

RECOVERY TEAM ANNUAL REPORT

THREATENED SPECIES AND/OR COMMUNITIES RECOVERY TEAM

PROGRAM INFORMATION

Recovery Team	Esperance District Threatened Flora and Communities Recovery Team
Reporting Period	Calendar year 2011

Current membership

Member		Representing
1. Chair	Stephen Butler	Nature Conservation Coordinator, DEC Esperance
2. Exec Officer	Emma Adams	Flora Conservation Officer, DEC Esperance
3.	David Coates	Principle Research Scientist, Herbarium DEC
4.	Sarah Comer	Regional Ecologist, DEC South Coast Region
5.	Anne Cochrane	Threatened Flora Seed Centre DEC
6.	Andrew Brown	Coordinator (Threatened Flora) Species and Communities Branch DEC
7.	Wayne Gill	Land for Wildlife, DEC Esperance
8.	Kathryn Little	Esperance Shire
11.	Robyn Cail	South Coast Natural Resource Management
9.	Coral Turley	Community Representative Esperance Wildflower Society
10.	Barbara Archer	Community Representative, Norseman Shire

Dates meetings were held 25th May 2011 & 13th October 2011

One to two paragraph summary of achievements

Major recovery actions implemented involved surveys and monitoring of threatened and priority populations, surveys of new habitat, monitoring translocations, fire and disturbance research, mapping of critical habitat, developing fire management strategies, promoting awareness and review of IRPs.

Key recovery actions were implemented for *Marianthus aquilonaris* (CR) in the Bremer Range with the assistance of SNCP funding updating important information on the distribution of the species and improving our understanding of the biology and ecology of the taxon.

Four new populations of Declared Rare Flora were located in the district.

List of actions undertaken by Recovery Team members

Monitor extant populations (DRF)

Key targets included:

- *Eremophila lactea* (CR)

- *Eucalyptus insularis* (VU)
- *Eucalyptus platydisca* (VU)
- *Lambertia echinata* subsp. *echinata* (CR)
- *Marianthus aquilonaris* (CR)
- *Myoporum turbinatum* (CR)
- *Rhizanthella gardneri* (CR)

Conduct further surveys of DRF (new habitat)

- New population of *Lambertia echinata* subsp. *echinata* (CR) located increasing number of extant plants by nearly 50%.
- Surveys of potential *Marianthus aquilonaris* habitat did not locate any new individuals.
- Surveys of potential habitat of *Myoporum turbinatum* (CR) located 27 new individuals.
- Surveys within Cape Le Grand National Park located 2 new populations of *Eucalyptus insularis* (EN).
- Surveys of potential *Daviesia microcarpa* habitat located 25 new plants increasing the area of occupancy for population 3.

Conservation status / Priority Flora surveys

Surveys and monitoring of the following priority species:

- *Acacia nitidula* (P2)
- *Allocasuarina globosa* (P1)
- *Eremophila glabra* subsp. *Scadden* (P1)
- *Eremophila purpurascens* (P3)
- *Eucalyptus balanopelex* (P1)
- *Eucalyptus jimberlanica* (P1)
- *Eutaxia actinophylla* (P3)
- *Persoonia baeckeoides* (P1)
- *Pimelea pelinos* (P1)
- *Scaevola archeriana* (P1)

New populations found for the following priority species

- *Eucalyptus misella* (P3)
- *Eucalyptus famelica*
- *Acacia nitidula*
- *Persoonia baeckeoides* (P1)
- *Goodenia turleyae* (P1)
- *Acacia dorsenna* (P1)
- *Leucopogon multiflorus* (P2)
- *Olearia laciniifolia* (P2)
- *Lasiopetalum maxwellii* (P3)

Nominations

- Two priority 1 species nominated for DRF; *Persoonia baeckeoides* (CR) and *Allocasuarina globosa* (EN)
- *Marianthus mollis* (VU) downgraded to P4

Translocations

- Monitoring of existing translocations (3) and seed orchards (2) for *Lambertia echinata* subsp. *echinata*. Two translocations carried out in 2010 are surviving well with Coolinup NR having an 80% survival rate.
- *Daviesia microcarpa* translocation monitored.

Fire Management Strategies

- Fire Management Strategy drafted for *Lambertia echinata* subsp. *echinata*. Monitoring of the critically endangered taxa post fire after two different fire events has recorded important information on post-fire recovery of the species to enable the development of a fire management strategy.
- Fire ecology plots installed and monitored for *Marianthus aquilonaris* (CR) which will assist with the development of a fire management strategy.

Phosphite Application

- No funding is currently available for continuation of phosphite application on populations of CR

Lambertia echinata subsp. *echinata*.

Interim Recovery Plan Preparation

- *Calochilus pruinus* IRP completed
- Review of *Lambertia echinata* subsp. *echinata* drafted

Promote Awareness

- New flyers completed for five Critically Endangered taxa; *Myoporum turbinatum*, *Eremophila lactea*, *Daviesia microcarpa*, *Lambertia echinata* subsp. *echinata* and *Marianthus aquilonaris*.
- Revised Esperance Shire Threatened Flora booklet completed and provided to Esperance Shire Environmental Officer.

TEC/PECs

- New PEC nominated in Bremer Range; *Allocasuarina globosa* assemblages on greenstone and was accepted as a P1 PEC.
- Two new occurrences of the above PEC located within the Bremer Range
- Fire ecology plots monitored within the Esperance Sandplain PEC