



## Regional Summary 2.05

Lachlan Region

New South Wales

## This Chapter

The first section of the chapter provides an overall summary of investments supported by the NAP and the regional component of the Trust, within the region to 30 June 2005.

The second section summarises the region's investments against the matters for target addressed within the region. This section details the resource condition targets and related management action targets specific to each matter for target addressed through the NAP and the Trust by the region. It also provides a summary of the type of activities supported by these investments and progress in the achievements of these activities to the 30 June 2005.

The third section of the chapter provides the region's assessment of their progress in achieving management action targets and resource condition targets to date, and for those targets anticipated to be achieved during 2004-05.

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## Investment summary

This section provides an overall summary of approved investments and expenditure from the various investment streams.

Where applicable, it also details expenditure related to priority funding and regional investments based from accredited regional plans. For these investments, information is provided in relation to the matters for target addressed and the types of activities undertaken. Commencing this year in 2004-05, apart from in Table 1.1, Table 1.2 and Table 1.3, priority action funding and regional investments will be reported together.

**Table 1.1 Reported expenditure for approved investments in Lachlan**

Funding stream	Activity Expenditure (\$)			
	July 04 - June 05		Total to June 05	
	NAP	Trust	NAP	Trust
Priority action	304,087	443,326	354,087	602,553
Regional investment	2,119,587	847	2,119,587	847
<b>Total</b>	<b>2,423,674</b>	<b>444,173</b>	<b>2,473,674</b>	<b>603,400</b>

**Table 1.2 Major focus of reported expenditure in Lachlan**

Matter for target	Activity Expenditure (\$)			
	July 04 - June 05		Total to June 05	
	NAP	Trust	NAP	Trust
Land Salinity	996,048	84,411	1,046,048	168,586
Soil Condition	301,057		301,057	
Rivers and Wetlands	397,991	163,915	397,991	238,967
Surface Water Salinity		75,000		75,000
Native Vegetation		120,000		120,000
Other Supporting Activities	728,578	847	728,578	847
<b>Total</b>	<b>2,423,674</b>	<b>444,173</b>	<b>2,473,674</b>	<b>603,400</b>

**Table 1.3 Types of activities in Lachlan**

Activity Type	Activity Expenditure (\$)			
	July 04 - June 05		Total to June 05	
	NAP	Trust	NAP	Trust
Resource assessment	220,929	368,326	270,929	527,553
Capacity building	728,578	75,847	728,578	75,847
On-ground activities	1,474,167		1,474,167	
<b>Total</b>	<b>2,423,674</b>	<b>444,173</b>	<b>2,473,674</b>	<b>603,400</b>

## Investment summary by matter for target

Investments supported by the NAP and the regional component of the Trust, undertaken by the region on a priority basis or through approved regional investment strategies are focussed on the matters for target.

This section provides a summary of the major focus of investments and the reported expenditure related to each of these matters for target. In some cases, investments have had a major focus on more than one matter for target and are not able to be attributed to a particular matter for target. Activities that have been classified as 'other supporting activities', have not been reported in this section.

Each summary for a matter for target describes the expenditure of the activities that contribute to the matter for target. It also provides a description of the outputs achieved through these activities to the 30 June 2005.

Where appropriate to regions with approved investment strategies, each summary also details the management action targets and resource condition targets related to each matter for target addressed through the NAP and the Trust by the region. Where a region has an accredited investment plan and approved investment summary, section three of this Regional Summary summarises the region's assessment of progress towards the achievement of these targets.

## Land salinity

**Table 2.1.1 Activities with a major focus on land salinity in Lachlan**

Activities	Activity Expenditure (\$)			
	July 04 - June 05		Total to June 05	
	NAP	Trust	NAP	Trust
Groundwater Monitoring and Trend Analysis and Management Improvement in the Lachlan Valley	220,929		270,929	
Interception Tree Planting to Manage Salinity	13,442		13,442	
Lachlan Salinity Recharge Identification and Investigations Project		84,411		168,586
Salinity Management Through Perennial Species	204,807		204,807	
Salinity Mitigation Through Better Management of Pastoral Land.	119,483		119,483	
Salinity Mitigation Through Remnant Vegetation Management	437,387		437,387	
<b>Total</b>	<b>996,048</b>	<b>84,411</b>	<b>1,046,048</b>	<b>168,586</b>

**Table 2.1.2 Summary of outputs from activities with a major focus on land salinity in Lachlan**

Outputs	July 04 - June 05			Total to July 05		
	NAP	Trust	Joint	NAP	Trust	Joint
<b>Resource assessment</b>						
Baseline, trend or condition studies for targets						
Number of sites monitored				22		
Investigations (survey, inventory and mapping and data analysis)						
Area (hectares) surveyed by groundwater studies	350,000			517,000		
Area (hectares) surveyed by salinity studies	90,000			180,000		
Number of groundwater studies	33			100		
Number of salinity studies	22			44		
<b>Capacity building</b>						
Awareness raising activities						
Number of other non-training products or materials developed		4			5	
Quantity of other non-training products or materials distributed		5			5	
Facilitation motivation and support activities						
Number of community groups or community projects assisted					12	
Number of FTE active community support positions (facilitators or coordinators)					20	
Skills and training activities						
Number of participants at training sessions in person-days		30			30	
Number of training sessions held		4			5	
<b>On-ground activities</b>						
Indigenous vegetation enhanced/rehabilitated						
Area (hectares) of terrestrial indigenous vegetation enhanced/rehabilitated	7,460			7,460		
Revegetation with indigenous vegetation						
Area (hectares) planted to terrestrial indigenous species	70			70		

**Table 2.1.3 Management action targets with a major focus on land salinity in Lachlan**

Management action target
30% of suitable sites in key saline landscapes planted to large interception plantings
30% of the area of known saline discharge sites managed for landscape protection
70% of land under irrigation will operate under efficient water use practices
By 2005 maintain and by 2012 improve the extent and condition of existing remnant vegetation in saline landscapes to prevent further land salinisation
Establish and manage multi-purpose tree plantings in 30% of key upland landscapes
Increase by 30% the level of perennial pastures managed to achieve optimal water use efficiency in key upland landscapes
Reduce recharge on 30% of dryland cropped landscapes through the use of water efficient farming systems

**Table 2.1.4 Resource condition targets with a major focus on land salinity in Lachlan**

Resource condition target
By 2012, the Lachlan River at Forbes will be equal to or less than: 50th percentile for salinity concentration levels at 410 EC
By 2012, the Lachlan River at Forbes will be equal to or less than: 50th percentile for salt load at 240,000 tonnes annually
By 2012, the Lachlan River at Forbes will be equal to or less than: 80th percentile for salinity concentrations levels at 550 EC
By 2012, the Lachlan River at Forbes will be equal to or less than: 80th percentile for salt load of 290,000 tonnes annually

## Soil condition

**Table 2.2.1 Activities with a major focus on soil condition in Lachlan**

Activities	Activity Expenditure (\$)			
	July 04 - June 05		Total to June 05	
	NAP	Trust	NAP	Trust
Soil Acidity Management	36,967		36,967	
Soil Erosion Prevention Program	264,090		264,090	
<b>Total</b>	<b>301,057</b>		<b>301,057</b>	

**Table 2.2.2 Summary of outputs from activities with a major focus on soil condition in Lachlan**

Outputs	July 04 - June 05			Total to July 05		
	NAP	Trust	Joint	NAP	Trust	Joint
<b>Capacity building</b>						
Awareness raising activities						
Number of other non-training forums		46			46	
Number of other non-training products or materials developed		130			130	
Number of participants at other non-training forums in person-days		310			310	
Quantity of other non-training products or materials distributed		20			20	
Facilitation motivation and support activities						
Number of community groups or community projects assisted		30			30	
Number of FTE active community support positions (facilitators or coordinators)		12			12	
<b>On-ground activities</b>						
Soil management						
Area (hectares) of soil treatment for other than erosion, salinity or acid sulfate soils	99,100			99,100		

**Table 2.2.3 Management action targets with a major focus on soil condition in Lachlan**

Management action target
25% of degraded sodic soils have an improvement in soil structure
50% of permanent pastures to have a desirable perennial plant component greater than 60%
At least 49% of land managers have property plans that support the move towards the implementation of best management practices
Increase pH in soils which have induced soil acidity and maintain to prevent further deterioration in naturally acidic soils
Reduce the extent of bare/cultivated long fallowed lands to indicated levels

**Table 2.2.4 Resource condition targets with a major focus on soil condition in Lachlan**

Resource condition target
By 2012, improve soil health across the catchment by herbage mass greater than 0.5 tonne per hectare 80% of the time in the plains
By 2012, improve soil health across the catchment by herbage mass greater than 1 tonne per hectare 80% of the time in the tablelands and slopes
By 2012, improve soil health across the catchment by improving soil organic carbon levels in the tablelands and slopes by 25%
By 2012, improve soil health across the catchment by maintaining current soil organic carbon levels on the plains

## Rivers and wetlands

**Table 2.3.1 Activities with a major focus on rivers and wetlands in Lachlan**

Activities	Activity Expenditure (\$)			
	July 04 - June 05		Total to June 05	
	NAP	Trust	NAP	Trust
Enhancement of Aquatic Habitats	397,991		397,991	
Identification and Assessment of Degradation and Threatening Processes to Aquatic and Riparian Areas in the Lachlan Catchment.		163,915		238,967
<b>Total</b>	<b>397,991</b>	<b>163,915</b>	<b>397,991</b>	<b>238,967</b>

**Table 2.3.2 Summary of outputs from activities with a major focus on rivers and wetlands in Lachlan**

Outputs	July 04 - June 05			Total to July 05		
	NAP	Trust	Joint	NAP	Trust	Joint
<b>Resource assessment</b>						
Baseline, trend or condition studies for targets						
Number of sites monitored		40			60	
Number of studies		2			2	
Investigations (survey, inventory and mapping and data analysis)						
Number of other studies		1			1	
<b>Capacity building</b>						
Awareness raising activities						
Number of other non-training forums		3			4	
Number of participants at other non-training forums in person-days		20			20	
Facilitation motivation and support activities						
Number of community groups or community projects assisted	30			55		
<b>On-ground activities</b>						
Indigenous vegetation enhanced/rehabilitated						
Streambank length (km) of riparian indigenous vegetation enhanced/rehabilitated	140			140		
Riparian and waterway health						
Length (km) of stream bank stabilised	140			140		
Number of stream bank structures installed	24			24		
Water use efficiency						
Number of land managers using improved irrigation practices	40			40		

**Table 2.3. Resource condition targets with a major focus on rivers and wetlands in Lachlan**

Resource condition target
By 2012, maintain and/or restore the health and function of the surface water and groundwater systems by surface flow regimes that seek to mimic natural conditions while providing defined resource access for water users

## Nutrients in aquatic environments

**Table 2.4. Summary of outputs from activities with a major focus on nutrients in aquatic environments in Lachlan**

Outputs	July 04 - June 05			Total to July 05		
	NAP	Trust	Joint	NAP	Trust	Joint
<b>On-ground activities</b>						
Indigenous vegetation enhanced/rehabilitated						
Streambank length (km) of riparian indigenous vegetation enhanced/rehabilitated	72			72		
Riparian and waterway health						
Length (km) of stream bank stabilised	72			72		
Number of stream bank structures installed	12			12		

**Table 2.4. Resource condition targets with a major focus on nutrients in aquatic environments in Lachlan**

Resource condition target
By 2012, maintain and/or restore the health and function of the surface water and groundwater systems by 10% reduction in the frequency of high-alert blue-green algal blooms

## Turbidity in aquatic environments

**Table 2.5.1 Resource condition targets with a major focus on turbidity in aquatic environments in Lachlan**

Resource condition target
By 2012, maintain and/or restore the health and function of the surface water and groundwater systems by 10% improvement on current turbidity levels on the upland landscape and hold or reduce current levels in the remaining areas of the catchment

## Surface water salinity

**Table 2.6.1 Activities with a major focus on surface water salinity in Lachlan**

Activities	Activity Expenditure (\$)			
	July 04 - June 05		Total to June 05	
	NAP	Trust	NAP	Trust
Benchmarking Community Attitudes Towards Natural Resource Management Within the Lachlan Catchment		75,000		75,000
<b>Total</b>		<b>75,000</b>		<b>75,000</b>

**Table 2.6.2 Summary of outputs from activities with a major focus on surface water salinity in Lachlan**

Outputs	July 04 - June 05			Total to July 05		
	NAP	Trust	Joint	NAP	Trust	Joint
<b>Resource assessment</b>						
Investigations (survey, inventory and mapping and data analysis)						
Area (hectares) surveyed by groundwater studies		5,000			5,000	
Area (hectares) surveyed by other studies		5,000			5,000	
Area (hectares) surveyed by salinity studies		5,000			5,000	
Area (hectares) surveyed by soil studies		37,000			37,000	
Number of groundwater studies					1	
Number of other studies					1	
Number of salinity studies		1			1	
Number of soil studies		1			1	
<b>Capacity building</b>						
Awareness raising activities						
Number of other non-training forums		5			5	
Number of participants at other non-training forums in person-days		30			30	

**Table 2.6.3 Management action targets with a major focus on surface water salinity in Lachlan**

Management action target
Within valley interim EC and salt load targets achieved at identified sites

**Table 2.7.1 Activities with a major focus on native vegetation in Lachlan**

Activities	Activity Expenditure (\$)			
	July 04 - June 05		Total to June 05	
	NAP	Trust	NAP	Trust
Foundation Building for Strategic Investment in Vegetation Management at a Landscape Scale - Lachlan Catchment		120,000		120,000
<b>Total</b>		120,000		120,000

**Table 2.7.2 Summary of outputs from activities with a major focus on native vegetation in Lachlan**

Outputs	July 04 - June 05			Total to July 05		
	NAP	Trust	Joint	NAP	Trust	Joint
<b>Resource assessment</b>						
Decision support tools						
Number of models developed		1			1	
Investigations (survey, inventory and mapping and data analysis)						
Number of other studies		1			1	
Research and development studies						
Number of research and development studies undertaken		1			1	
<b>On-ground activities</b>						
Indigenous vegetation protected by fencing						
Area (hectares) of terrestrial indigenous vegetation protected by fencing			2,550			2,550

**Table 2.7.3 Management action targets with a major focus on native vegetation in Lachlan**

Management action target
100% of areas identified as being of high conservation value are protected
All identified terrestrial and aquatic weed and pest animals of concern for the Lachlan Catchment are managed through integrated management across all land tenures
Area of native vegetation managed for biodiversity conservation and landscape protection comprises 30% of the current distribution of "well retained" vegetation communities
Area of native vegetation managed for biodiversity conservation and landscape protection comprises 60% of the current distribution of "at risk" vegetation communities
Enhance the condition and extent of priority vegetation types and habitats by increasing the extent of priority vegetation types and habitats by 10%

**Table 2.7.4 Resource condition targets with a major focus on native vegetation in Lachlan**

Resource condition target
By 2012, improve the health of native vegetation and biodiversity by 10% of the catchment, covering the full range of ecosystems, managed primarily for biodiversity
By 2012, improve the health of native vegetation and biodiversity by an additional 20% of the catchment managed for landscape protection and biodiversity

## Significant native species

**Table 2.8.1 Resource condition targets with a major focus on significant native species in Lachlan**

Resource condition target
By 2012, maintain and restore the health and function of surface water and groundwater systems by improving aquatic habitat and biological diversity of sites rated "good" and an improvement for sites rated "fair" or below

## Target summary

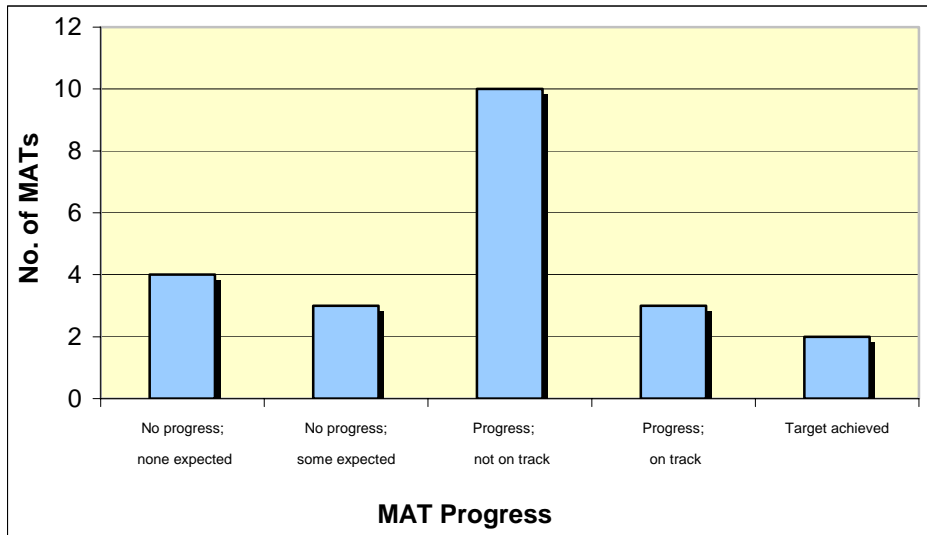
Approved investment strategies detail management action targets (MATs) and resource condition targets (RCTs) targets having a major focus on matters for target, and other supporting activities.

Regions were asked to make an assessment of progress towards the achievement of the targets using the available evidence.

Progress towards achieving each MAT was assessed using the following five-point scale:

- Target achieved or exceeded.
- Progress and on track.
- Progress, but not on track.
- No progress, but some progress was expected.
- No progress, but none expected at this time.

**Figure 3.1 Progress towards achieving Management Action Targets in Lachlan**



Progress towards achieving each RCT was assessed using the following five-point scale:

- Evidence of target achieved or exceeded.
- Evidence of progress.
- Evidence of no progress.
- Evidence of regress.
- Insufficient evidence to assess.

**Figure 3.2 Progress towards achieving Resource Condition Targets in Lachlan**

