

# Advances in plant conservation biology:

Implications for flora management and restoration



## Symposium program and abstracts

Perth, Western Australia  
25-27 October 2005

FOREST SCIENCE LIBRARY  
DEPARTMENT OF ENVIRONMENT  
AND CONSERVATION  
WESTERN AUSTRALIA

CONSERVATION LIBRARY, KENSINGTON

502.  
171:  
58  
ADV



918197

Advances in plant conservation biology :  
implications for flora management and  
restoration : symposium program and  
abstracts 25-27 October 2005 / Dept. of

DEPARTMENT OF PARKS AND WILDLIFE



Advances in plant  
conservation biology  
Symposium, Perth

## BIOLOGICAL SURVEY AND PRIORITIES FOR FLORA CONSERVATION

Greg Keighery, Neil Gibson, Sue Patrick, Michael Lyons and Stephen van Leeuwen

Science Division, Department of Conservation and Land Management, Locked Bag 104, Bentley Delivery Centre, Western Australia, Australia 6983

Biological survey has been an integral component of conservation planning for over 30 years in Western Australia, particularly because of the diverse and poorly documented nature of the vascular flora. Surveys are conducted at 3 levels; regional; sub-regional and local, the first normally involving multidisciplinary teams. Regional surveys provide data on flora to allow establishment of a CAR reserve network to protect biodiversity. However, they also add greatly to knowledge of the flora, viz. the Wheatbelt survey provided detail on the distribution of 3160 taxa, found 20 previously unknown taxa, 3 presumed extinct taxa and new populations of 22 rare taxa.

Subregional surveys are normally plant based, for example the Southern Swan Coastal Plain survey (around the capital Perth) documented a series of rare communities (now listed as Threatened), provided detail on the distribution of 2000 taxa, found 15 previously unknown taxa, 3 presumed extinct taxa and new populations of 10 rare taxa.

Local area surveys, such as the Lake Muir Nature Reserves listed nearly 1,000 taxa, removed three declared rare taxa, recorded the largest known population of nationally threatened species and recorded one new taxon.

Systematic survey at any scale of a poorly known flora captures both expected and unexpected records. They document the conservation status of the vascular flora and the occurrence of weeds. They provide information to both add and remove taxa and communities from statutory protection.