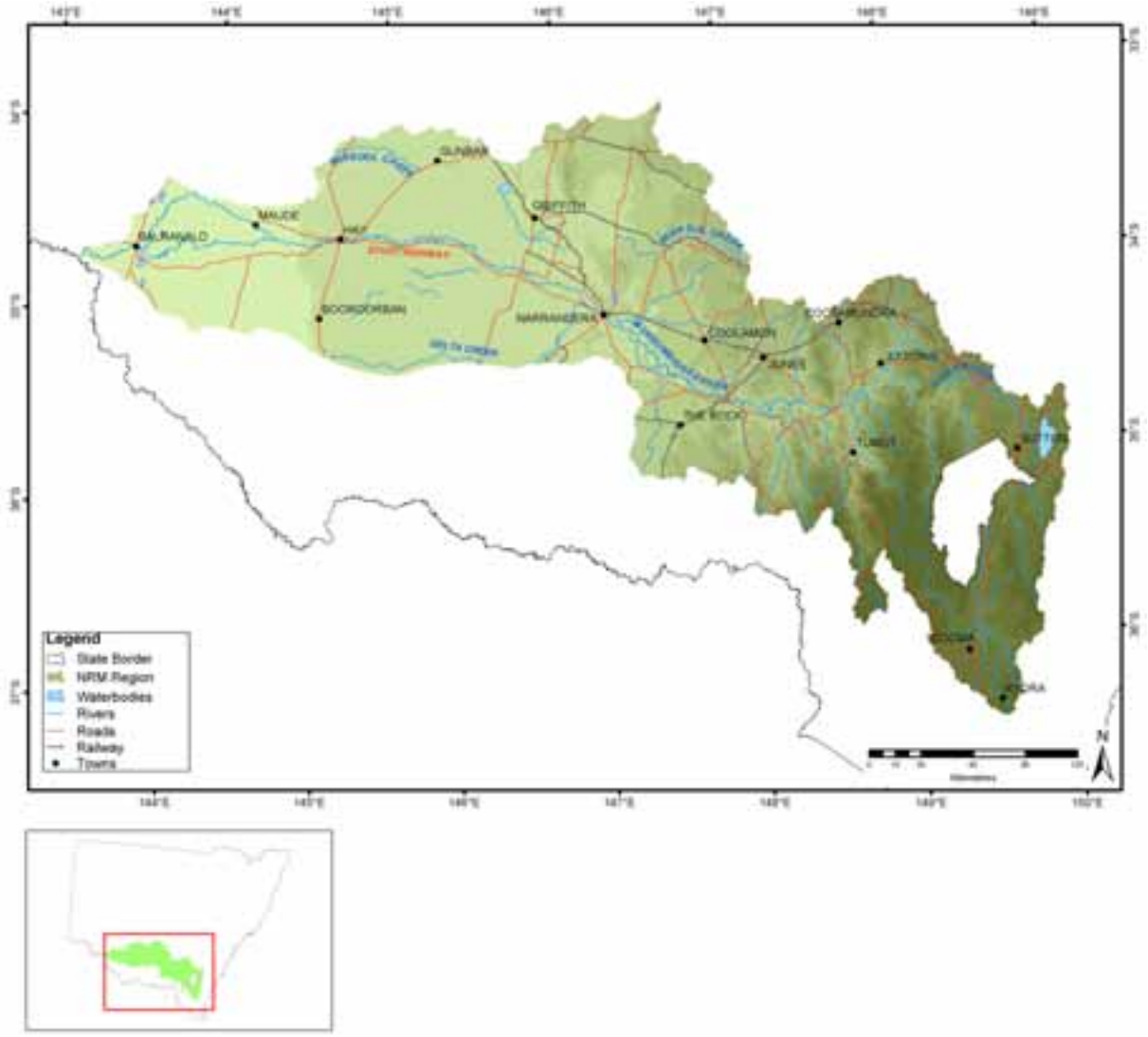
A2.8 MURRUMBIDGEE



Administrative arrangements

Administrative Body:	Murrumbidgee Catchment Management Authority
Trust region:	Murrumbidgee
NAP region:	Lachlan – Murrumbidgee

Investment summary

Table A2.8.1 Joint Government approved investments for Murrumbidgee*

Funding stream	2003-04 Approvals ($)		Total Approvals to June 2004 ($)	
	NAP	Trust	NAP	Trust
Priority action	223,700		7,967,300	1,380,000
Regional investment	9,910,800	559,000	9,910,800	559,000
Total	10,134,500	559,000	17,878,100	1,939,000

* Figures reflect Australian Government and State/Territory Government approvals for NAP and only Australian Government approvals for the Trust. State/Territory Government cash and in-kind funding for the Trust is not included.

Table A2.8.2 Reported expenditure for approved investments in Murrumbidgee

Funding stream	Budgeted Activity Expenditure ($)				Reported Activity Expenditure ($)			
	July 03 - March 04		Total to March 04		July 03 - March 04		Total to March 04	
	NAP	Trust	NAP	Trust	NAP	Trust	NAP	Trust
Priority action	267,550		7,851,150		2,715,599		2,715,599	
Regional investment	5,129,250	279,500	5,129,250	279,500				
Total	5,396,800	279,500	12,980,400	279,500	2,715,599		2,715,599	

Priority action investments

Expenditure

Table A2.8.3 Priority action funding having a major focus on matters for target in Murrumbidgee

Matter for target	Budgeted Activity Expenditure ($)				Reported Activity Expenditure ($)			
	July 03 - March 04		Total to March 04		July 03 - March 04		Total to March 04	
	NAP	Trust	NAP	Trust	NAP	Trust	NAP	Trust
Land salinity	196,150		5,199,750		1,760,375		1,760,375	
Surface water salinity			2,580,000		955,224		955,224	
Other supporting activities	71,400		71,400					
Total	267,550		7,851,150		2,715,599		2,715,599	

Table A2.8.4 Priority action funding for types of activities in Murrumbidgee

Activity Type	Budgeted Activity Expenditure ($)				Reported Activity Expenditure ($)			
	July 03 - March 04		Total to March 04		July 03 - March 04		Total to March 04	
	NAP	Trust	NAP	Trust	NAP	Trust	NAP	Trust
Planning			9,260,930		9,154,891		9,154,891	
Capacity building	71,400		71,400					
On-ground activities	270,000	442,000	415,000	442,000	171,695	276,308	236,265	276,308
Total	341,400	442,000	9,747,330	442,000	9,326,586	276,308	9,391,156	276,308

Table A2.8.5 Priority action activities in Murrumbidgee

Matter for target	Activities	Budgeted Activity Expenditure ($)				Reported Activity Expenditure ($)			
		July 03 - March 04		Total to March 04		July 03 - March 04		Total to March 04	
		NAP	Trust	NAP	Trust	NAP	Trust	NAP	Trust
Land salinity	Target Implementation of the Murray Catchment Blueprints Within the South West Slopes Management Unit	270,000		415,000		171,695		236,265	
Soil condition	On-ground Works for the South West Slopes Management Unit.		228,000		228,000				
Native vegetation	Murray Land and Water Management Plans			9,260,930		9,154,891		9,154,891	
	Regional Seed-banks - Meeting the Demand for Revegetation		170,000		170,000		248,375		248,375
Significant native species	Active Management of Significant High Conservation Value Remnant Vegetation Areas for Biodiversity		44,000		44,000		27,933		27,933
Other supporting activities	Murray - Regional Facilitator and Coordinator	71,400		71,400					
Total		341,400	442,000	9,747,330	442,000	9,326,586	276,308	9,391,156	276,308

Achievements

Table A2.8.6 Outputs related to priority actions having a major focus on matters for target in Murrumbidgee

Standard output	Land salinity		Soil condition		Rivers and wetlands		Nutrients in aquatic environments		Turbidity in aquatic environments		Surface water salinity		Native vegetation		Significant native species		Significant invasive species		Estuarine, coastal and marine		Other supporting activities	
	03-04	Total	03-04	Total	03-04	Total	03-04	Total	03-04	Total	03-04	Total	03-04	Total	03-04	Total	03-04	Total	03-04	Total	03-04	Total
Resource assessment																						
Investigations (survey, inventory and mapping and data analysis)																						
Number of salinity studies											10	10										
On-ground activities																						
Water use efficiency																						
Number of land managers using improved irrigation practices	260	260									66	66										
Number of land managers using on-farm water saving practice by drainage diversion	12	12																				

Regional investment summary

Plan accredited by Ministers: September 2003
Investment strategy approved by Ministers: February 2004

Expenditure

Table A2.8.7 Regional investment funding having a major focus on matters for target in Murrumbidgee

Matter for target	Budgeted Activity Expenditure ($)				Reported Activity Expenditure ($)			
	July 03 - March 04		Total to March 04		July 03 - March 04		Total to March 04	
	NAP	Trust	NAP	Trust	NAP	Trust	NAP	Trust
Land salinity	2,799,250		2,799,250					
Soil condition	133,000		133,000					
Rivers and wetlands	550,000	279,500	550,000	279,500				
Surface water salinity	810,000		810,000					
Other supporting activities	837,000		837,000					
Total	5,129,250	279,500	5,129,250	279,500				

Table A2.8.8 Regional investment funding for types of activities in Murrumbidgee

Activity Type	Budgeted Activity Expenditure ($)				Reported Activity Expenditure ($)			
	July 03 - March 04		Total to March 04		July 03 - March 04		Total to March 04	
	NAP	Trust	NAP	Trust	NAP	Trust	NAP	Trust
Resource assessment	373,000		373,000					
Planning	225,000		225,000					
Capacity building	1,102,000		1,102,000					
On-ground activities	3,429,250	279,500	3,429,250	279,500				
Total	5,129,250	279,500	5,129,250	279,500				

Table A2.8.9 Regional investment activities in Murrumbidgee

Matter for target	Activities	Budgeted Activity Expenditure ($)				Reported Activity Expenditure ($)			
		July 03 - March 04		Total to March 04		July 03 - March 04		Total to March 04	
		NAP	Trust	NAP	Trust	NAP	Trust	NAP	Trust
Land salinity	Developing and Implementing Best Management Practices for Dryland Cropping Systems to Achieve Improved Soil and Water Management	175,000		175,000					
	Establish Agroforestry for Groundwater Interception	90,000		90,000					
	Establishment and Improved Management of Perennial Pastures for Persistence Groundcover and Control of Degradation Particularly Dryland Salinity	366,000		366,000					
	Establishment and Maintenance of Saline Perennial Pastures for Salinity Control in Saline Sites in Twelve Priority salinity Sub-catchments	133,000		133,000					
	Grain and Graze	90,000		90,000					
	Implementation of Part of MIA Envirowise	1,093,000		1,093,000					
	Implementation of Parts of the Coleambally, Kerarbury and Coleambally Outfall District Land and Water Management Plans	537,250		537,250					
	Profitable Animal Production From Perennials	90,000		90,000					
	Strategy to Assess and Prioritise the Extent and Impact of Urban Salinity on High Value Infrastructure in Urban Centres in the Murrumbidgee Catchment	225,000		225,000					

Matter for target	Activities	Budgeted Activity Expenditure ($)				Reported Activity Expenditure ($)			
		July 03 - March 04		Total to March 04		July 03 - March 04		Total to March 04	
		NAP	Trust	NAP	Trust	NAP	Trust	NAP	Trust
Soil condition	Benchmarking and Understanding Soil Chemistry to Better Manage Acidity Salinity Sodicity and Soil Structure	133,000		133,000					
Rivers and wetlands	Aquatic Biota Enhancement		279,500		279,500				
	Riparian Restoration	550,000		550,000					
Surface water salinity	Defining and Prioritising Saline Sub-catchments	240,000		240,000					
	Jugiong Creek Salinity and Water Quality	190,000		190,000					
	Muttama Creek Salinity and Water Quality	190,000		190,000					
	Yass River Salinity and Water Quality	190,000		190,000					
Other supporting activities	Communication Strategy	55,000		55,000					
	Community Support Officers	680,000		680,000					
	Increasing Indigenous Community Involvement in Natural Resource Management	45,000		45,000					
	Knowledge and Skills Strategy for Community Participation in Natural Resource Management in the Murrumbidgee	50,000		50,000					
	Murrumbidgee Catchment Capacity Building Strategy	7,000		7,000					
Total		5,129,250	279,500	5,129,250	279,500				

Targets for Murrumbidgee

Resource condition targets

Table A2.8.10 Resource condition targets related to regional investment in Murrumbidgee

Matter for Target	Resource condition target
Soil condition	By 2012, improve soil health across the catchment by increasing the duration of groundcover levels above 70%, and 50% for sandy loams, by at least one month a year across land used for agricultural production
	By 2012, improve soil health across the catchment by: Increasing the adoption of perennial pasture by 40% across land used for agricultural production
	By 2012, improve soil health across the catchment by: Maintaining soil pH greater or equal to 5 (CaCl2) in areas affected by soil acidity
	By 2012, improve soil health across the catchment by: Improving water use efficiency of crops and pastures by 80%
	By 2012, improve soil health across the catchment by: Integrating with and implementing, soil health issues in irrigation areas
Turbidity in aquatic environments	By 2012, in the Murrumbidgee River and its main tributaries, suspended sediment levels will be reduced so that they meet the interim NSW Water Quality Objectives.
Surface water salinity	A year 2010 target of less than 245EC for 50% of the time and less than 320EC for 80% of the time at Balranald. A salt load of less than 145,000 tonnes per year for 50% of the time and less than 325,000 tonnes per year for 80% of the time by 2010
Native vegetation	By 2012, to manage for biodiversity conservation a minimum of 30% of the area of each of the remaining vegetation communities and related habitats of the Murrumbidgee Catchment
Other supporting activities	By 2012 achieve a net gain in the community's capacity to implement NRM activities

Management action targets

Table A2.8.11 Management action targets related to regional investment in Murrumbidgee

Matter for Target	Management action target
Land salinity	By 2012, assist land managers and communities to rehabilitate 60% of severe and moderate saline discharge sites in the 12 priority sub catchments in the Murrumbidgee
Soil condition	By 2012, assist land managers and communities to for farmed sands and sandy loams west of Wagga Wagga, lift and maintain a minimum of 50% groundcover for 9 months of the year
	By 2012, assist land managers and communities to increase adoption of land management practices to achieve 80% water efficiency
	By 2012, assist land managers and communities to lift to and maintain a minimum of 70% groundcover for 10 months of the year on Land Classes IV, V and VI
	By 2012, assist land managers and communities to lift to and maintain a minimum of 70% groundcover for 9 months of the year on Land Classes I, II and III
	By 2012, assist land managers and communities to lift to and maintain topsoil at pH 5 (using CaCl test) on land classes I, II, III, and IV)
	By 2012, assist land managers and communities to lift the percentages of perennials in the pasture phase of farming systems from 10% to 50% and non arable land from 40 to 80% except for farming systems west of Narrandera
	By 2012, assist land managers and communities to implement all soil health irrigation targets of the irrigation areas LWMP's
Rivers and wetlands	By 2012, assist land managers and communities to improve native vegetation condition in 90% of the floodplain billabongs to restore their natural capacity to filter sediment
	By 2012, assist land managers and communities to protect and enhance 1500 km of stream bank using native riparian vegetation for bank stabilisation and run-off filtration
Nutrients in aquatic environments	By 2012, assist land managers and communities to along those stream reaches which yield the highest sediment and nutrient loads, control streambank and gully erosion using structural control works covering a total length of 50 km
Surface water salinity	By 2012, assist land managers and communities to increase perennial vegetation in the 12 priority Murrumbidgee sub catchments with the aim of reducing the predicted mean annual mid-catchment salt load by 12,000 tonnes at Wagga by 2010
	By 2012, assist land managers and communities to reduce the current salt load from the Murrumbidgee Irrigation area to the river from its current level of about 5000 tonnes per year to 3000 tonnes per year
Native vegetation	Regionally depleted or well retained vegetation communities will have 90% of their respective original (around 1750) areas managed for conservation by 2012
	Maintain diversity (as described in the NSW biodiversity strategy) of indigenous aquatic biota and processes by establishment and long-term maintenance of native aquatic plants for 10 linear km of Murrumbidgee River
	Enhance and increase both regionally endangered and vulnerable vegetation communities by a minimum of 10% of their remaining extent by 2012
	All areas of identified high conservation values will be managed for conservation by 2012
Significant native species	Maintain diversity (as described in the NSW biodiversity strategy)of indigenous aquatic biota and processes by a reduction in the abundance ratio of alien to native fish by 50%
	Maintain diversity (as described in the NSW biodiversity strategy) of indigenous aquatic biota and processes by a reduction in the species diversity ratio of native to alien fish by 25%
	Maintain diversity of indigenous aquatic biota and processes by a 10% increase in the aquatic invertebrate diversity as measured by currently accepted diversity indices and richness; complying with ANZECC guidelines for protecting biodiversity
	Maintain the population of selected locally rare and indicator species and threatened species within the catchment by 2012
Significant invasive species	By 2012, assist land managers and communities to reduce the species diversity ratio of alien to native fish by 25%. Reduce the abundance ratio by 50%
Other supporting activities	By 2002, implement a Communications Strategy to support the Catchment Blueprint
	By 2003, implement a Strategy for Knowledge and Skills training in the community
	By 2003, implement the Capacity Building Strategy to ensure adequate participation in NRM.
	Prepare by 2003 and progressively implement an indigenous cultural heritage and natural resources action plan