

# **LANDCARE IN THE WESTERN RIVERINA**

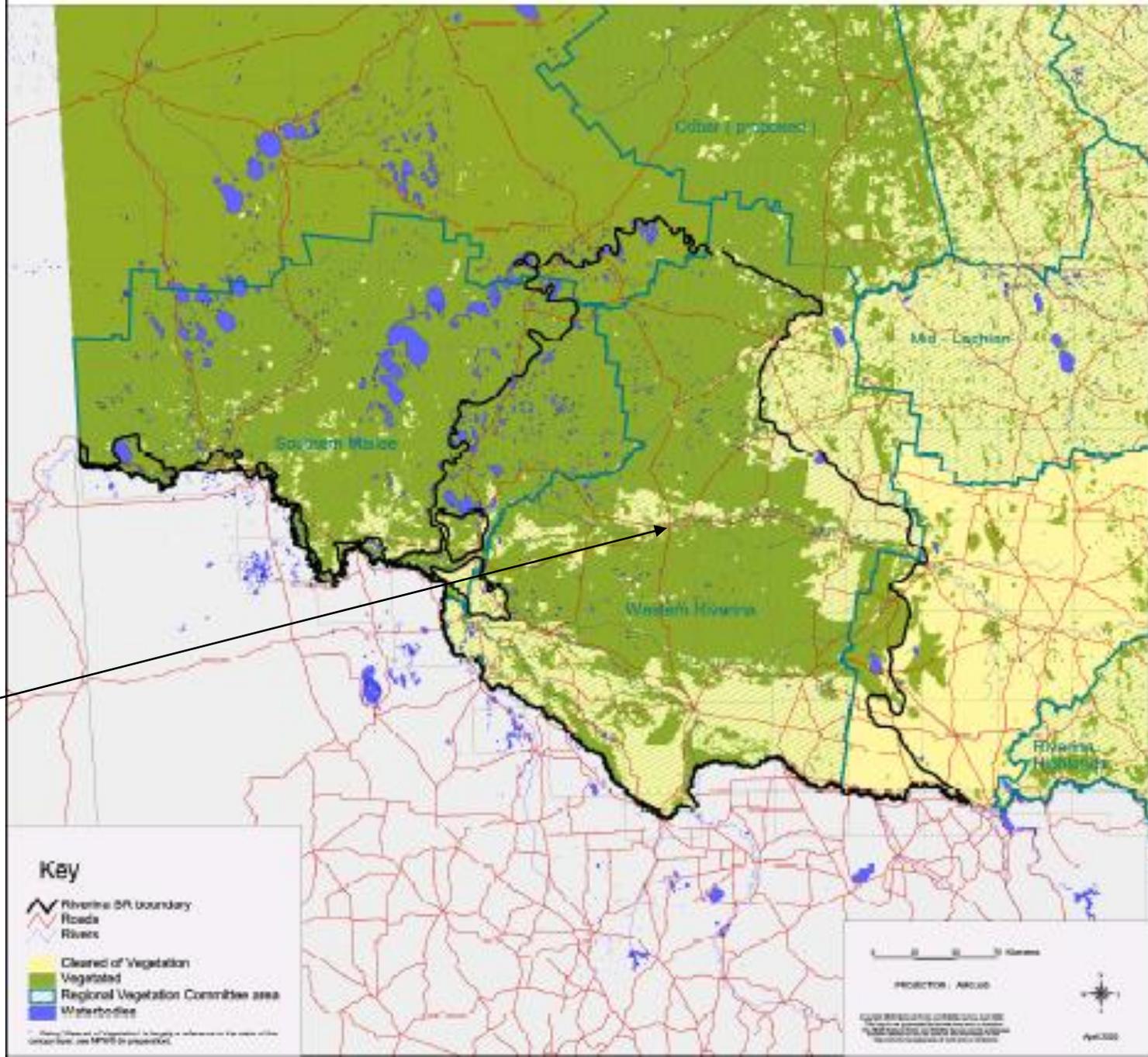


## **Riverina bioregion characteristics:**

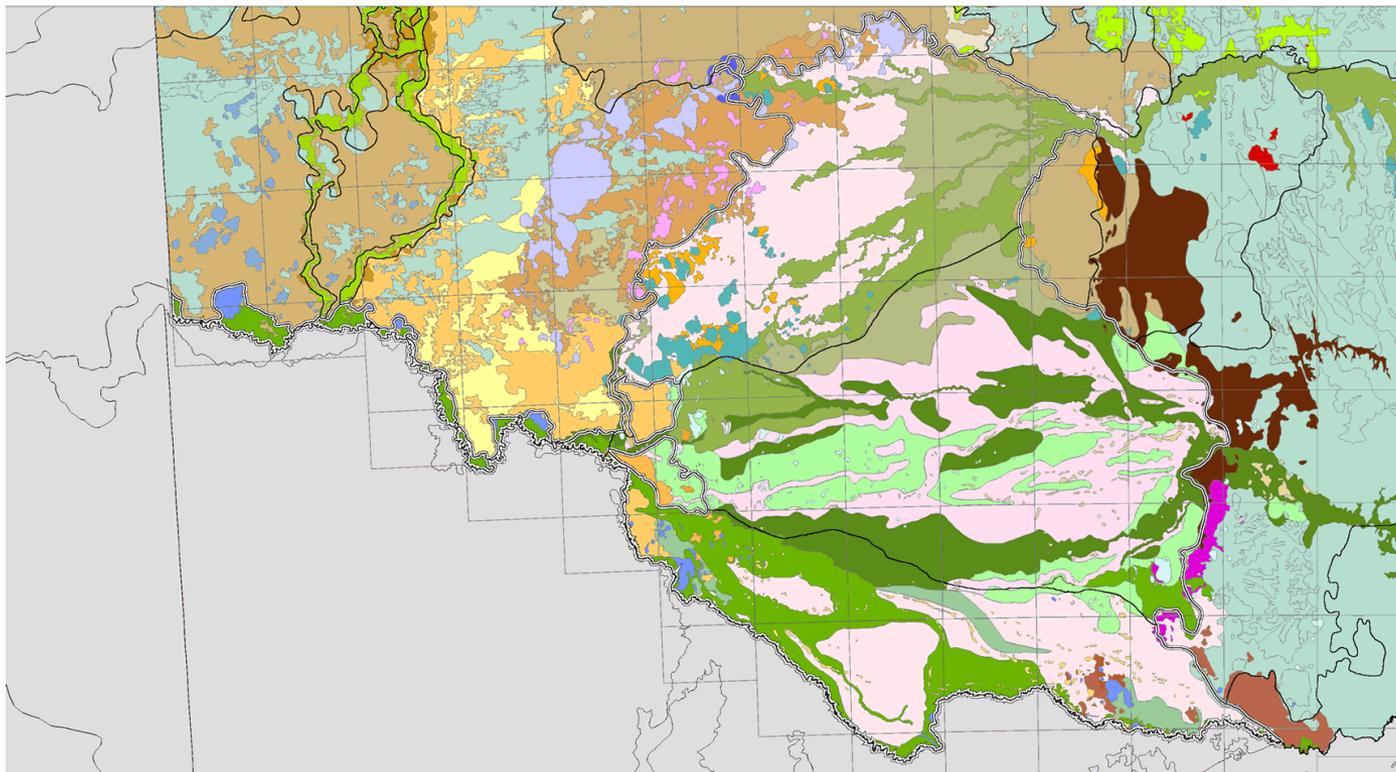
- Freehold rangeland zone (cf Western Lands leases)
- Stocking rates not regulated (cf Western Lands) and relatively high
- No current agency with responsibility for rangeland issues
- No assistance packages for graziers (cf West 2000 Program)
- Highly visible - close to population and tourism centres and intersected by two major highways
- Iconic status - sheep studs and riverine plain landscape

# RIVERINA BIOREGION

Hay



Riverina Biogeographic Region (IBRA) - Subregions and Landscapes (Mitchell, in preparation)



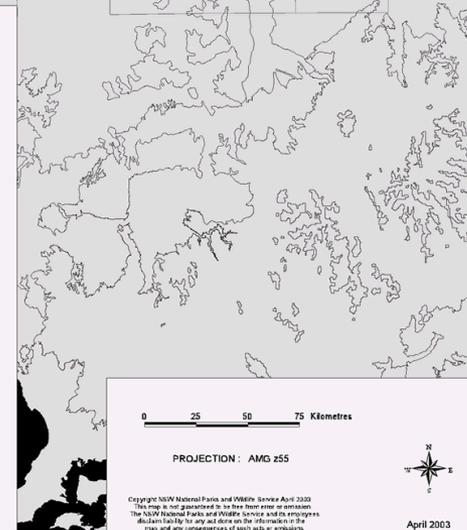
Key

 Subregion boundaries (IBRA)  
 Riverina (IBRA)

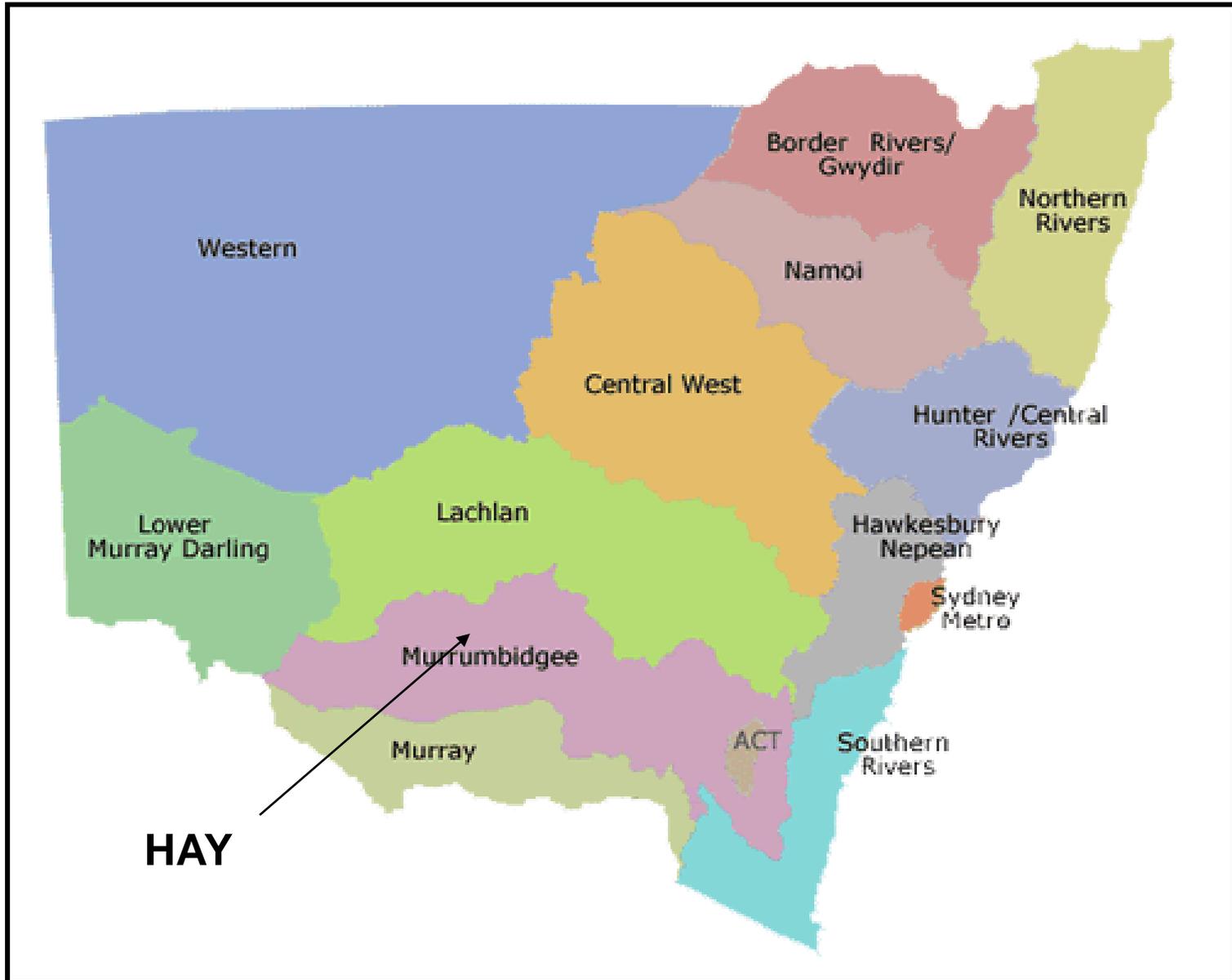
Landscapes of the Riverina

-  Albury-Oaklands Hills and Footslop
-  Buckingong Gravels
-  Cocoparra Basalt Hills
-  Cocoparra Ranges and Footslopes
-  Ivanhoe-Nangara Linear Dunes
-  Ivanhoe-Nangara Sandplains
-  Lachlan Channels and Floodplains
-  Lachlan Depression Plains
-  Lachlan Lakes, Swamps and Lunettes
-  Lachlan Sandplains
-  Lachlan Scalded Plains
-  Lachlan Source-bordering Dunes
-  Lower Darling Alluvial Plains
-  Lower Darling Channels and Floodplains
-  Mallee Cliffs Linear Dunes
-  Mallee Cliffs Sandplains
-  Mungo Lakes Complex

-  Mungo-Marona Lakes and Swamps
-  Mungo-Marona Linear Dunes
-  Mungo-Marona Retic Lakes
-  Mungo-Marona Sandplains
-  Murray Channels and Floodplains
-  Murray Depression Plains
-  Murray Lakes, Swamps and Lunettes
-  Murray Sandplains
-  Murray Scalded Plains
-  Murray Source-bordering Dunes
-  Murrumbidgee Channels and Floodplains
-  Murrumbidgee Depression Plains
-  Murrumbidgee Lakes, Swamps and Lunettes
-  Murrumbidgee Sandplains
-  Murrumbidgee Scalded Plains
-  Murrumbidgee Source-bordering Dunes
-  Nymagee Downs
-  Oaklands Hills and Footslopes
-  Riverina Dunefields
-  Riverina Sandplains
-  Scotia Groundwater Basins
-  Scotia Sandplains
-  Other Landscapes
-  IBRA regions interstate



# Catchment Management Authorities



# **Riverina vegetation communities – grazed shrub and grassland**



# **Destructive influences – drought and possible climate change**





**Destructive influences - excessive stocking rates**



**Destructive influences – feral pests**



**Destructive influences - weeds**



**Destructive influences - weeds**

# Destructive influences - paddock supplementary feeding



## Destructive influences – exotic breeds of livestock



# Hay Trees on Plains Landcare Inc







# ENRICH PROJECT

## Shrub species selection for livestock production

In association with Future Farm Industries CRC









## The top 10 shrub species for crude protein content

Scientific name	Common name	Crude protein (%)
<i>Maireana georgii</i>	<i>Satiny saltbush</i>	26
<i>Malva preissiana</i>	<i>Australian or native hollyhock</i>	25
<i>Maireana tomentosa</i>	<i>Felty bluebush</i>	25
<i>Maireana convexa</i>	<i>Mulga bluebush</i>	24
<i>Chenopodium auricomum</i>	<i>Golden goosefoot</i>	24
<i>Maireana brevifolia</i>	<i>Small leaf bluebush, yanga bush</i>	23
<i>Maireana sedifolia</i>	<i>Pearl bluebush</i>	23
<i>Rhagodia drummondii</i>	<i>Lake fringe rhagodia</i>	23
<i>Maireana pyramidata</i>	<i>Sago bush, black bluebush</i>	23
<i>Einadia nutans</i>	<i>Nodding saltbush</i>	22
<i>Atriplex rhagodioides</i>	<i>Silver saltbush</i>	22

## Shrub species showing anthelmintic properties

Scientific name	Common name	Parasite development score (% of control)
<i>Viminaria juncea</i>	<i>Swishbush, golden spray</i>	<1
<i>Eremophila maculata</i>	<i>Native fuschia</i>	2
<i>Chenopodium nitrariaceum</i>	<i>Nitre goosefoot</i>	3
<i>Acacia pycnantha</i>	<i>Golden wattle</i>	6
<i>Acacia loderi</i>	<i>Broken Hill gidgee, nelia</i>	9
<i>Acacia saligna</i>	<i>Golden wreath wattle</i>	10
<i>Eremophila longifolia</i>	<i>Emu bush, Berrigan</i>	10
<i>Kennedia eximia</i>	<i>Red coral vine</i>	12
<i>Kennedia prorepens</i>	<i>Purple flowered pea vine</i>	29
<i>Rhagodia candolleana</i>	<i>Sea berry saltbush</i>	42
<i>Enchylaena tomentosa</i>	<i>Barrier saltbush, ruby saltbush</i>	49



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## Secondary plant compounds: their role in diet selection & gut health of grazing herbivores

Dean Revell, Andrew Kotze, Dean Thomas  
CSIRO  
Australia

