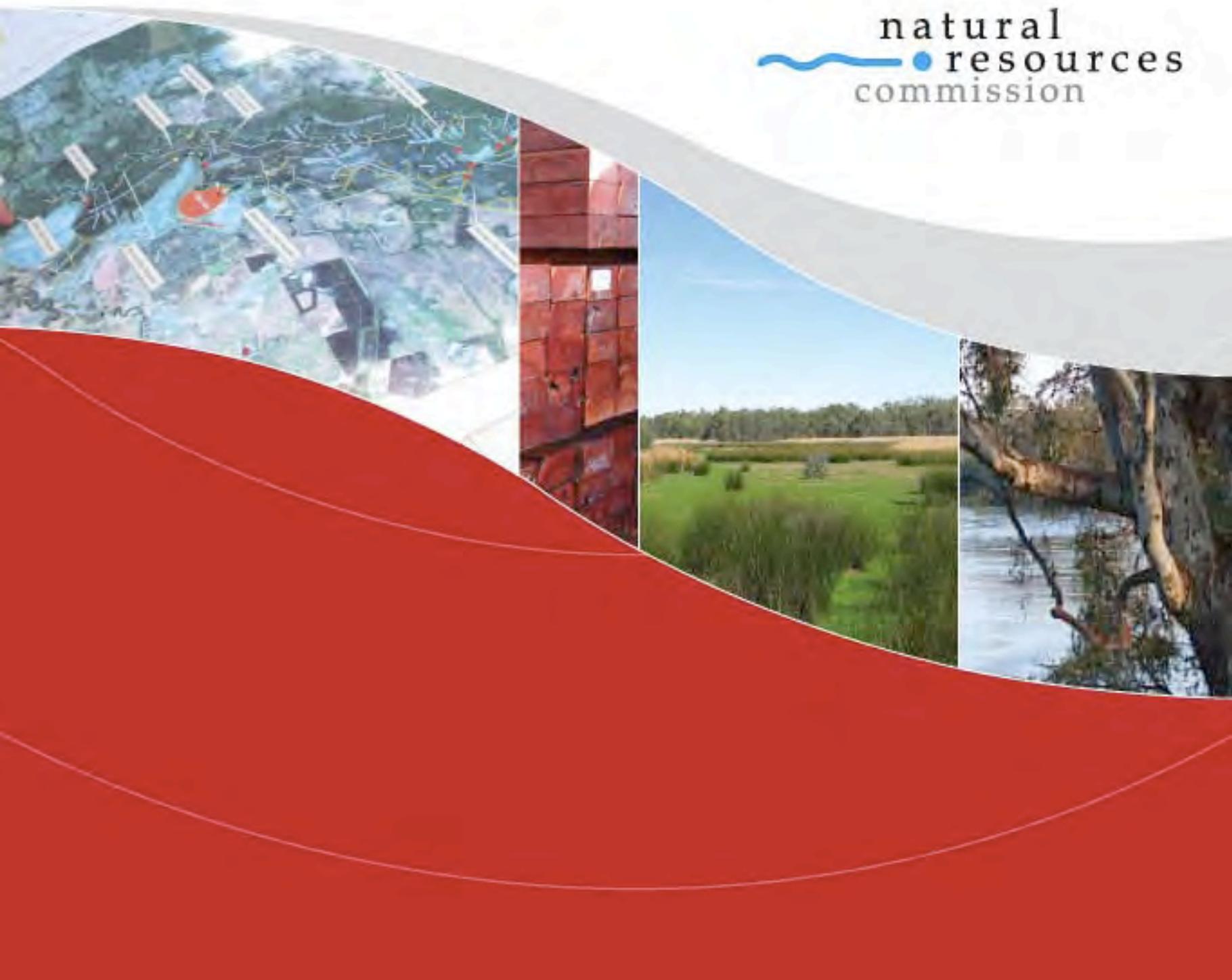


SEPTEMBER
2009

SUPPORTING MAP BOOK

RIVERINA BIOREGION
REGIONAL FOREST ASSESSMENT
**RIVER RED GUMS AND
WOODLAND FORESTS**

natural
resources
commission





Riverina Bioregion
Regional Forest Assessment
River Red Gums and woodland forests

PRELIMINARY ASSESSMENT REPORT

Supporting A3 Map Book

The supporting A3 map book is to be read in conjunction with the Preliminary Assessment Report. It has been designed to provide additional mapping detail than the A4 documents provided within the Preliminary Assessment Report, and allows the reader to more readily distinguish features of interest throughout the study area.

Figure numbers in the map book correspond with those in the Preliminary Assessment Report and not all figures have been represented.

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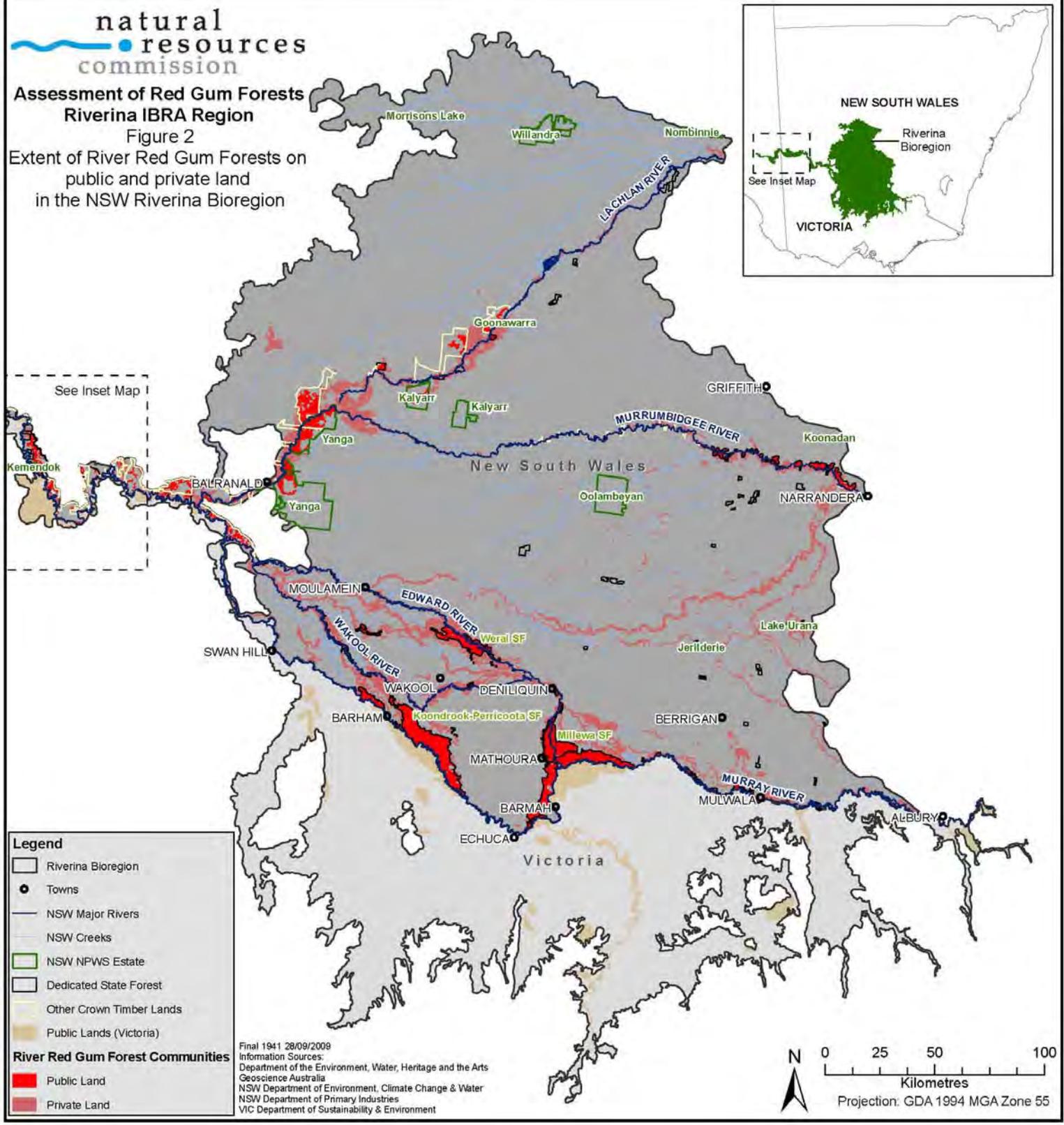
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Figure 3	Local Government Areas in the NSW Riverina Bioregion
Figure 5	NSW Central Murray State Forests Ramsar site
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- Figure 38** Modelled maximum inundation extents for Koondrook-Perricoota – 2000 ML/d (DHI 2008)
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- Figure 40** Conceptual diagram illustrating hydrological links between Werai Forests and Millewa Forests (GHD 2009, Figure 38, p144)

Assessment of Red Gum Forests
Riverina IBRA Region

Figure 2

Extent of River Red Gum Forests on public and private land in the NSW Riverina Bioregion



Legend

- Riverina Bioregion
- Towns
- NSW Major Rivers
- NSW Creeks
- NSW NPWS Estate
- Dedicated State Forest
- Other Crown Timber Lands
- Public Lands (Victoria)

River Red Gum Forest Communities

- Public Land
- Private Land

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Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment

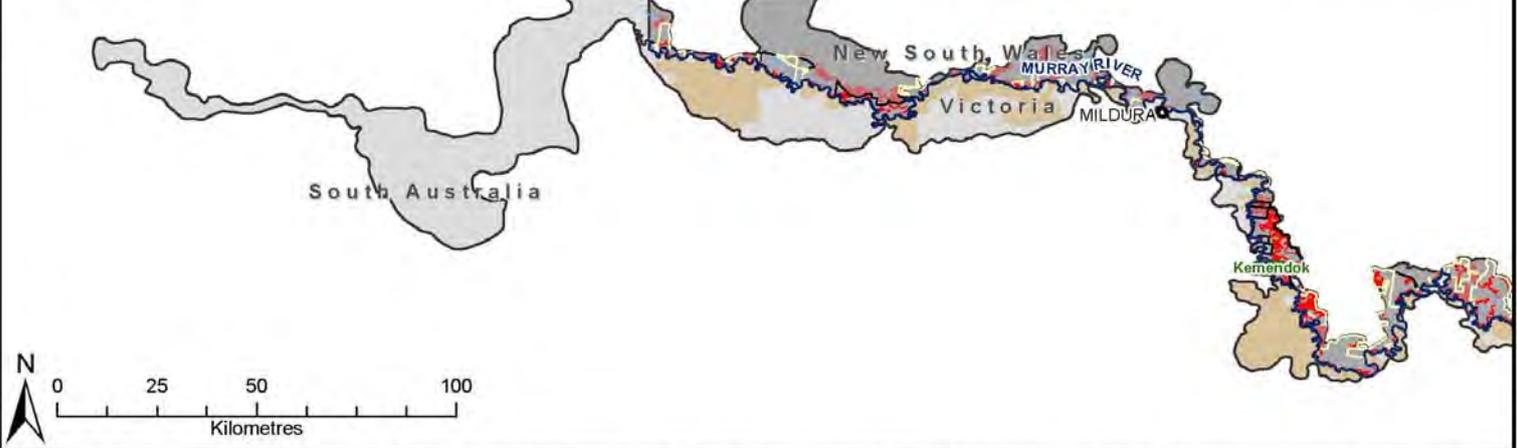
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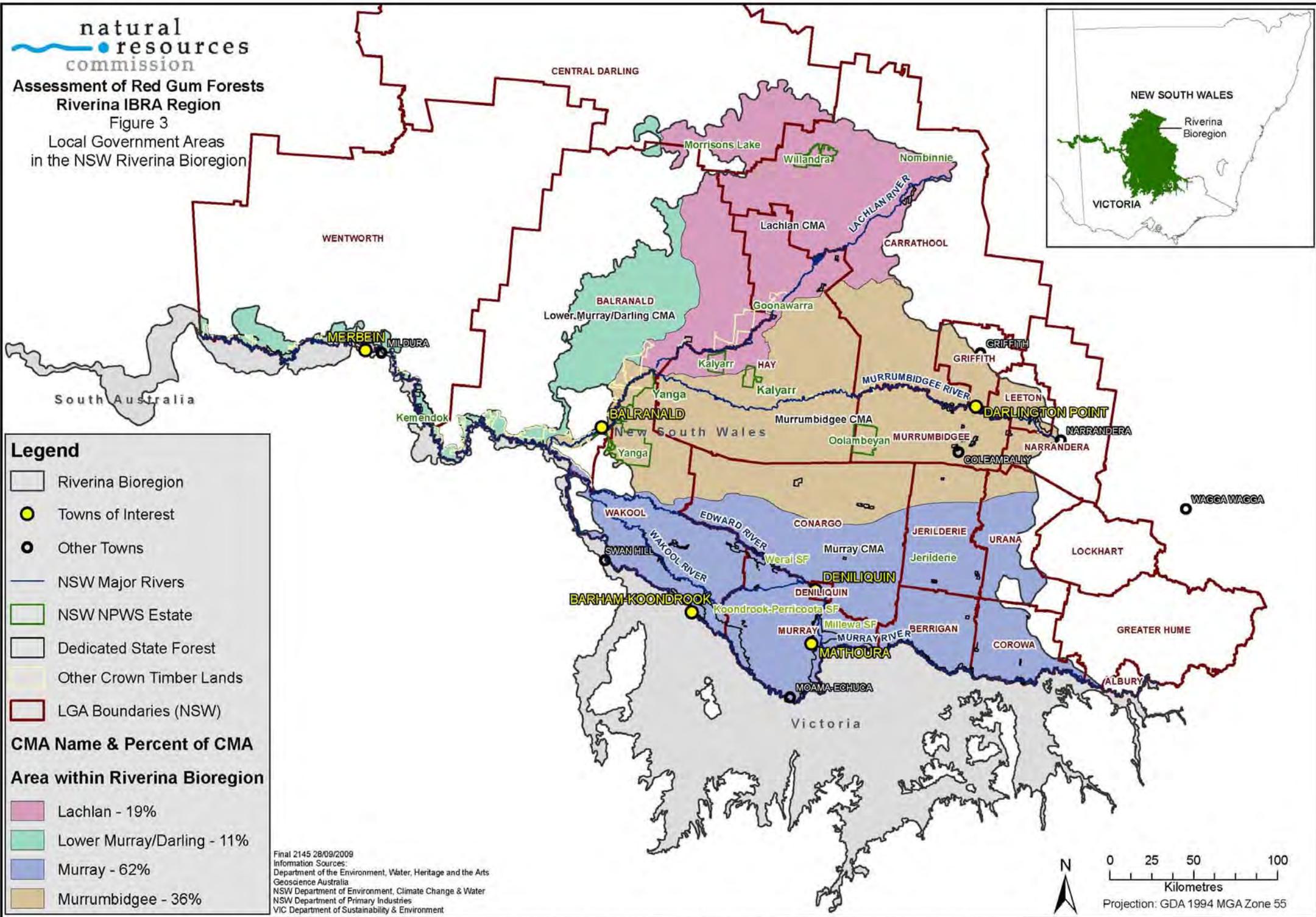
Projection: GDA 1994 MGA Zone 55

Inset Map



Assessment of Red Gum Forests
Riverina IBRA Region

Figure 3
Local Government Areas
in the NSW Riverina Bioregion



Legend

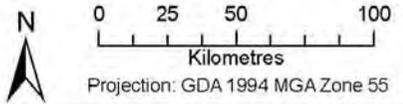
- Riverina Bioregion
- Towns of Interest
- Other Towns
- NSW Major Rivers
- NSW NPWS Estate
- Dedicated State Forest
- Other Crown Timber Lands
- LGA Boundaries (NSW)

CMA Name & Percent of CMA

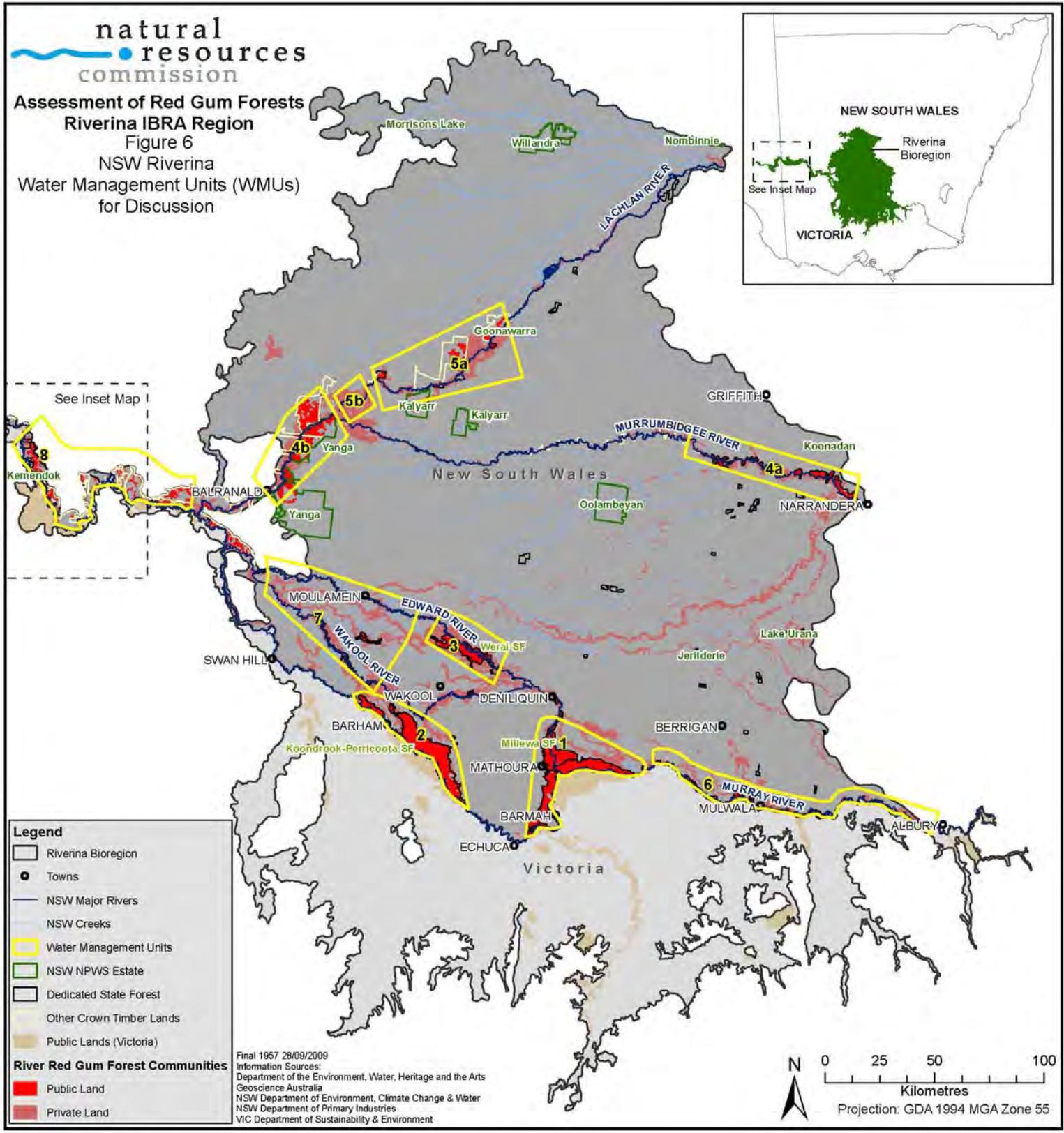
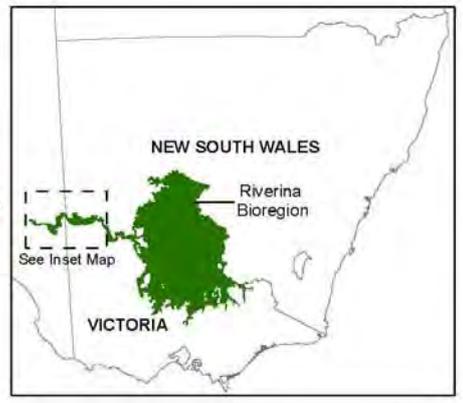
Area within Riverina Bioregion

- Lachlan - 19%
- Lower Murray/Darling - 11%
- Murray - 62%
- Murrumbidgee - 36%

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Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment



**Assessment of Red Gum Forests
Riverina IBRA Region**
Figure 6
NSW Riverina
Water Management Units (WMUs)
for Discussion



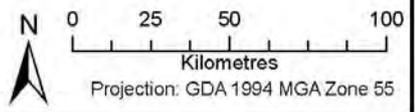
Legend

- Riverina Bioregion
- Towns
- NSW Major Rivers
- NSW Creeks
- Water Management Units
- NSW NPWS Estate
- Dedicated State Forest
- Other Crown Timber Lands
- Public Lands (Victoria)

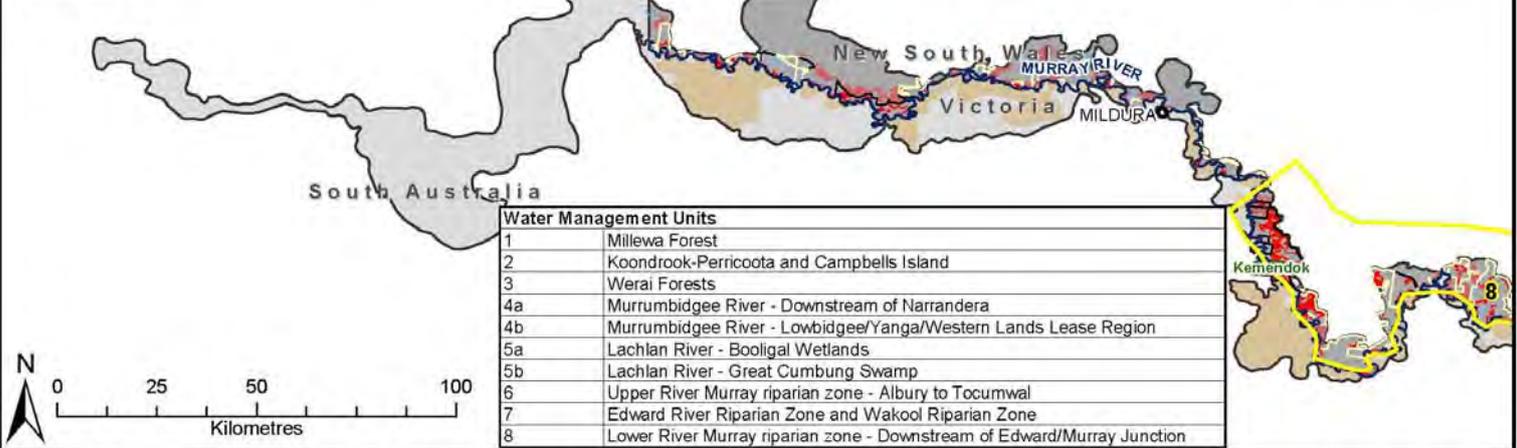
River Red Gum Forest Communities

- Public Land
- Private Land

Final 1957 28/09/2009
Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment

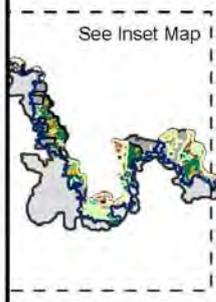
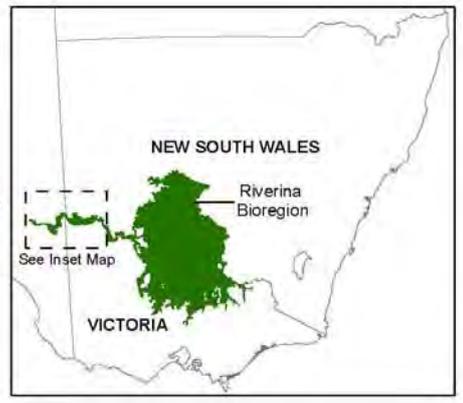


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Assessment of Red Gum Forests
Riverina IBRA Region
Figure 7

Distribution of Vegetation Groups
within All State Forests
in the NSW Riverina



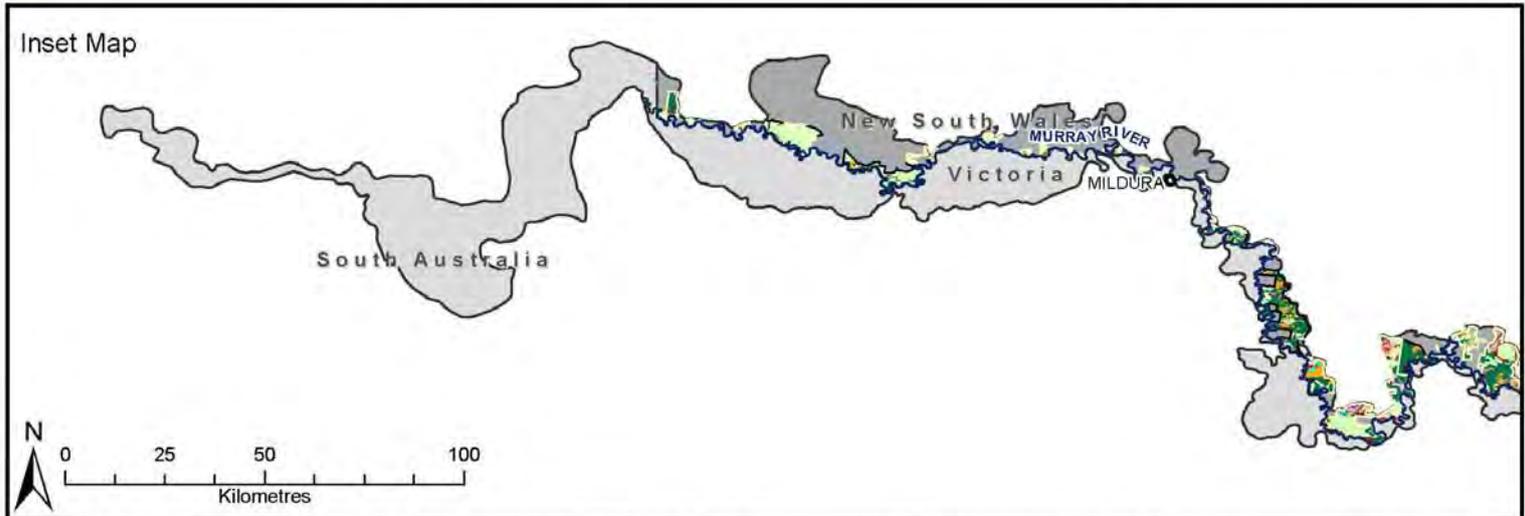
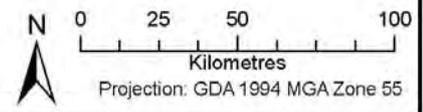
Legend

- Riverina Bioregion
- Towns
- NSW Major Rivers
- NSW Creeks
- Dedicated State Forest
- Other Crown Timber Lands

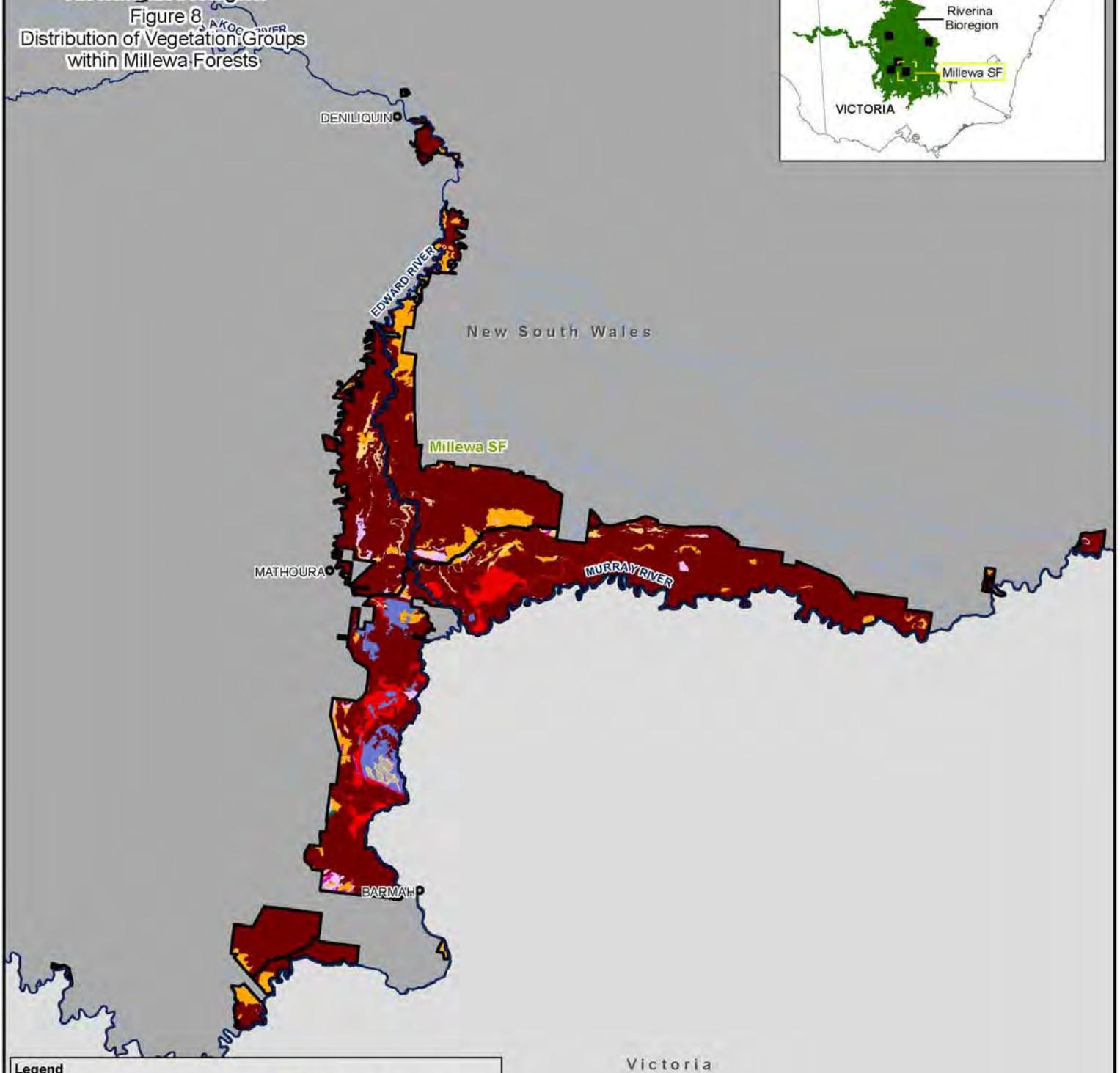
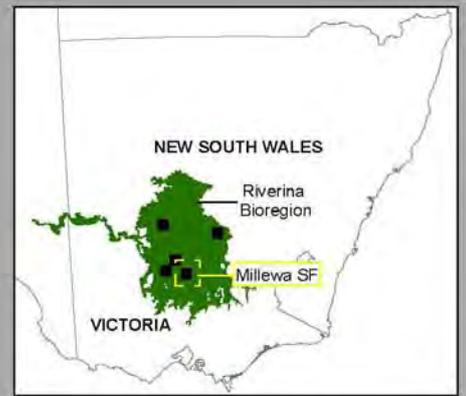
Vegetation Group

- River Red Gum Very Tall Forest (SO1)
- River Red Gum Tall Open Forest (SO2)
- River Red Gum Woodland (SO3)
- River Red Gum - Box Woodland
- Box - White Cypress Woodland
- White Cypress Woodland
- Chenopod Shrubland
- Freshwater Wetlands
- Mallee Woodland
- Riverine Box Woodland
- Riverine Shrubland
- Semi-arid Acacia Woodland
- Semi-arid Oak Woodland
- Slender Cypress Woodland
- Tussock Grassland
- Unknown Non-Woody Vegetation
- Cleared
- Non-native Vegetation
- Non Vegetation
- Unknown

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Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment



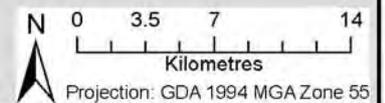
Assessment of Red Gum Forests
Riverina IBRA Region
Figure 8
Distribution of Vegetation Groups
within Millewa Forests



Legend

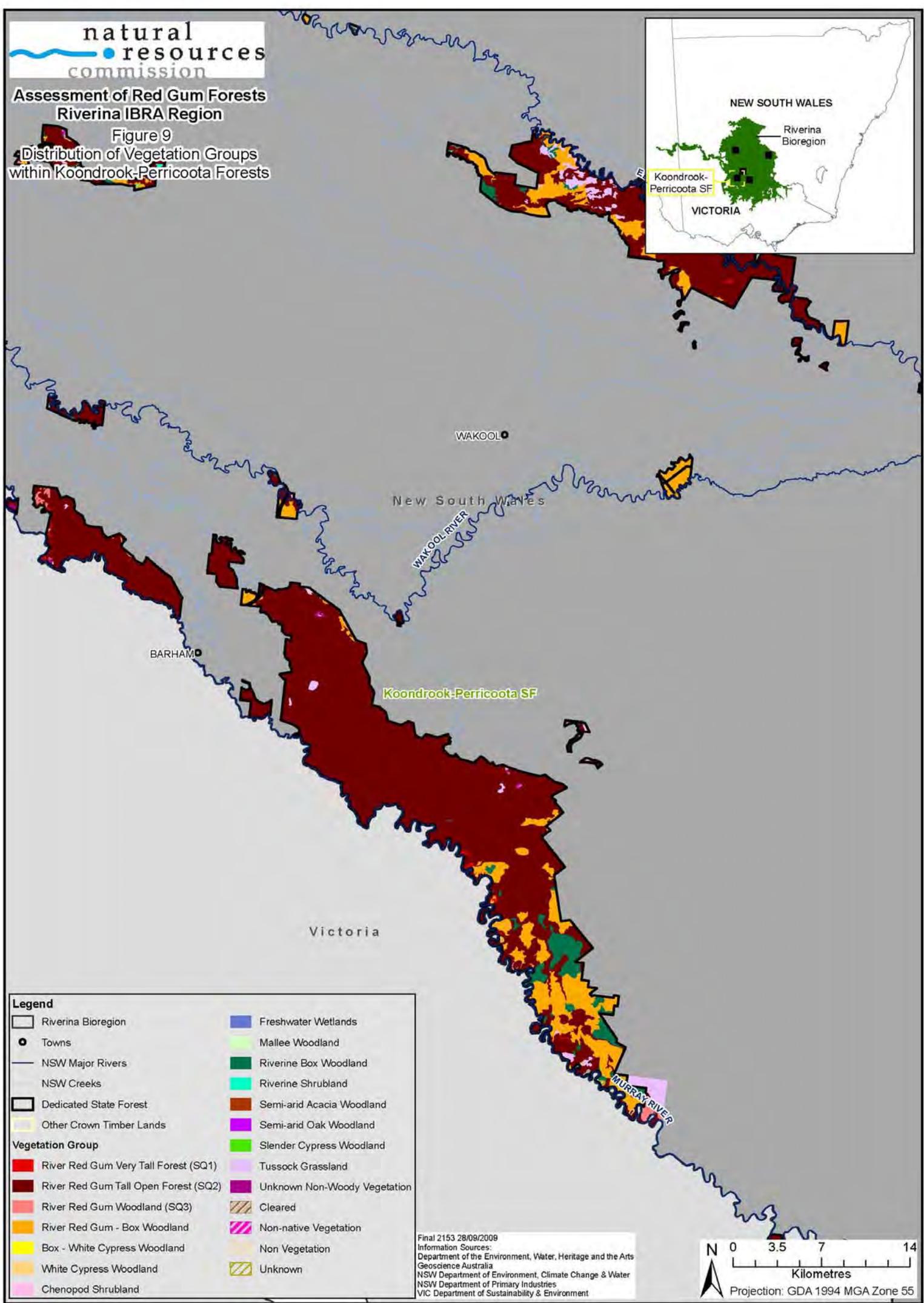
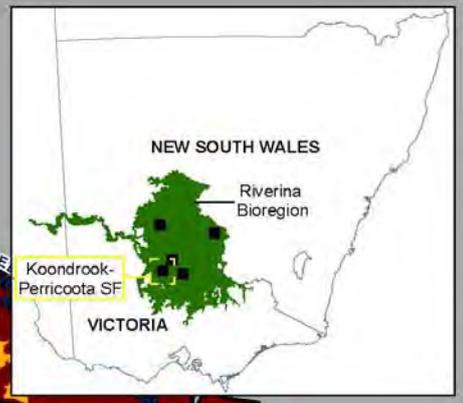
Riverina Bioregion	Freshwater Wetlands
Towns	Mallee Woodland
NSW Major Rivers	Riverine Box Woodland
NSW Creeks	Riverine Shrubland
Dedicated State Forest	Semi-arid Acacia Woodland
Other Crown Timber Lands	Semi-arid Oak Woodland
Vegetation Group	
River Red Gum Very Tall Forest (SQ1)	Tussock Grassland
River Red Gum Tall Open Forest (SQ2)	Unknown Non-Woody Vegetation
River Red Gum Woodland (SQ3)	Cleared
River Red Gum - Box Woodland	Non-native Vegetation
Box - White Cypress Woodland	Non Vegetation
White Cypress Woodland	Unknown
Chenopod Shrubland	

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Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment



Assessment of Red Gum Forests
Riverina IBRA Region

Figure 9
Distribution of Vegetation Groups
within Koondrook-Perricoota Forests



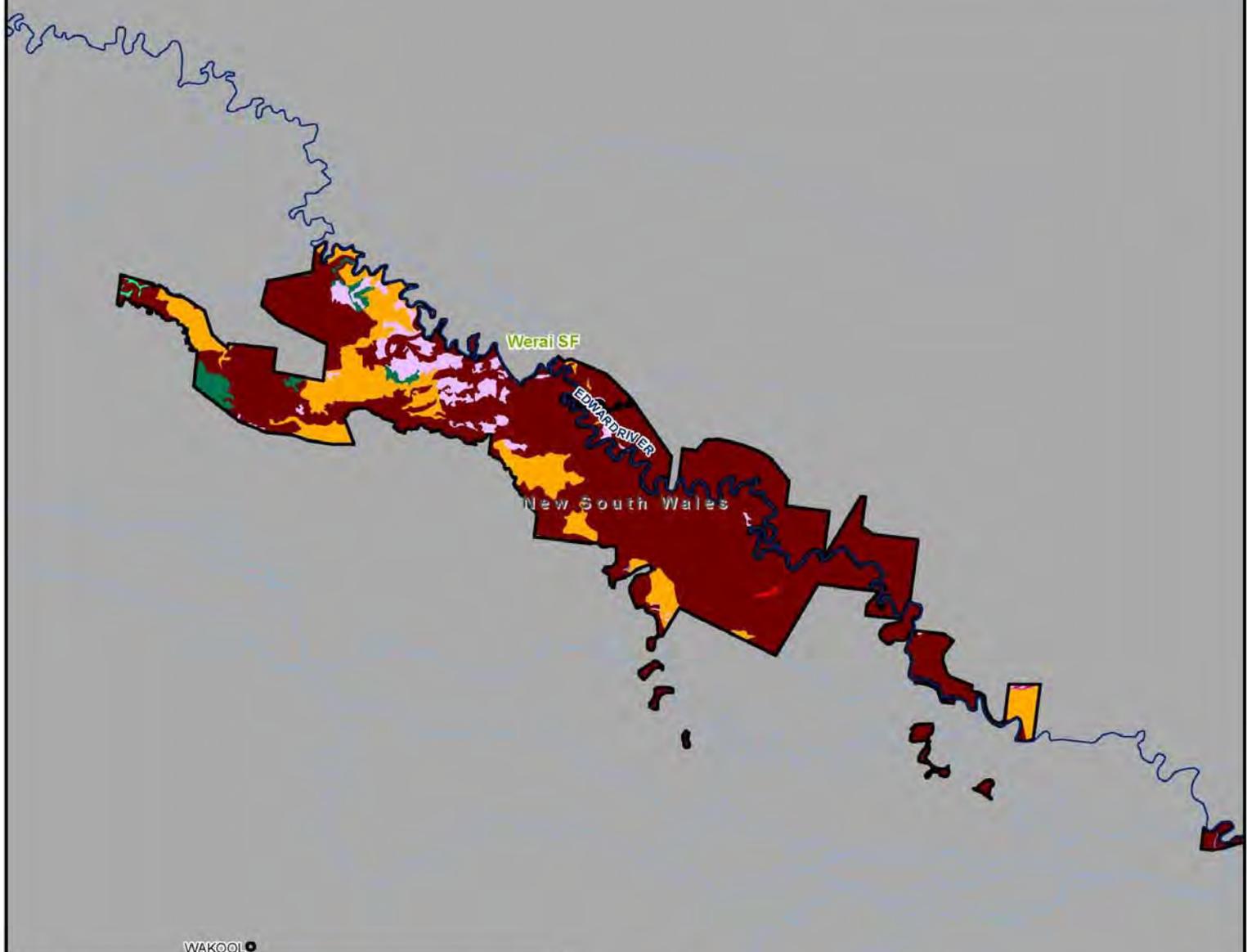
Legend

Riverina Bioregion	Freshwater Wetlands
Towns	Mallee Woodland
NSW Major Rivers	Riverine Box Woodland
NSW Creeks	Riverine Shrubland
Dedicated State Forest	Semi-arid Acacia Woodland
Other Crown Timber Lands	Semi-arid Oak Woodland
Vegetation Group	Slender Cypress Woodland
River Red Gum Very Tall Forest (SQ1)	Tussock Grassland
River Red Gum Tall Open Forest (SQ2)	Unknown Non-Woody Vegetation
River Red Gum Woodland (SQ3)	Cleared
River Red Gum - Box Woodland	Non-native Vegetation
Box - White Cypress Woodland	Non Vegetation
White Cypress Woodland	Unknown
Chenopod Shrubland	

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 Information Sources:
 Department of the Environment, Water, Heritage and the Arts
 Geoscience Australia
 NSW Department of Environment, Climate Change & Water
 NSW Department of Primary Industries
 VIC Department of Sustainability & Environment



Assessment of Red Gum Forests
Riverina IBRA Region
Figure 10
Distribution of Vegetation Groups
within Werai Forests



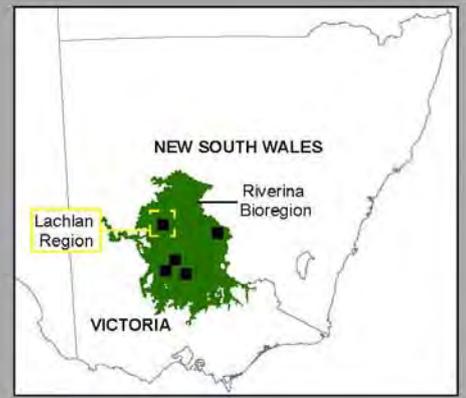
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Riverina Bioregion	Freshwater Wetlands
Towns	Mallee Woodland
NSW Major Rivers	Riverine Box Woodland
NSW Creeks	Riverine Shrubland
Dedicated State Forest	Semi-arid Acacia Woodland
Other Crown Timber Lands	Semi-arid Oak Woodland
Vegetation Group	Slender Cypress Woodland
River Red Gum Very Tall Forest (SQ1)	Tussock Grassland
River Red Gum Tall Open Forest (SQ2)	Unknown Non-Woody Vegetation
River Red Gum Woodland (SQ3)	Cleared
River Red Gum - Box Woodland	Non-native Vegetation
Box - White Cypress Woodland	Non Vegetation
White Cypress Woodland	Unknown
Chenopod Shrubland	

Final 2155 28/09/2009
Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment

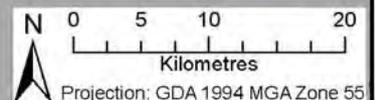
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Projection: GDA 1994 MGA Zone 55

Assessment of Red Gum Forests
Riverina IBRA Region
Figure 11
Distribution of Vegetation Groups
within the Lachlan Region



Legend	
Riverina Bioregion	Freshwater Wetlands
Towns	Mallee Woodland
NSW Major Rivers	Riverine Box Woodland
NSW Creeks	Riverine Shrubland
Dedicated State Forest	Semi-arid Acacia Woodland
Other Crown Timber Lands	Semi-arid Oak Woodland
Vegetation Group	
River Red Gum Very Tall Forest (SQ1)	Slender Cypress Woodland
River Red Gum Tall Open Forest (SQ2)	Tussock Grassland
River Red Gum Woodland (SQ3)	Unknown Non-Woody Vegetation
River Red Gum - Box Woodland	Cleared
Box - White Cypress Woodland	Non-native Vegetation
White Cypress Woodland	Non Vegetation
Chenopod Shrubland	Unknown

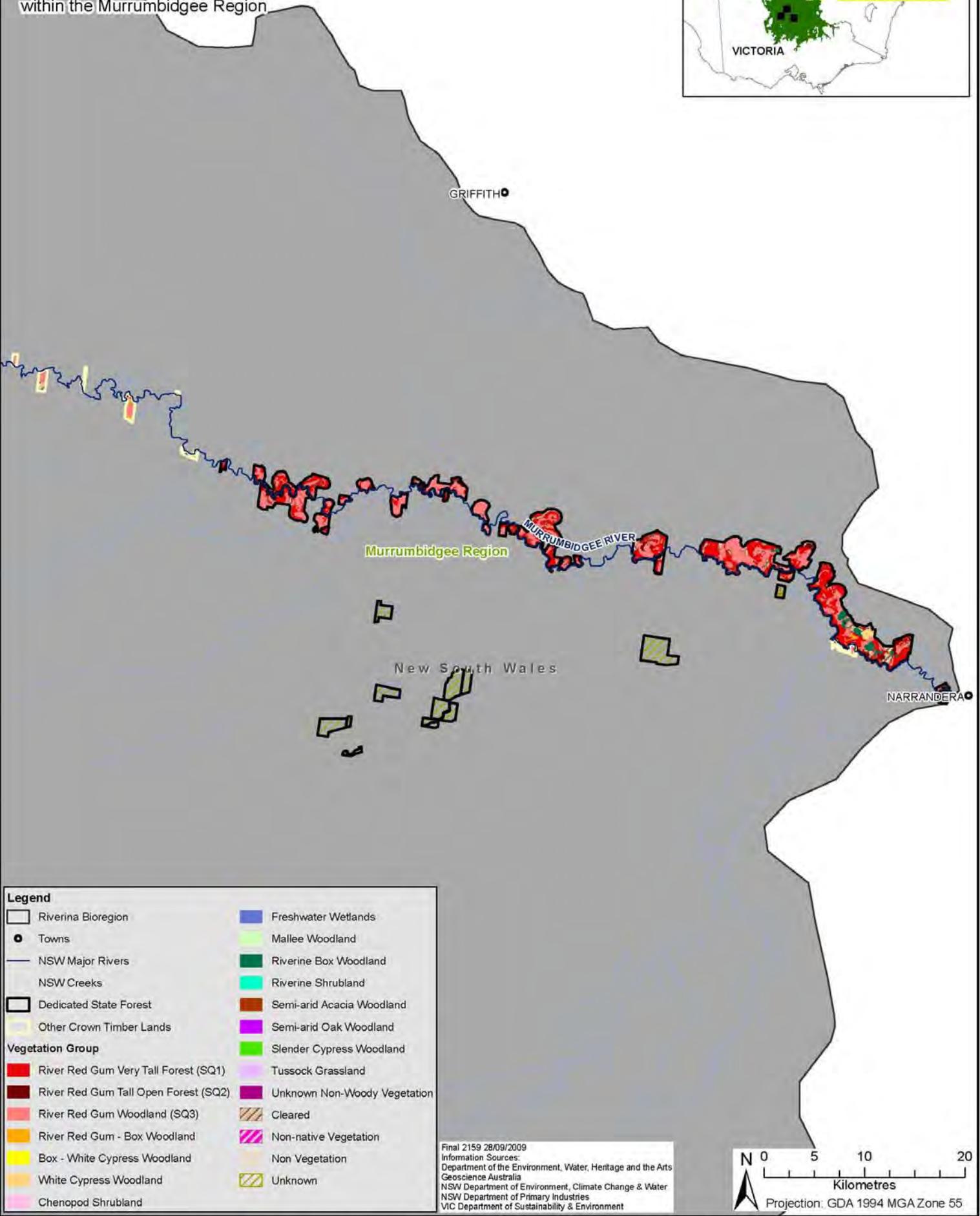
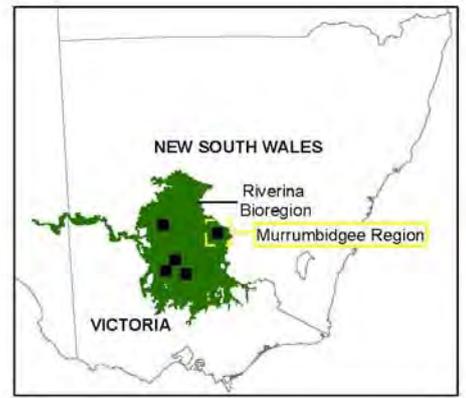
Final 2157 28/09/2009
Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment



Assessment of Red Gum Forests
Riverina IBRA Region

Figure 12

Distribution of Vegetation Groups
within the Murrumbidgee Region



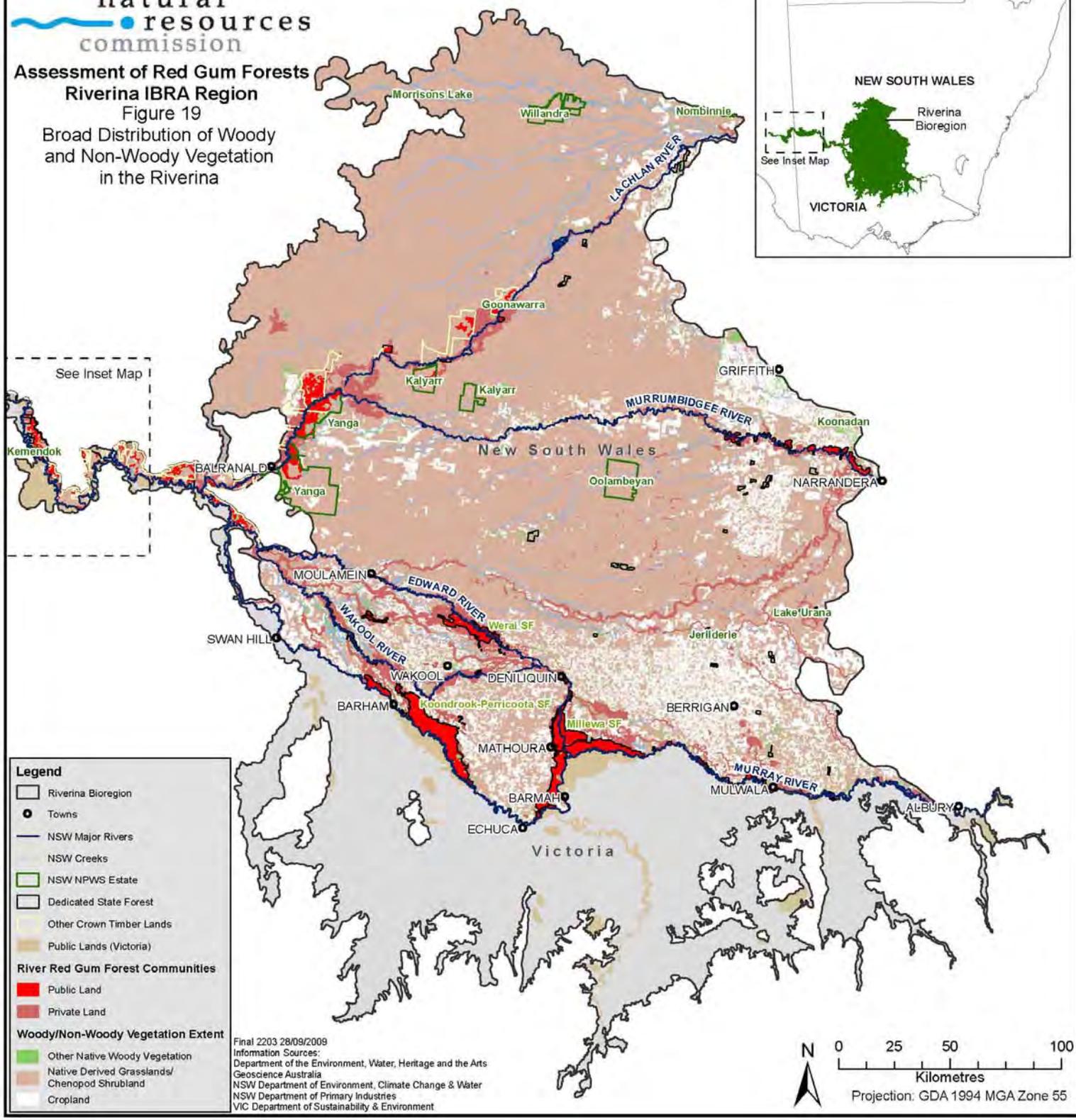
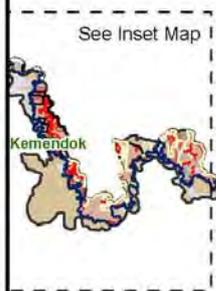
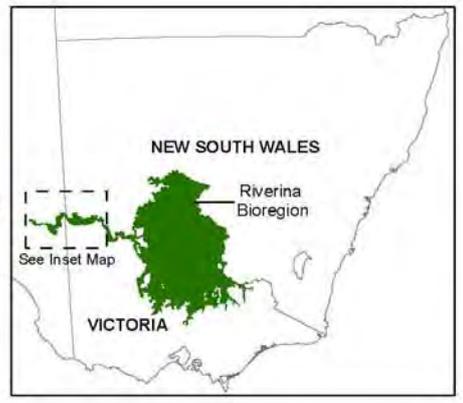
Legend

Riverina Bioregion	Freshwater Wetlands
Towns	Mallee Woodland
NSW Major Rivers	Riverine Box Woodland
NSW Creeks	Riverine Shrubland
Dedicated State Forest	Semi-arid Acacia Woodland
Other Crown Timber Lands	Semi-arid Oak Woodland
Vegetation Group	Slender Cypress Woodland
River Red Gum Very Tall Forest (SQ1)	Tussock Grassland
River Red Gum Tall Open Forest (SQ2)	Unknown Non-Woody Vegetation
River Red Gum Woodland (SQ3)	Cleared
River Red Gum - Box Woodland	Non-native Vegetation
Box - White Cypress Woodland	Non Vegetation
White Cypress Woodland	Unknown
Chenopod Shrubland	

Final 2159 28/09/2009
 Information Sources:
 Department of the Environment, Water, Heritage and the Arts
 Geoscience Australia
 NSW Department of Environment, Climate Change & Water
 NSW Department of Primary Industries
 VIC Department of Sustainability & Environment

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 Kilometres
 Projection: GDA 1994 MGA Zone 55

Assessment of Red Gum Forests
Riverina IBRA Region
Figure 19
Broad Distribution of Woody and Non-Woody Vegetation in the Riverina



Legend

- Riverina Bioregion
- Towns
- NSW Major Rivers
- NSW Creeks
- NSW NPWS Estate
- Dedicated State Forest
- Other Crown Timber Lands
- Public Lands (Victoria)

River Red Gum Forest Communities

- Public Land
- Private Land

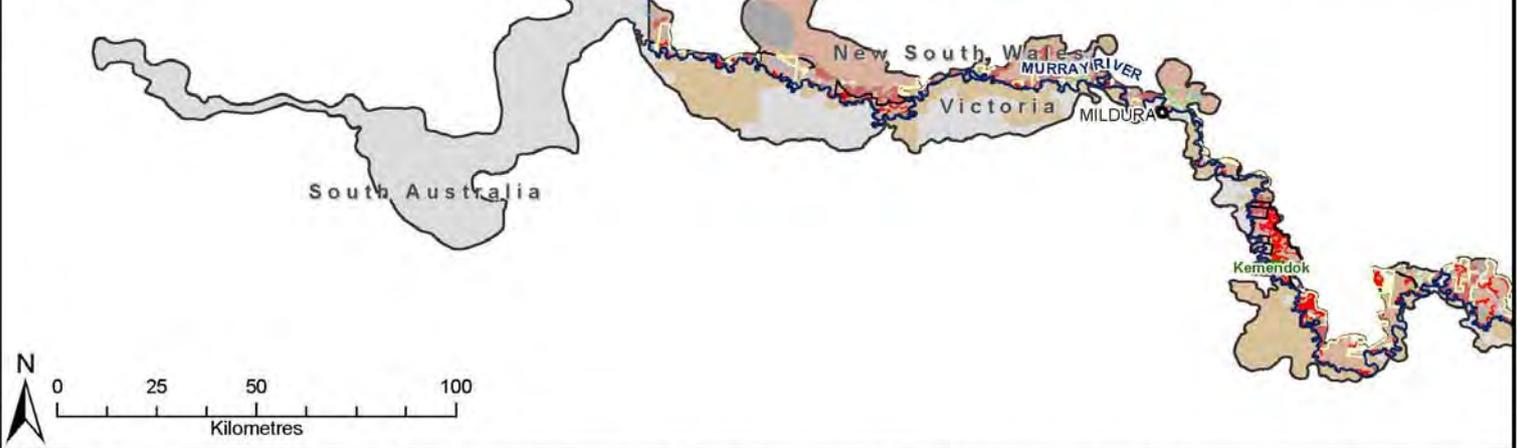
Woody/Non-Woody Vegetation Extent

- Other Native Woody Vegetation
- Native Derived Grasslands/Chenopod Shrubland
- Cropland

Final 2203 28/09/2009
Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment

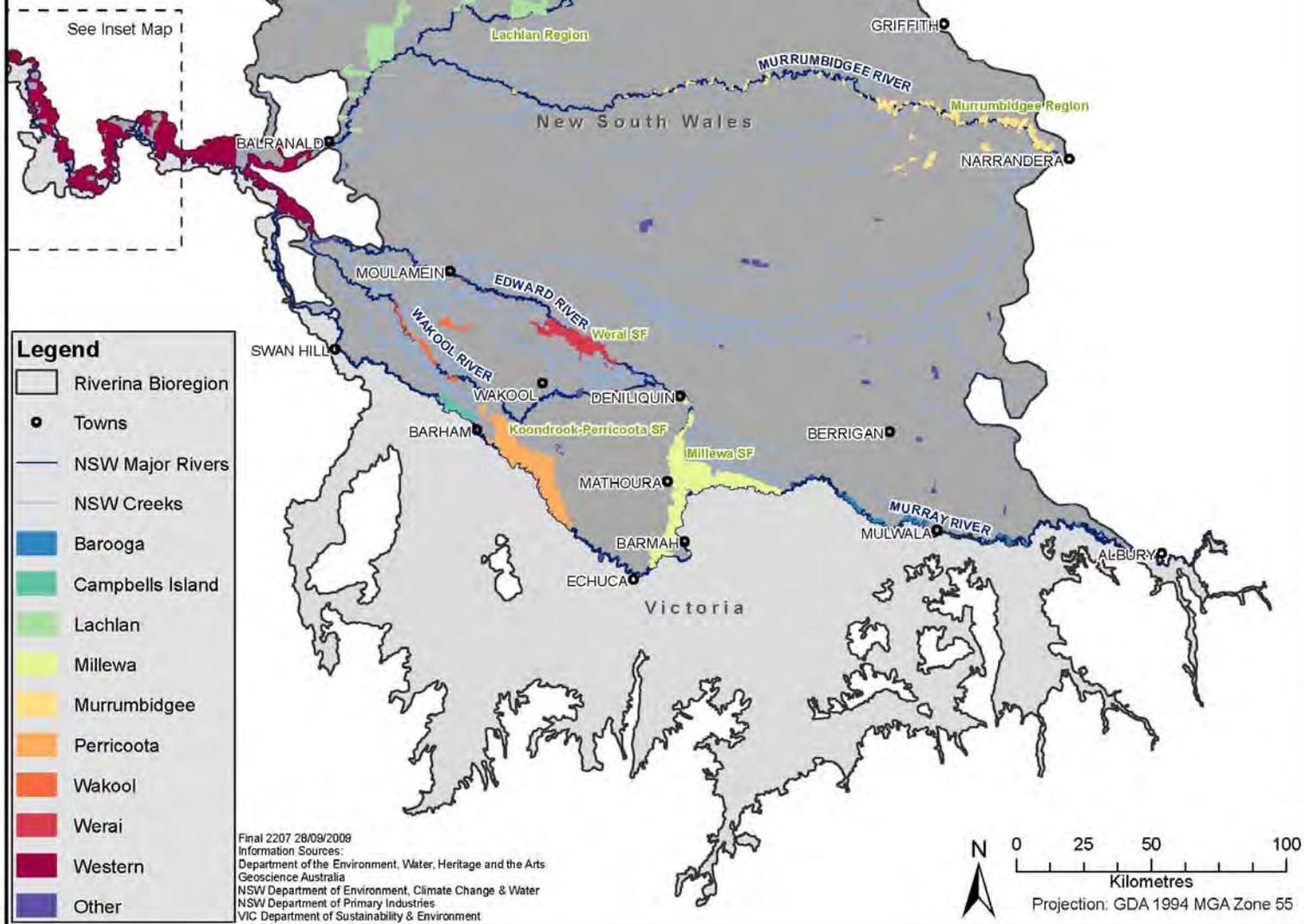
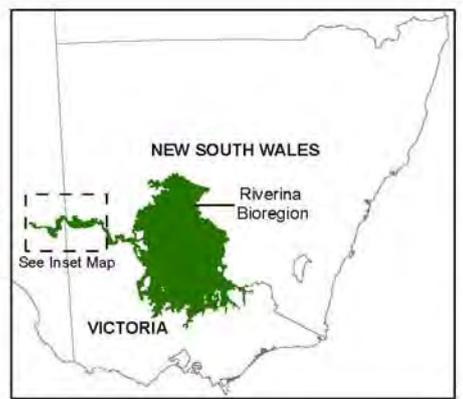
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Projection: GDA 1994 MGA Zone 55

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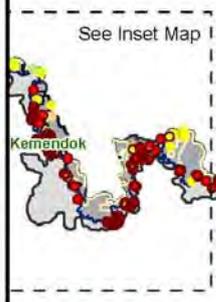
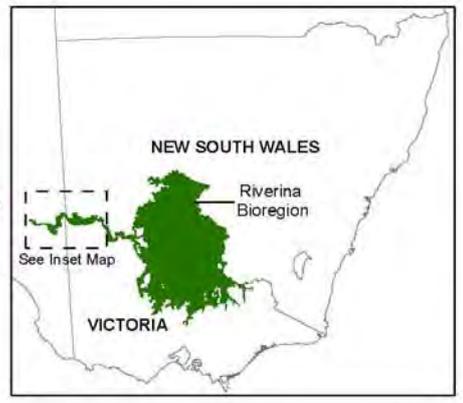


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Kilometres

Assessment of Red Gum Forests
Riverina IBRA Region
Figure 20
Forest Groups Used for
Conservation Value Assessment



Assessment of Red Gum Forests
Riverina IBRA Region
Figure 21
Threatened Fauna Records
in the NSW Riverina



Legend

- Riverina Bioregion
- Towns
- NSW Major Rivers
- NSW Creeks
- NSW NPWS Estate
- Dedicated State Forest
- Other Crown Timber Lands

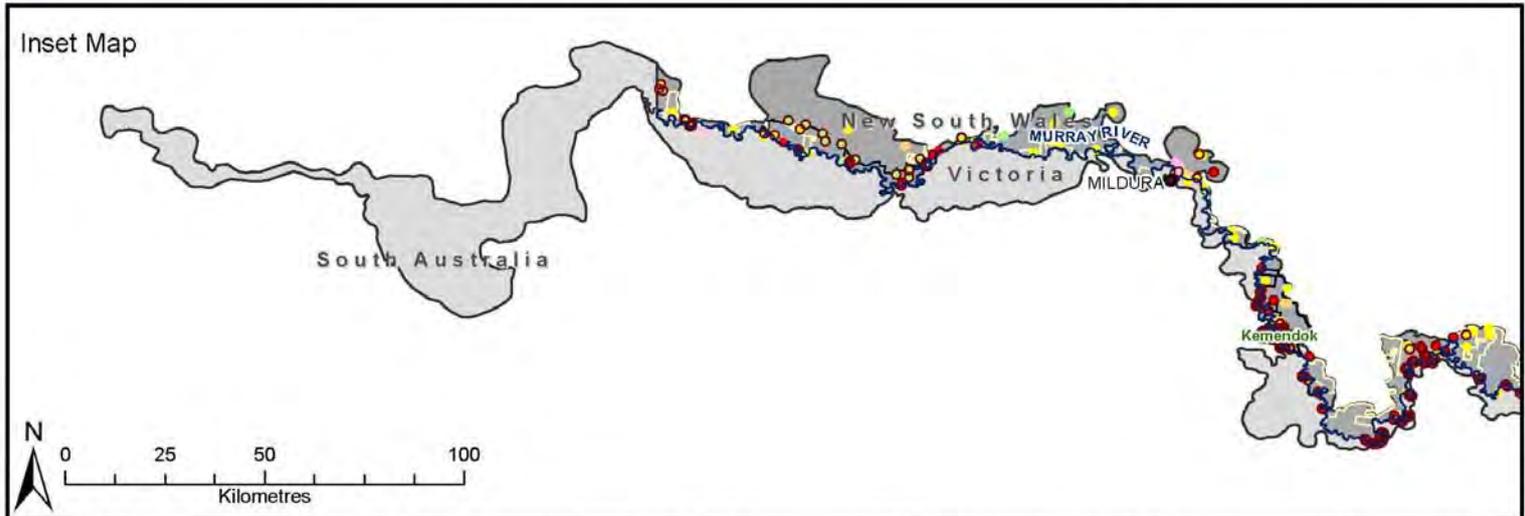
EPBC Fauna

- EPBC Species

Threatened Fauna

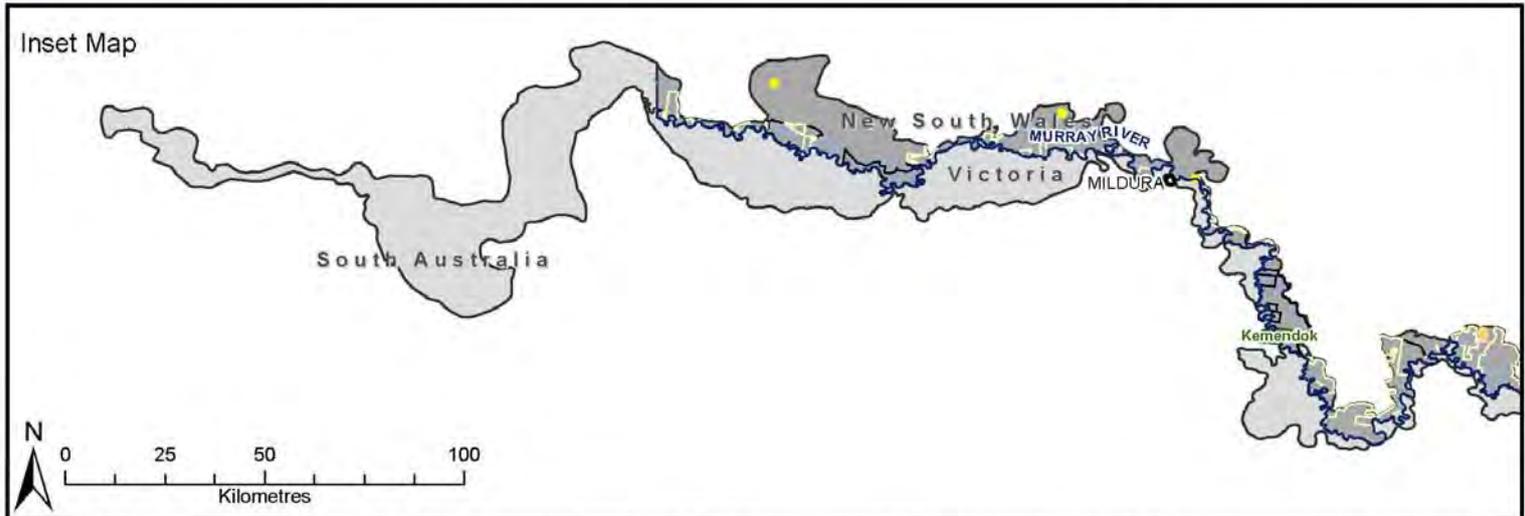
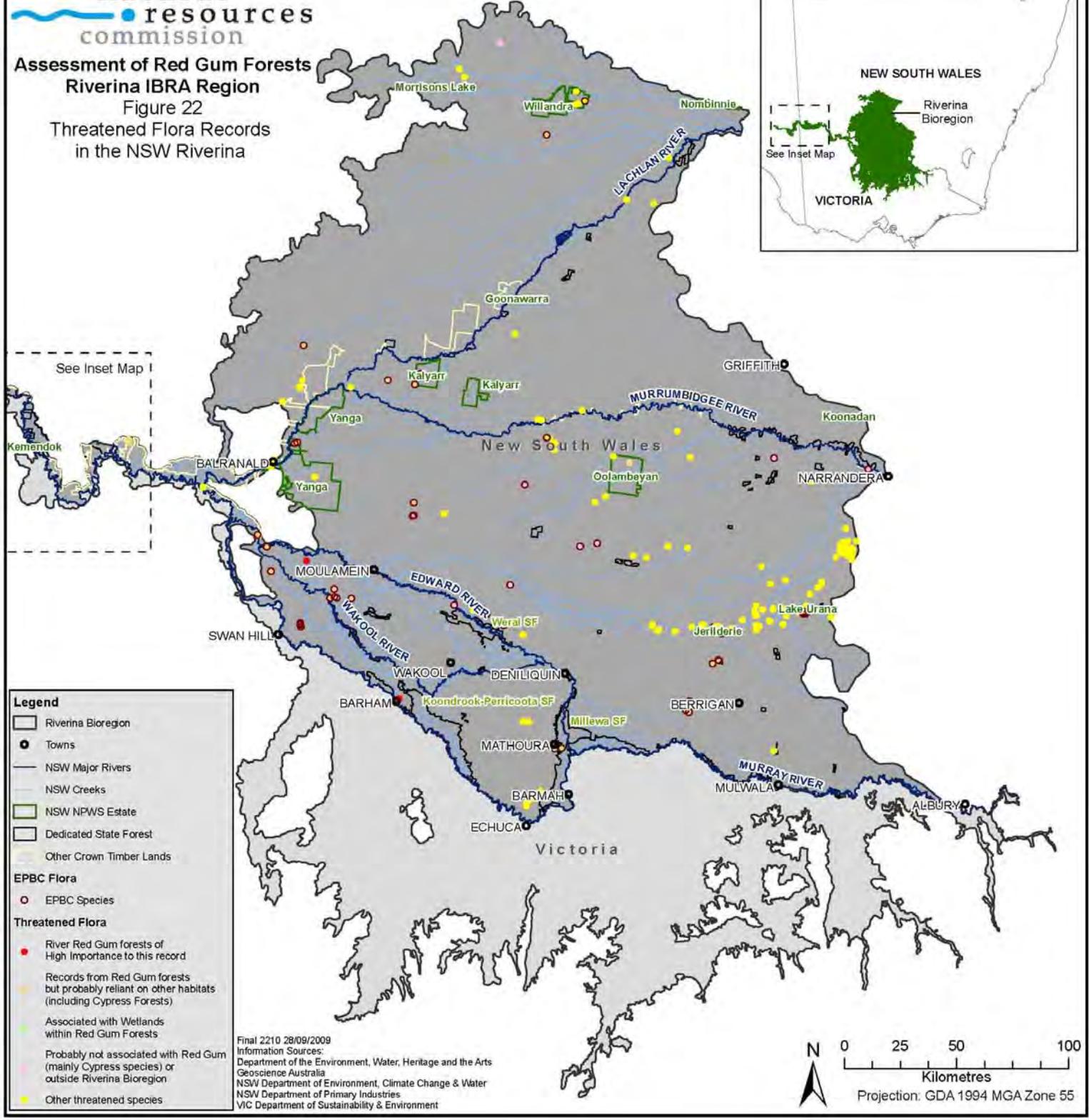
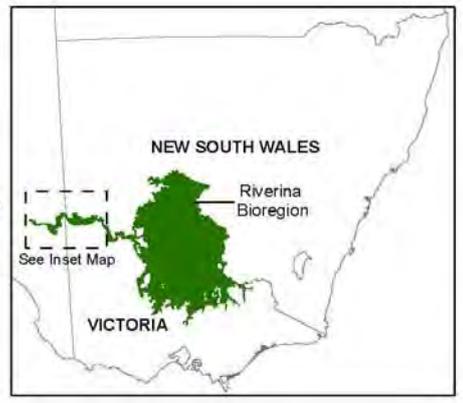
- River Red Gum forests of High Importance to this record
- Records from Red Gum forests but probably reliant on other habitats (including Cypress Forests)
- Associated with Wetlands within Red Gum Forests
- Probably not associated with Red Gum (mainly Cypress species) or outside Riverina Bioregion
- Other threatened species

Final 2211 28/09/2009
Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment



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Kilometres
Projection: GDA 1994 MGA Zone 55

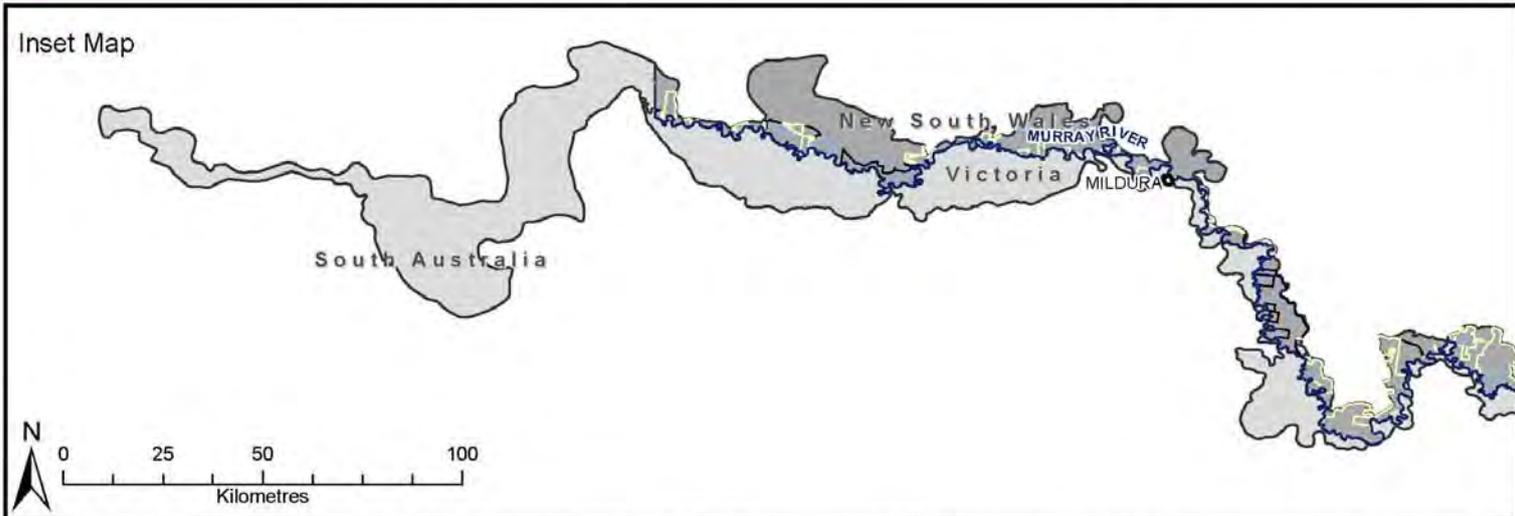
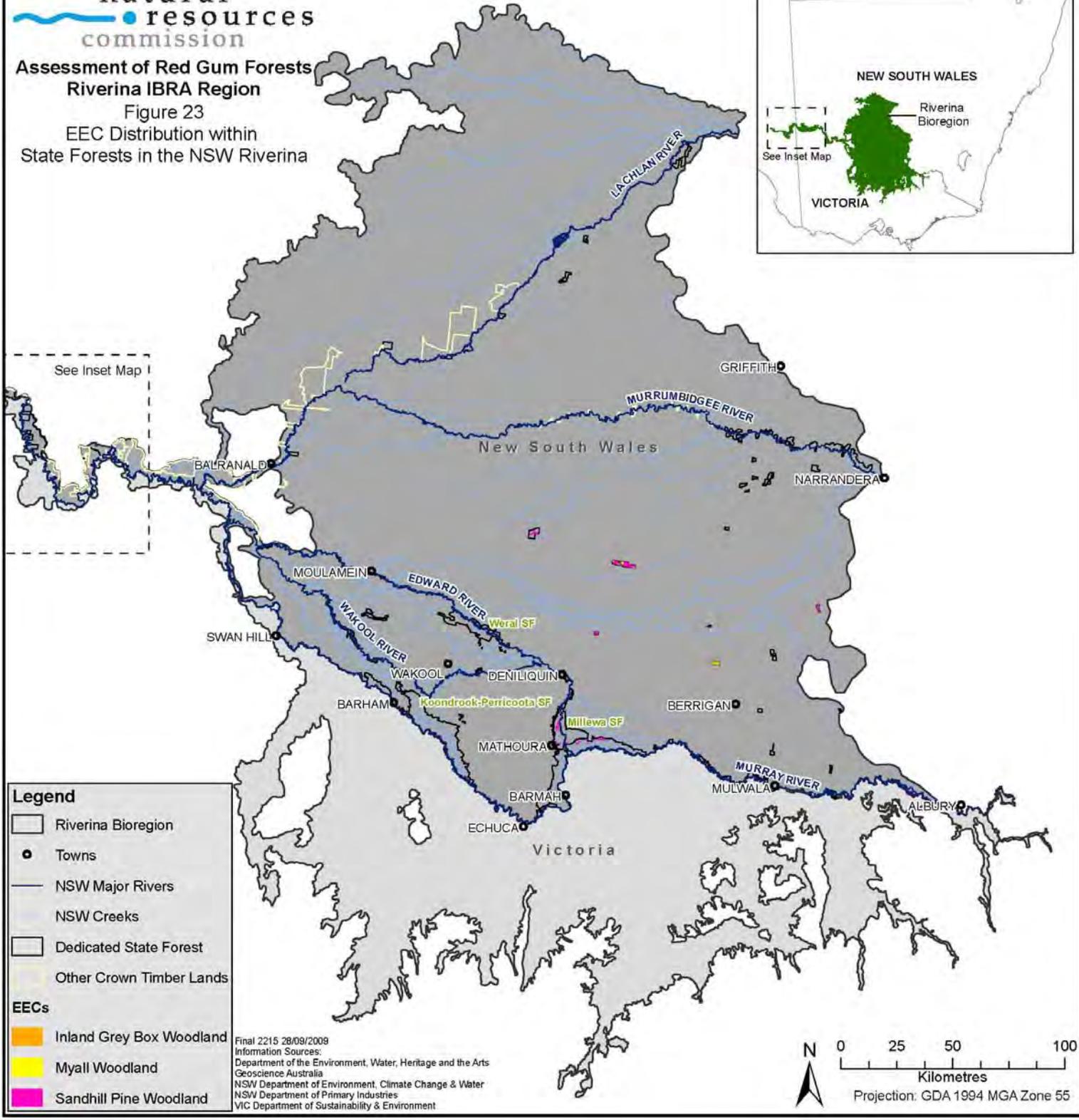
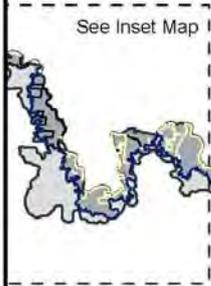
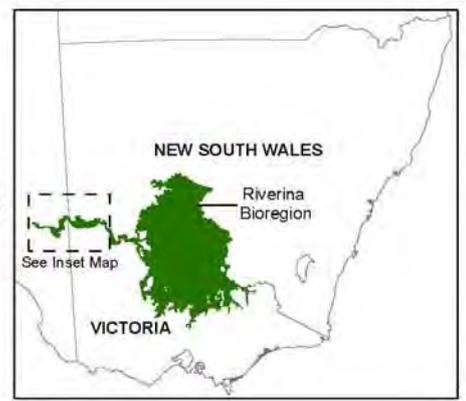
Assessment of Red Gum Forests
Riverina IBRA Region
Figure 22
Threatened Flora Records
in the NSW Riverina



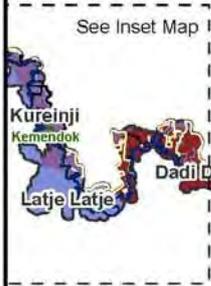
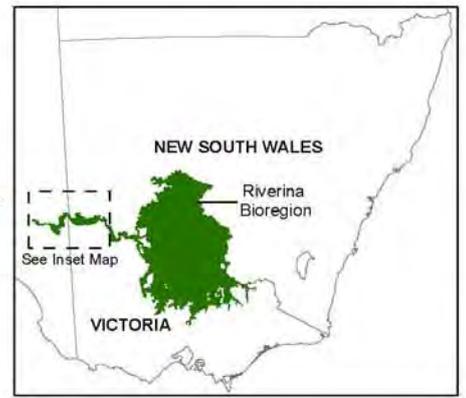
Assessment of Red Gum Forests
Riverina IBRA Region

Figure 23

EEC Distribution within
State Forests in the NSW Riverina



Assessment of Red Gum Forests
Riverina IBRA Region
Figure 24
Indicative Traditional Aboriginal Language Groups



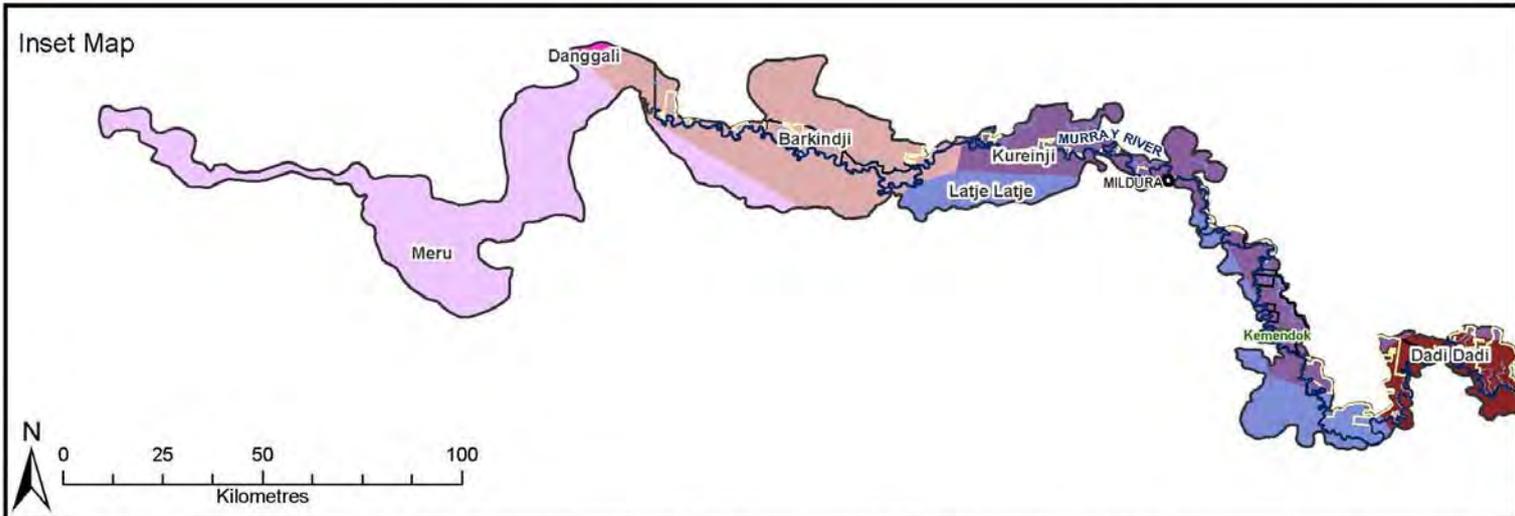
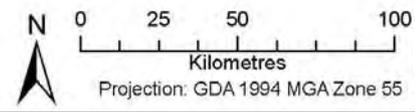
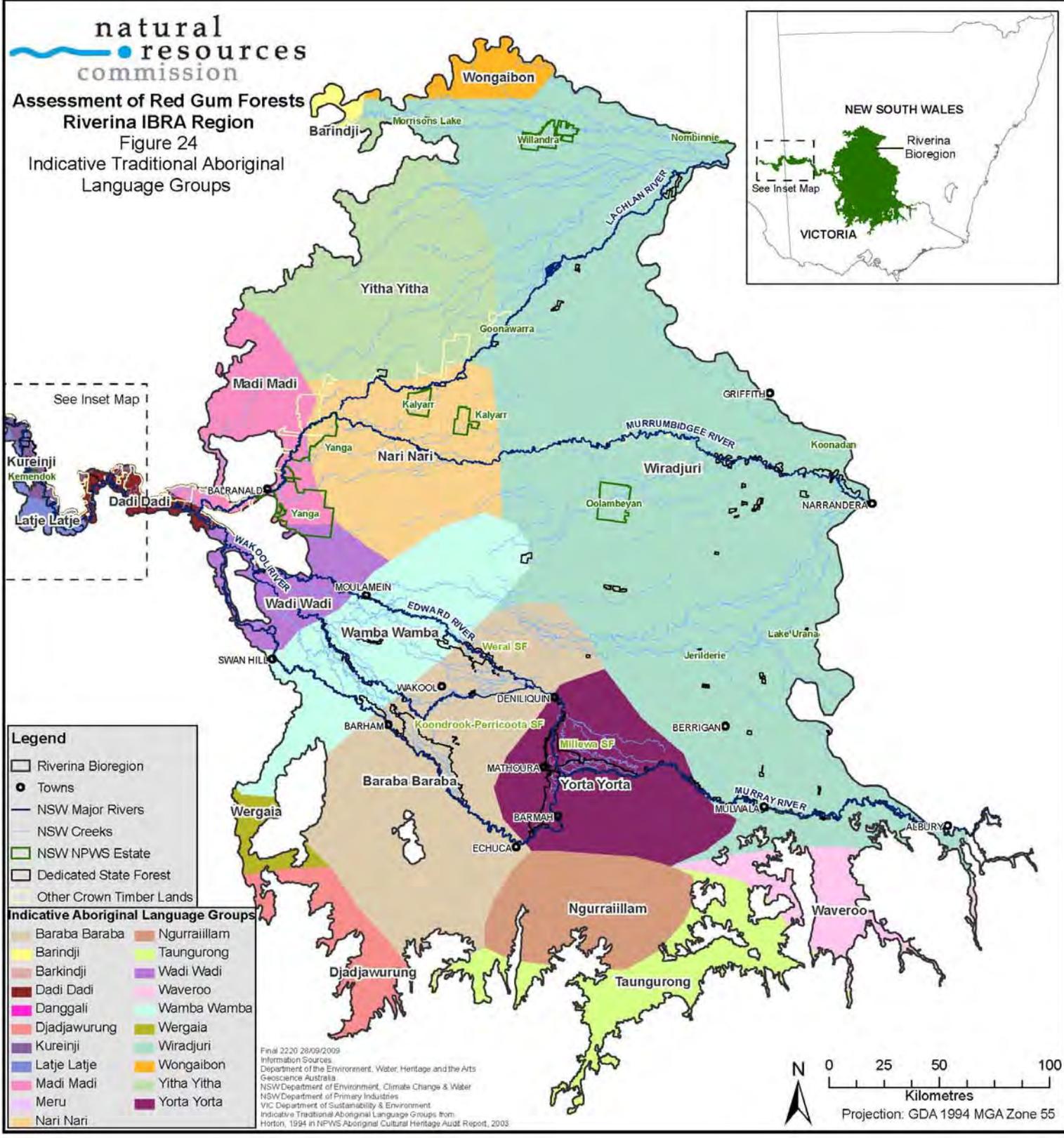
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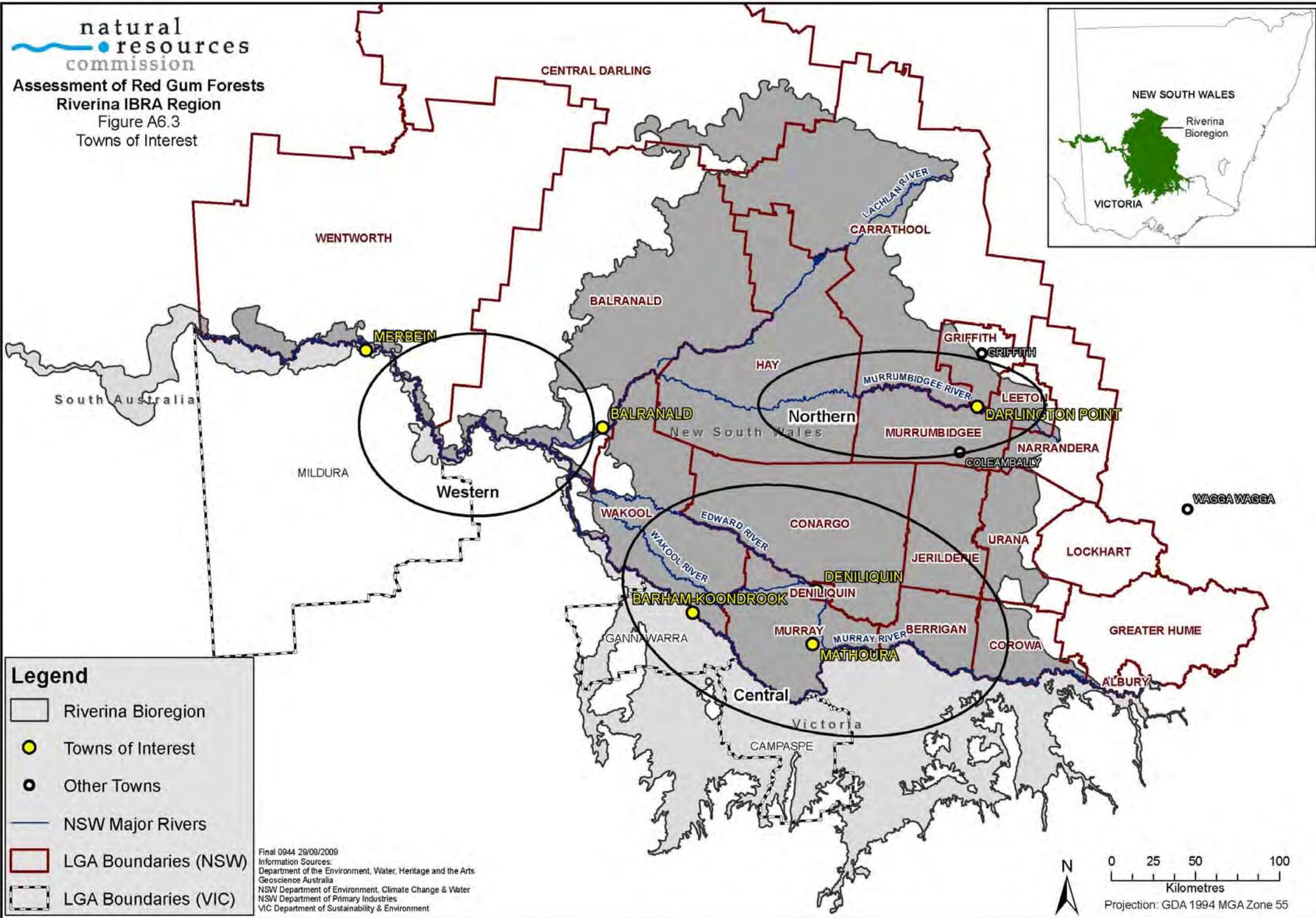
- Riverina Bioregion
- Towns
- NSW Major Rivers
- NSW Creeks
- ▭ NSW NPWS Estate
- ▭ Dedicated State Forest
- ▭ Other Crown Timber Lands

Indicative Aboriginal Language Groups

Baraba Baraba	Ngurraillam
Barindji	Taungurong
Barkindji	Wadi Wadi
Dadi Dadi	Waveroo
Danggali	Wamba Wamba
Djadjawurung	Wergaia
Kureinji	Wiradjuri
Latje Latje	Wongaibon
Madi Madi	Yitha Yitha
Meru	Yorta Yorta
Nari Nari	

Final 22/20 28/09/2009
Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment
Indicative Traditional Aboriginal Language Groups from:
Horton, 1994 in NPWS Aboriginal Cultural Heritage Audit Report, 2003

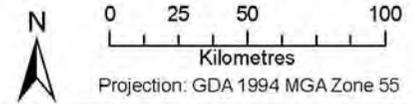




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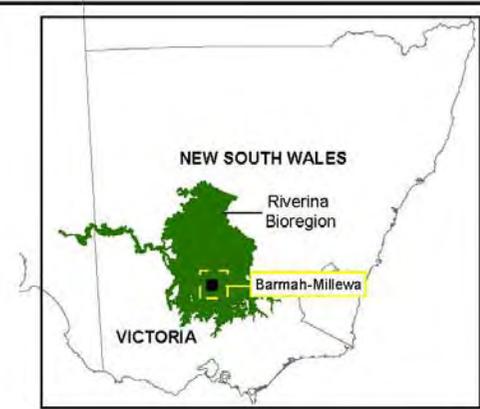
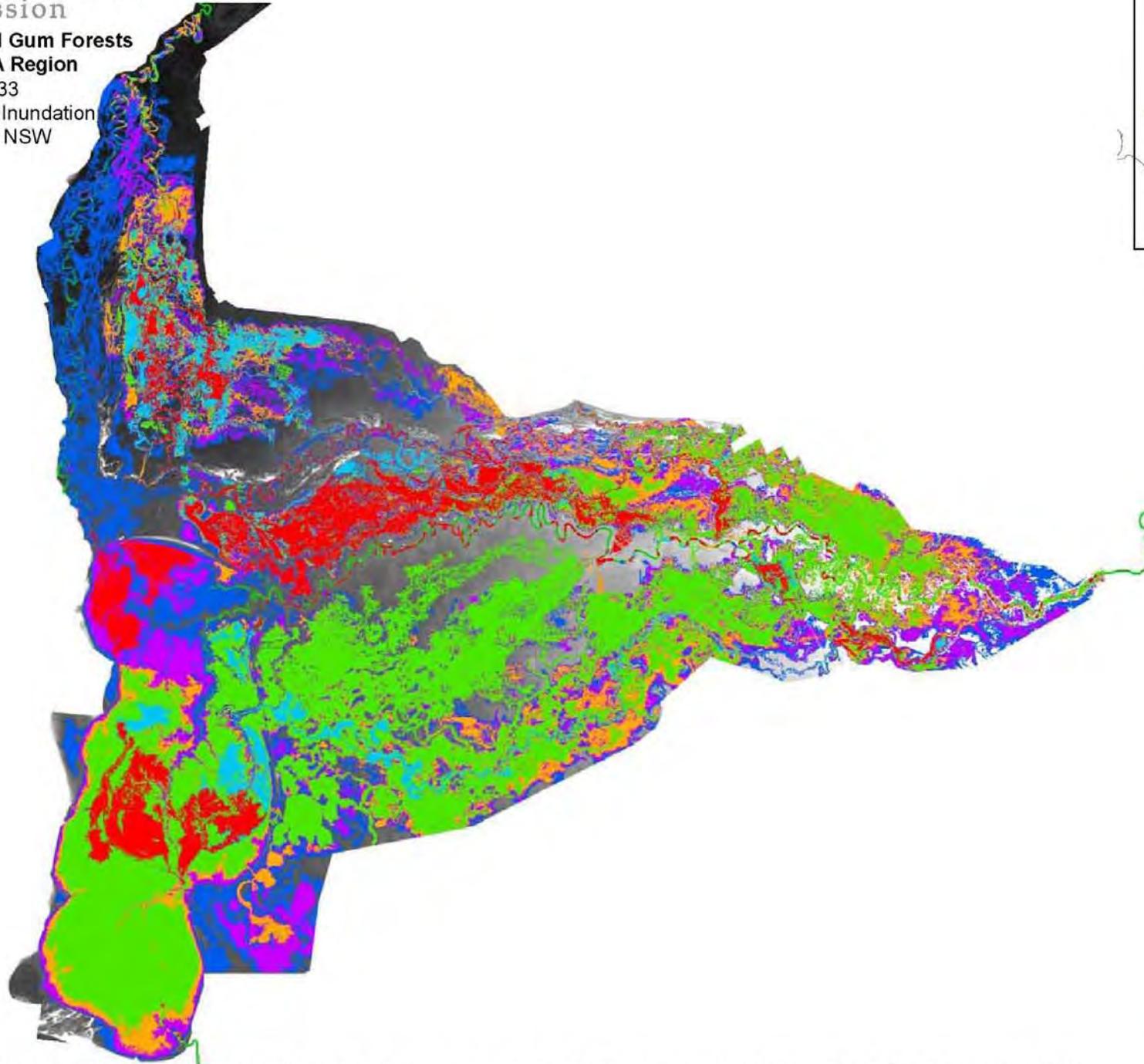
- Riverina Bioregion
- Towns of Interest
- Other Towns
- NSW Major Rivers
- LGA Boundaries (NSW)
- LGA Boundaries (VIC)

Final 0944 29/09/2009
Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment



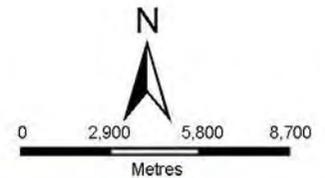
Assessment of Red Gum Forests
Riverina IBRA Region

Figure 33
Barmah-Millewa Inundation
Extents for NSW



Legend

- 13,000 ML/d
- 15,000 ML/d
- 25,000 ML/d
- 35,000 ML/d
- 45,000 ML/d
- 60,000 ML/d

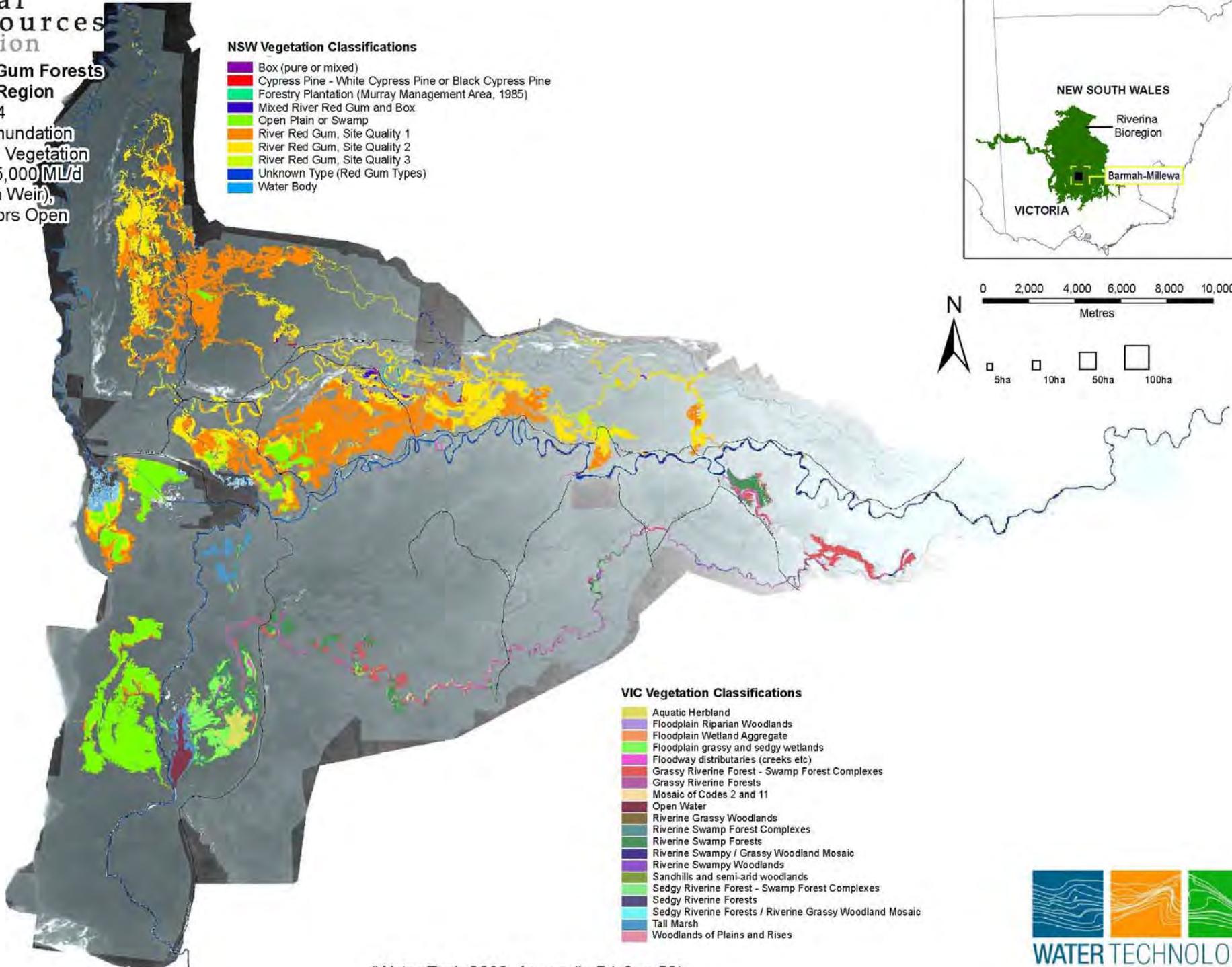
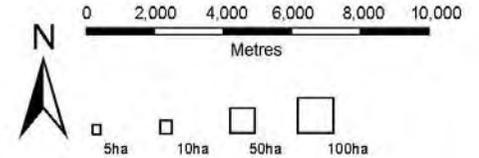


Assessment of Red Gum Forests
Riverina IBRA Region

Figure 34
Barmah-Millewa Inundation
Extent of Floodplain Vegetation
Communities for 15,000 ML/d
(at Yarrowonga Weir),
All NSW Regulators Open

NSW Vegetation Classifications

- Box (pure or mixed)
- Cypress Pine - White Cypress Pine or Black Cypress Pine
- Forestry Plantation (Murray Management Area, 1985)
- Mixed River Red Gum and Box
- Open Plain or Swamp
- River Red Gum, Site Quality 1
- River Red Gum, Site Quality 2
- River Red Gum, Site Quality 3
- Unknown Type (Red Gum Types)
- Water Body



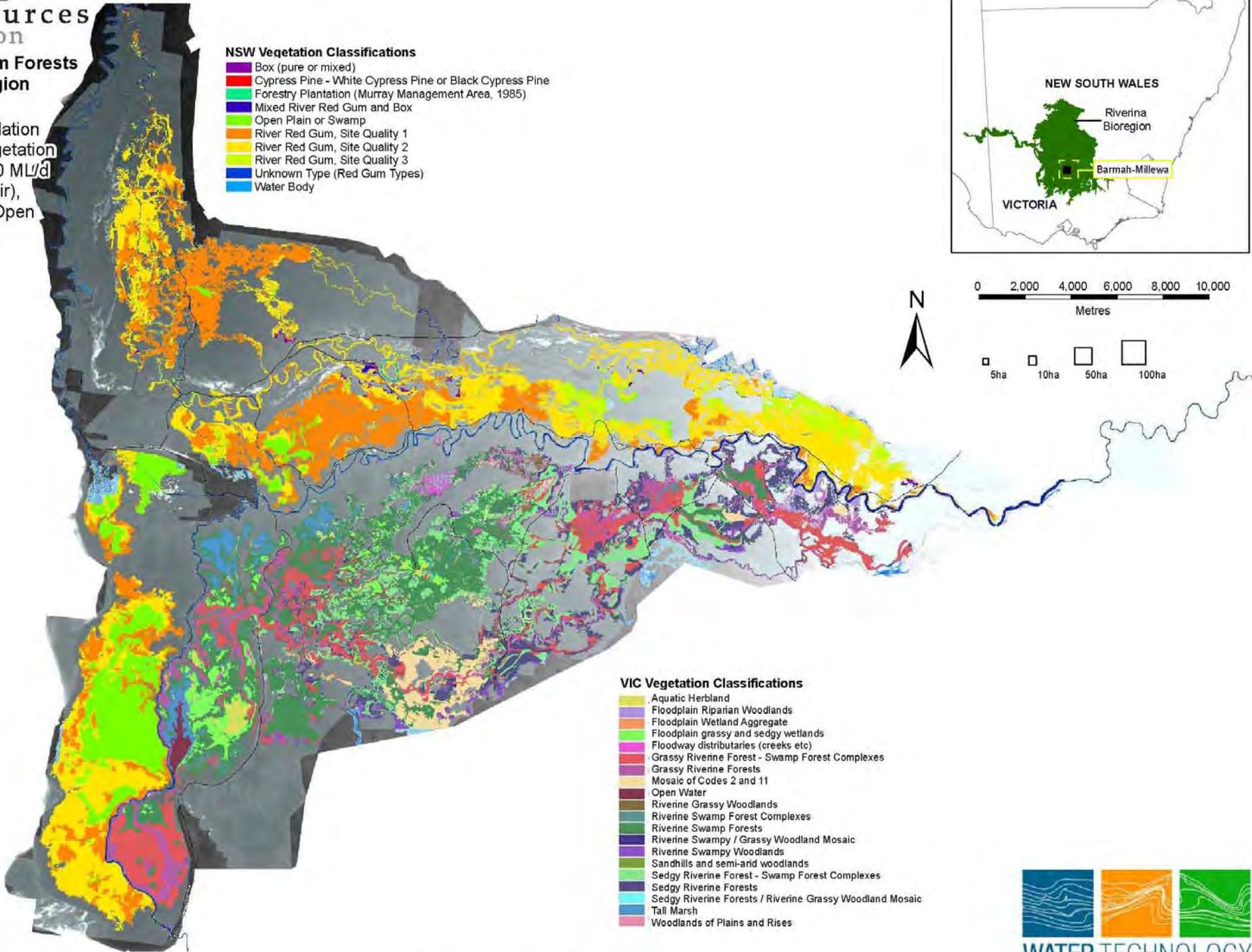
VIC Vegetation Classifications

- Aquatic Herbland
- Floodplain Riparian Woodlands
- Floodplain Wetland Aggregate
- Floodplain grassy and sedgy wetlands
- Floodway distributaries (creeks etc)
- Grassy Riverine Forest - Swamp Forest Complexes
- Grassy Riverine Forests
- Mosaic of Codes 2 and 11
- Open Water
- Riverine Grassy Woodlands
- Riverine Swamp Forest Complexes
- Riverine Swamp Forests
- Riverine Swampy / Grassy Woodland Mosaic
- Riverine Swampy Woodlands
- Sandhills and semi-arid woodlands
- Sedgy Riverine Forest - Swamp Forest Complexes
- Sedgy Riverine Forests
- Sedgy Riverine Forests / Riverine Grassy Woodland Mosaic
- Tall Marsh
- Woodlands of Plains and Rises

Assessment of Red Gum Forests
Riverina IBRA Region

Figure 35

Barmah-Millewa Inundation
Extent of Floodplain Vegetation
Communities for 25,000 ML/d
(at Yarrawonga Weir),
All NSW Regulators Open



- NSW Vegetation Classifications**
- Box (pure or mixed)
 - Cypress Pine - White Cypress Pine or Black Cypress Pine
 - Forestry Plantation (Murray Management Area, 1985)
 - Mixed River Red Gum and Box
 - Open Plain or Swamp
 - River Red Gum, Site Quality 1
 - River Red Gum, Site Quality 2
 - River Red Gum, Site Quality 3
 - Unknown Type (Red Gum Types)
 - Water Body

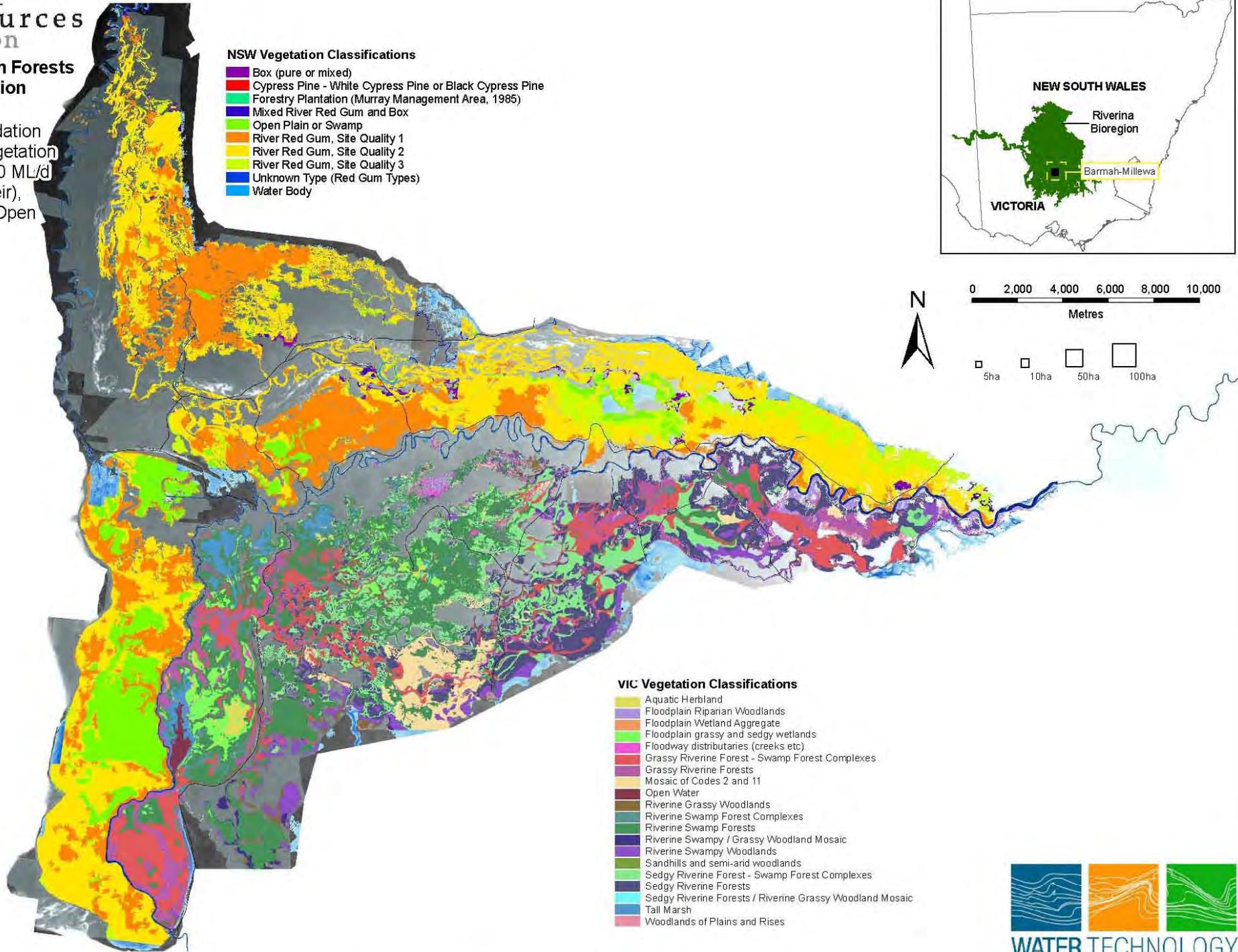
- VIC Vegetation Classifications**
- Aquatic Herbland
 - Floodplain Riparian Woodlands
 - Floodplain Wetland Aggregate
 - Floodplain grassy and sedgy wetlands
 - Floodway distributaries (creeks etc)
 - Grassy Riverine Forest - Swamp Forest Complexes
 - Grassy Riverine Forests
 - Mosaic of Codes 2 and 11
 - Open Water
 - Riverine Grassy Woodlands
 - Riverine Swamp Forest Complexes
 - Riverine Swamp Forests
 - Riverine Swampy / Grassy Woodland Mosaic
 - Riverine Swampy Woodlands
 - Sandhills and semi-arid woodlands
 - Sedgy Riverine Forest - Swamp Forest Complexes
 - Sedgy Riverine Forests
 - Sedgy Riverine Forests / Riverine Grassy Woodland Mosaic
 - Tall Marsh
 - Woodlands of Plains and Rises



Assessment of Red Gum Forests
Riverina IBRA Region

Figure 36

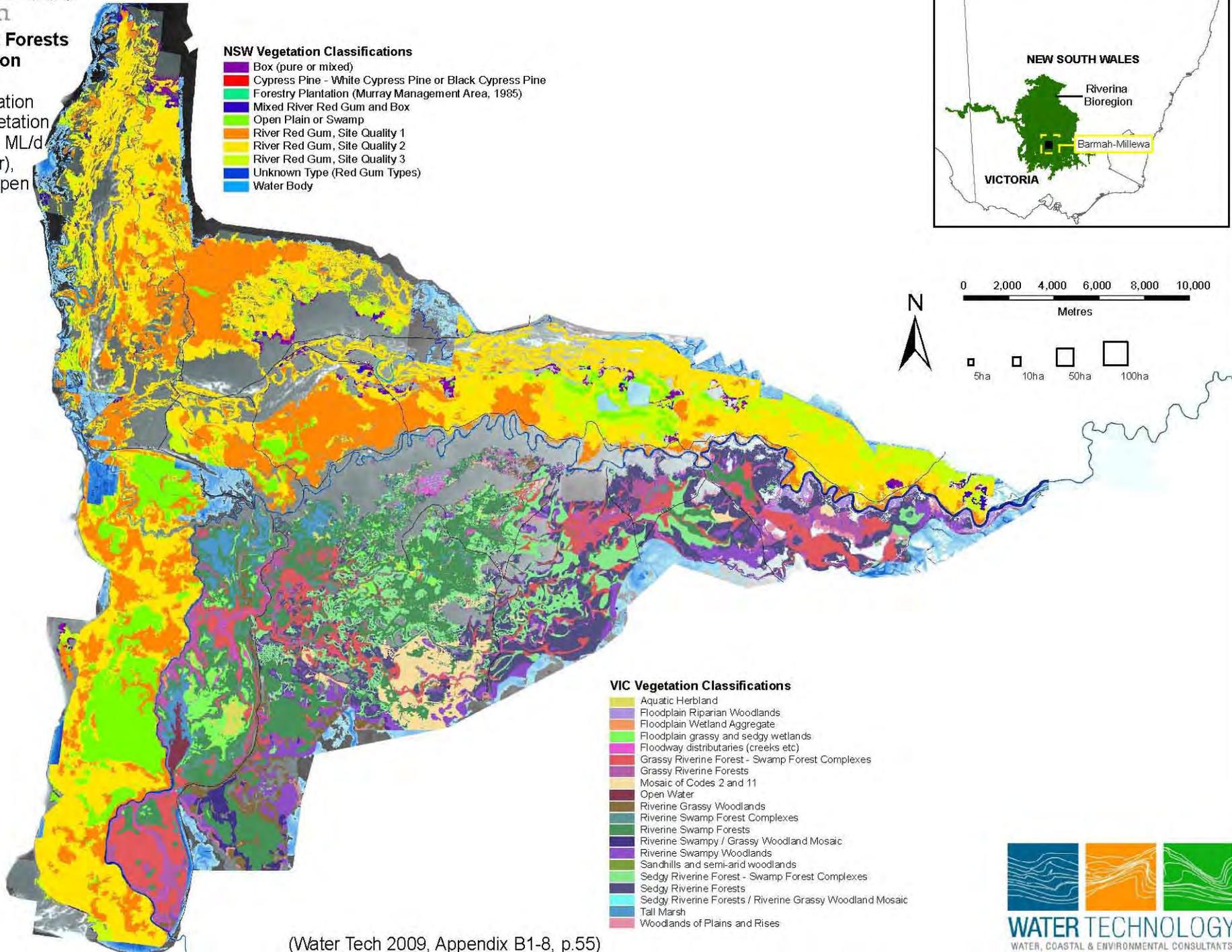
Barmah-Millewa Inundation
Extent of Floodplain Vegetation
Communities for 45,000 ML/d
(at Yarrawonga Weir),
All NSW Regulators Open



Assessment of Red Gum Forests
Riverina IBRA Region

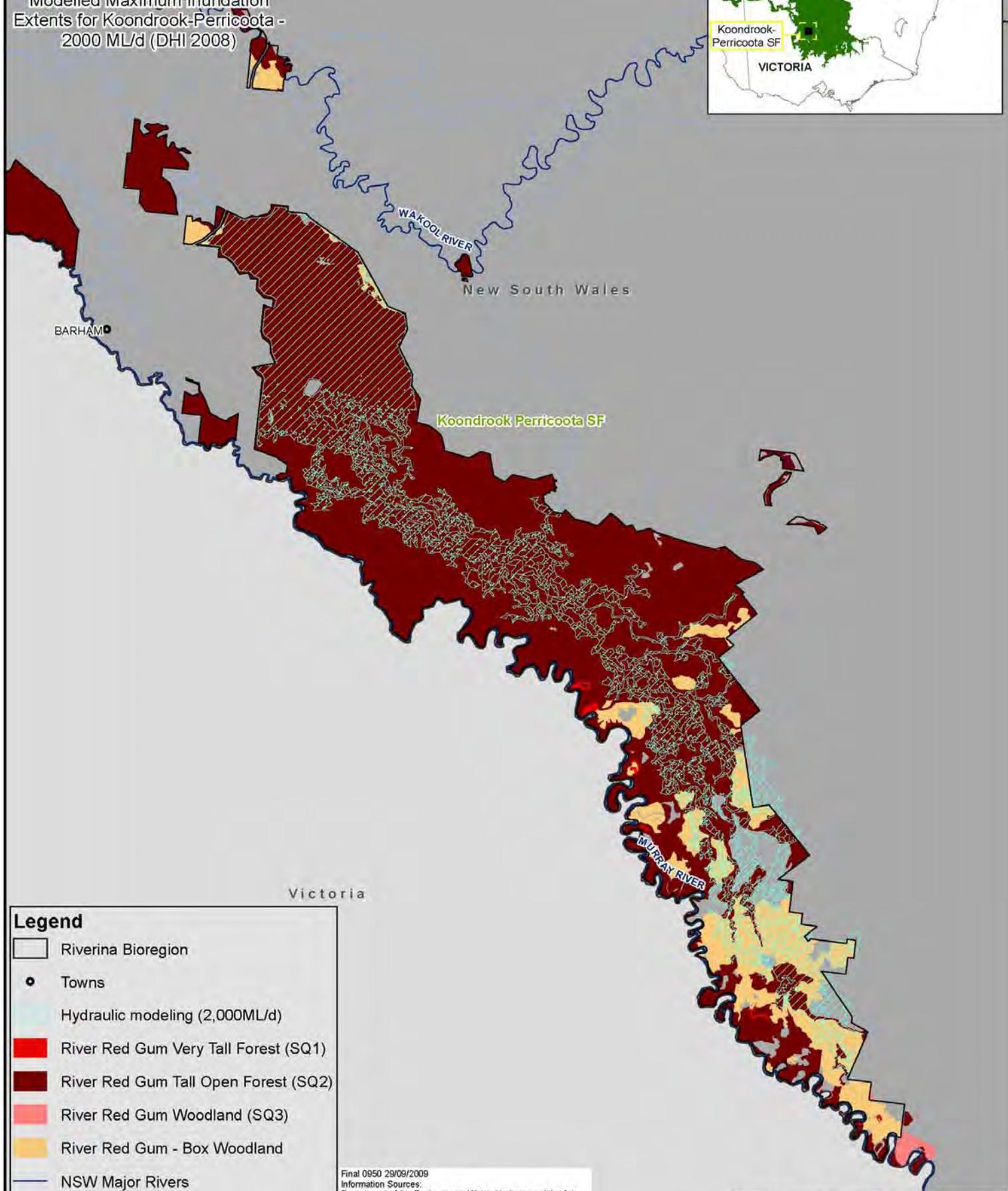
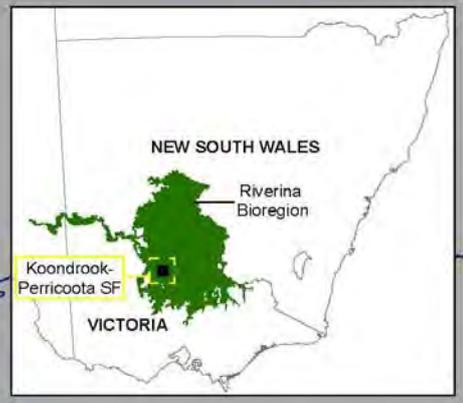
Figure 37

Barmah-Millewa Inundation
Extent of Floodplain Vegetation
Communities for 60,000 ML/d
(at Yarrawonga Weir),
All NSW Regulators Open



(Water Tech 2009, Appendix B1-8, p.55)

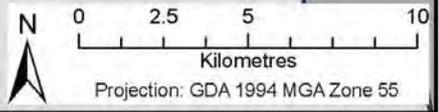
Assessment of Red Gum Forests
Riverina IBRA Region
Figure 38
Modelled Maximum Inundation
Extents for Koondrook-Perricoota -
2000 ML/d (DHI 2008)



Legend

- Riverina Bioregion
- Towns
- Hydraulic modeling (2,000ML/d)
- River Red Gum Very Tall Forest (SQ1)
- River Red Gum Tall Open Forest (SQ2)
- River Red Gum Woodland (SQ3)
- River Red Gum - Box Woodland
- NSW Major Rivers
- NSW Creeks
- NSW Dedicated State Forests

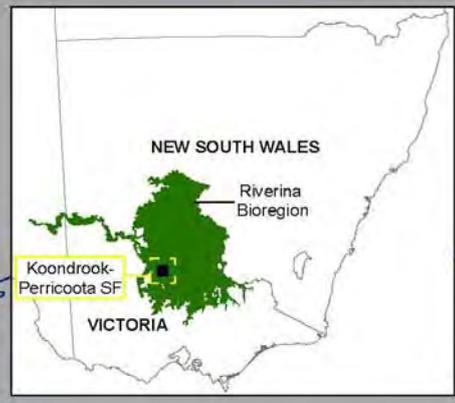
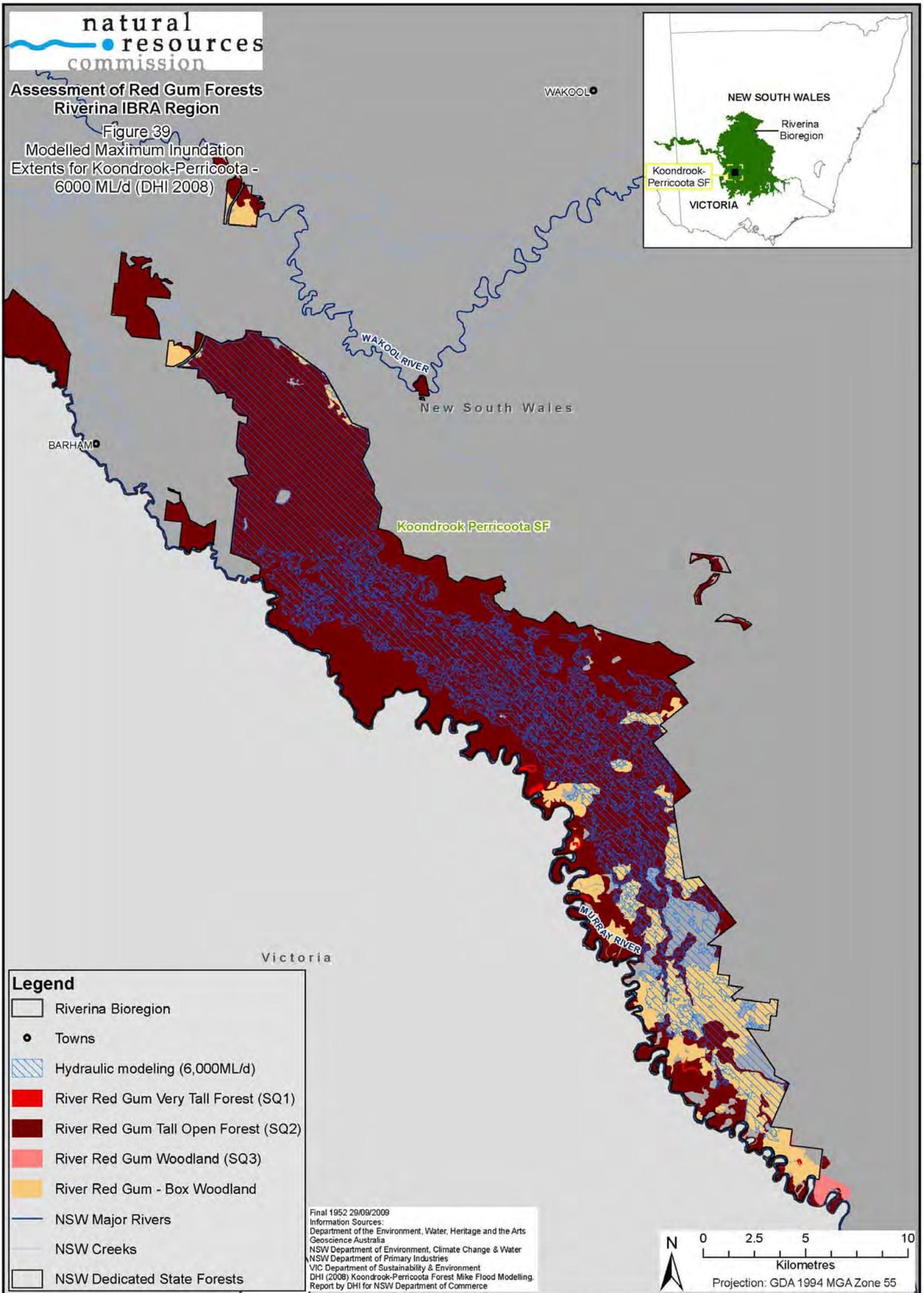
Final 0950 29/09/2009
Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment
DHI (2008) Koondrook-Perricoota Forest Mike Flood Modelling.
Report by DHI for NSW Department of Commerce



Assessment of Red Gum Forests
Riverina IBRA Region

Figure 39

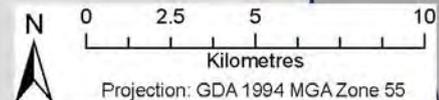
Modelled Maximum Inundation
Extents for Koondrook-Perricoota -
6000 ML/d (DHI 2008)



Legend

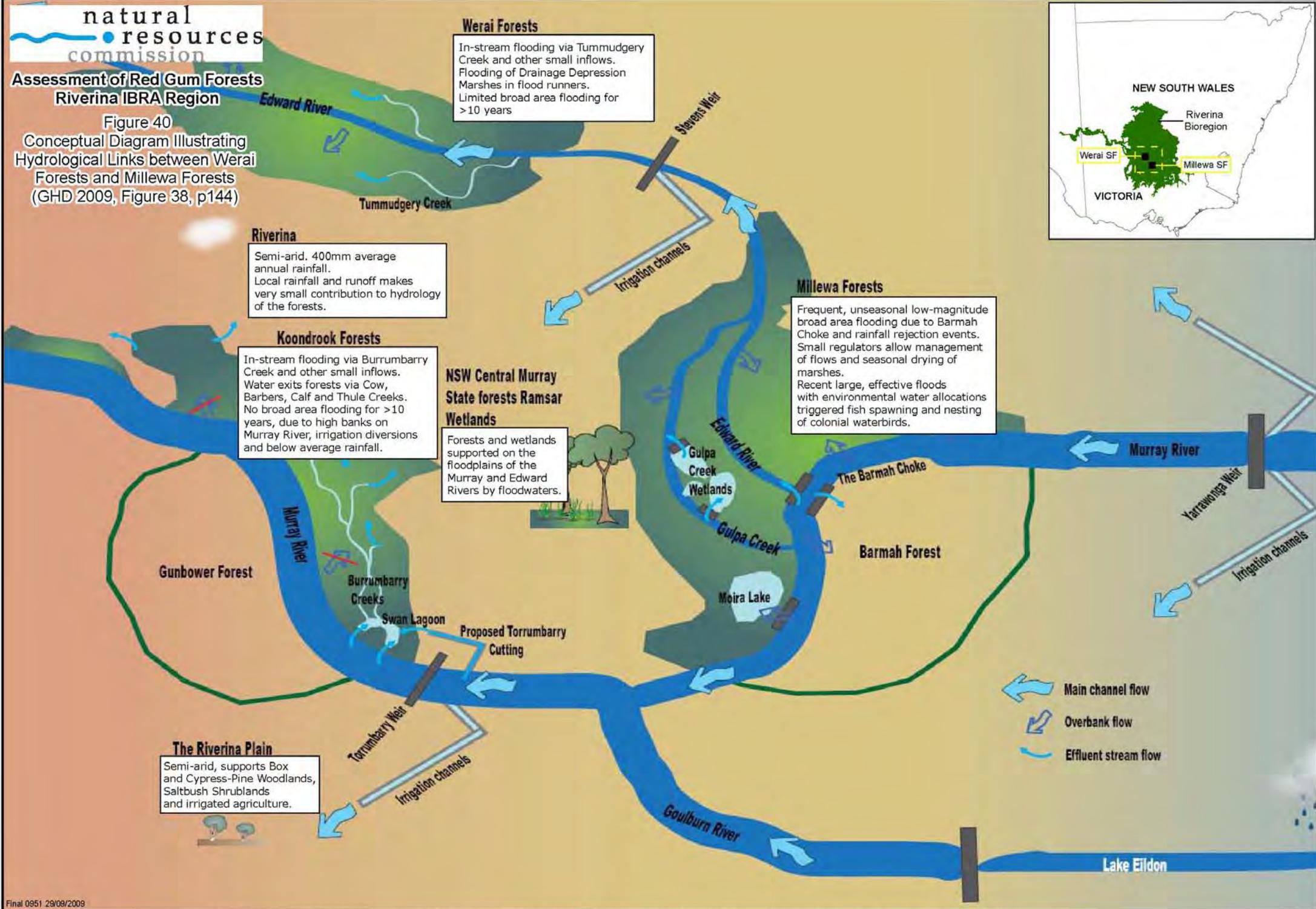
- Riverina Bioregion
- Towns
- Hydraulic modeling (6,000ML/d)
- River Red Gum Very Tall Forest (SQ1)
- River Red Gum Tall Open Forest (SQ2)
- River Red Gum Woodland (SQ3)
- River Red Gum - Box Woodland
- NSW Major Rivers
- NSW Creeks
- NSW Dedicated State Forests

Final 1952 29/09/2009
Information Sources:
Department of the Environment, Water, Heritage and the Arts
Geoscience Australia
NSW Department of Environment, Climate Change & Water
NSW Department of Primary Industries
VIC Department of Sustainability & Environment
DHI (2008) Koondrook-Perricoota Forest Mike Flood Modelling.
Report by DHI for NSW Department of Commerce



Assessment of Red Gum Forests Riverina IBRA Region

Figure 40
Conceptual Diagram Illustrating Hydrological Links between Werai Forests and Millewa Forests (GHD 2009, Figure 38, p144)



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