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  - role of regional catchment management authorities play in the management of salinity
- Lachlan CMA Contribution to ToR 3
  - action taken as a result of the Science and Innovation Committee inquiry.



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#### **Committee Terms Of Reference**

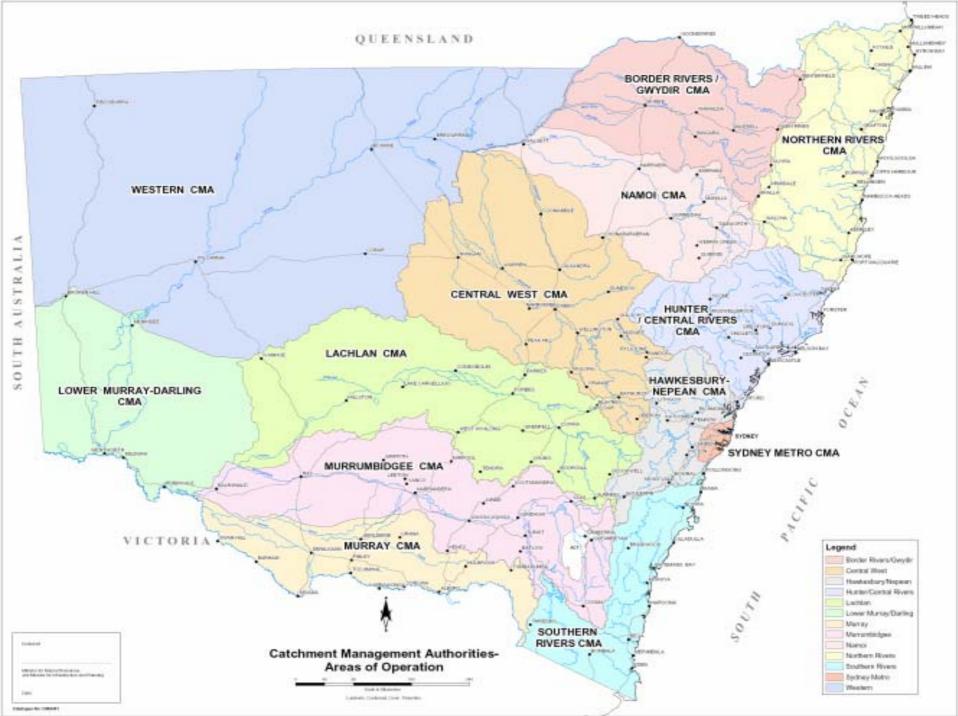
- Assessment of federal programs that seek to reduce the extent of and economic impact of salinity ......
- (a) whether the goals of the National Action Plan for for Salinity and Water Quality, NHT and NLP have been attained;
- (b) role of regional catchment management authorities play in the management of salinity
- (c) action taken as a result of the Science and Innovation Committee inquire.





## Overview of CMA

- Drivers for CMAs
- Generic Functions





## **Drivers for establishing CMAs**

- Wentworth Group Report
- Catchment Management Authorities Act 2003
- Native Vegetation Conservation Act
- Australian Government Funding via National Action Plan for Water Quality and Salinity and National Heritage Trust.
- Broader reforms on Service Delivery

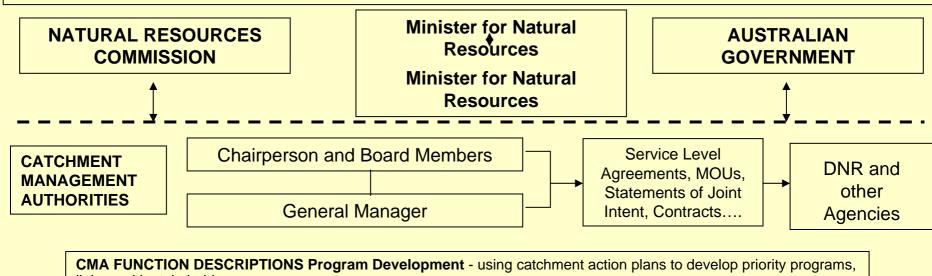


## **Board Structure and representation**

- CMA Chair
- CMA Board (governing) Members (6 people)
- CMA Board will report directly to the Minister
- CMA Board is selected on merit not representation of any particular interest group
- CMA General Manager



## Catchment Management Authority relationship with **NSW Government and the Community**



liaison with stakeholders

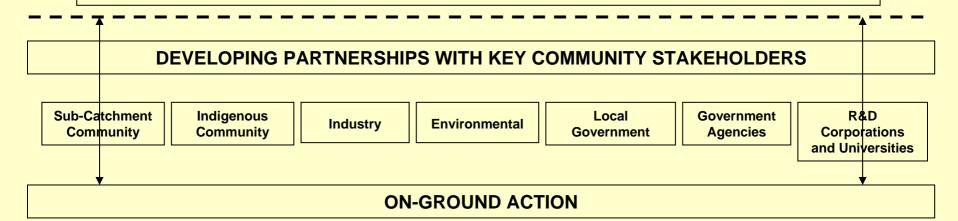
Contract Management - implementation of priority programs, managing contracts/tenders, evaluation and monitoring

Community Programs - incentives and investments, programs (eg. Landcare, Bushcare)

Administration - executive support, financial management, statutory reporting, SLA management

Community Education - education, public relations, media

Property Vegetation Incentive Programs - property vegetation and property management plans, management contracts





## **Corporate Governance Model**

- Responsible directly to the Minister for Natural Resources
- Heavily audited by Natural Resources Commission re achievements of Statewide Targets
- Heavily audited by Australian Government in terms of value for expenditure.
- Accountable to Lachlan Community





#### ToR1

"Goals of the National Action Plan for for Salinity and Water Quality, NHT and NLP (specific to Lachlan Catchment Management Authority)";

- targets and standards for natural resource management, particularly for salinity and water quality;
  - Achieved by the the successful development and implementation of planning and business systems that comply with the Natural Resources Commission (NRC) Standards and Targets.
  - Annual NRC Audit





- integrated catchment / regional management plans developed by the community and accredited jointly by the relevant Parties,......
  - Catchment Blueprint jointly accredited in 2002.
  - Rolling three year investment strategies jointly accredited annually,
  - Catchment Action Plan due for submission in March 2006. Extensive consultation with community, local government, industry groups and aboriginal community.
- capacity building for communities and landholders to assist them to develop and implement integrated catchment / regional plans, together with the provision of technical and scientific support and engineering innovations
  - 85% of NAP budget to on grounds works
  - 15% to extension, education and technical support.
  - Majority of staff dedicated to landholders and community groups in implementation of Catchment Action Plan outcomes









#### ToR 2

"role of regional catchment management authorities play in the management of salinity"

## Lachlan CMA Business





#### **Catchment Statistics**

- Area: The Lachlan catchment covers 84,700 km<sup>2</sup>, which is 12% of the State.
- **Population:** Population of more than 100,000 people
- **Production:** Lachlan catchment produces approx. 14% of NSW agricultural production
- Geography: The Lachlan River begins near Gunning and terminates in the Great Cumbung Swamp 1450km to the west.
- Aboriginal representation: The Lachlan catchment falls predominantly in the Wiradjuri Aboriginal tribal area, with 13 Local Aboriginal Land Councils and 8 Nations represented
- Wyangala Dam: The main dam regulating the Lachlan River is Wyangala Dam with a capacity of 1,220,000 megalitres and is located at the junction of the Lachlan and Abercrombie Rivers

**River slope:** The last 10km of the Lachlan River drops only 10cm before entering the Cumbung Swamp

**Effluent streams:** The Lachlan Catchment has a number of effluent steams along its lower section including Willandra, Merrowie and Middle Creeks. These effluent streams flow intermittently from the Lachlan River delivering water a further 160-180 kilometres west of the main channel.







#### **Catchment Statistics**

**Landscape:** The landscape of the Lachlan catchment varies markedly from east to west. The tablelands are characterised by fast to moderately flowing streams with sandy and pebbly beds, steep, densely vegetated ranges to extensively cleared grazing lands. The slopes are characterised by undulating to hilly cleared lands, graduating to flatter areas, with some pockets of remnant vegetation. The plains areas are characterised by flat topography and the occasional rocky range outcrop.

**Soils:** The soil types throughout the catchment vary from very robust, durable soils to very fragile, naturally acidic and sodic soils. This variability mean different management of the soils needs to occur depending on location



#### Overview -

- Recurrent Budget of \$3.20 M for salaries for 24 permanent staff, operational expenses and accommodation etc.
- A decentralised structure (10 Service Centres)
- DNR provides CMAs with corporate support (HR, Payroll, IT etc) via a Service Level Agreement
- The Lachlan CMA has annual budget consisting of funding from the following sources:
  - Recurrent(salaries and operating)
  - National Action Plan for Water Quality and Salinity
  - National Heritage Trust
  - Land and Water Management Plan
  - State Sustainability Fund
- The Lachlan CMA has, to date, leveraged approximately \$16 million investment from non government sources which is approximately 55% of on grounds work expenditure









- CMA Chair
  - Rob Gledhill
- CMA Board
  - Peter Laird
     John Sutherland
  - Mary Ewing– Dennis Moxey
  - Mary GoodacreDavid Marsh

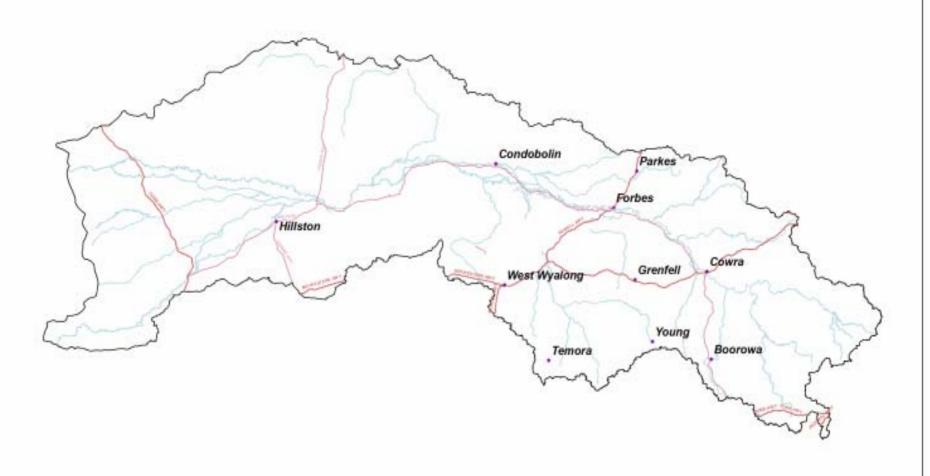


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## **Service Delivery Centres**

- 10 service centres strategically located throughout the catchment. Forbes is the central office, Cowra is a major office while the rest are usually maintained by approx two staff members
- Forbes Central Office
- Cowra
- Boorowa/Crookwell
- Young
- Parkes
- Grenfell
- West Wyalong
- Temora
- Condobolin
- Hillston

# Lachlan Catchment Management Authority Office Locations





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Author: B. Audet Date: 19/01/2006 Source: 466

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## **Budget - Source**

Source of funds	\$	Comments		
Aust. Govt. National Action Plan	3,875,000	Total Aust Govt funds 4,535,000		
Aust. Govt. National Heritage Trust	660,000			
NSW National Action Plan	5,744,000	Total NSW Govt funds 6,719,000		
NSW State Sustainability Fund	700,000			
NSW Land and Water Management Plan	275,000			
Recurrent Salaries and Operating	3,200,000			
Estimated leverage from third parties	16,000,000	Includes individual landholder contributions plus inputs from various investors such as Lachlan Valley Water, State Water, Dept of Environment and Conservation, Greening Australia, Transgrid, Boorowa Shire Council, Lake Cowal Foundation, Barrick Australia Ltd, Bland Creek Catchment Committee.		
Total	\$30,454,000			
The vast majority of CMA expenditure is for on ground works.				

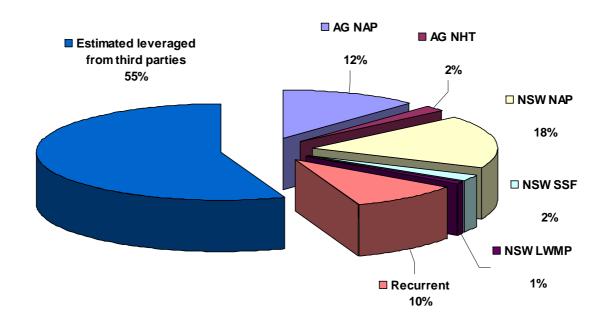
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## **Budget - Source**

Lachlan Catchment Management Authority
Program Source of Funds
2005/06









### **Our Programs**

#### **Corporate, Policy and Strategic Services**

• This program provides the community with the institutional and policy support that it requires. Items include our decentralised office structure, the administration of our Board and staff and the administration of all our community programs (specifically the Investment funding). It provides the business protocols and processes that ensures that the LCMA is managed in an efficient and accountable manner and that its resources are allocated to achieve maximum benefit.

#### **Vegetation and Biodiversity**

 This program improves the quality and extent of native vegetation, both woody and non woody, within the catchment

#### **Water and Aquatic Ecosystems**

This program directly improves water quality and protects aquatic ecosystems.

#### Sustainable Landuse

 This program describes the LCMAs initiatives to improve practice in the agricultural areas of cropping, grazing and irrigation management

#### **Community**

 This program covers the LCMA activities in regard to strengthening its relationship with its key stakeholder groups.



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#### **Our Goals**

## Goal 1 - To provide leadership in Natural Resource Management

This KRA includes work that the LCMA conducts to provide an appropriate regulatory and policy
environment to encourage better natural resource management. It includes providing advice and direction
to the community on relevant NRM policy and regulatory issues and equally providing advice to the various

levels of government.

## Goal 2 - To improve the management of Natural Resources within the Lachlan Catchment via the provision of information products, education, training and technical support

• This KRA that provides the community with the capacity, in terms of motivation, information and skills, to

implement programs in conjunction with the LCMA.

## Goal 3 - To improve the management of Natural Resources within the Lachlan Catchment via the strategic allocation of investment

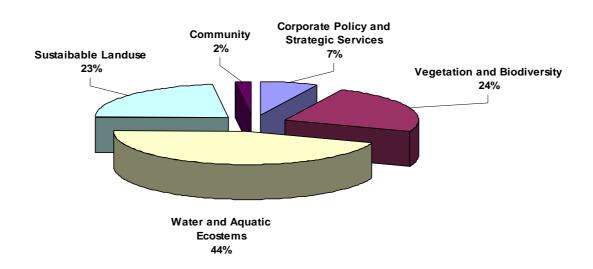
 This KRA that provides the community with the financial resources to implement agreed programs in conjunction with the LCMA.





## **Budget - Expenditure by LCMA Program Area**

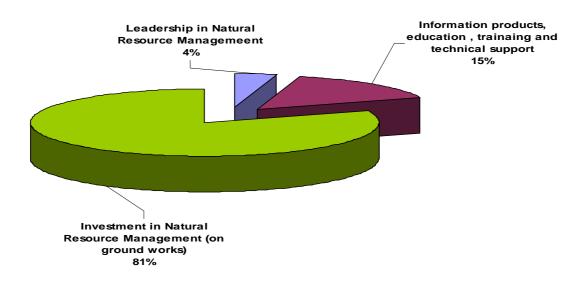
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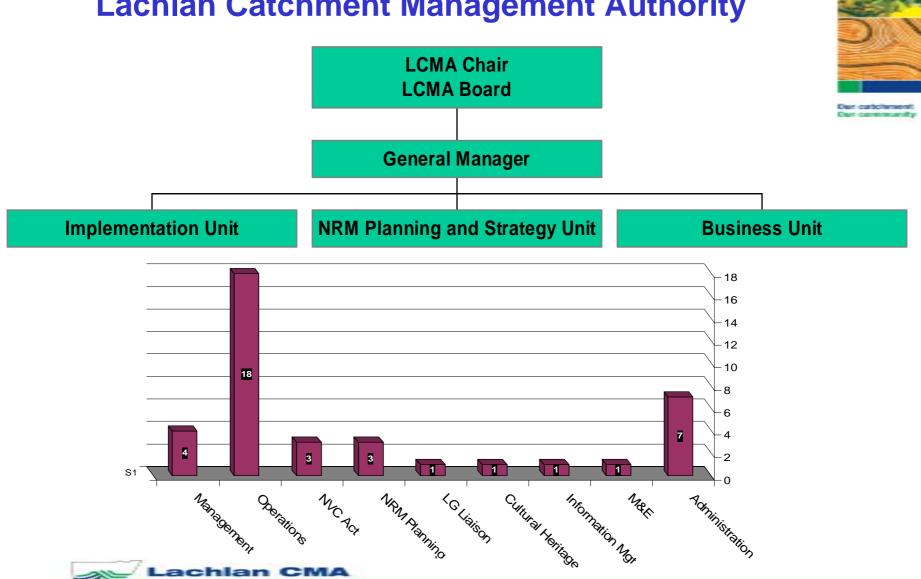
## **Budget - Expenditure by LCMA Goal**

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## **Lachlan Catchment Management Authority**





Implementation Unit	Policy, Planning and Strategy Unit	Business Unit
Provide and/or facilitate training (capacity building) in improved natural resource management	Native Vegetation Conservation Act  PVPs for Investment, PVPs for continuing use, PVPs for consent to clear,	Corporate Services
Work with community to develop both large scale works and individual projects	<ul> <li>Lachlan Catchment Action Plan (LCAP) to provide</li> <li>a vision for the catchment,</li> <li>a strategic document for investment</li> <li>Allocation of LCMA and broader government resources.</li> <li>Integrate (NRM components) for planning</li> </ul>	Natural Resource Investment
Facilitate on ground works	Cultural Heritage.	Manage NAP/NHT expenditure and contracts
Extension and technical advice	Information Management	Explore new investment tools such as g Carbon credits, Resource auctions etc
Provide financial assistance for catchment activities	Monitoring and Evaluation	
Link research to onground action	Local Government Liaison	
	Water Resource Management	



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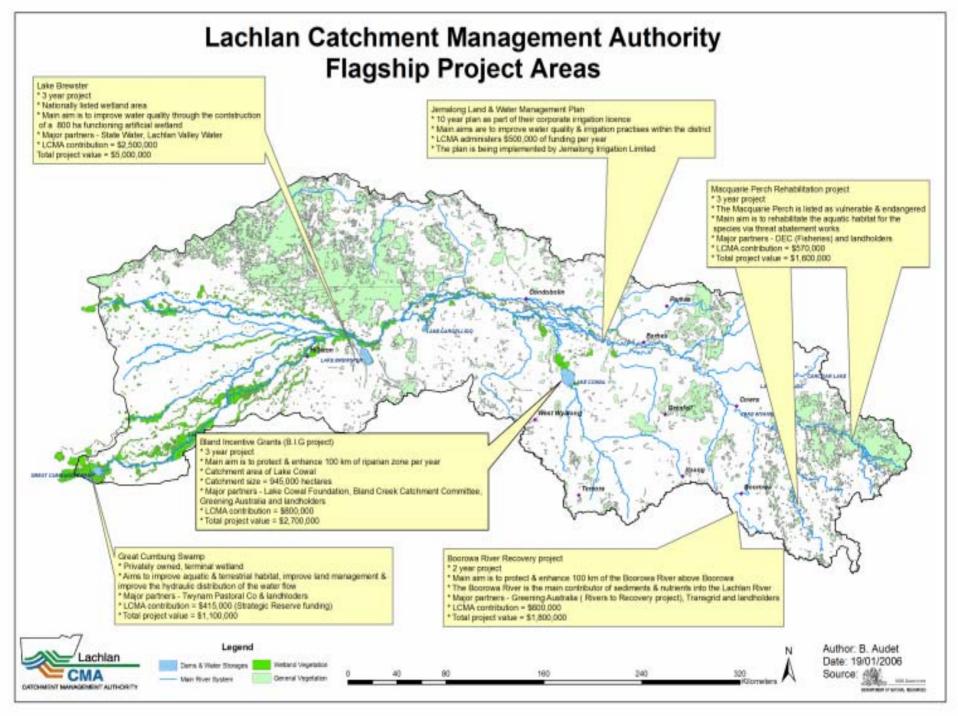




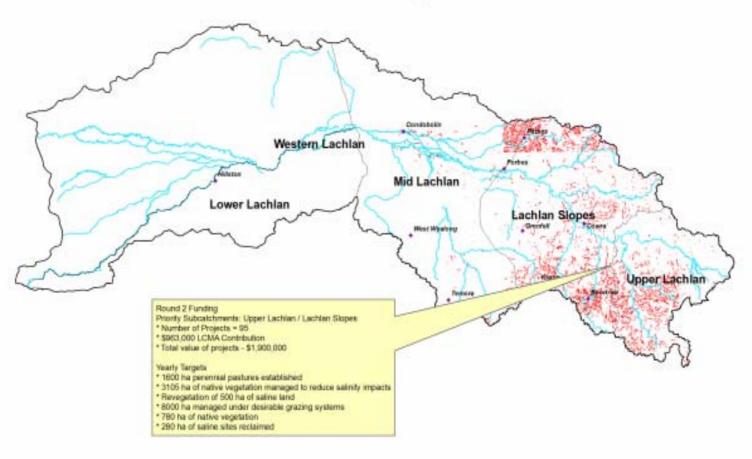
#### Achievements to date

- Establishment of six "flagship" projects featuring 8 different "investors", plus substantial individual landholder contributions. In 2005, \$10 million invested in natural resource management for a \$4.5 million LCMA contribution.
- Outstanding program delivery of on ground works with 800 projects with individual landholders which will achieve 7,700 ha of remnant vegetation voluntary protected, 1,128 ha of native revegetation, 404 kms of protected riparian vegetation, 32,000 ha of perennial pasture enhanced and managed to reduce salinity and soil erosion, 168 (on over 180,000 ha) conventional farming machines converted to allow for less aggressive tillage practices and 53 properties enhanced with more efficient water use systems.
- Catchment Action Plan, Investment Strategy, Annual Implementation Plan submitted and approved (where applicable) within required timeframes and with appropriate community engagement.
- Stakeholder engagement evidenced by establishment of regular forums with Aboriginal Community, Local Government and Landcare as well as ongoing programs with relevant Industry groups such as Lachlan Valley Water
- **Marketing** as evidenced by fortnightly segment on ABC radio, regular print media releases, CMA "Partners in Production" forum, Introductory Print media feature.
- Implementation of PVPs. 28 current landholder applications
- Corporate Services . Specifically development of Business Systems, budget development budget reporting, program reporting, Annual Report etc)





## Lachlan Catchment Management Authority Land Management Achievement Report Round Two Incentive Program June 2005 - January 2006





#### Legend



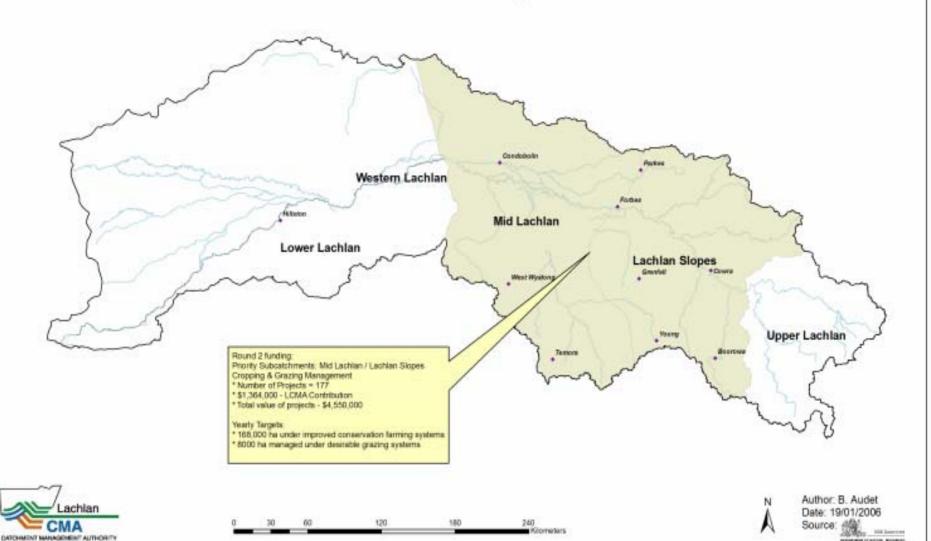
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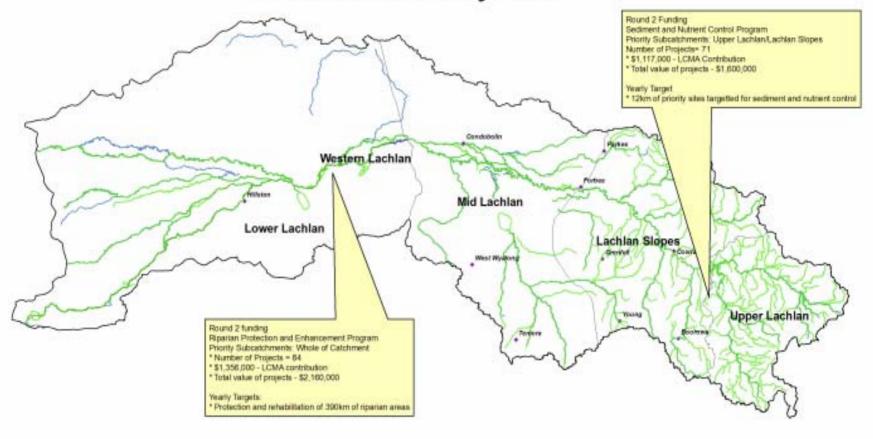


## Lachlan Catchment Management Authority Land Management Achievement Report Round Two Incentive Program June 2005 - January 2006



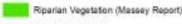
**Lachlan Catchment Management Authority Vegetation Management Achievement Report Round Two Incentive Program** June 2005 - January 2006 Western Lachlan Mid Lachlan / Lower Lachlan \* Large areas of remnant native vegetation Significant clearing for agriculture has occurred. \* Major pressure - clearing for agricultural production Remaining areas of remnant vegetation are isolated \* Anscipated high demand for PVPs \* Priority areas for revegetation comidors to link remnants Whole of Catchment Round 2 funding: \* Number of Projects = 158 \$1,208,000 - LCMA Contribution Total value of projects - \$2,000,000 Yearly Targets: 6210 ha of priority remnant vegetation protected & managed 3105 ha of native vegetation managed to reduce sailinity impacts. Revegetation of 500 ha of saline land 666 ha managed to improve connectivity in fragmented landscapes \* 780 ha of native vegetation on saline landscapes enhanced & managed Upper Lachlan / Lachlan Slopes Increased the extent of over-cleared vegetation communities by 1950 ha \* Significant clearing of recharge zones has occurred \* High salinity hazard Priority areas for salinity interception plantings to reduce recharge. Legend Stateforests National Parks Author: B. Audet Wetland Vegetation General Vegetation DATCHMENT MANAGEMENT AUTHORITY

# Lachlan Catchment Management Authority Riparian Vegetation Management Achievement Report Round Two Incentive Program June 2005 - January 2006





Legend



Main River System

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Author: B. Audet Date: 19/01/2006

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## **Future Strategies/Challenges**

- Continue to improve on the solid base of the existing investment program;
- Concentrate on large-scale on ground projects;
- Develop a Catchment Information System to provide integrated natural resource management information to the community, local government, industry groups, government and other relevant stakeholders.
- Expand Investment program into new areas, eg water use efficiencies etc;
- Develop Environmental Water Trust;
- Continue to develop Business Systems, performance reporting and monitoring and evaluation systems;
- Explore opportunities in market based investments;
- "bed down" the Native Vegetation Management Act;
- Continue to "grow" as an organisation be cementing the CMAs place as a one "stop shop" for improved natural resource management in the community;





#### ToR 3

# "action taken as a result of the Science and Innovation Committee inquiry".

28 Actions/Recommendations can be summarised into 6 main area

- Integration of salinity R&D into regional planning and investment.
- Prioritisation of R&D
- Extension of R&D Outcomes
- Provision of extension services
  - security of employment
  - career opportunities
  - private sector extension
- Public sector investment in salinity R&D.
- Information management



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#### ToR 3

# "action taken as a result of the Science and Innovation Committee inquiry".

- 28 Actions/Recommendations can be summarised into 6 main areas.
- Lachlan CMA response to each area (based on our experiences)
  - Integration of salinity R&D into regional planning and investment.
    - Reasonably good. Reasonable strong alliances with State and Australian Government Agencies. Recently entering into partnerships with Industry R&D organisations, Possibility to improve partnerships with other R&B Institutions.
    - Requirement to comply with Natural Resource Commission Standards and Targets.



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#### ToR 3

# "action taken as a result of the Science and Innovation Committee inquiry".

28 Actions/Recommendations can be summarised into 6 main area

- Prioritisation of R&D
  - limited at this stage. Possibility of improvement with the development of Catchment Action Plans which will priorities actions and investment.
- Extension of R&D Outcomes
  - very limited. Room for significant improvement. Recommendation of regional conferences to extend, and engage regional communities in NRM R&D has not occurred to our knowledge.



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#### ToR 3

# "action taken as a result of the Science and Innovation Committee inquiry".



- Provision of extension services (security of employment, career opportunities and private sector extension)
  - Security of employment for externally funded staff is still an issues and an impediment to employment in regional centres.
  - Reasonable engagement of private sector extension in salinity through industry agronomists training and cooperation.



#### ToR 3

# "action taken as a result of the Science and Innovation Committee inquiry".

28 Actions/Recommendations can be summarised into 5 main area

- Public sector investment in salinity R&D.
  - not able to comment
- Information management
  - Seen as a major opportunity for CMAs to provide one stop shop front of NRM advice to regional communities
  - Development of Catchment Information Management System seem as major initiative for Lachlan CMA in 2006.



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