



SUMMARY ANNUAL REPORT

THREATENED SPECIES AND/OR COMMUNITIES RECOVERY TEAM

PROGRAM INFORMATION

Recovery Team name	Moora District Threatened Flora (and Ecological Communities) Recovery Team
Reporting Period (Calendar Year)	Calendar year 2008

Current membership

Member		Representing
CHAIR/EXEC Officer	Benson Todd	DEC, Moora District
	Rebecca Carter	DEC, Moora District
	Leonie Monks	DEC, Science Division
	Andrew Crawford	DEC, Threatened Flora Seed Centre
	Andrew Brown	DEC, Species and Communities Branch
	Monica Hunter	DEC, Species and Communities Branch
	Rep Rotating	Dandaragan Regional Herbarium
	Rep Rotating	Jurien Bay Regional Herbarium
	Nigel Rowe/Anna Southerland	Main Roads WA
	Alannah Sinden	Downer EDI (road maintenance)
	Allan Tinker	Community Representative, Shires of Irwin and Carnamah
	Malcolm Pumphrey	LGA Representative, Shire of Carnamah
	Don and Joy Williams	Community Representative, Shire of Coorow
	Kelvin Bean	LGA Representative, Shire of Coorow
	Mike Harvey	LGA Representative, Shire of Dandaragan

	John Grey	LGA Representative, Shire of Carnamah
	Jenny Borger	Community Representative, Shire of Three Springs
	Charles Strahan	LGA Representative, Shire of Three Springs
	Bruce Eldridge/John Stevens	WestNet Rail
Extended Working Group	David Coates	DEC, Science Division
Extended Working Group	Gillian Stack	DEC, Species and Communities Branch
Extended Working Group	Kathy Himbeck	DEC, Moora District
Extended Working Group	Emma Richardson	DEC, Moora District
Extended Working Group	Amanda Shade	Botanic Gardens and Parks Authority
Extended Working Group	Fiona Falconer	DEC, Land for Wildlife
Extended Working Group	John Morrell	Western Power
Extended Working Group	Peter Bothwell	John Holland Group (rail maintenance)
Dates meetings were held in 2008	23 rd April 2009 (Dandaragan)	
One to two paragraph summary of achievements suitable for WATSNU	<p>This report summarises progress made by members and associates of the Moora District Threatened Flora (and Ecological Communities) Recovery Team in 2008 towards the recovery of threatened flora species and threatened ecological communities (TECs) occurring within the Department of Environment and Conservation's (DEC) Moora District.</p> <p>Details of recovery actions for most of the Moora District's threatened flora species are summarised in WA Wildlife Management Program No. 28, entitled <i>Declared Rare and Poorly Known Flora in the Moora District</i>, by SJ Patrick and AP Brown (2001). The principal District contact for threatened flora management in the Moora District is Benson Todd, Conservation Officer - Flora.</p> <p>Within the Moora District there are 72 species of Declared Rare Flora (DRF), of which 27 are ranked Critically Endangered, 28 Endangered and 17 Vulnerable (IUCN red list categories). There are approximately a further 305 Priority flora species, and 9 TECs of which 1 is ranked Critically Endangered, 6 are ranked as Endangered and the 2 as Vulnerable.</p> <p>The Recovery Team meets twice per year and throughout the year its' members work in partnership towards best practice management of threatened flora and ecological communities. The many and varied accomplishments by team members are testament to its diverse membership and the positive working relationships.</p> <p>In 2008, a suite of recovery actions were implemented including: surveys for unrecorded populations of threatened flora; monitoring of known natural and translocated populations of threatened flora and occurrences of TECs; preparations for new threatened flora translocations; maintaining and expanding existing translocated populations of threatened flora; seed and propagule collection; community education; liaison with land managers; procuring external funds for on-ground works; industry consultation and authorship of Interim Recovery Plans (IRPs).</p>	

List of actions undertaken by Recovery Team (from actions in Recovery Plan / Management Plan)	
Action 1	<p>DRF Survey and Monitoring New population of the following species were located; <i>Jacksonia pungens</i>, <i>Grevillea bracteosa</i> and <i>Eremophila koobabbiensis</i>.</p> <p>Populations of the following DRF species have be monitored in 2008: <i>Acacia vassalii</i>, <i>Banksia fuscobractea</i>, <i>Eremophila koobabbiensis</i>, <i>Grevillea batrachioides</i>, <i>Jacksonia pungens</i>, <i>Verticordia albida</i>, <i>Daviesia speciosa</i>, <i>Hensmania chapmanii</i>, <i>Leucopogon</i> sp. <i>ciliate</i>, <i>Leucopogon obtectus</i>, <i>Acacia forrestiana</i>, <i>Eucalyptus dolorosa</i>, <i>Grevillea calliantha</i>, <i>Acacia recurvata</i>, <i>Eremophila scaberula</i>, <i>Daviesia dielsii</i>, <i>Acacia aristulata</i> and <i>Banksia serratuloides</i> subsp. <i>perissa</i>.</p>
Action 2	<p>Priority Flora Moora District staff have undertaken monitoring and survey of Priority flora species both through the Saving Our Species Initiative (Hi Vallee Farm) and the NRM funded Back from the Brink Project. This work has resulted in the preparation of recommendations to the TSSC that <i>Banksia catoglypta</i>, <i>Petrophile nivea</i> and <i>Grevillea</i> sp. Gillingarra be listed as DRF.</p> <p>Iluka Resources also commissioned a study into the conservation status of all DRF and Priority Flora in the Eneabba area. This report was provided to Species and Communities Branch and resulted in numerous changes to the status of Priority Flora species in the area.</p>
Action 3	<p>Threatened Ecological Community Signage TEC signage developed by Species and Communities Branch has been installed at occurrences of threatened ecological communities (TECs) in the Moora District. TECs now with signage include Organic Mound Springs of the Three Springs Area, Ferricrete Floristic Community (Rocky Springs Type), Coomberdale Chert and Stromatolite Community of Lake Thetis.</p>
Action 4	<p>Seed and Propagule Collection DEC's Threatened Flora Seed centre targeted critically endangered taxa and species with seed collection as a recovery action in an endorsed IRP, during the 2007/2008 collecting season. Funding for this activity was provided through the NRM funded project Back from the Brink.</p> <p>In total seed was collected from 27 DRF species, with an effort made to collect a range of seed from a range of populations to ensure the greatest level of genetic representation can be achieved. DRF species included: <i>Acacia aprica</i>, <i>Acacia recurvata</i>, <i>Chorizema humile</i>, <i>Daviesia bursarioides</i>, <i>Daviesia dielsii</i>, <i>Eremophila nivea</i>, <i>Eremophila scaberula</i>, <i>Eremophila vernicosa</i>, <i>Eremophila koobabbiensis</i>, <i>Eucalyptus absita</i>, <i>Eucalyptus crispata</i>, <i>Eucalyptus impensa</i>, <i>Eucalyptus johnsoniana</i>, <i>Gastrolobium appressum</i>, <i>Grevillea batrachioides</i>, <i>Grevillea bracteosa</i>, <i>Grevillea calliantha</i>, <i>Grevillea christineae</i>, <i>Grevillea humifusa</i>, <i>Grevillea murex</i>, <i>Hakea megalosperma</i>, <i>Hensmania chapmanii</i>, <i>Jacksonia pungens</i>, <i>Macarthuria keigheryi</i>, <i>Tetradlea nephelioides</i>, <i>Verticordia albida</i> and <i>Verticordia spicata</i> subsp. <i>squamosa</i>.</p>
Action 5	<p>Translocation Establishment A new translocated population of <i>Chorizema humile</i> has been established on Private Property in the Shire of Coorow. 132 seedlings were planted out as described in the approved translocation proposal. A new translocated population of <i>Eremophila koobabbiensis</i> has been established on Private Property in the Shire of Coorow. 60 seedlings were planted out as described in the approved translocation proposal. The translocated population of <i>Verticordia albida</i> was supplemented with a further 30 individuals being planted in July 2008.</p>
Action 6	<p>Translocation Monitoring and Maintenance Maintenance and monitoring of the following translocated populations of DRF within the Moora District has been carried out; <i>Chorizema humile</i>, <i>Grevillea althoferorum</i>, <i>Grevillea batrachioides</i>, <i>Grevillea calliantha</i>, <i>Grevillea humifusa</i>, <i>Synaphea quartzitica</i>, <i>Daviesia bursarioides</i>, <i>Acacia cochlocarpa</i> subsp. <i>cochlocarpa</i>, <i>Acacia</i></p>

	<i>aprica</i> , <i>Verticordia albida</i> and <i>Eremophila koobabbiensis</i>
Action 7	<p>Threat Abatement</p> <p>Fencing has been erected at population 1 of DRF species <i>Grevillea bracteosa</i> and population 2b of <i>Banksia fuscobractea</i>. The fencing will protect these populations from grazing and was funded by the NRM funded project 'Back from the Brink'.</p>
Action 8	<p>Liaison with Land Managers</p> <p>Liaison has been undertaken with staff from Main Roads WA, Western Power, WestNet Rail, John Holland Group, Downer EDI, various mining companies, private landholders and employees of the Shires of Dandaragan, Three Springs, Moora, Carnamah and Coorow in order to assist these land managers in the conservation of threatened flora and TECs on the lands they manage.</p>
Action 9	<p>Education and Training</p> <p>A number of education and capacity building activities were undertaken in 2007. Activities include interpreted site visits with community groups, structured school visits and displays at local events including the Cervantes Easter Gala Day and Blessing of the Fleet celebrations in Jurien Bay.</p> <p>A Teacher Resource specific to threatened species and communities in the Northern Agricultural Region has been prepared and is currently being distributed to primary and secondary schools in the region. The distribution of the resource is being supported by Professional Development Days for teachers run by DEC staff and through liaison with the Science Teachers Association of Western Australia.</p> <p>New DRF A4 fact sheets have been prepared and distributed for the following DRF species; <i>Banksia fuscobractea</i>, <i>Eremophila koobabbiensis</i> and <i>Acacia wilsonii</i>. A4 Fact sheets for the following DRF species have been updated, redesigned and distributed; <i>Acacia aprica</i>, <i>Acacia cochlocarpa</i> subsp. <i>cochlocarpa</i>, <i>Daviesia bursarioides</i>, <i>Eremophila scaberula</i>, <i>Gastrolobium hamulosum</i>, <i>Grevillea batrachioides</i>, <i>Grevillea calliantha</i>, <i>Grevillea humifusa</i>, <i>Hemiandra gardneri</i>, <i>Jacksonia pungens</i>, <i>Paracaleana dixonii</i>, <i>Verticordia albida</i> and <i>Verticordia spicata</i> subsp. <i>squamosa</i>.</p>
Assessment of progress towards meeting criteria for success (from Recovery Plan)	<p>At present there are 33 current IRPs for threatened flora species and 7 current IRPs for TECs that occur within the Moora District. Each of these plans stipulates criteria for the recovery of the species or community, which aim to quantify the success or failure of the plan and its implementation. The standard criteria are as follows:</p> <p>Criteria for success: The numbers of individuals within populations and/or the number of populations has increased.</p> <p>Criteria for failure: The numbers of individuals within populations and/or the number of populations have decreased.</p> <p>As the implementation of IRPs are long term (i.e. 3 - 5 years), it is often not possible to quantify their success or failure on an annual basis. Where there have been significant observed increases or decreases in the number of individuals or known populations within 2008, these are outlined in the above section.</p>
other	

Attachments – Teacher Resource Pack, A4 DRF Fact Sheets