



Northern
Territory
Government

DEPARTMENT OF
LAND RESOURCE MANAGEMENT

Rubber bush in the Barkly

Weed Management Branch

Meg Humphrys



Queensland
Government





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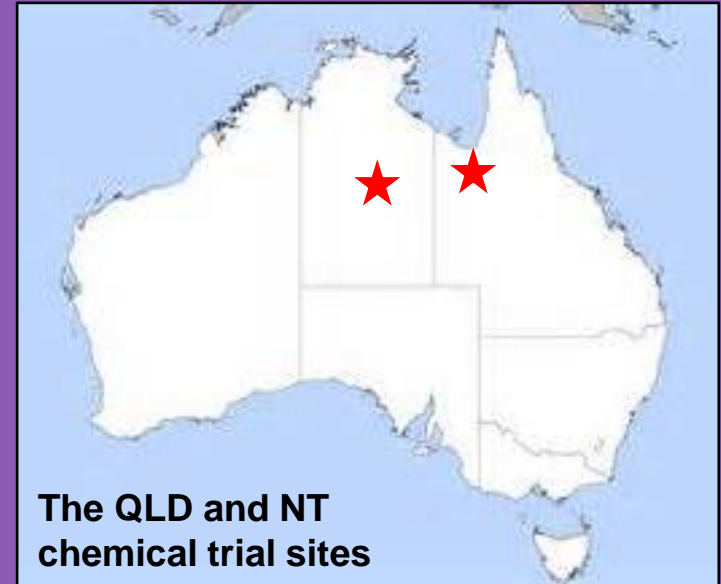
Impacts





Aims

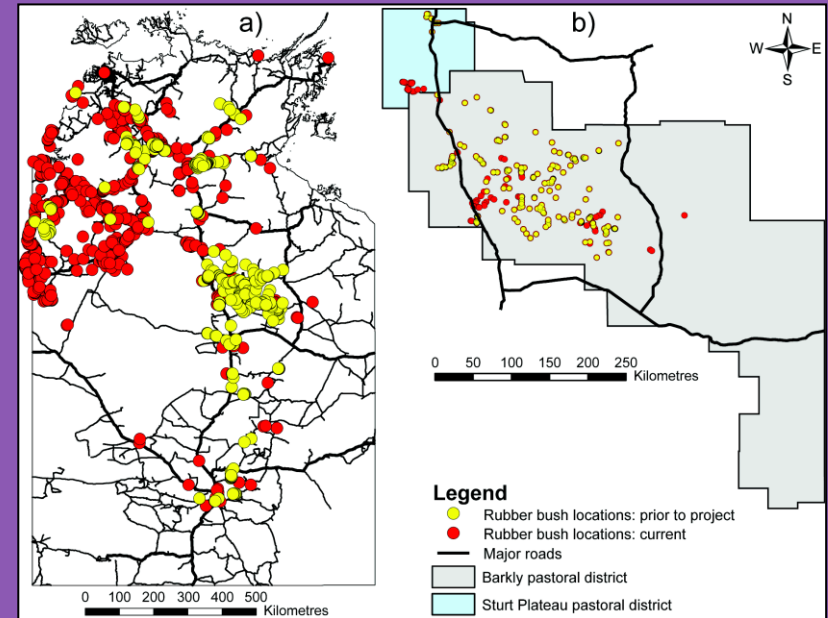
- Describe the roles of project partners
- Describe on ground and aerial trials conducted on pastoral land in the Barkly
- Compare trial results from Queensland and the Northern Territory





Charles Darwin University

- Studying the ecology and spread of *Calotropis procera* relevance to management





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Ecology

- Develop recommendations for managing rubber bush in different environments and with different levels of rubber bush intrusion
- Identify the most practical and cost-effective control options

Treatment type	Chemical used	Trade name example	Effectiveness
Foliar	2, 4D Amine	Amine 625™	Good
Foliar	Imazypyr + glyphosate	Arsenal Express™	Good
Basal bark (thin line)	Triclopyr + picloram	Access™	Excellent
Basal bark (normal)	Triclopyr + picloram	Access™	Excellent
Cut stump	Aminopyralid + picloram	Vigilant™	Good
Cut stump	Glyphosate	Glyphosate 480™	Excellent



Barkly Chemical Trials

- Landholder engagement
- Established in May 2014
- Tests relevance and effectiveness of knowledge gained for similar trials in Queensland but under Barkly conditions
- Has 11 treatments and a control





Aerial Graslan™ Trials

- 98% kill rate in QLD
- Two locations in the NT
- Applied at a rate of 12.5kg/hectare



Treatments 1 & 2



Basal Bark

Chemical	Example of trade name	Application rate
Triclopyr/picloram (thin line)	Access™	1L/10L of Diesel
Triclopyr/picloram (normal)	Access™	1L/60L of Diesel



Treatments 3, 4 and 5

Cut stump



Chemical	Example of trade name	Application rate
Glyphosate	Round Up 360™	Neat
Picloram gel	Vigilant 2™	Neat
Triclopyr/picloram	Access™	1L/60L Diesel



Treatments 6, 7 and 8



Foliar sprays

Chemical	Example of trade name	Application rate
2, 4-D Amine	Amine 625™	1000mL/100L
Metsulfuron methyl	Brush Off™	20g/100L
Triclopyr/picloram + metsulfuron	Titan™ + Brush Off™	500mL +20g/100L



Treatments 9, 10 and 12



Soil applied treatments

Chemical	Example of trade name	Application rate
Tebuthiuron	Graslan™	2g/m ²
Tebuthiuron	Graslan™	1.5g/m ²
Hexazinone	Velpar L™	4mL/m of height



Preliminary results

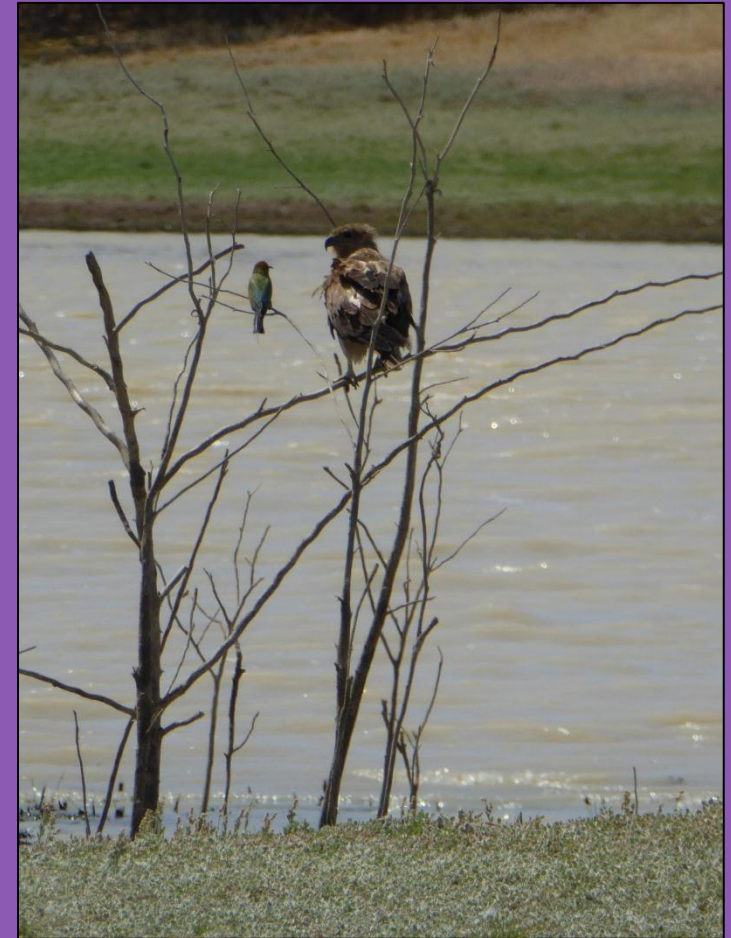


Treatment	Chemical	Queensland	Northern Territory
Basal bark (thin line)	Triclopyr/picloram	Excellent	Excellent
Basal bark (normal)	Triclopyr/picloram	Excellent	Excellent
Foliar	2, 4-D Amine	Good	Very good
Cut stump	Glyphosate	Excellent	Poor/mixed
Cut stump	Triclopyr/picloram	Excellent	Good/mixed
Cut stump	Picloram gel	Good	Poor/mixed
Soil applied	Tebuthiuron	Excellent	N/A
Soil applied	Hexazinone	Excellent	N/A



Summary

- Positive collaboration with all partners
- Better understanding of the plants ecology
- Application methods and chemical options
- Together we have learnt, to do nothing isn't an option





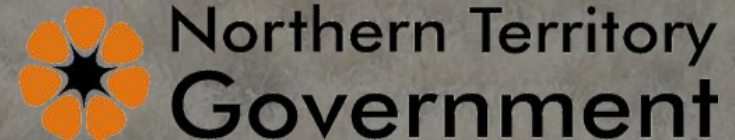
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Research partners



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