

Whole of Government approaches to natural resource management



Landcare: a brief history

- Reduce land degradation
- Decade of Landcare
- 25 years since the joining of ACF and NFF
- 6000 groups, 100,000 Landcarers
- Landcare, 'Friends of groups' Coastcare, Dunecare, urban, Rivercare, Bushcare and grower groups



Where Landcare has made a difference

- Resilient farming systems
- Increased biodiversity
- Government, community and landholders working in partnership
- 70% of cropping land minimally cultivated



NRM investment

- Green Army
- Reef 2050
- Working on Country
- Land Sector Package
- National Landcare Programme



National Landcare Programme

- Protect and improve natural assets
- Support sustainable production
- Landcare at the centre of land management
- National and regional streams



NLP: Objectives and Outcomes

Strategic objectives

Strategic objective 1:

Communities are involved in caring for their environment

Strategic objective 2:

Communities are protecting species and natural assets

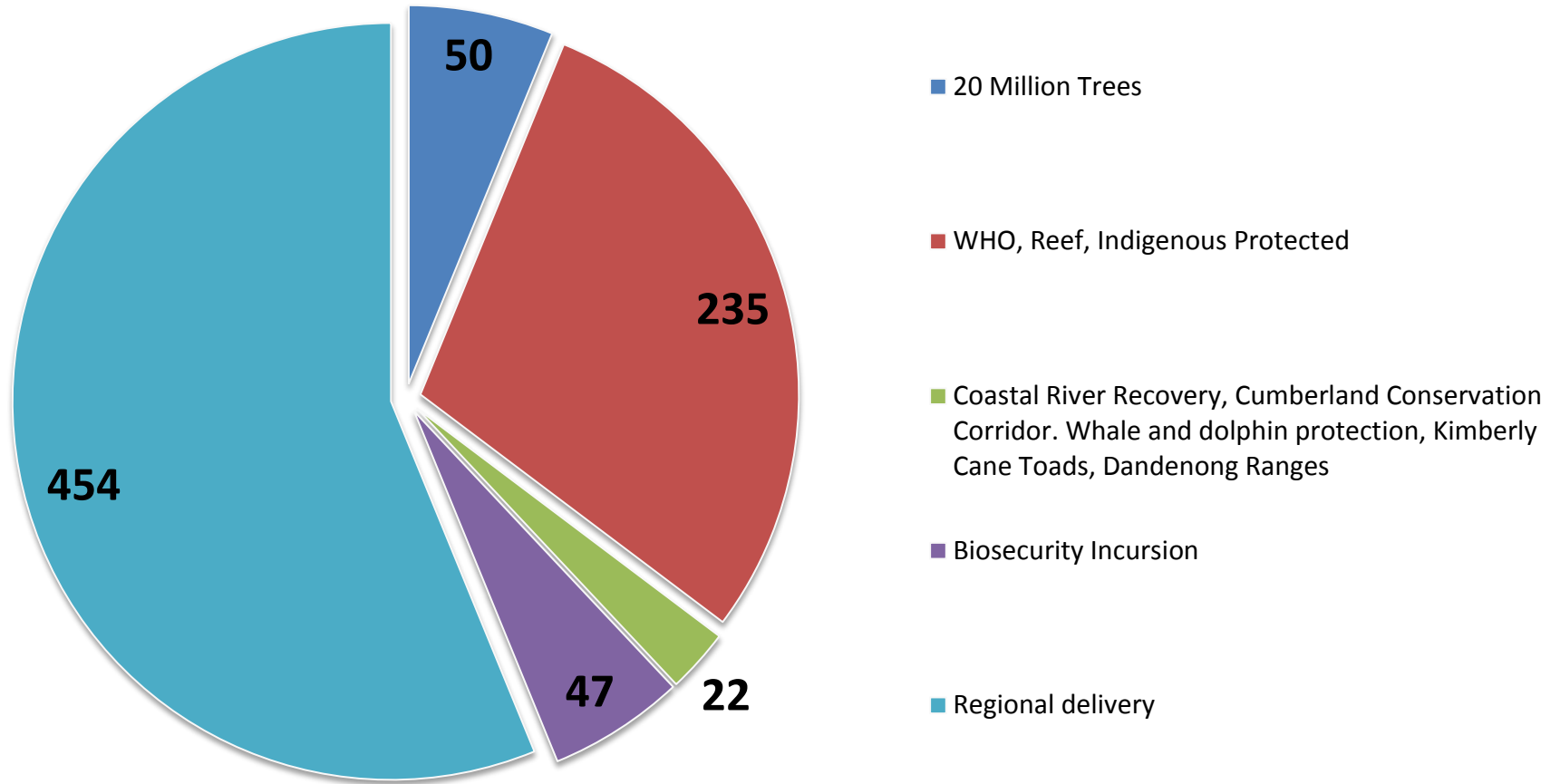
Strategic objective 3:

Communities are managing landscapes to sustain long-term economic and social benefits from their environment

Strategic objective 4:

Farmers and fishers increasing their long term returns through better management of the natural resource base.

Budget \$millions



Australian Government investment in NRM

National

- NLP
- 20 Million Trees
- Small grants
- Biosecurity
- Local programmes
- Indigenous protected areas
- Reef programme
- Environmental stewardship
- World heritage
- Landcare networks



Australian Government investment in NRM

Regional

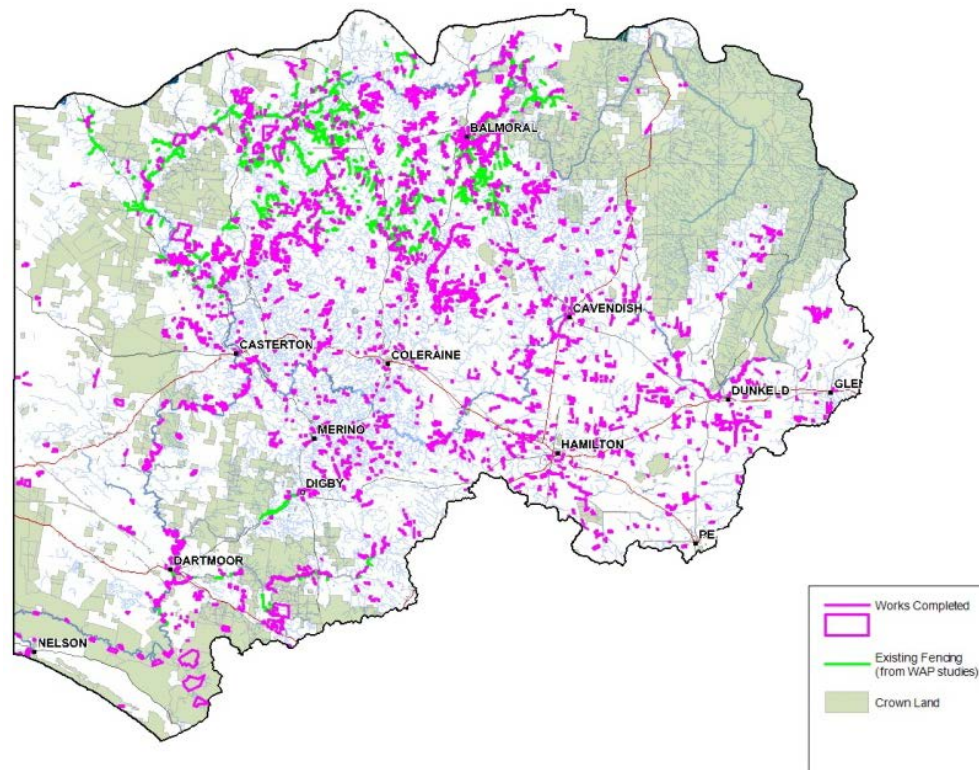
- Promote community engagement and participation
- Simpler, robust monitoring and reporting
- Support public good outcomes



Gleneelg Hopkins River Restoration Project

Australian and Victorian Government Funding: \$16.7M

- 659 property owners & community groups involved
- direct seeded 796 km of waterway frontage
- over 500,000 trees planted



Gleneelg River Project – Before and After



Before environmental
flows and stock exclusion
March 2009



After environmental flows
and stock exclusion
May 2014

Greening Australia

Whole of Paddock Rehabilitation

- WoPR developed in 1994 in New South Wales
- Small scale transferred to large scale
- Implemented across the country in WA, ACT and NSW



Reef

Working towards improved water quality in the World Heritage Listed Great Barrier Reef

Reef 2050 plan

\$ 200 million

- \$140 reef programme
- \$40 million reef trust
- \$20 million WQIP, Crown of thorns, Reef Foundation



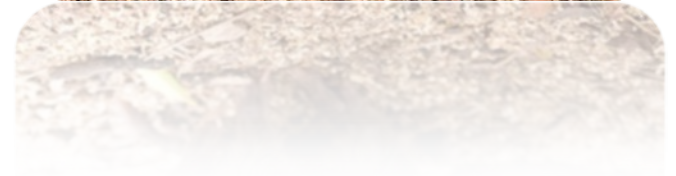
Reef



- Working with agronomists, scientists NRM organisations, industry, early adopters
- Developing property specific advanced management plans
- Identifying and fast tracking practices that can significantly reduce nutrient loads

Threatened species

- Fox control
- Protect and enhance native vegetation
- Revegetate land providing suitable habitat and food for koalas and long nosed potoroos.



Managing weeds in the NT

- \$1.42m of commonwealth funding
- \$2.5m contribution from land managers

Over 17,000 ha
Mimosa infestations
were treated or re-
treated annually across
the project site

2007



2011



Successful projects

- Strong partnerships
- Monitoring and reporting
- Leveraging funds
- Science and data



Photos courtesy of East Gippsland CMA

Resources to help monitor and tell your story

- Atlas of living Australia - www.ala.org.au
- NRM Knowledge online nrmonline.nrm.gov.au
- Dust watch - dustwatch.edu.au
- The Monitor - daff.gov.au/abares/monitor



Atlas of living Australia



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- Species by location
- Natural history collections
- Mapping & analysis
- Data sets
- Partner Profiles

Blogs & news

COMMUNICATIONS
ALA helps bring CSIRO's new biodiversity book to life

26 August, 2014

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Australia's species

Search for a species by common or scientific name.

Iconic flora & fauna

Birds Fish Frogs Mammals Reptiles Invertebrates Flowering plants Conifers Fungi Ferns



Dacelo novaeguineae
Kookaburra



Dromaius novaehollandiae
Emu



Casuarus casuarus
Southern Cassowary



Malurus cyaneus
Superb Fairy-wren



Cracticus tibicen
Australian Magpie



Eudiptula minor
Fairy tern



Menura novaehollandiae
Lushbird



Alisterus scapularis
Kinn Darrat



Leipoo ocellata
Mallacoota Fruit

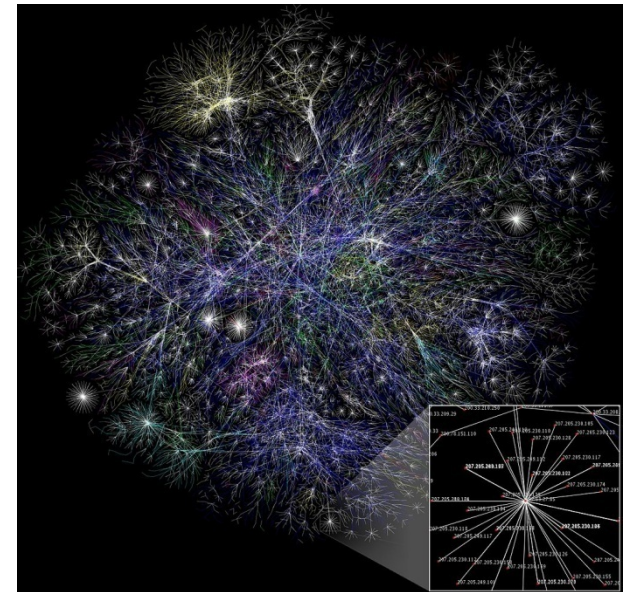


Pelecanus conspicillatus
Australian Dalmian

NRM knowledge online - a paradigm shift

The screenshot shows a web browser window displaying search results for 'Landcare' on the NRM knowledge online platform. The search results are filtered by 'Title' and 'Landcare'. The results list three items:

- 1. Landcare**
Author / Creator: Department of Environment and Heritage
Issued / Published: 2004
Partial Abstract: The Australian Government's Landcare initiative aims to reverse land degradation and promote sustainable agriculture. The goals of the Natural Heritage Trust's Landcare include: improving the ...
- 2. Australian framework for Landcare**
Author / Creator: Australian Framework for Landcare Reference Group
Issued / Published: 2012-05
Partial Abstract: Landcare is a unique community-based approach that has played a major role in raising awareness, influencing farming and land management practices and delivering environmental outcomes across ...
- 3. Community landcare, the National Landcare Program and the landcare movement: the social dimensions of landcare**
Author / Creator: Cary, John; Webb, Trevor
Issued / Published: 2000-10
Partial Abstract: This paper describes the social attributes of the landcare movement, how community landcare works and the implications for the continued growth of community landcare. Landcare has become a ...



DustWatch

DustWatch reports



Tick indicates highest dust level detected in that period.

Year	Newsletter for	No dust	Dust haze	Local dust storms	Regional dust storms	PDF
2013	January 2013			✓		130115DWNL.pdf (1.26mb)
2012	December 2012			✓		120038DWNL.pdf (1.17mb)
	November 2012				✓	121000DWNL.pdf (783kb)
	October 2012		✓			120865DWNL.pdf (1.2mb)
	September 2012		✓			120835DWNL.pdf (980kb)
	August 2012		✓			DWN120831.pdf (432kb)
	July 2012		✓			DWN120731.pdf (497kb)
	June 2012		✓			DWN120630.pdf (516kb)
	May 2012		✓			DWN120531.pdf (661kb)

Community DustWatch Expansion Project (CDW) Appendix to Milestone Report No. 6

Using DustWatch to Report on Changes in Ground Cover and Land Management Practices in Natural Resource Management Regions

Community based wind erosion monitoring across Australia

DustWatch Report

Dust activity for December 2012 No: OEH 2013/0038



Dust Activity

For the first time since October 2012 the network recorded dust in Western Australia. The dust occurred early in December in Merredin (3 Dec) and Newdegate (1 and 2 Dec). Mullewa recorded dust on 15 and 16 Dec and then on 25 and 26 Dec. Bare paddocks after harvest and some failed crops appear to be the main source of dust in WA (Figure 2).

In Eastern Australia the cropping lands in the Mallee to the south west of Euston were the source area of severe dust hazes on 8 and 19 December 2012, similar to the events described in last months newsletter. In both cases a low pressure trough and associated cold front swept through Victoria and New South Wales (Figure 1). The dust recorded at Euston on 8 December was detected as far east as Cowra and as far north as Dubbo on the following day. Roadside surveys undertaken by OEH staff in December confirm that the dust sources are failed crop paddocks that have been over grazed. The event on 19 December had similar weather conditions but wind speeds were not as high resulting in a more local event that only registered in Buronga, Euston and Penarie.

Two separate events on 14 and 15 December registered as a moderate haze in Coombah and Menindee. Interestingly the source area for this event is most likely a large fire scar to the south west of Coombah. This event is discussed in more detail in the cover section of this report.

Figure 1. Mean Sea Level Pressure Analysis chart 8 December 2012.

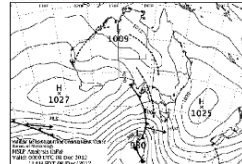
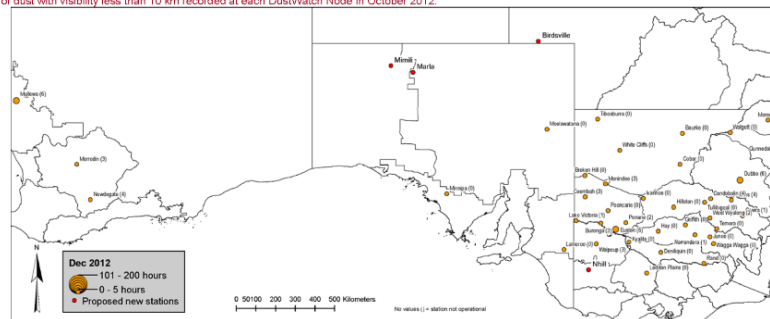
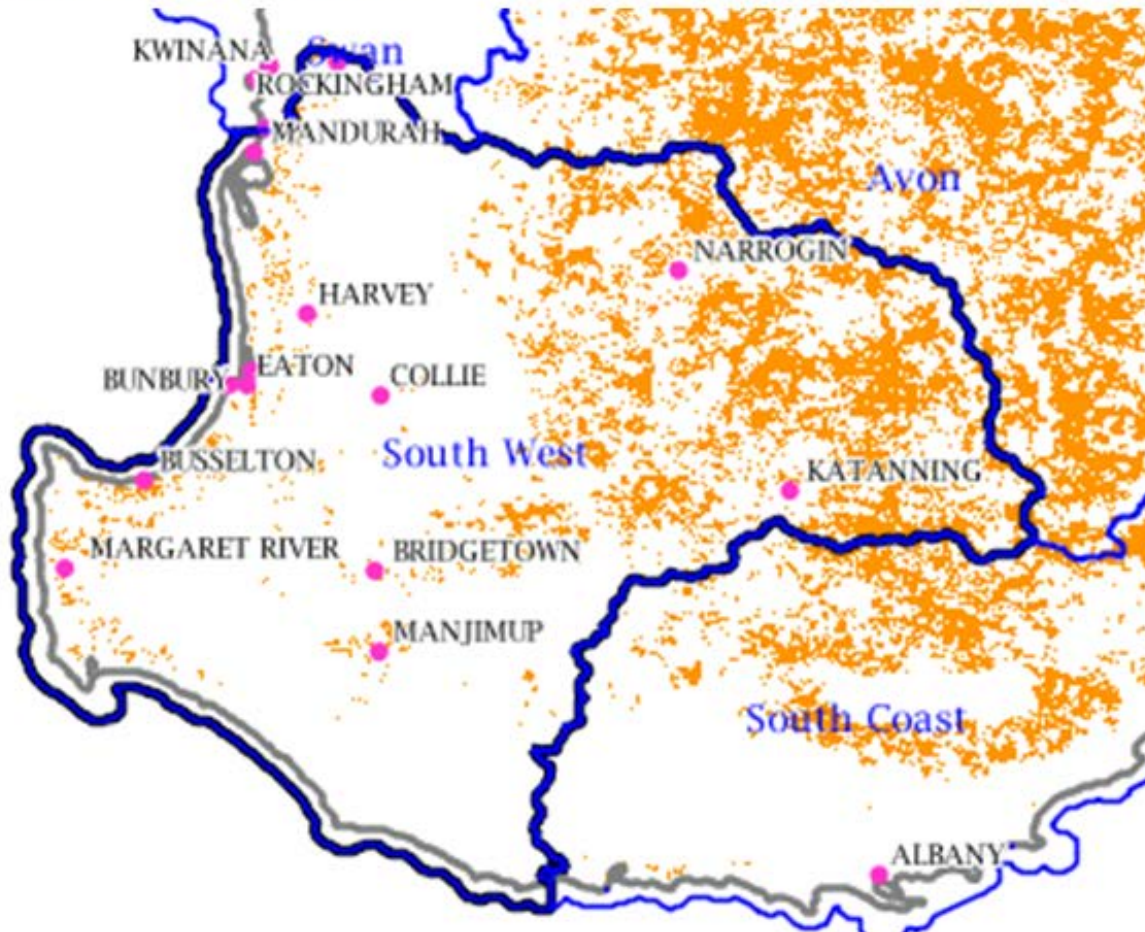


Figure 2. Hours of dust with visibility less than 10 km recorded at each DustWatch Node in October 2012.

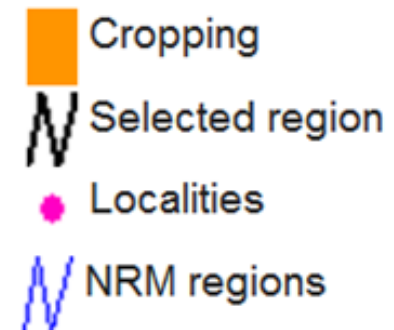


Maps: Location of cropping

Location of Cropping Land - South West (WA)



Location of Cropping Land



Landcare' is in Landcare's hands

- Develop productive partnerships
- Increase skills and knowledge
- Improve monitoring and reporting processes
- Learn from each other





Questions?

