



**THREATENED SPECIES AND/OR COMMUNITIES RECOVERY TEAM**

<b>Recovery Team</b>	Esperance District Threatened Flora Recovery Team	
<b>Reporting Period</b>	Calendar year 2008	
<b>Current membership</b>		
	<b>Member</b>	<b>Representing</b>
1. Chair	Julie Patten	Nature Conservation Coordinator, DEC Esperance
2. Exec Officer	Emma Adams	Flora Conservation Officer, DEC Esperance
3.	David Coates	Principle Research Scientist, Herbarium DEC
4	Anne Cochrane	Threatened Flora Seed Centre DEC
5.	Andrew Brown	Scientific Advisor (Flora) Threatened Species Unit DEC
6	Wayne Gill	Land for Wildlife, DEC Esperance
7	Paul Clifton	Esperance Shire
8	Simon Weighell	Main Roads WA
9	Coral Turley	Community Representative Esperance Wildflower Society
10	Barbara Archer	Community Representative, Norseman Shire
11	Robyn Cail	South Coast Natural Resource Management
<b>Dates meetings were held</b>	28 <sup>th</sup> July 2008	
<b>One to two paragraph summary of achievements suitable for WATSNU</b>	<p>Major recovery actions implemented involved surveys and monitoring of threatened and priority populations, surveys of new habitat, implementing and monitoring translocations, phosphite application, seed collection, mapping of critical habitat and writing and reviewing of IRPs. Another focus has been on the implementation of disturbance trials on various DRF species to improve understanding of their biology and ecology.</p> <p>Research into the mechanisms which drive germination events for four species of Declared Rare Flora species has involved field based trials and laboratory research. Field trials carried out on <i>Eremophila lactea</i> have resulted in over 300 seedlings germinating after fire and disturbance was introduced into the environment however the specific mechanisms behind such germination is not certain. Laboratory trials have been undertaken simultaneously to examine the seed biology of these rare flora and to determine specific mechanisms which result in maximum germination which can then be replicated <i>in-situ</i>.</p>	

List of actions undertaken by Recovery Team	
Action 1	<p><b><u>Monitor extant populations (DRF)</u></b></p> <ul style="list-style-type: none"> <li>▪ <i>Adenanthos eyrei</i> (EN)</li> <li>▪ <i>Daviesia microcarpa</i> (CR)</li> <li>▪ <i>Eremophila lactea</i> (CR)</li> <li>▪ <i>Eremophila denticulata</i> subsp. <i>trisulcata</i> (EN)</li> <li>▪ <i>Eremophila denticulata</i> subsp. <i>denticulata</i> (VU)</li> <li>▪ <i>Eremophila ciliata</i> (CR)</li> <li>▪ <i>Eucalyptus insularis</i> (VU)</li> <li>▪ <i>Eucalyptus merrickiae</i> (VU)</li> <li>▪ <i>Eucalyptus platydisca</i> ms. (VU)</li> <li>▪ <i>Lambertia echinata</i> subsp. <i>echinata</i> (CR)</li> <li>▪ <i>Myoporum turbinatum</i> (CR)</li> <li>▪ <i>Rhizanthella gardneri</i> (CR)</li> <li>▪</li> </ul>
Action 2	<p><b><u>Conduct further surveys of DRF (new habitat)</u></b></p> <ul style="list-style-type: none"> <li>▪ Searches of potential habitat resulted in 3 new populations of <i>Myoporum turbinatum</i> (CR)</li> <li>▪ Surveys for new populations of <i>Daviesia microcarpa</i> were unsuccessful</li> </ul>
	<p><b><u>Conservation status surveys</u></b></p> <p>Surveys and monitoring of the following priority species:</p> <ul style="list-style-type: none"> <li>▪ <i>Allocasuarina globosa</i> (P1)</li> <li>▪ <i>Aotus lanea</i> (P1)</li> <li>▪ <i>Bossiaea arcuata</i> (P1)</li> <li>▪ <i>Bossiaea aurantiaca</i> (P1)</li> <li>▪ <i>Bossiaea saxosa</i> (P1)</li> <li>▪ <i>Eucalyptus</i> sp. Lake Johnston (P1)</li> <li>▪ <i>Gastrolobium hians</i> (P1)</li> <li>▪ <i>Persoonia baeckeoides</i> (P1)</li> <li>▪ <i>Scaevola archeriana</i> (P1)</li> <li>▪ <i>Melaleuca agathosmoides</i> (P1)</li> <li>▪ <i>Banksia epica</i> (P2)</li> <li>▪ <i>Dryandra viscida</i> (P2)</li> <li>▪ <i>Gastrolobium rigidum</i> (P2)</li> <li>▪ <i>Melaleuca eximia</i> (P2)</li> <li>▪ <i>Spyridium subochreatum</i> var. <i>subochreatum</i> (P2)</li> <li>▪ <i>Eucalyptus histophylla</i> (P3)</li> <li>▪ <i>Leucopogon rotundifolius</i> (P3)</li> <li>▪ <i>Melaleuca macronychia</i> subsp. <i>trygonoides</i> (P3)</li> </ul> <p>New populations located for the following priority species:</p> <ul style="list-style-type: none"> <li>▪ <i>Bossiaea flexuosa</i> (P1)</li> <li>▪ <i>Dryandra longifolia</i> subsp. <i>archeos</i> (P1)</li> <li>▪ <i>Myoporum velutinum</i> (P1)</li> <li>▪ <i>Eucalyptus fraseri</i> subsp. <i>melanobasis</i> (P2)</li> <li>▪ <i>Gastrolobium pycnostachyum</i> (P2)</li> <li>▪ <i>Hibbertia hamata</i> (P2)</li> <li>▪ <i>Goodenia laevis</i> subsp. <i>laevis</i> (P3)</li> <li>▪ <i>Myriophyllum balladoniense</i> (P4)</li> </ul>
Action 3	<p><b><u>Translocations</u></b></p> <ul style="list-style-type: none"> <li>▪ Monitoring of existing translocation sites (<i>Lambertia echinata</i> subsp. <i>echinata</i> seed orchards and <i>Daviesia microcarpa</i> translocation)</li> <li>▪ Surveys for suitable site for translocation of <i>Lambertia echinata</i> subsp. <i>echinata</i> failed to locate a viable site that was free from disease (PC).</li> <li>▪ Initial works carried out for implementation of <i>Myoporum turbinatum</i> translocation</li> </ul>

<b>Action 4</b>	<p><b><u>Implementation and Monitoring of Disturbance Trials</u></b></p> <ul style="list-style-type: none"> <li>▪ Disturbance trials conducted in 2007 for <i>Eremophila lactea</i> were monitored. Over 300 seedlings have germinated and are being monitored to observe growth patterns and time to maturity.</li> <li>▪ Laboratory research on 4 species of Declared Rare Flora was initiated to determine germination response and behaviour.</li> </ul>
<b>Action 5</b>	<p><b><u>Phosphite Application</u></b></p> <ul style="list-style-type: none"> <li>▪ Aerial phosphite application continued on <i>Lambertia echinata</i> subsp. <i>echinata</i> populations in Cape Le Grand National Park.</li> </ul>
	<p><b><u>Seed Collection</u></b></p> <ul style="list-style-type: none"> <li>▪ <i>Darwinia calothamnoides</i> (DRF)</li> <li>▪ <i>Myoporum turbinatum</i> (DRF)</li> <li>▪ <i>Eremophila lactea</i> (DRF)</li> <li>▪ <i>Eremophila denticulata</i> subsp. <i>denticulata</i> (DRF)</li> <li>▪ <i>Gastrolobium hians</i> (P1)</li> <li>▪ <i>Gastrolobium involutum</i> (P1)</li> <li>▪ <i>Gastrolobium tergyversum</i> (P1)</li> <li>▪ <i>Myoporum velutinum</i> (P1)</li> <li>▪ <i>Eucalyptus histophylla</i> (P3)</li> </ul>
<b>Action 6</b>	<p><b><u>Interim Recovery Plan Preparation</u></b></p> <ul style="list-style-type: none"> <li>▪ Draft IRP for <i>Eremophila ciliata</i> was completed.</li> </ul>
<b>Action 7</b>	<p><b><u>Promote Awareness</u></b></p> <ul style="list-style-type: none"> <li>▪ Posters for <i>Conostylis lepidospermoides</i> and <i>Ricinocarpus trichophorus</i> drafted.</li> </ul>