

## 21st ANNUAL CONFERENCE PROCEEDINGS

25-27 JULY 2006 – Wagga Wagga NSW

## "WAGING WAR ON WEEDS"

Invited Papers	Author	Page
Setting the scene: 'Farming – a great means of wealth creation, but who is managing it'.	Peter Jacobs	3
Session 1: Economic cost of weeds, management principles and sou	irce of weed introductions	
The economic cost of weeds in pasture systems	Randall Jones, Jack Sinden	9
Weed introductions – what has been learned from the past that can help stop future weed problems	Lynley Stone	13
Weed management principles for permanent and ley pastures	David Kemp	17
Session 2: New and existing threats in southern and northern NSW		
New and existing weed threats in southern NSW	Birgitte Verbeek	25
The weed control paradox or how and when do I learn to love my weeds? Major pasture weeds in northern NSW	Andrew Storrie	28
Session 3: Successful weed control/eradication/utilisation strategies		
Conquering serrated tussock at 'Yellangalo'	Alison Nicholls	33
Utilisation of pastures dominated by Coolatai grass ( <i>Hyparrhenia hirta</i> ) in Northern NSW	Steve Hunt	36
Assessing the extent of serrated tussock resistance to the herbicide, flupropanate in Australia	DA McLaren, S Ramasamy, AC Lawrie, TA Morfe and G Pritchard	40
Session 4: Setting yourself up for success - importance of forward p	lanning for weed control	
Herbicide tolerance of seedling perennial grasses – options for improving establishment	Brian Dear	47
Herbicide tolerance of pasture legumes and herbs	Peter Lockley	50
Are you importing weeds onto your property	Michael Moerkerk	55
Session 5: Biological weed control		
Biological control of pasture weeds in New South Wales – an update of current research	Royce Holtkamp	59
Successful biological control of Paterson's curse	Max Cowie	64
Session 6: Fodder conservation for weed control		
Timing pasture cutting for weed management	Annabel Bowcher	67
Making quality silage and hay from pastures containing weeds	JW Piltz, HM Burns	71
Fodder conservation and weed control	Frank Austin	76
Session 7: Pasture weed and animal interactions		
Winning the war against bare ground and broadleaf weeds with grazing management - results from the Broadford Grazing Experiment 1998-2003	Kate Sargeant, Lisa Warn and Gary McLarty	79

Managing weeds through effective grazing	Chris Wright, Margot Wright	84
Shifting from sheep to cattle and its effect on pasture weeds	Bryan Corrigan	89
Problems in livestock grazing weeds	Luzia Rast	91
Balancing enterprises on a whole farm basis for improved economic viability and weed management	David Michalk, Warwick Badgery, Geoff Millar and Randall Jones	97
Poster papers		
A 2005 snapshot of dryland farming management within the mid and lower Murrumbidgee catchment	VL Davis	105
Saltbush – its value as a supplement for finishing prime lambs in summer/autumn in southern NSW	G Duddy, B Hackney	106
Paddock Plants field days – helping landholders to recognise and manage common pasture species	C Edwards, B Clements, C Rose and L McWhirter	108
Grass tetany-property risk diagnosis	MG Elliott	110
Controlling saffron thistle using grazing management	BS Grace, RDB Whalley, AW Sheppard and BM Sindel	112
Best management practices for dryland cropping systems: great brome and fumitory	CM Griffiths	114
Pasture legumes and grasses for the Monaro region of southern NSW	B Hackney, G Dyce and C Rodham	115
Tolerance of seedling plantain to broadleaf weed herbicides	B Hackney, B Dear, G Dyce and C Rodham	117
Selection of alternative 'lucernes' and native legumes for Australian farming systems	RC Hayes, BS Dear and GD Li	119
Managing wireweed in spring-sown pastures	RC Hayes, BS Dear, GD Li, JM Virgona, MK Conyers and BF Hackney	121
Effect of lime on the persistence and production of two chicory cultivars on an acid soil	RC Hayes, BS Dear and GD Li	123
What is Chilean needle grass?	LJ laconis	125
Establishment of perennial wallaby grass ( <i>Austrodanthonia caespitosa</i> ) compared with annual rye corn as a citrus mid-row ground cover crop for semi arid areas	PJ Jessop, JA Giddings	126
Angel medic tolerates sulfonylurea herbicide residues in south western NSW	PJ Jessop, JH Howie	128
Profitability of liming and fertilising native pastures in the Yass district	FJ Leech	130
Long-term lime effect on pasture and sheep performance. 1. Pasture botanical composition changes	GD Li, MK Conyers, RJ Lowrie and GJ Poile	132
Long-term lime effect on pasture and animal performance 2. Sheep responses	GD Li, MK Conyers, RJ Lowrie and GJ Poile	134
Flood induced recruitment of lippia (Phyla canescens)	MJ Macdonald, RDB Whalley, BM Sindel, MH Julien and JA Duggin	135
Arming weeds advisors with knowledge	AC McCaffery	137
Regional best practice management of Chilean Needle Grass ( <i>Nassella neesiana</i> ) – New South Wales preliminary trial results	L McWhirter, J Lowien, C Grech, DA McLaren and BM Sindel	139
A holistic approach to the control of weedy Sporobolus species	KC Moore	141
Pasture production, animal performance and weed population changes under three fertiliser treatments on granite derived soil on the Monaro	J Powells, L Pope	143

Pasture production, animal performance and weed population changes	J Powells, L Pope	145
under three fertiliser treatments on basalt derived soil on the Monaro		
Cane needle grass, Nassella hyalina, on North Wagga Flats	DG Read, AS Craig	147
Distribution of phosphorus levels across the Healthy Soils for Healthy	SE Roberts, K Andersson, N	148
Landscapes and Benchmarking Soil Chemistry projects for cropping and	Murphy, C McMaster and S	
pasture systems	Tate	
Long term control of blue heliotrope (Heliotropium amplexicaule) using	KJ Schulze, J Unwin	150
Graslan® and tropical grasses		
Noxious weed legislation. 1. Changes to the Noxious Weeds Act 1993	B Verbeek	152
Noxious weed legislation. 2. What do changes to the Noxious Weeds	B Verbeek	154
Act 1993 mean to you?		

Cane needle grass, Nassella hyaline, on North Wagga Flats	DG Read, AS Craig	147
Distribution of phosphorus levels across the Healthy Soils for Healthy Landscapes and Benchmarking Soil Chemistry projects areas for cropping and pasture systems	SE Roberts, K Andersson, N Murphy, C McMaster, S Tate	148
Long term control of blue heliotrope ( <i>Heliotropium amplexicaule</i> ) using Graslan ® and tropical grasses	KJ Schulze, J Unwin	150
Noxious weeds legislation 1. changes to the Noxious Weeds Act 1993	B Verbeek	152
Noxious weeds legislation 2. What do the changes to the Noxious Weeds Act 1993 mean to you?	B Verbeek	154