Wort and Large Quaking Grass), lack of native **understorey** and **groundlayer** (which attract insect eating birds helping keep the overstorey healthy, and improve soil health through fixing nitrogen), lack of natural **regeneration**, and loss of **tree** and **ground**



Figures 3-6. Blakely's Red Gum, Common Fringe-myrtle, Drooping Sheoke, Nodding Blue-lily

Photos: Mary Titcumb

Granitic Hills Woodland

Threatened in the Goulburn Broken Catchment

Management Tips

Install nest boxes

Fence to exclude stock grazing. If the area is very weedy with perennial grasses, minimal rock sheets.

Protect White Cypress-pine and Sheoak, a ther regoneration are preferentially grazed by stock (and rabbits and macropods).

Avoid grazing.

Avoid soil disturbance to prevent erosion and minimise weed invasion

Leave fallen timber and loose rocks for habitat

Expand existing remnants by revegetating

Revegetate around remnants to buffer from introduced pasture and link to other remnants

Restore native understorey by direct seeding and / or replanting

Restore overstorey by planting scattered trees by hand

Link to other existing patches

Figure 10. An example of a degraded Granitic Hills Woodland near Thoona. Has a range of annual and perennial weeds and a lack of regeneration of the native overstorey and shrub layer (mostly absent).

May require expert input in decision making and planning. See your local DSE or CMA representative for further advice.



Figure 11. An example of a degraded Granitic Hills Woodland with a ground layer of annual weedy grasses, mixed with patches of native grasses. There is some regeneration of the overstorey and some shrub layer.



Conservation Status

Granitic Hills Woodland is threatened in the Goulburn **Broken Catchment**

Victorian Riverina bioregion : Central Victorian Uplands bioregion : Vulnerable Northern Inland Slopes bioregion : Highlands - Northern Fall bioregion : Least Concern

Endangered Least Concern

Figure 13. A representation of the pre-1750 and present day distribution of Granitic Hills Woodland and its mosaics and complexes in the Goulburn Broken Catchment. The boundaries of the vegetation have been exaggerated to allow for the small scale of the map. The map was produced from Base Data from DSE Corporate Library. The State of Victoria does not warrant the accuracy or completeness of information on this map. Any person using or relying upon such information does so on the basis that the State of Victoria shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.

References:

Barlow, T. (1998) Grassy Guidelines How to manage native grasslands and grassy woodlands on your property, Trust for Nature, Melbourne. Berwick, S. (unpublished) Pre-1750 EVC mapping, Goulburn Broken CMA, Department of Natural Resources and Environment, Benalla

Department of Sustainability and Environment (2004) EVC Bioregional Conservation Status Table, a support document to: Department of Natural Resources and Environment (2002) Victoria's Native Vegetation Management - A Framework for Action Support Data, NRE.

Platt, S.J. (2002) How to Plan Wildlife Landscapes: a guide for community organisations, Department of Natural Resources and Environment, Melbourne.

Prober, S. and Thiele, K. (2004) Restoring Grassy White Box Woodlands, Charles Sturt University, Albury.

Viridans Pty Ltd. (2004) Victorian Fauna Display, Viridans Pty Ltd., Melbourne.

Acknowledgments:

This project was a partnership between the Goulburn Broken Catchment Management Authority and Department of Sustainability and Environment, and funded by NAP: Australian Governments and local communities working together to prevent, repair and manage rising salinity and declining water quality across Australia. Thanks to comments from Alison Oates, Biodiversity & Natural Resource Division,

action DSE and Glen Johnson, Water and Biodiversity Team, North East DSE; Jenni Nunan, GIS team, DSE, Benalia for producing the maps; for Salinity & Water feedback and comments from the Biodiversity Team in the Goulburn Broken and NorthEast, DSE; the DPI LINKS officers and CMOs, the A USTRALLAGBCMA waterways and vegetation officers and to all who contributed photographs and support.

Compiled by: Mary Titcumb, Department of Sustainability and Environment

For further information about this publication, contact:

Department of Sustainability and Environment or Goulburn Broken Catchment Management Authority

Benalla (03) 5761 1611

© The State of Victoria, Department of Sustainability and Environment, May 2005.

ISBN 1-920742-11-5

Disclaimer

This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication.