

LAND MANAGEMENT MANUAL

WAGGAMBA SHIRE

PART A

RESOURCE INFORMATION

Appendix IV

PASTURE CONDITION AND KEY PASTURE SPECIES FOR THE LAND RESOURCE AREAS IN WAGGAMBA SHIRE

Richard Silcock and David Blacket

1. MACINTYRE LRA - Undabri and Kalanga soils

	Pasture condition		
	Good	Fair	Poor
Erosion status	none	slight	obvious
Basal area (%)	> 2.5	1.5 - 2.5	< 1.0
% Key perennial grasses	> 70	20 - 60	< 15
% Perennial wiregrasses	< 5	10 - 25	> 30
% Canopy cover of woody weeds	< 10	20 - 60	> 70

Key perennial species: rat's tail couch, rigid panic, early spring grass, northern wallaby grass, neverfail grass, pale goodenia, nardoo, *Leptochloa digitata*, *Paspalidium distans*

Undesirable herb plants: pale spikerush

Main woody weeds: coolibah, belalie, lignum, black box, gooramurra, grey germander

2. DUMARESQ, SERPENTINE and BOOGARA LRAs - Keetah, Bengalla, Murra Cul Cul, Yambocully, Oonavale and Jindabyne soils

	Pasture condition		
	Good	Fair	Poor
Erosion status	none obvious	scalding	pedastalling
Basal Area (%)	> 3.0	1.5 - 2.5	< 1.0
% Key perennial grasses	> 75	30 - 70	< 25
% Perennial wiregrasses	< 20	30 - 60	> 70
% Canopy cover woody weeds	< 10	20 - 60	> 70

Key perennial species: pitted bluegrass, rough speargrass, corkscrew grass, slender bluegrass, katoora, windmill grass, tall chloris, common fringerush, small saltbush, *Einadia nutans*, *Eragrostis microphyllum*, *Eragrostis molybdea*

Undesirable herb plants: purple wiregrass, dark wiregrass

Main woody weeds: poplar box, false sandalwood, eastern cotton bush, wilga

**3. BROOMFIELD and GOODAR LRAs -
Wondoogle, Wai Wai, Marella and Bendidee soils**

	Pasture condition		
	Good	Fair	Poor
Erosion status	slight	obvious	obvious
Basal area (%)	> 2.0	1.0 - 2.0	< 1.0
% Key perennial grasses	> 30	10 - 30	< 10
% Perennial wiregrasses	< 30	40 - 70	> 80
% Canopy cover of woody weeds	< 25	30 - 50	> 60

Key perennial species: buffel grass, golden beard grass, silky umbrella grass, Jericho wiregrass, hairy panic, purple lovegrass, curly windmill grass

Undesirable herb Plants: spiny burr grass, galvanised burr, *Aristida lignosa*

Main woody weeds: Murray wattle, common sida, white cypress pine

**4. COMMORON, BILLA BILLA and BUNGUNYA NORTH LRAs -
Wondalli, Calingunee, Kurumbul, Mt. Carmel, Moruya, Wynhari, Tandawanna and Arden soils**

	Pasture condition		
	Good	Fair	Poor
Erosion status	none	rills	gullies
Basal area (%)	> 3.0	2.0 - 2.5	< 1.5
% Key perennial grasses	> 80	40 - 70	< 30
% Perennial wiregrasses	< 5	10 - 40	> 50
% Canopy cover of woody weeds	< 15	20 - 50	> 60

Key perennial species: Queensland bluegrass, early spring grass, curly windmill grass, warrego grass, fairy grass, weeping panic, slender canegrass

Undesirable herb plants: white speargrass

Main woody weeds: brigalow, limebush

5. LUNDAVRA LRA -

Tarewinnabar and Tarewinnabar shallow soils

	Pasture condition		
	Good	Fair	Poor
Erosion status	none	rills	gullies
Basal area (%)	> 3.0	2.0 - 2.5	< 1.5
% Key perennial grasses	> 85	30 - 80	< 25
% Perennial wiregrasses	< 5	10 - 30	> 40
% Canopy cover of woody weeds	< 5	10 - 30	> 40

Key perennial species: curly mitchell grass, hoop mitchell grass, native millet, fairy grass, Queensland bluegrass, early spring grass, western rat's tail grass

Undesirable herb plants: White speargrass, yabila grass, spiked malvastrum

Main woody weeds: gundabluie, mimosa bush

6. GERALDA LRA -

Flinton, Weengallon soils

	Pasture condition		
	Good	Fair	Poor
Erosion status	slight	scalding	bad scalds
Basal area (%)	> 2.5	1.5 - 2.0	< 1.0
% Major perennial grasses	> 70	30 - 60	< 20
% Perennial wiregrasses	< 20	30 - 80	> 85
% canopy cover of woody weeds	< 15	20 - 60	> 70

Major perennial species: mulga mitchell grass, rough speargrass, curly windmill grass, cotton panic grass, kangaroo grass, pitted bluegrass, mulga oats, hairy panic, tall chloris, windmill grass, leafy nineawn, northern wallaby grass, barbwiregrass, glycine pea, corrugated sida, slender tick trefoil, *Justicia procumbens*, *Ruellia australis*, *Sclerolaena convexula*, *Thyridolepis xerophila*

Undesirable herb plants: purple wiregrass, branched wiregrass

Main woody weeds: poplar box, false sandalwood, Deane's wattle, desert cassia, broadleaf hopbush, nipan

7. BOONDANDILLA LRA - Uranilla soils

	Pasture condition		
	Good	Fair	Poor
Erosion status	sheets	rills	gullies
Basal area (%)	> 2.0	1.0 - 2.0	< 1.0
% Key Perennial Grasses	> 70	20 - 60	< 15
% Perennial wiregrasses	< 20	30 - 70	> 85
% Canopy cover of woody weeds	< 20	30 - 70	> 80

Key perennial species: pitted bluegrass, bull oak lovegrass, curly windmill grass, early spring grass, golden beard grass, gilgai grass, poverty grass, weeping grass, silky browntop, slender canegrass

Undesirable herb plants: purple wiregrass, Leichhardt wiregrass, yellow buttons

Main woody weeds: bull oak, Mudgee wattle, velvet hibiscus, Pilliga grey box, *Acacia ixiolaena*

8. WESTMAR and JUMPUP LRAs - Flinton shallow and Karbullah soils

	Pasture condition		
	Good	Fair	Poor
Erosion status	sheet	rills and sheets	gullies
Basal area (%)	> 1.0	0.5 - 1.0	< 0.5
% Key perennial grasses	> 65	30 - 60	< 20
% Perennial wiregrasses	< 20	30 - 70	> 80
% Canopy cover of woody weeds	< 40	50 - 80	> 90

Key perennial species: hooky grass, slender panic, gilgai grass, purple lovegrass, curly windmill grass, poverty grass, *Cleistochloa subjuncea*, *Thyridolepis xerophila*

Undesirable herb plants: iron grass, many headed wiregrass, dark wiregrass

Main woody weeds: currant bush, Burrow's wattle, nipan, heather bush