



THREATENED SPECIES AND/OR COMMUNITIES RECOVERY TEAM

Recovery Team		Esperance District Threatened Flora Recovery Team
Reporting Period		Calendar year 2009
Current membership		
Member		Representing
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	Kathryn Little	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
Dates meetings were held		4 th February 2009 & 23 rd July 2009
One to two paragraph summary of achievements suitable for WATSNU		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 developing fire management strategies. With over 300 species of priority flora key works have focused on systematically surveying these species to determine an appropriate conservation status so that resources can be directed appropriately to those species most in need. This has initially involved desktop work to collate species information (descriptions, images, location details etc.) that will assist surveys.
List of actions undertaken by Recovery Team		
Action 1		Monitor extant populations (DRF) <ul style="list-style-type: none">Anigozanthos bicolor subsp. minorBanksia sphaerocarpa subsp. dolichostyla.

	<ul style="list-style-type: none"> ▪ <i>Daviesia microcarpa</i> (CR) ▪ <i>Eremophila lactea</i> (CR) ▪ <i>Eremophila denticulata</i> subsp. <i>denticulata</i> (VU) ▪ <i>Eucalyptus insularis</i> (VU) ▪ <i>Eucalyptus merrickiae</i> (VU) ▪ <i>Eucalyptus platydisca</i> ms. (VU) ▪ <i>Lambertia echinata</i> subsp. <i>echinata</i> (CR) ▪ <i>Marianthus</i> sp. Bremer ▪ <i>Myoporum turbinatum</i> (CR) ▪ <i>Rhizanthella gardneri</i> (CR)
Action 2	<p><u>Conduct further surveys of DRF (new habitat)</u></p> <ul style="list-style-type: none"> ▪ Surveys for new populations of <i>Lambertia echinata</i> subsp. <i>echinata</i> were unsuccessful. ▪ New population of <i>Myoporum turbinatum</i> located within Beaumont Nature Reserve and adjacent private property. ▪ Surveys of potential <i>Rhizanthella gardneri</i> habitat did not locate any new individuals.
	<p><u>Conservation status / Priority Flora surveys</u></p> <p>Surveys and monitoring of the following priority species:</p> <ul style="list-style-type: none"> ▪ <i>Acacia diaphana</i> (P1) ▪ <i>Allocasuarina globosa</i> (P1) ▪ <i>Bossiaea arcuata</i> (P1) ▪ <i>Eremophila glabra</i> subsp. Scadden (P1) ▪ <i>Micromyrtus papillosa</i> (P1) ▪ <i>Myoporum velutinum</i> (P1) ▪ <i>Persoonia baeckeoides</i> (P1) ▪ <i>Scaevola archeriana</i> (P1) ▪ <i>Philotheca apiculata</i> (P2) ▪ <i>Allocasuarina hystricosa</i> (P3) ▪ <i>Astroloma microphyllum</i> (P3) ▪ <i>Brachyloma mogin</i> (P3) ▪ <i>Eucalyptus salsuginosa</i> subsp. <i>varia</i> (P3) <p>New populations found for the following priority species</p> <ul style="list-style-type: none"> ▪ <i>Bossiaea flexuosa</i> (P1) ▪ <i>Dryandra longifolia</i> subsp. <i>archeos</i> (P1) ▪ <i>Eucalyptus luculenta</i> (P1) ▪ <i>Gastrolobium pycnostachyum</i> (P2) ▪ <i>Brachyloma mogin</i> (P3) ▪ <i>Goodenia laevis</i> subsp. <i>laevis</i> (P3)
Action 3	<p><u>Nominations</u></p> <ul style="list-style-type: none"> ▪ <i>Myoporum velutinum</i> nominated for DRF (EN).
Action 4	<p><u>Translocations</u></p> <ul style="list-style-type: none"> ▪ Monitoring of existing translocation sites (<i>Lambertia echinata</i> subsp. <i>echinata</i> seed orchards and <i>Daviesia microcarpa</i> translocation) ▪ Two new translocation sites located for <i>L. echinata</i> subsp. <i>echinata</i> after extensive surveys and soil sampling. These sites will be prepared for planting in 2010. ▪ Translocations completed for <i>Myoporum turbinatum</i> and <i>Eremophila lactea</i>.
Action 5	<p><u>Implementation and Monitoring of Disturbance Trials</u></p> <ul style="list-style-type: none"> ▪ Disturbance trials conducted in 2007 for <i>Eremophila lactea</i> were monitored.

	<ul style="list-style-type: none"> ▪ Laboratory research on 4 species of Declared Rare Flora was completed.
Action 6	<p><u>Fire Management Strategies</u></p> <ul style="list-style-type: none"> ▪ Fire ecology plots for 3 threatened flora and their associated species initiated for purpose of collecting fire response and ecological data with the aim of improving future management of these species. Plots are established in burnt and unburnt vegetation within different fire histories.
Action 7	<p><u>Phosphite Application</u></p> <ul style="list-style-type: none"> ▪ Aerial phosphite application continued on <i>Lambertia echinata</i> subsp. <i>echinata</i> populations in Cape Le Grand National Park. ▪ Installation of plots to monitor health of <i>L. echinata</i> subsp. <i>echinata</i> populations in sprayed areas.
	<p><u>Seed Collection</u></p> <ul style="list-style-type: none"> ▪ <i>Eremophila lactea</i> (DRF) ▪ <i>Lambertia echinata</i> subsp. <i>echinata</i> (DRF) ▪ <i>Acacia diaphana</i> (P1)
Action 8	<p><u>Interim Recovery Plan Preparation</u></p> <ul style="list-style-type: none"> ▪ Draft IRP for <i>Eremophila ciliata</i> was completed. ▪ <i>Marianthus</i> sp. Bremer IRP completed.
Action 9	<p><u>Promote Awareness</u></p> <ul style="list-style-type: none"> ▪ Threatened flora booklets drafted for Cape Le Grand National Park and Cape Arid National Park. ▪ Revised Esperance Threatened Flora book initiated.
Action 10	<p><u>TEC/PECs</u></p> <ul style="list-style-type: none"> ▪ Initial surveys of the Banksia Scrub Heath PEC carried out to further define community and analyse vegetation composition. ▪ Surveys of <i>Allocasuarina globosa</i> community on Mt Dean for possible nomination.