



Australian Government
Department of Agriculture
and Water Resources

Climate and primary industries

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27 April 2016

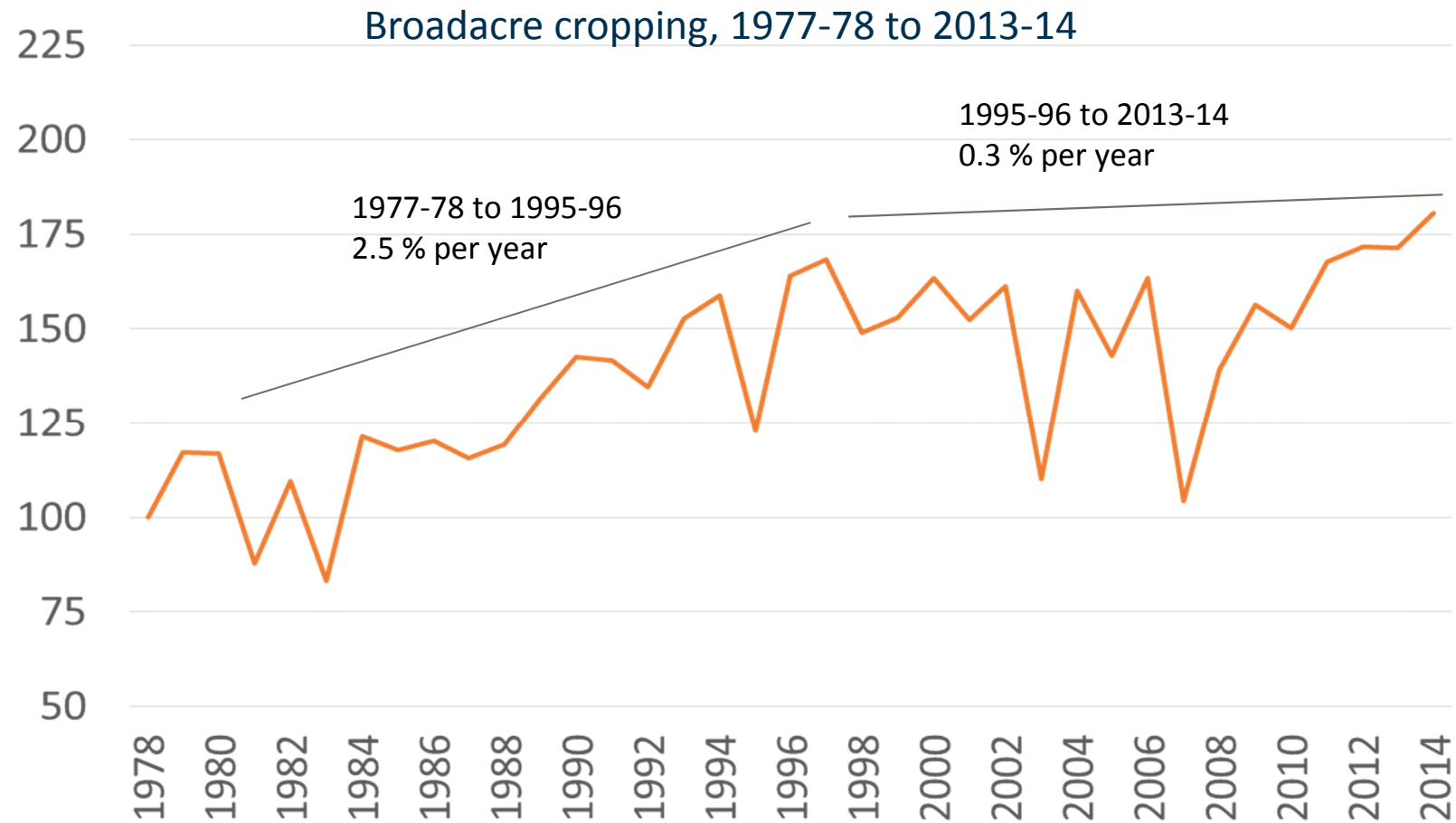


Climate and productivity

Sector snapshot

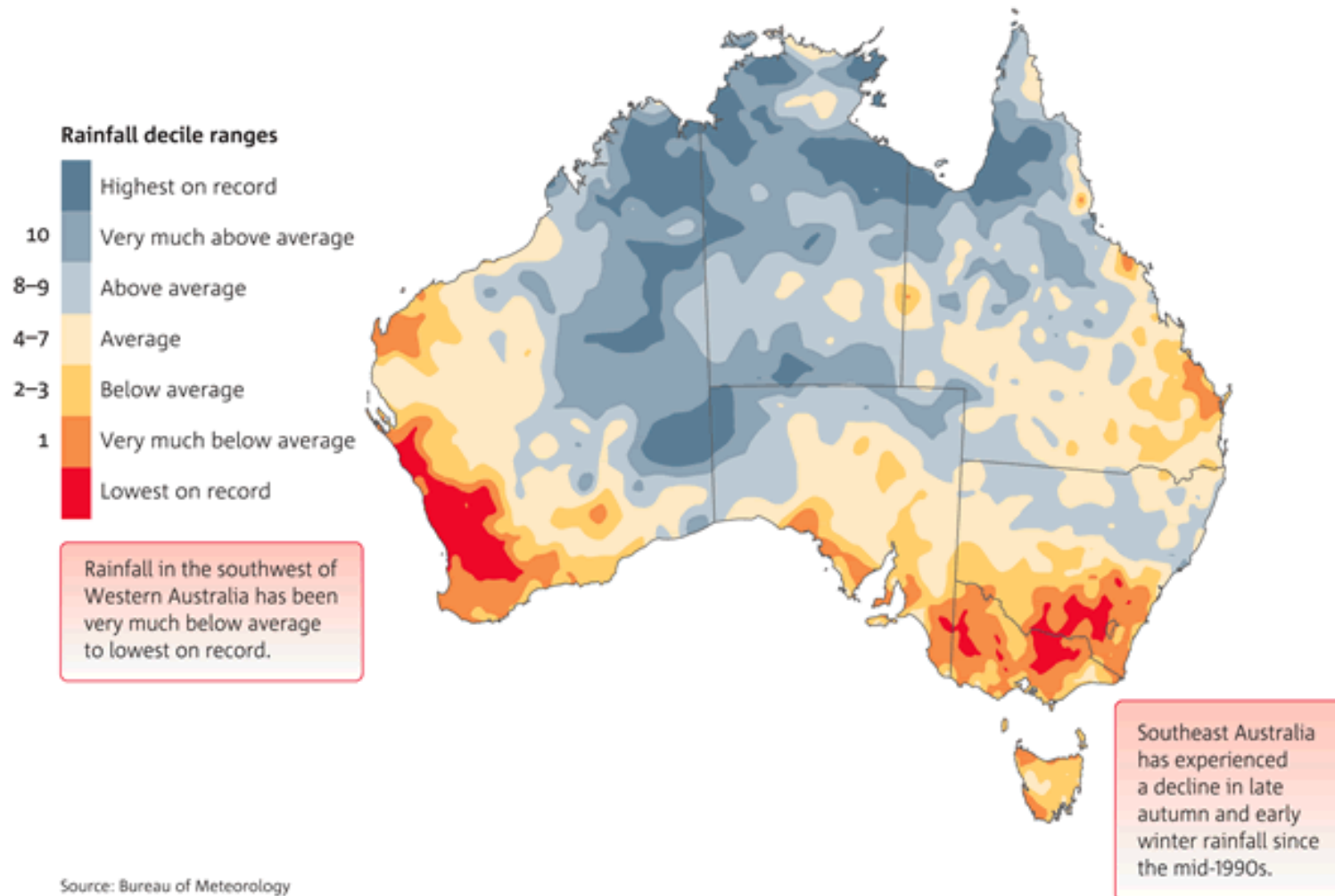
- \$53.8 billion value of farm production
- 2.2% of Gross Domestic Product
- 65% production exported
- Significant employer, particularly in regions
- Growth agenda

Productivity – broadacre crop farms

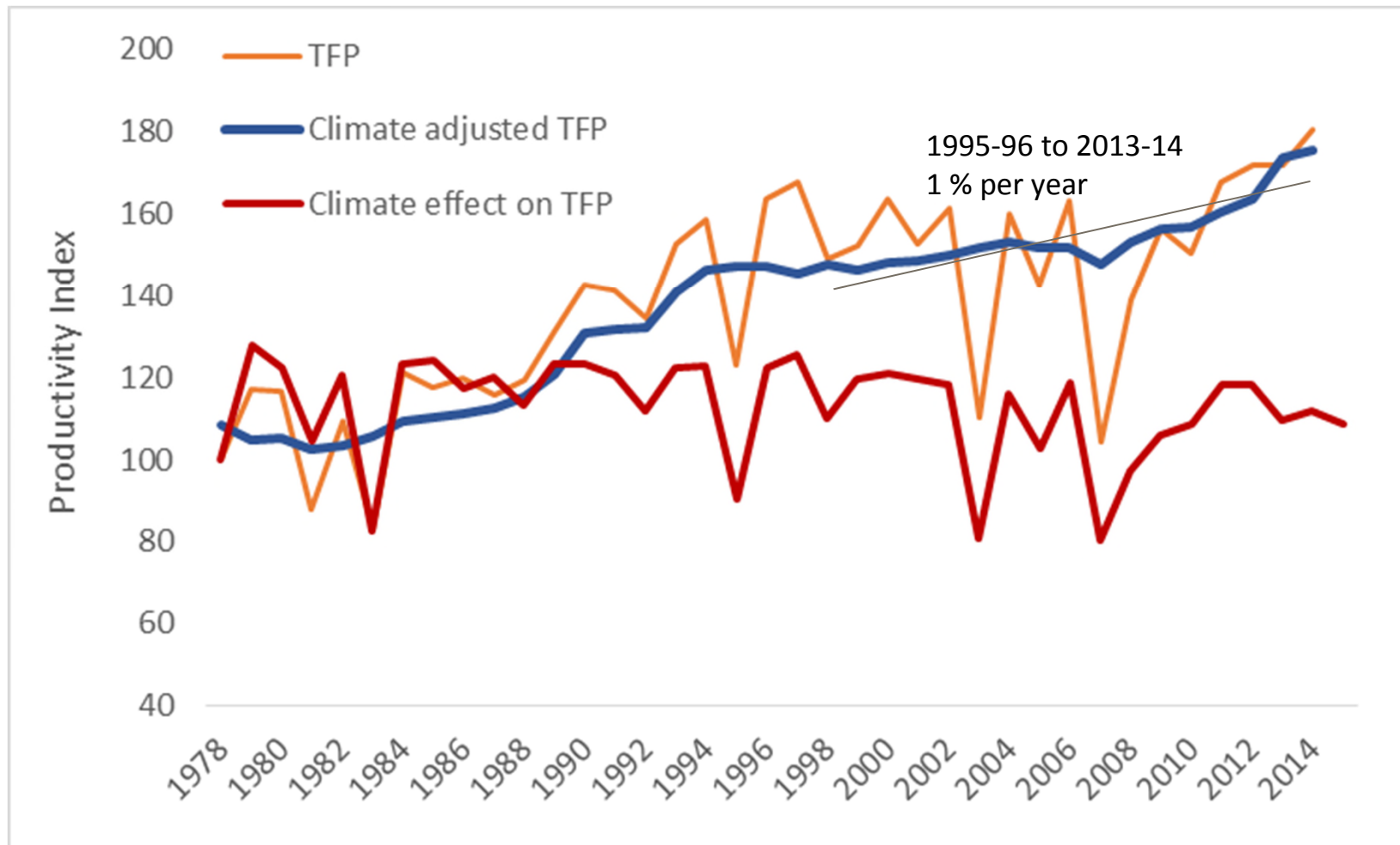


Source: ABARES, 2016

Rainfall observations

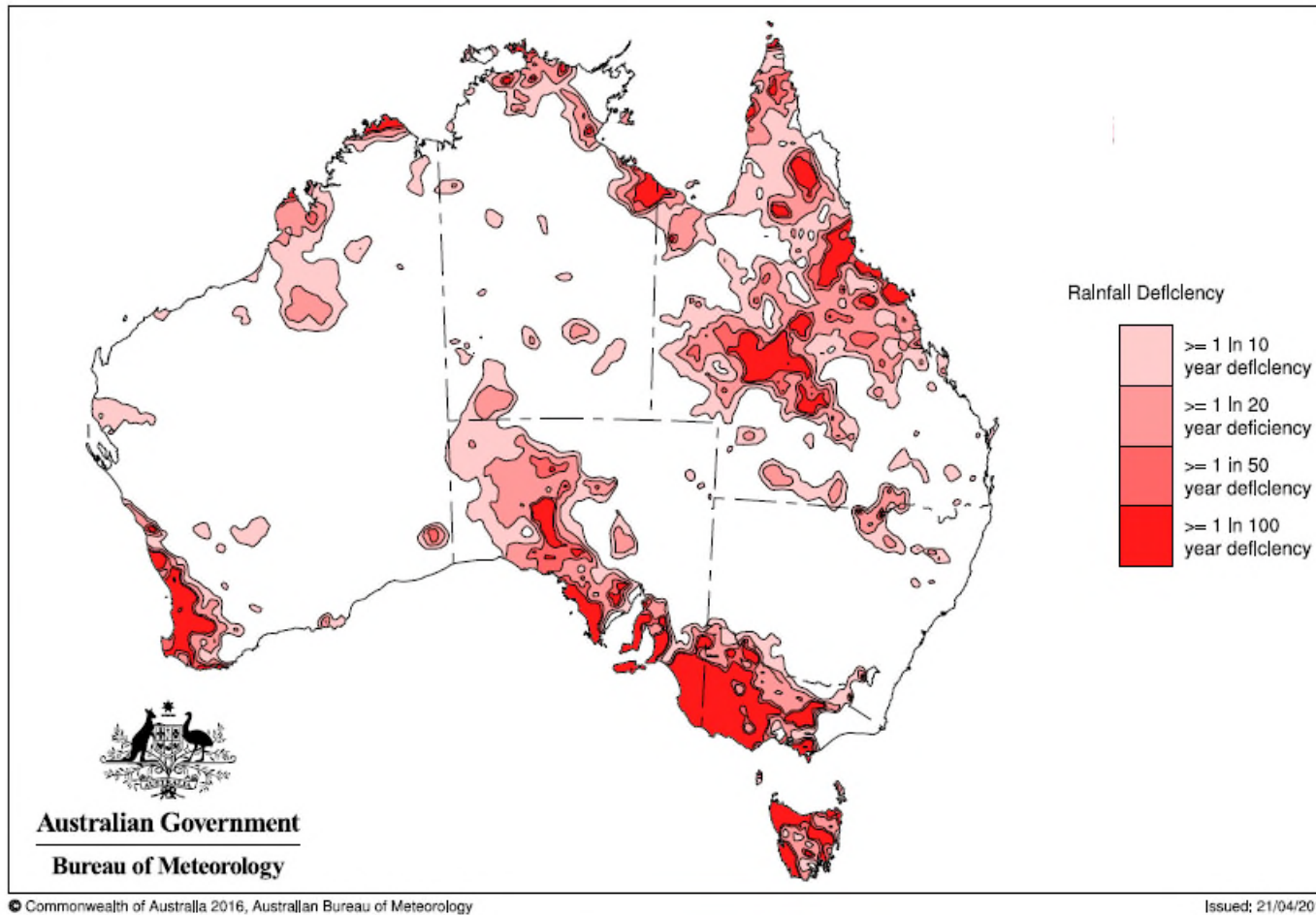


Climate adjusted productivity

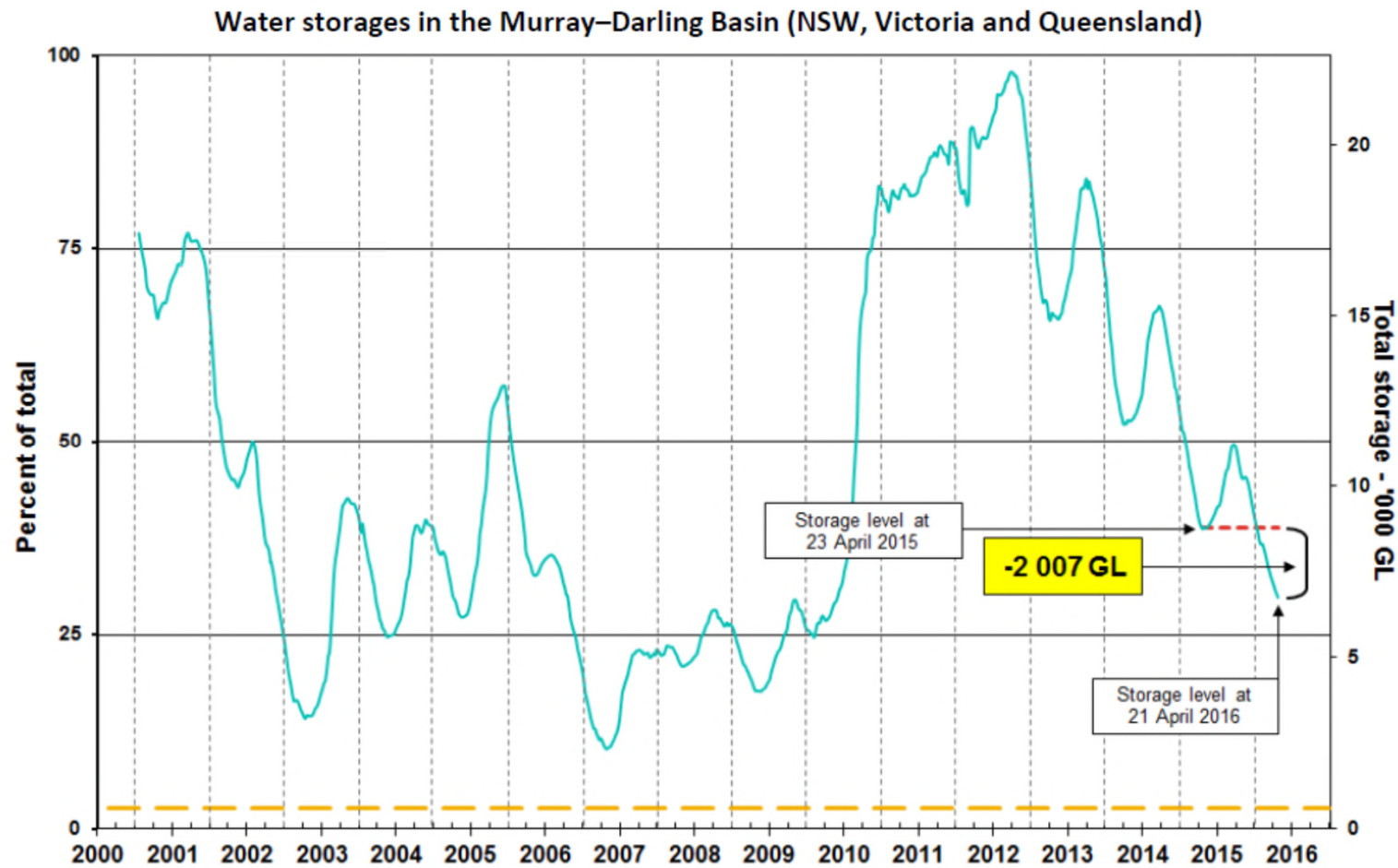


Source: ABARES (2016)

Rainfall deficits in 12 to 24 month periods April 2014 to March 2016

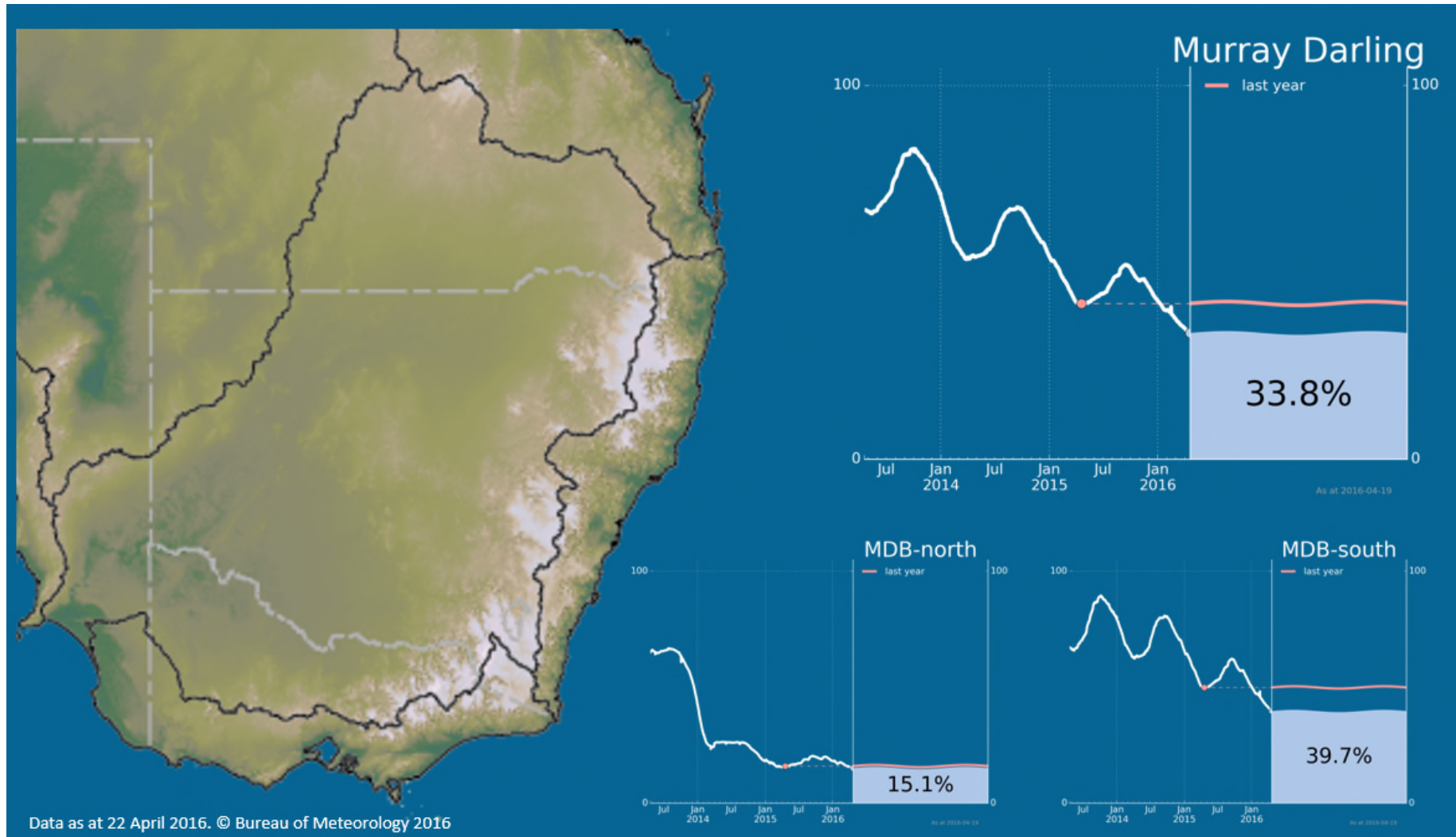


Inflows to the major storages, and storage levels, at record lows

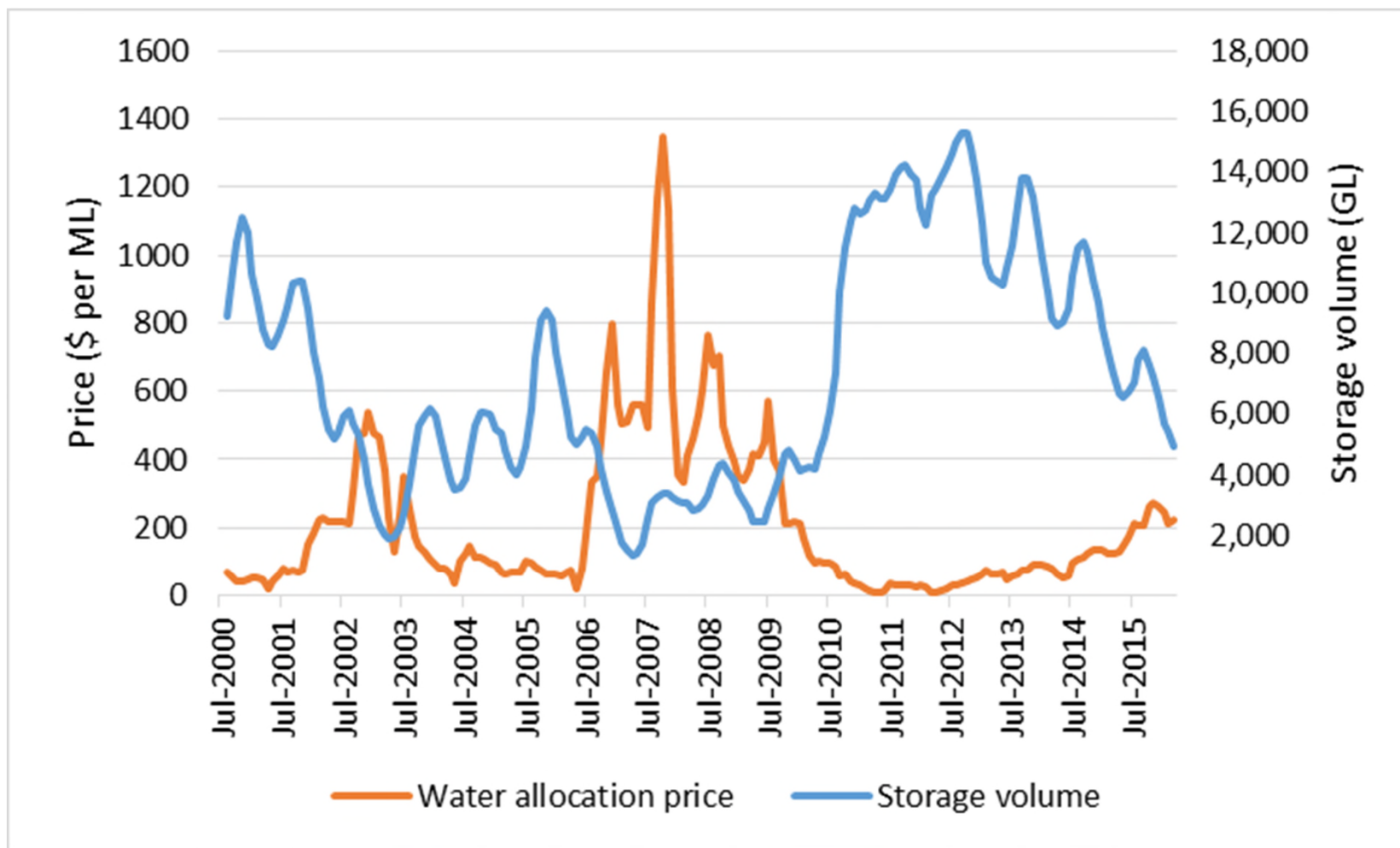


Source: Murray Darling Basin Authority (2016)

Water Storages

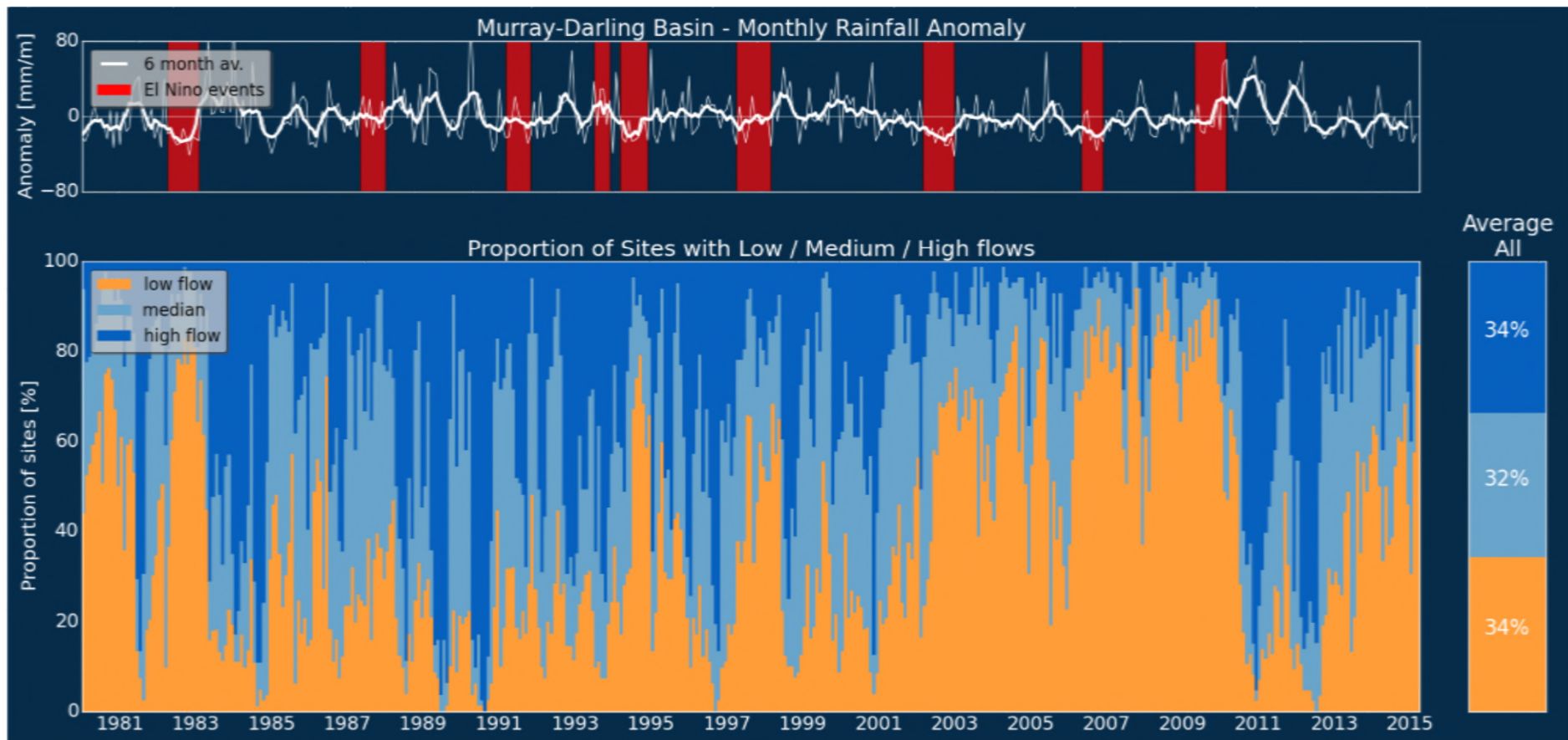


Water Prices and Storage Volumes (sMDB)



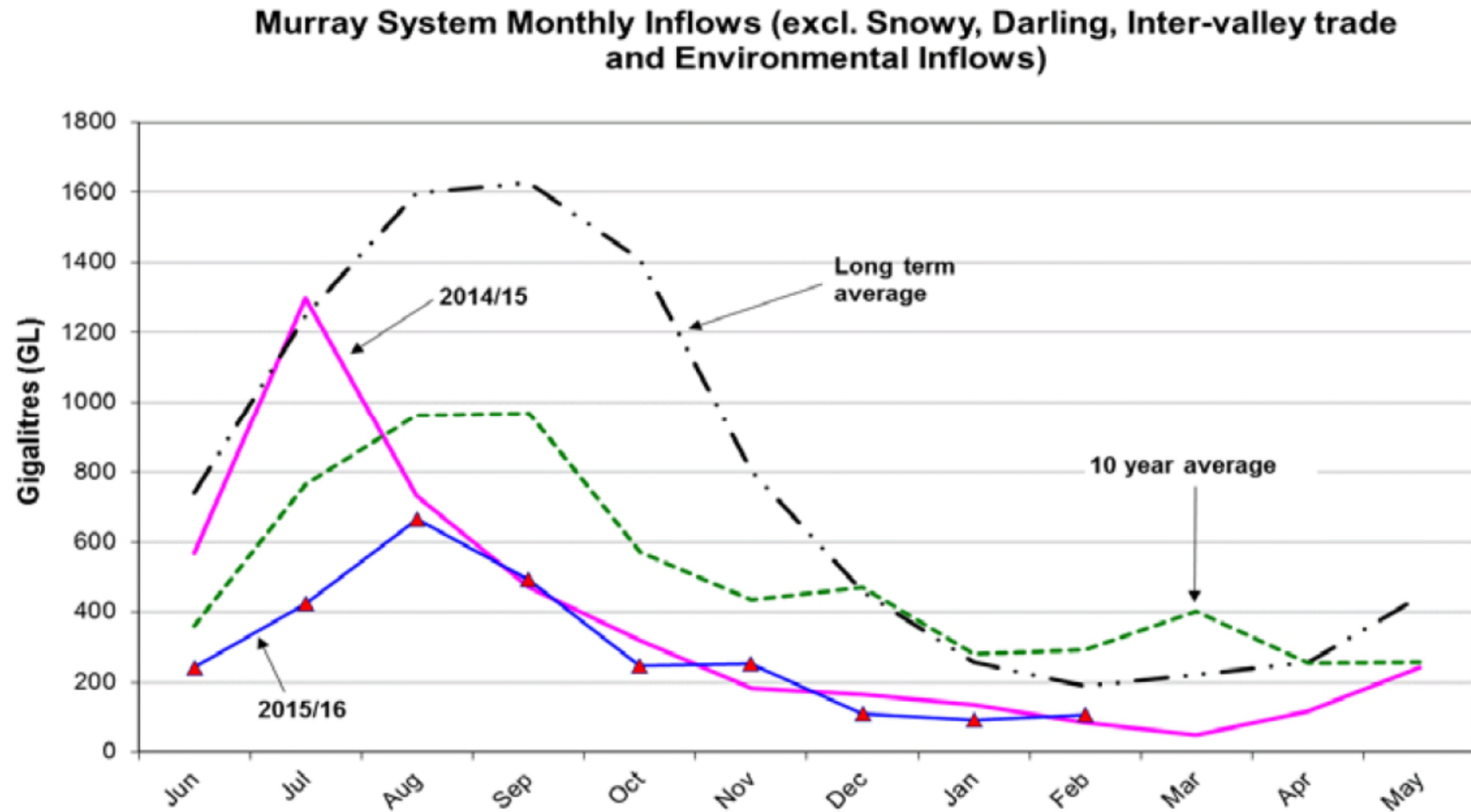
Source: Bureau of Meteorology (2016) and ABARES (2015)

Murray-Darling Basin – rainfall and flows 1981-2015



Source: Bureau of Meteorology (2016)

Historical systems



Source: Murray Darling Basin Authority River Murray Weekly Report for the week ending Wednesday, 20th April 2016

Agriculture and emissions

Total auction results April & November 2015

Emissions Reduction Fund

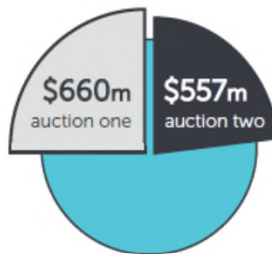


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Contracted **abatement**

92.8 million tonnes

\$2.55 billion
Emissions Reduction Fund



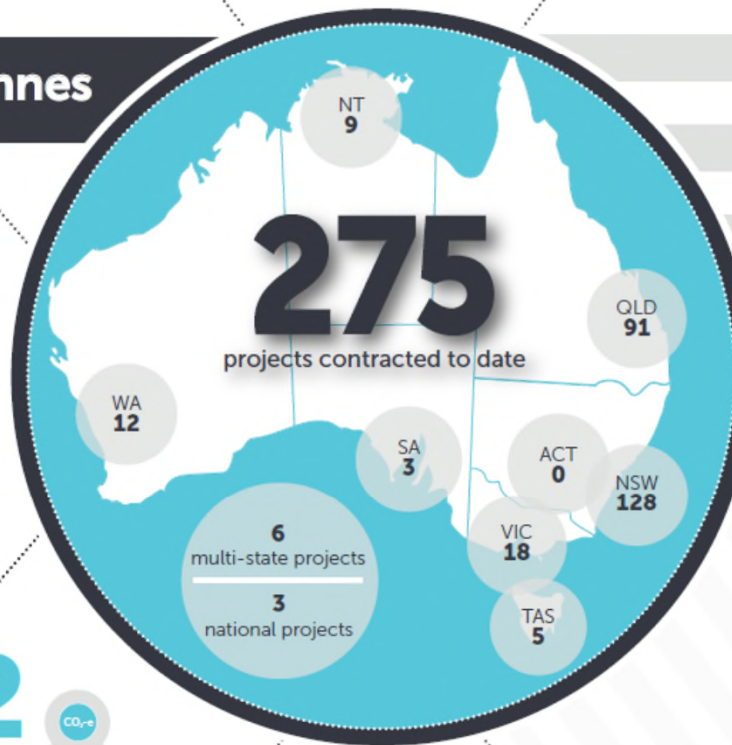
amount contracted

\$13.12

\$13.95 in April / \$12.25 in November

Average price

per tonne of abatement

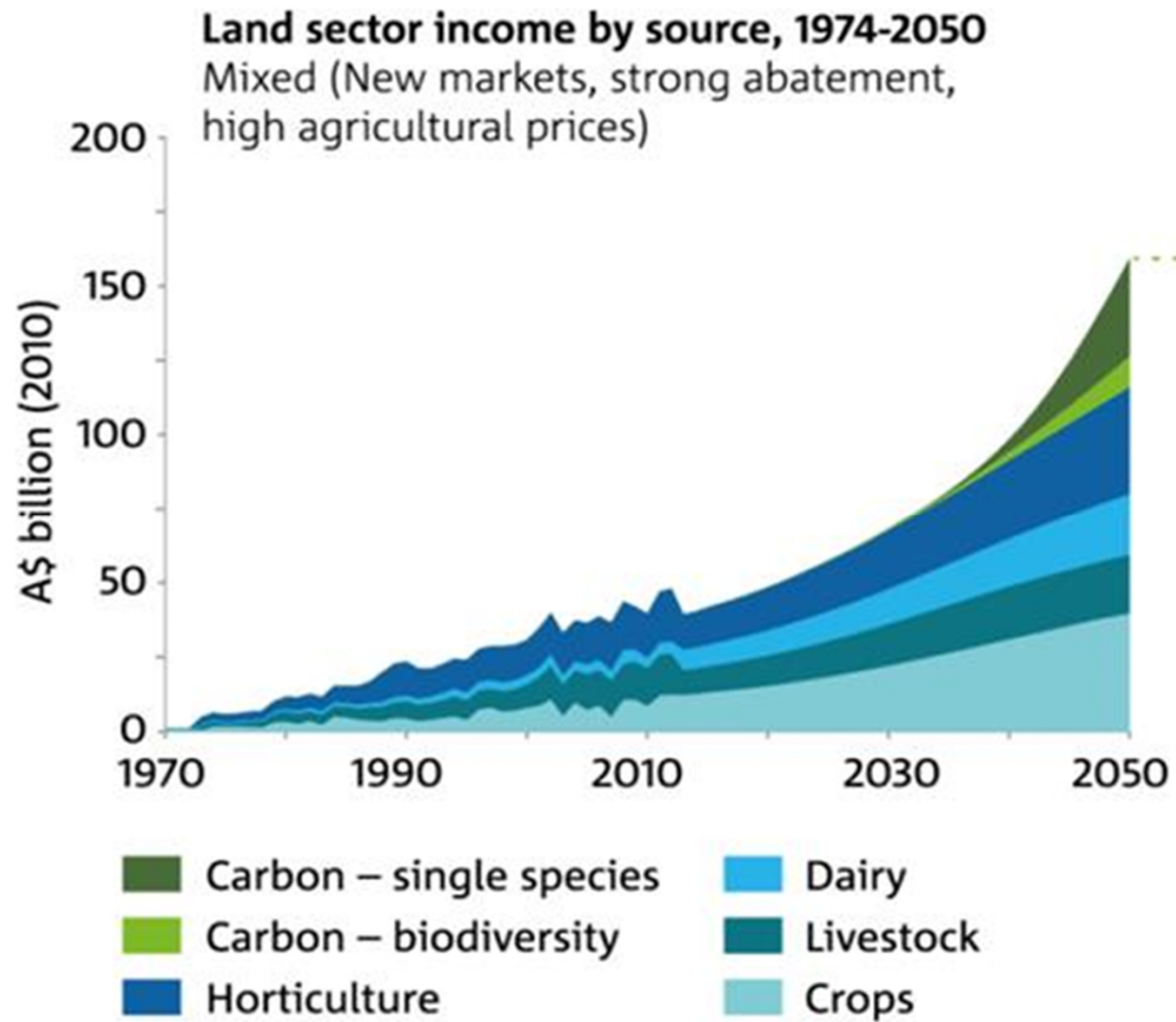


Volume of abatement by method

	Vegetation	51.3 million tonnes
	Landfill and waste	20.4 million tonnes
	Agriculture	8.3 million tonnes
	Savanna burning	7.1 million tonnes
	Energy efficiency	3.7 million tonnes
	Transport	1.2 million tonnes
	Industrial fugitives	0.8 million tonnes

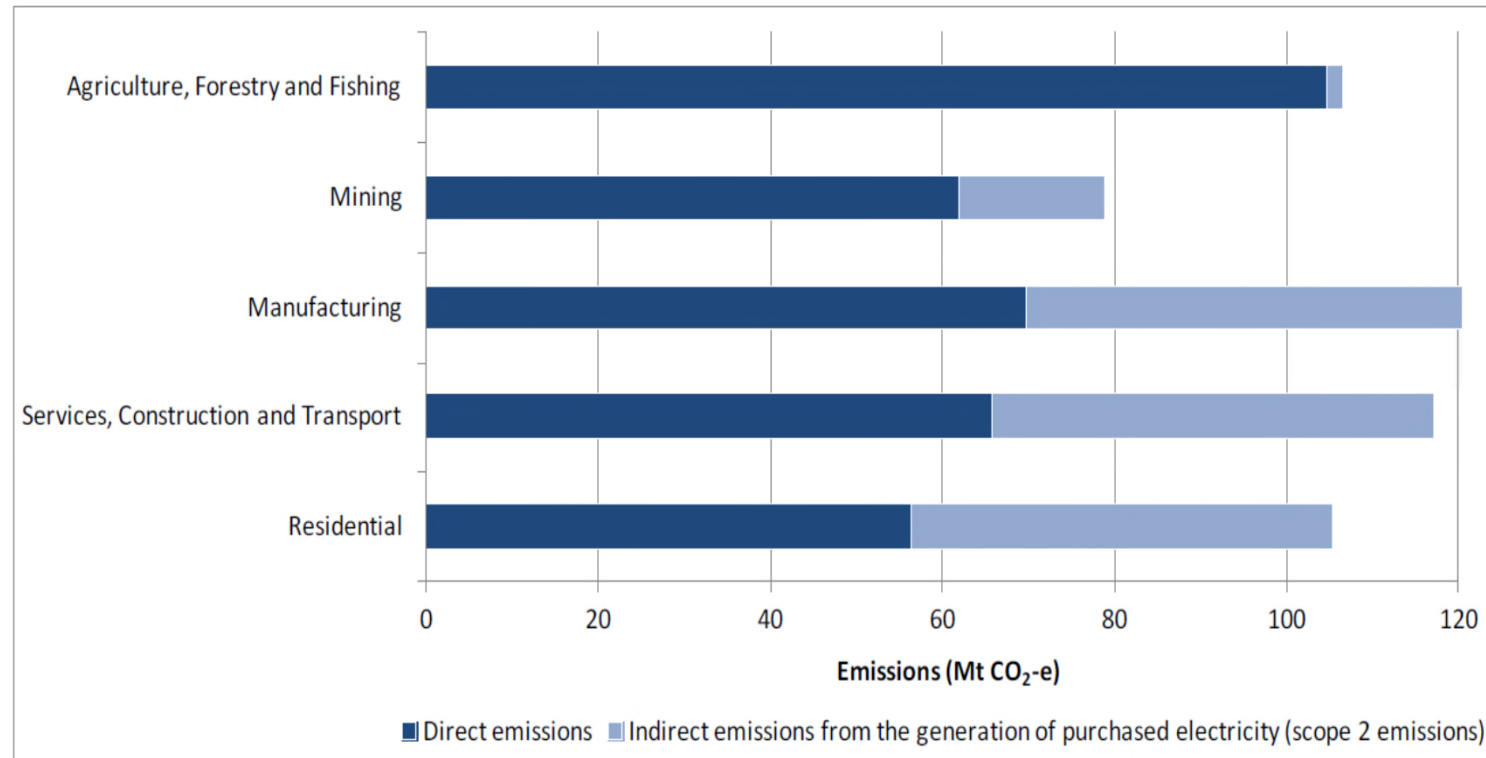
236
total

Contracts **awarded**



Source: CSIRO National Outlook, 2015

National Emissions – by Sector



National Inventory by Economic Sector 2013, Department of the Environment, 2015

RD&E challenges

- Ability to deal with climate variability is part of the productivity challenge for Australian agriculture
- To what extent do practices and systems reflect current and future climate scenarios?
- What are the opportunities and challenges for the sector in a carbon constrained world?