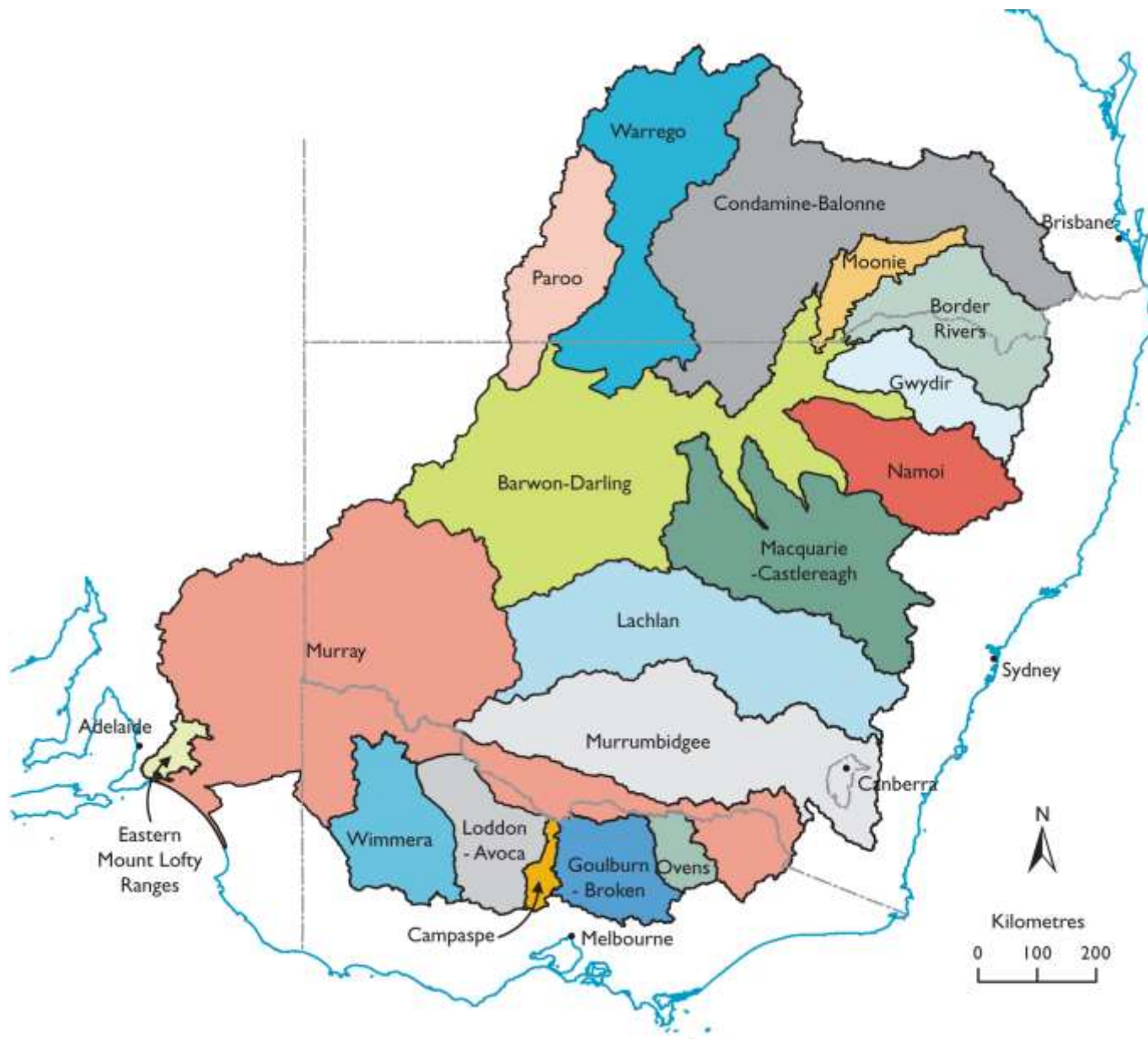
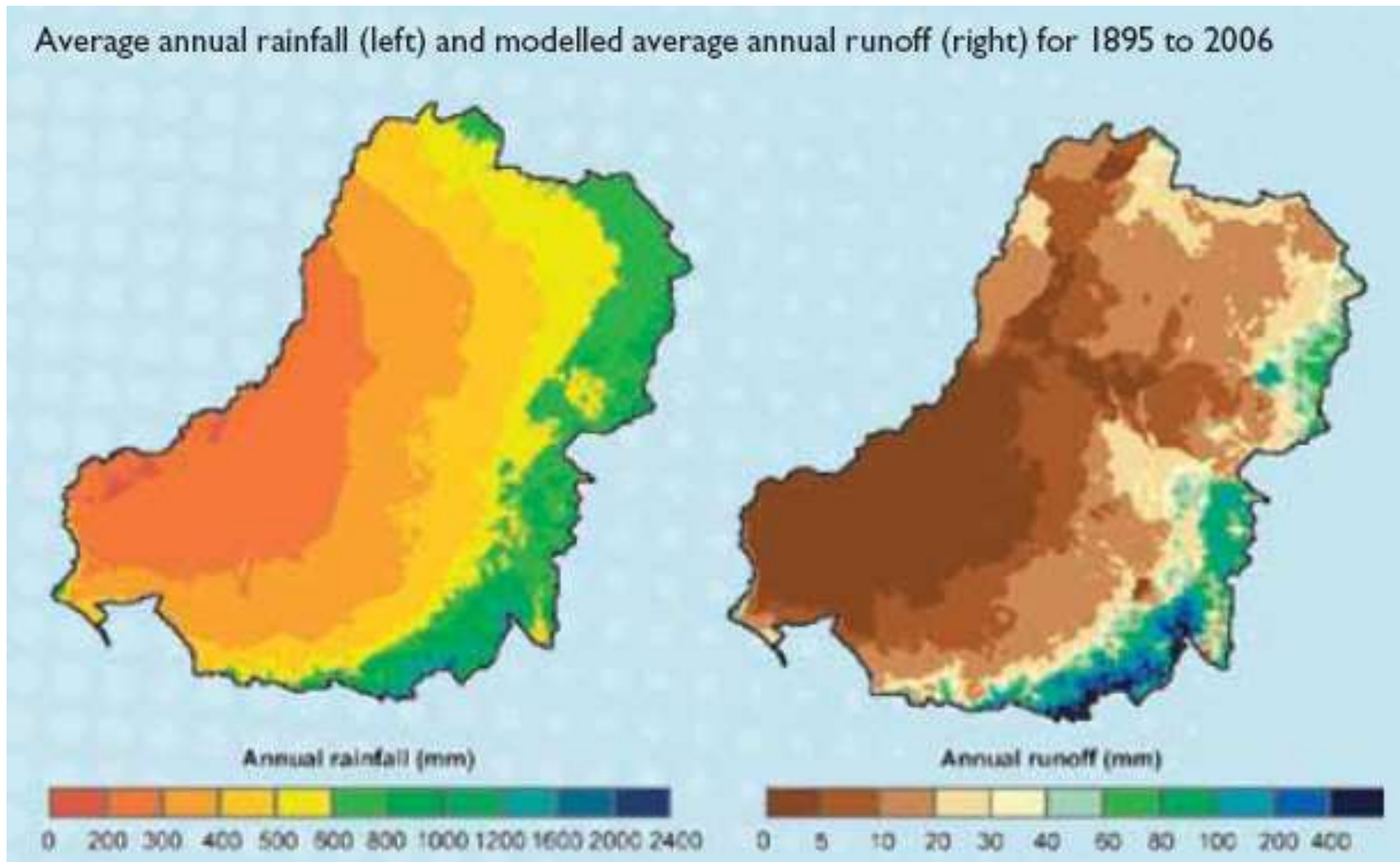


Murray-Darling Basin

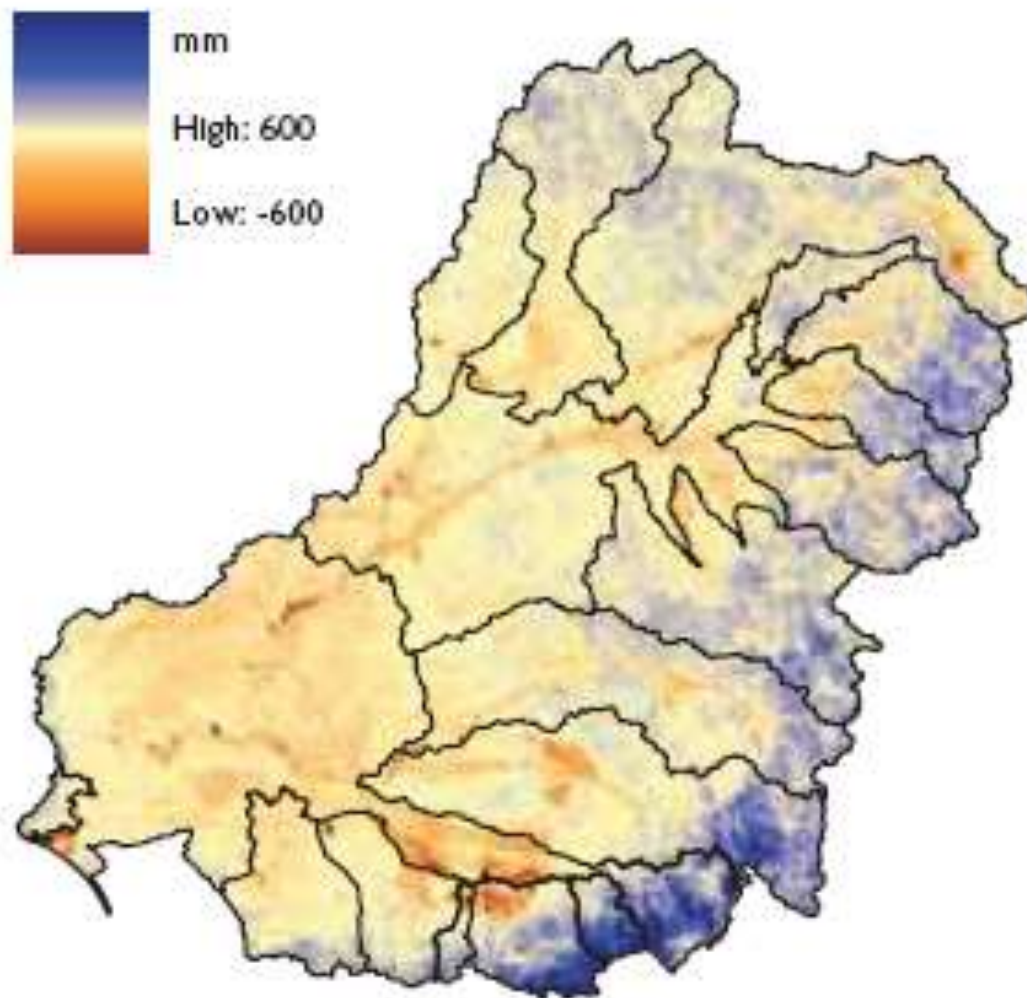


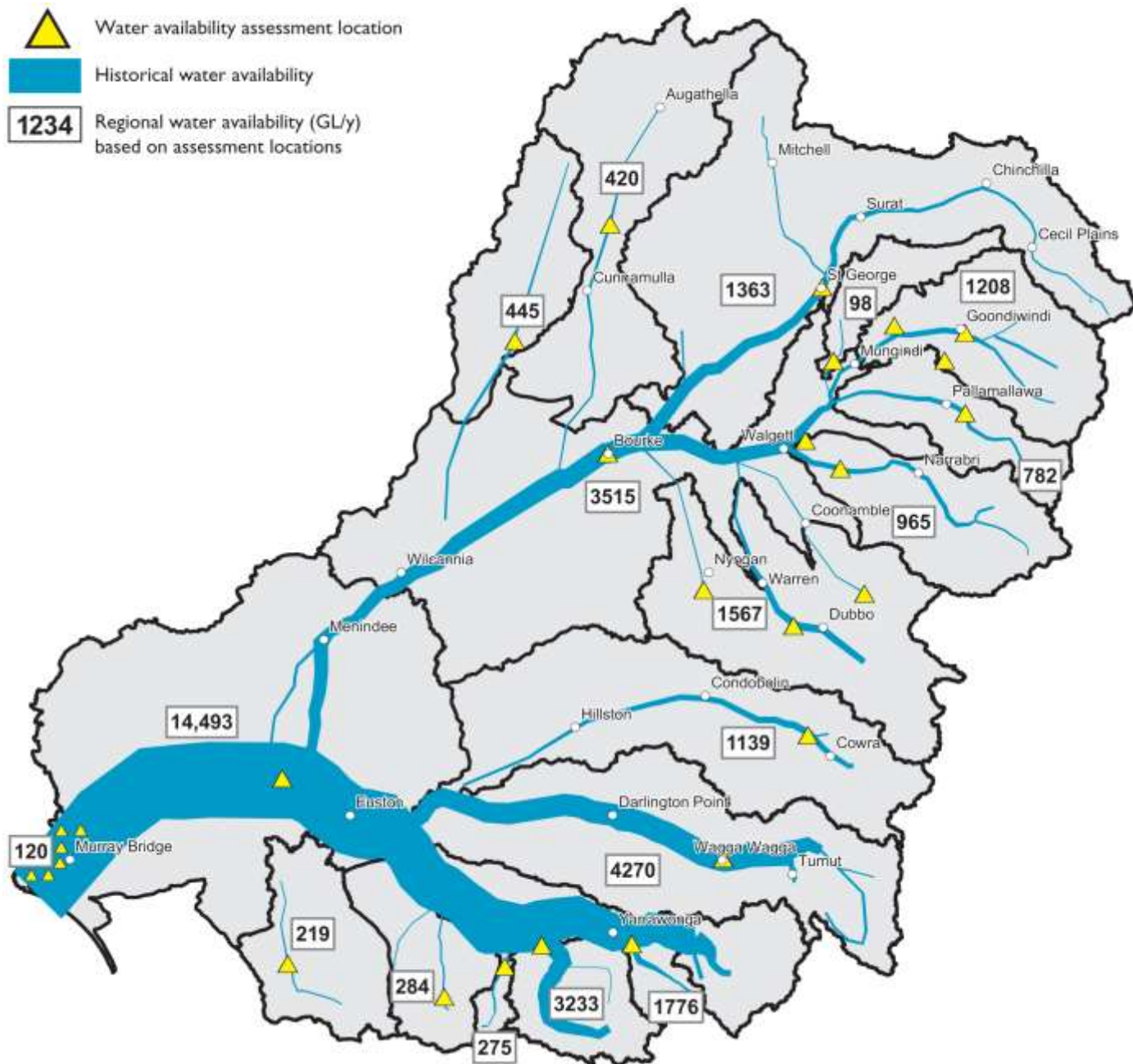


Average annual rainfall (left) and modelled average annual runoff (right) for 1895 to 2006



Annual water balance





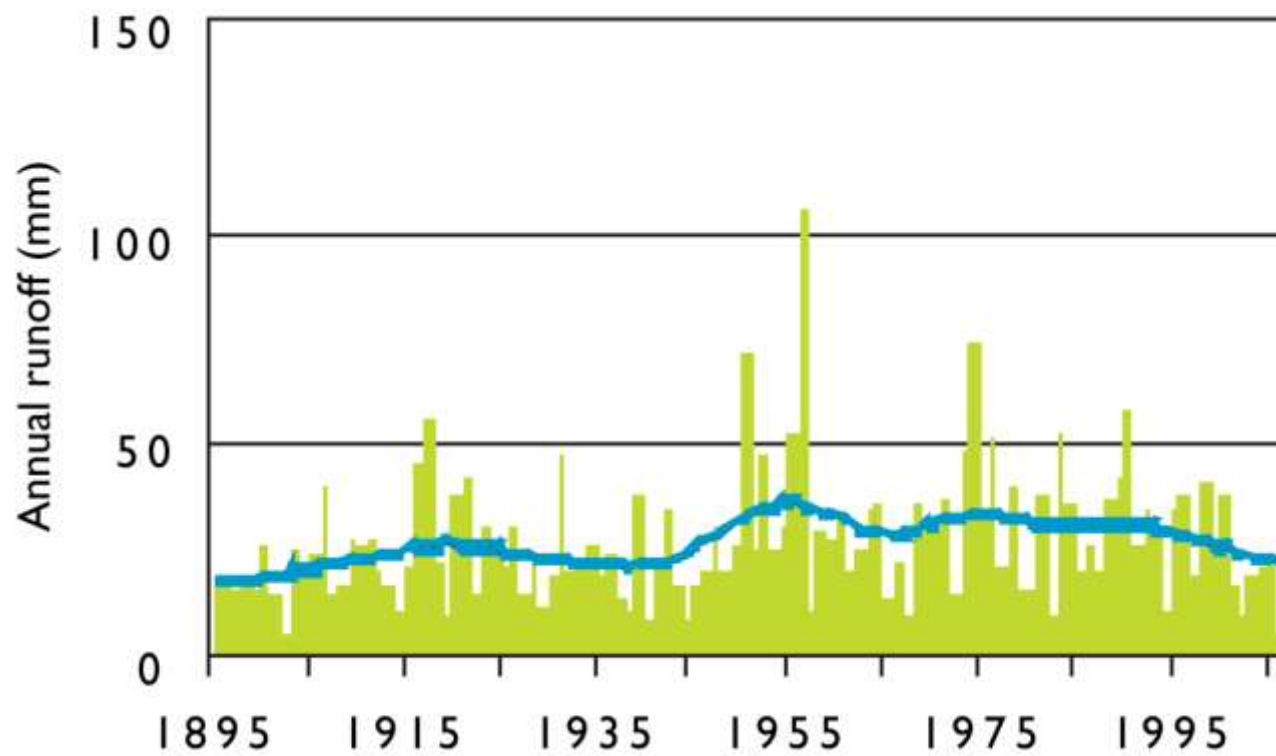




Photo courtesy of Anne Jensen



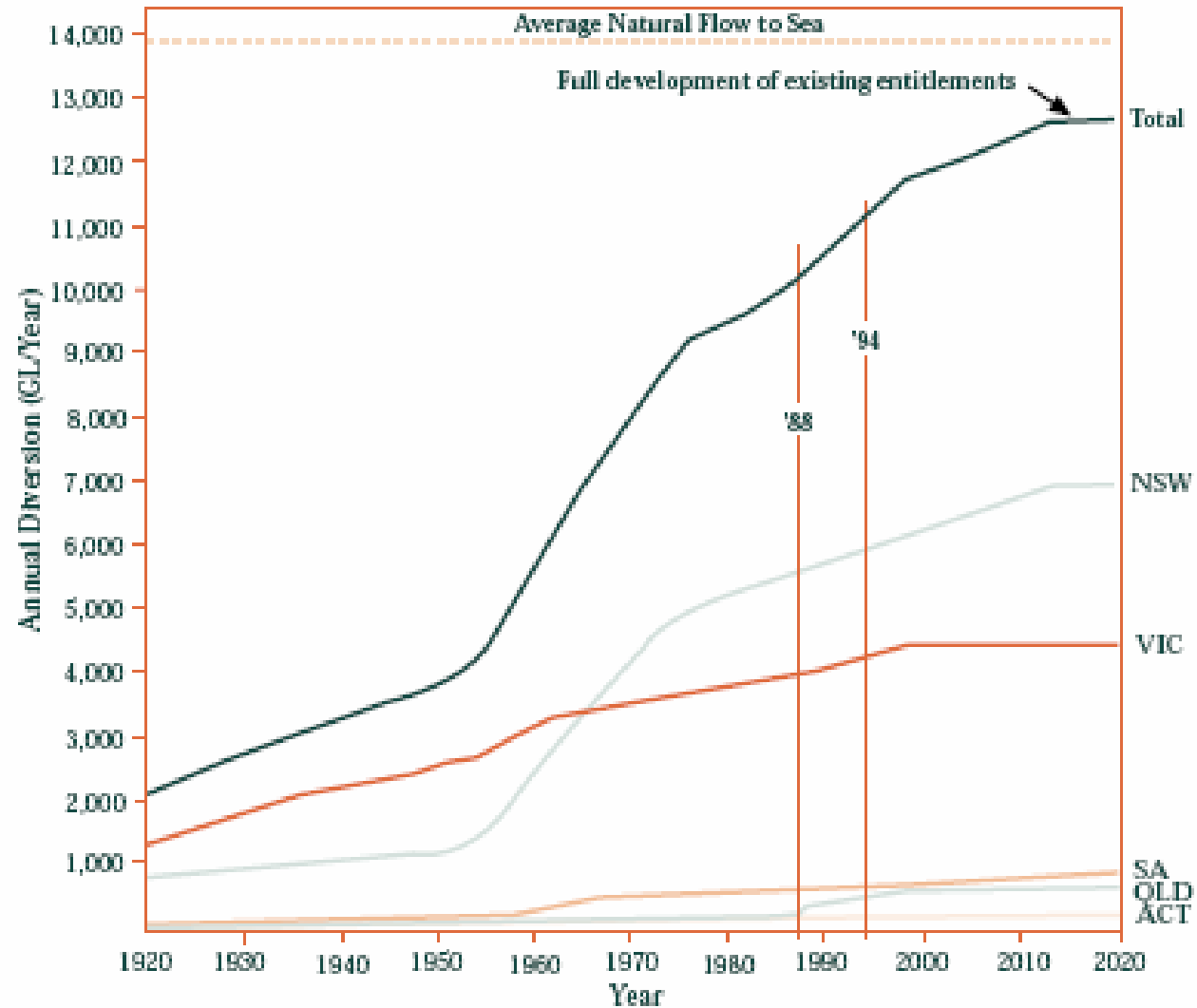
Photo courtesy of Anne Jensen



Photo courtesy of Anne Jensen

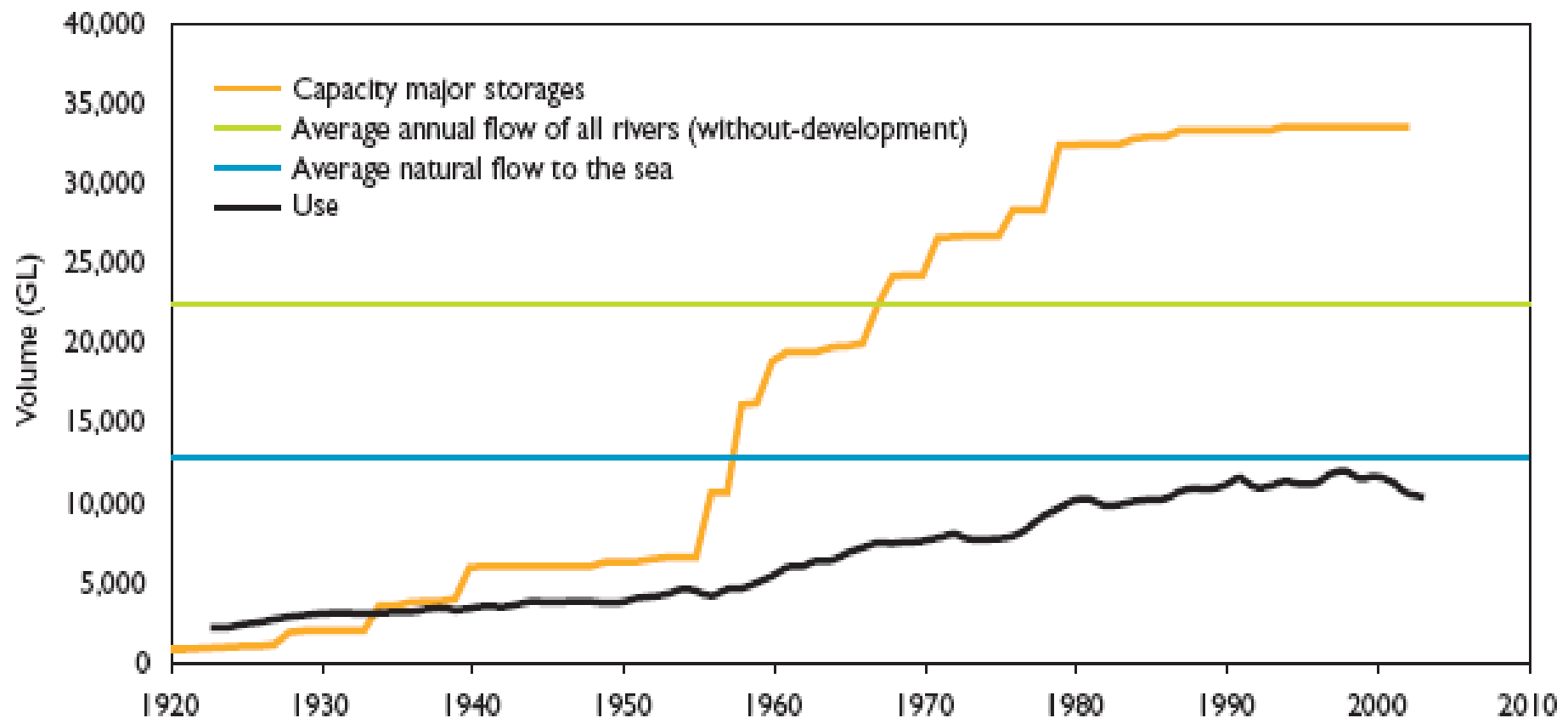


Photo courtesy of Anne Jensen

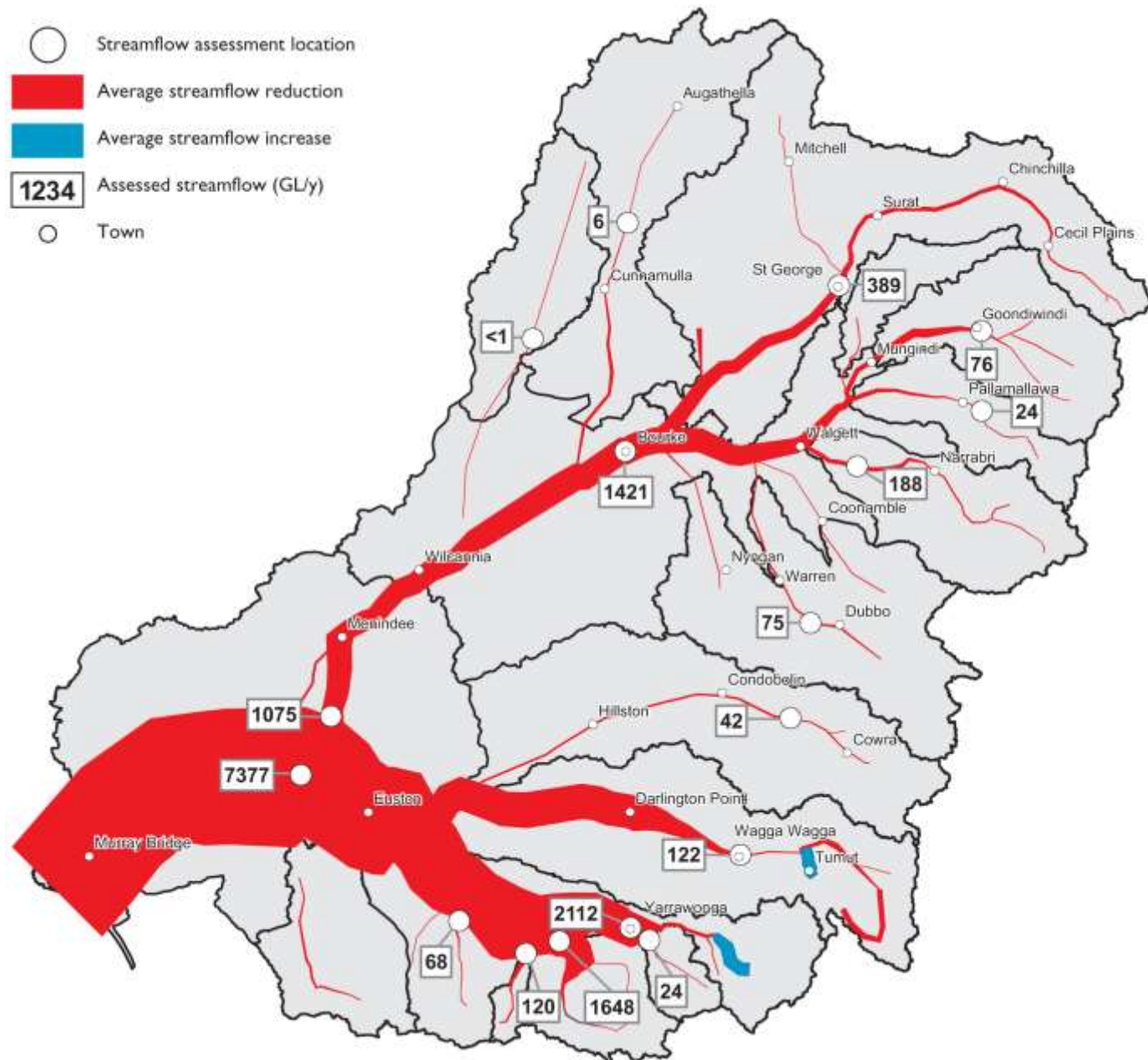


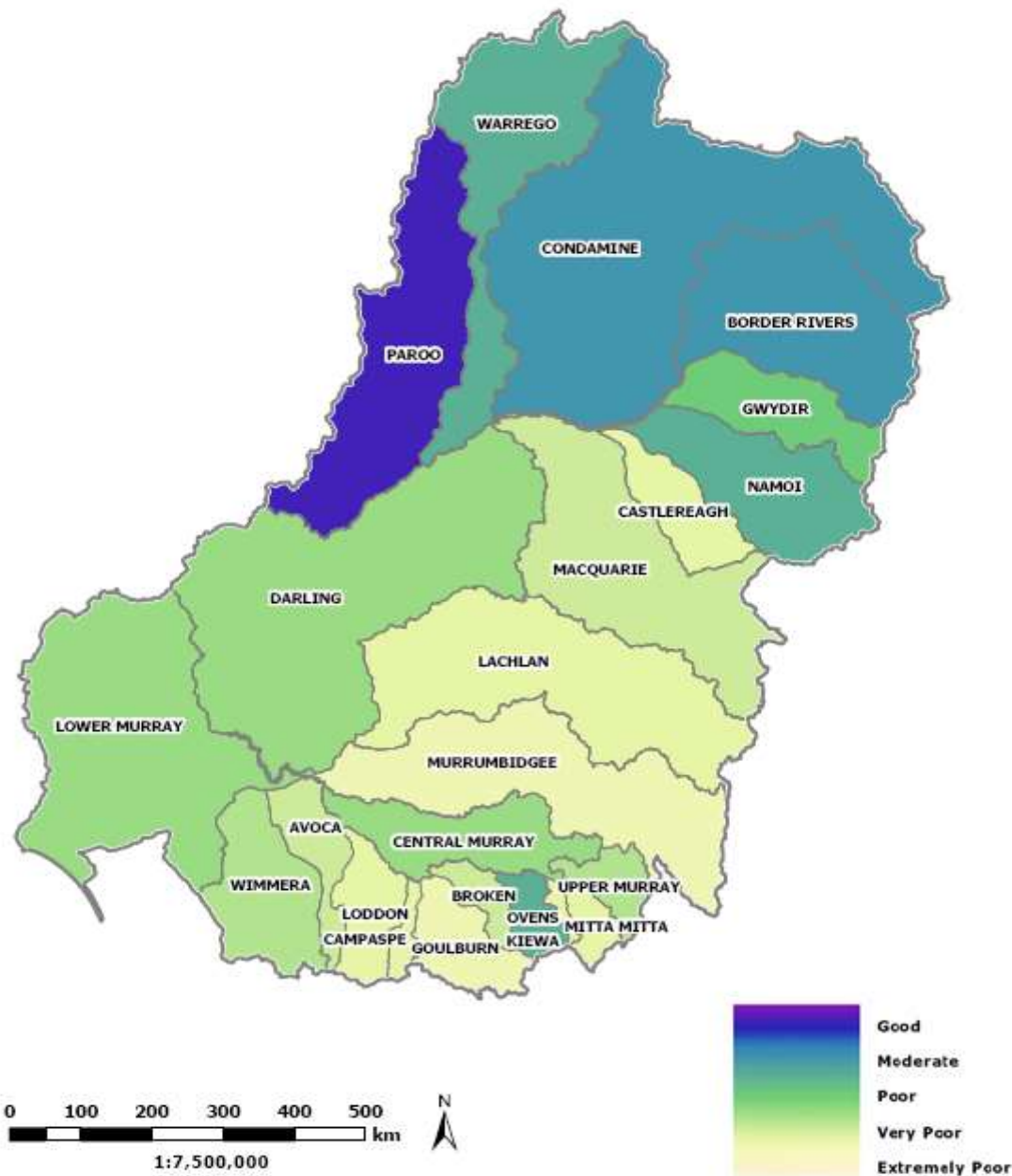
Source: Murray-Darling Basin Commission (2000). Overview Report – Review of the Operation of the cap. MDBC, August 2000

Growth in public storage capacity over the last 80 years compared to total water availability and total surface water use (five-year moving average)



Source: Data from MDBC



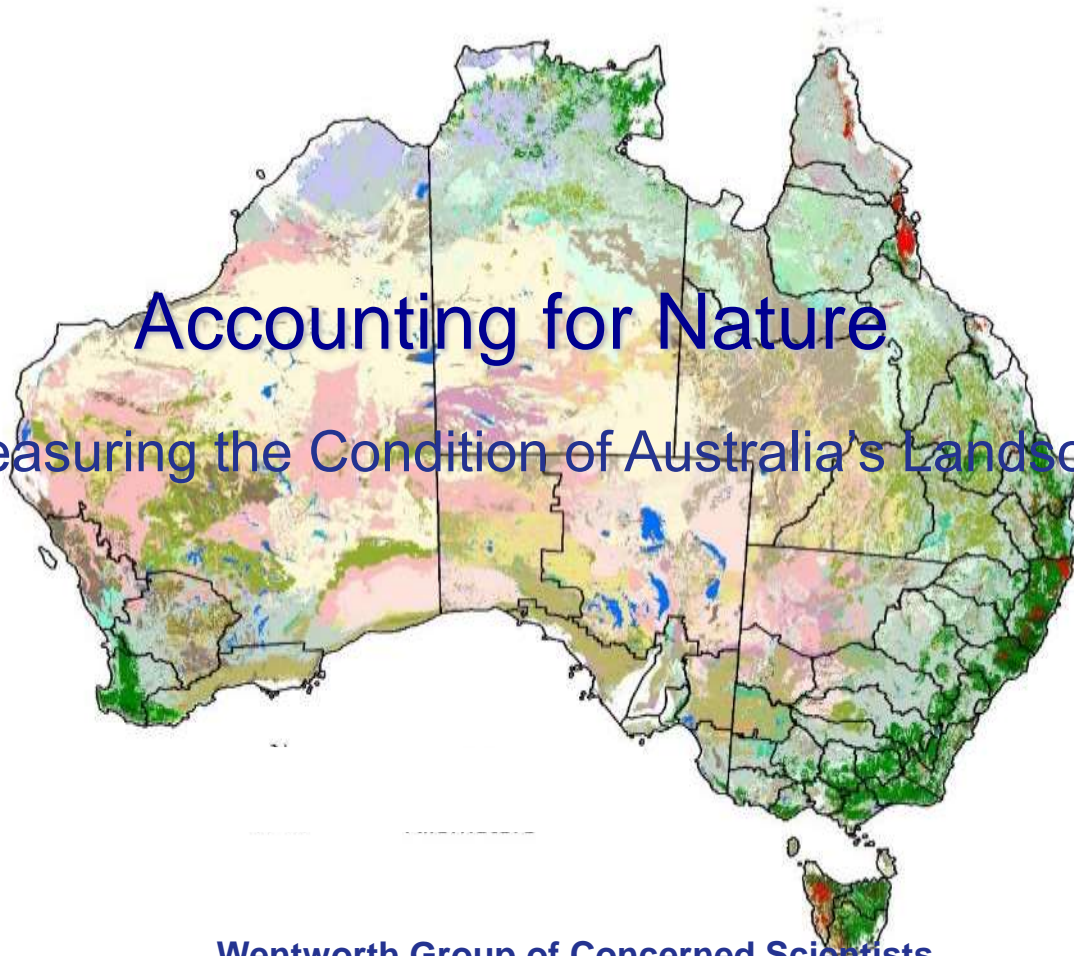


Source: MDBC (2008). Murray-Darling Basin Rivers: Ecosystem health Check, 2004-2007. A summary report based on the Independent Sustainable Rivers Audit groups SRA Report 1: A report on the Ecological Health of Rivers in the Murray-Darling Basin, 2004-2007, submitted to the Murray-Darling Basin Ministerial Council in May 2008.



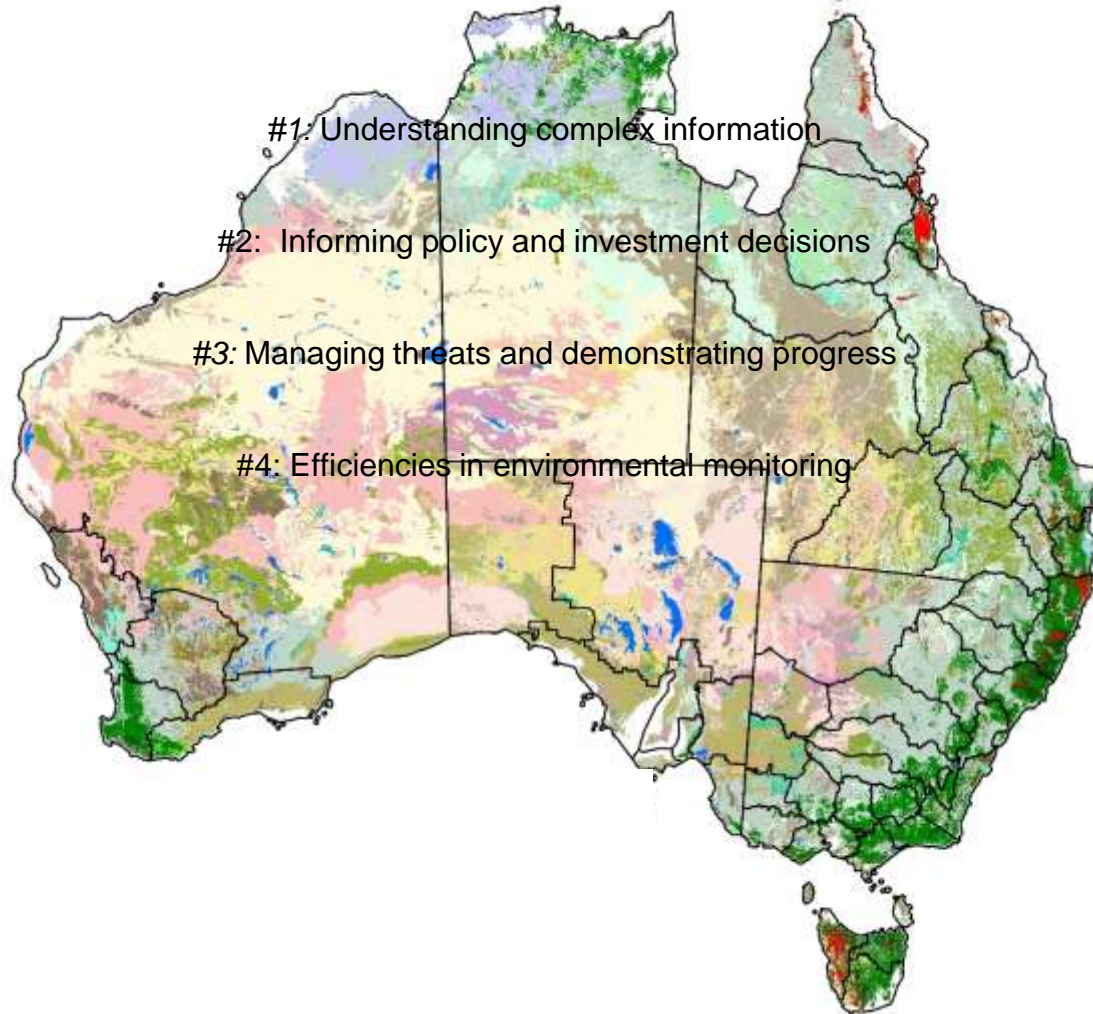
Accounting for Nature

Measuring the Condition of Australia's Landscapes



Wentworth Group of Concerned Scientists

Why do we need environmental accounts?



WENTWORTH GROUP

OF CONCERNED SCIENTISTS

IN ASSOCIATION WITH NRM REGIONS AUSTRALIA

2011 Australian State of the Environment Report

State and trends of vegetation

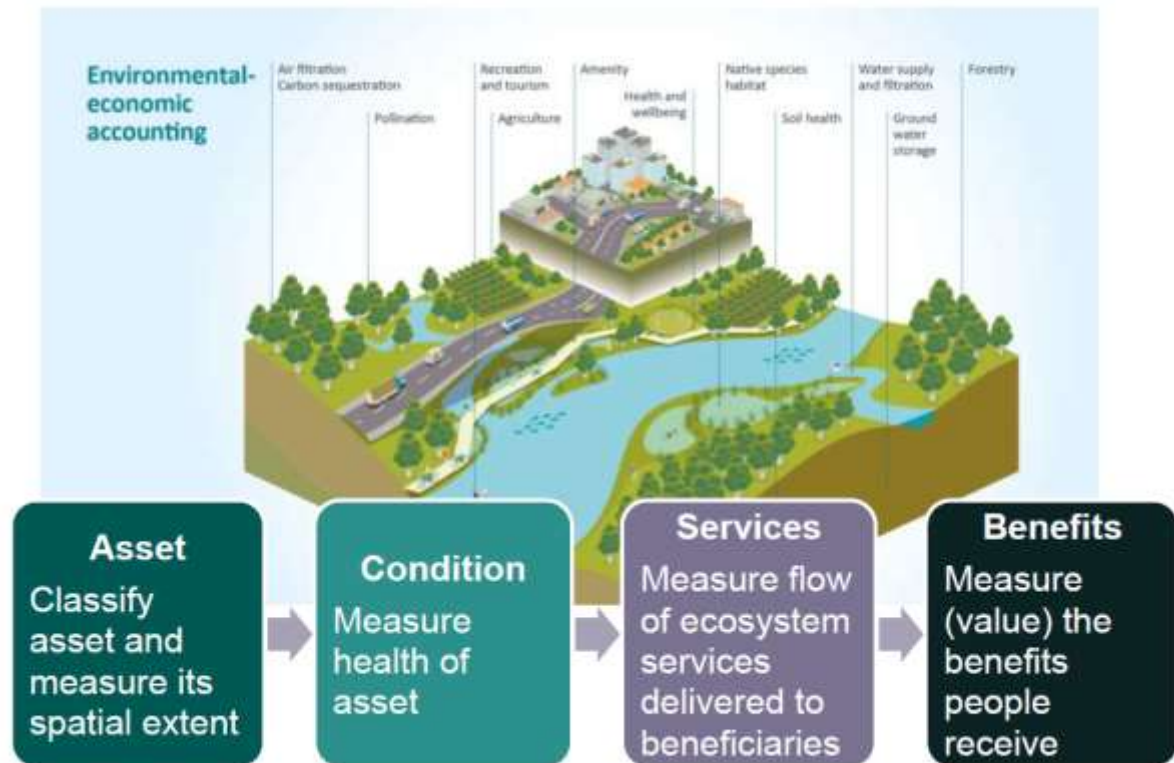
Component	Summary	Assessment grade				Confidence	
		Very poor	Poor	Good	Very good	in grade	in trend
Native vegetation extent—outside intensive land-use zones	More than 90% of the original native vegetation remains in central and northern mainland Australia, and in Tasmania's central highlands and south-west						
Native vegetation extent—within intensive land-use zones	Less than 50% of the original native vegetation remains in most of Australia's major primary production regions, and in many settled coastal regions						
Native vegetation condition—outside intensive land-use zones	Although there are exceptions associated with invasive species or management regimes, the degree of modification of most vegetation outside the intensive land-use zones is relatively small. The proportion of each major vegetation group classified in VAST categories I or II (residual or modified) averages 80%						
Native vegetation condition—within intensive land-use zones	The proportion of each major vegetation group classified in VAST categories I or II (residual or modified) averages 40%						

Accounting for Nature

The International System of Environmental-Economic Accounting History

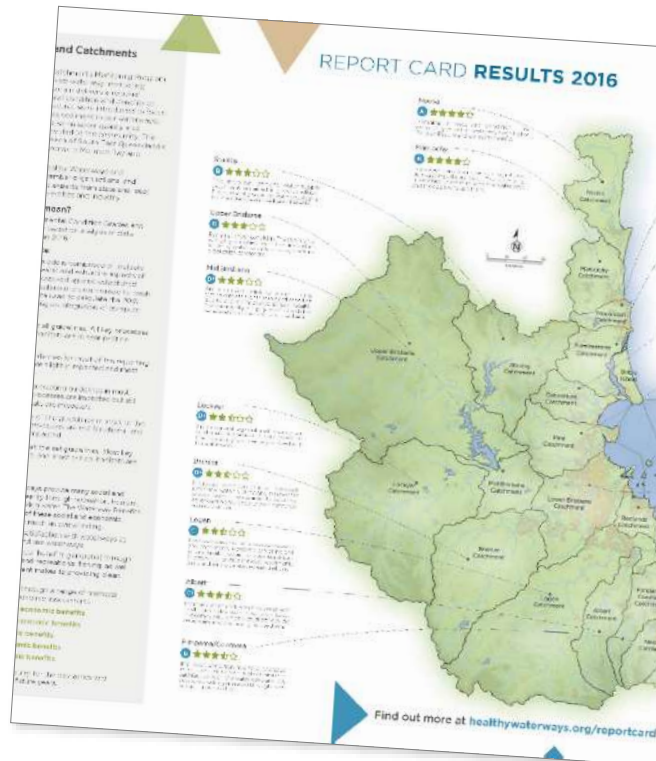
- 1993 – UN Handbook following 1992 Rio conference
- 2003 – Updated handbook (SEEA-2003)
 - showing best practice theory and examples
- 2012 – SEEA Central Framework
 - Adopted as an international standard in February 2012
- 2013 – SEEA Experimental Ecosystem Accounts

For more information go to:
<http://unstats.un.org/unsd/envaccounting/seea.asp>



Source: DELWP

Healthy Land & Water Report Card



Every region - Every major asset - Every year

Accounting for Nature

"If you don't measure it, you can't manage it"

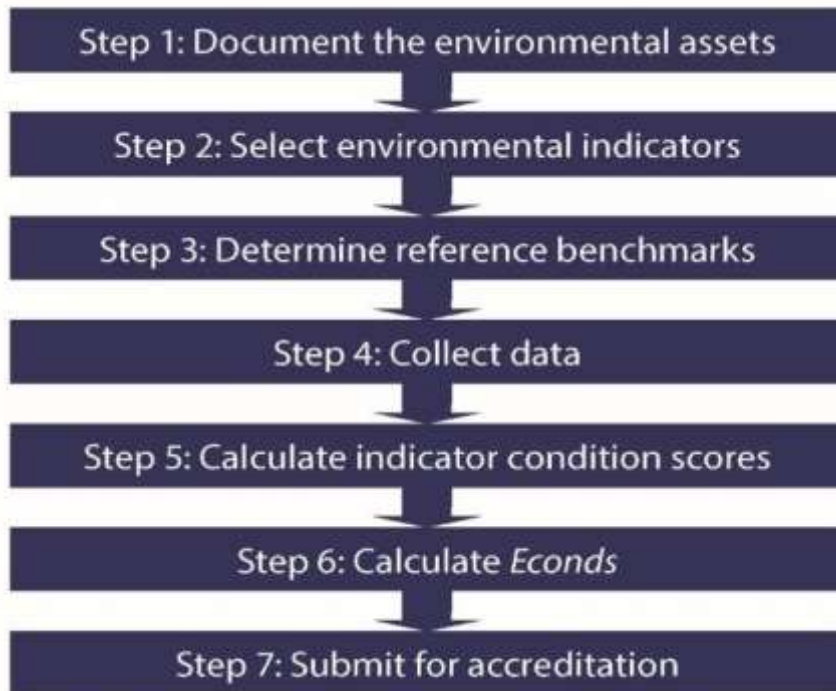



Features:

- Scale independent
- Environmental asset-based
- Constructs an index of condition common to all environmental assets (an *Econd*)
- Scientifically accredited against national standards

Methodology

“ Everything should be as simple as possible, but no simpler.”

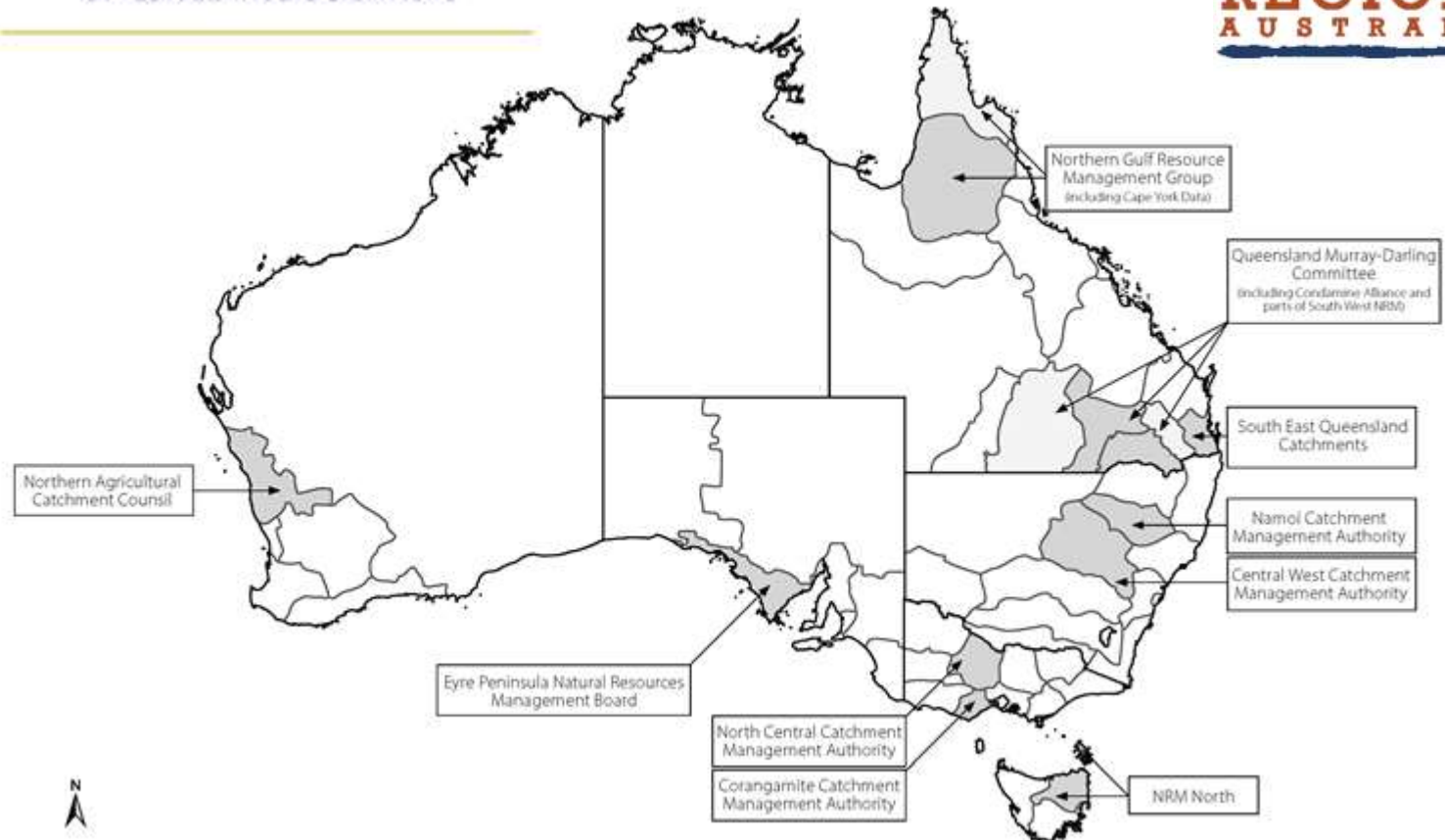


Asset (See Step 1)	Indicator (See Step 2)	Reference Benchmark (See Step 3)	Data (See Step 4)	Indicator Condition Score (See Step 5)	Econd (See Step 6)
NATIVE VEGETATION ASSET ACCOUNT - FYRE PENINSULA, SOUTH AUSTRALIA - 2012					
					
Asset Category	Indicator of Asset Condition (unit of measure)	Reference Benchmark	Condition Measure	Indicator Condition Score	Econd
Fyre Peninsula Property		5,410 - 11.9		20	21.0
Arid & semi-arid acacia low open woodlands & shrublands with chenopods					
	Extent (Ha)	100,000	165,43	45	
	Composition (index)	100	60	60	
	Configuration (index)	100	47	47	
Arid & semi-arid hummock grasslands					11
	Extent (Ha)	23,320	5,012	21	
	Composition (index)	100	60	60	
	Configuration (index)	100	47	47	
Calluna forests & woodland					
	Extent (Ha)	23,320	17,094	75	
	Composition (index)	100	63	63	
	Configuration (index)	100	48	48	

Regional Australian trial: 2011-2015

WENTWORTH GROUP
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Accounting Tables

REGIONAL ASSET ACCOUNT SEQ CATCHMENTS, QUEENSLAND											
Summary Table											
Class	Asset	Econd & ICS	2003	2004	2005	2006	2007	2008	2009	2010	2011
LAND	Native Vegetation	Econd				29					
		Extent (Ha)				53					
		Composition (index)									
		Configuration (rank)				53					

ESTUARIES ASSET ACCOUNT SEQ CATCHMENTS, QUEENSLAND											
Asset Table: Freshwater > Estuaries											
Class	Indicator (unit)	Reference Benchmark	2009		2010		2011				
			Measure	ICS	Econd	Measure	ICS	Econd	Measure	ICS	Econd
Total					39			41			41
Albert River estuary					22			18			20
	Physical/chemical index (%)	100	15.2	15		9.2	9		12.4	12	
	Biological Health Rating (%)	100	29.2	29		29.2	29		29.2	29	
	Foreshore / riparian habitat extent (km)	32.2	15.5	48		15.5	48		15.5	48	
Premer River estuary					22			21			22
	Physical/chemical index (%)	100	15.2	15		13.0	13		14.2	14	
	Biological Health Rating (%)	100	33.3	33		33.3	33		33.3	33	
	Foreshore / riparian habitat extent (km)	34.8	15.3	44		15.3	44		15.3	44	

MARINE		Dugong	Biological Health Rating (%)	Physical/chemical index (%)	ESTUARIES ASSET ACCOUNT SEQ CATCHMENTS, QUEENSLAND			
		Ecod	Dugong population	Physical/chemical index (%)				
				Biological Health Rating (%)				
				Foreshore / riparian habitat				
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Native Vegetation

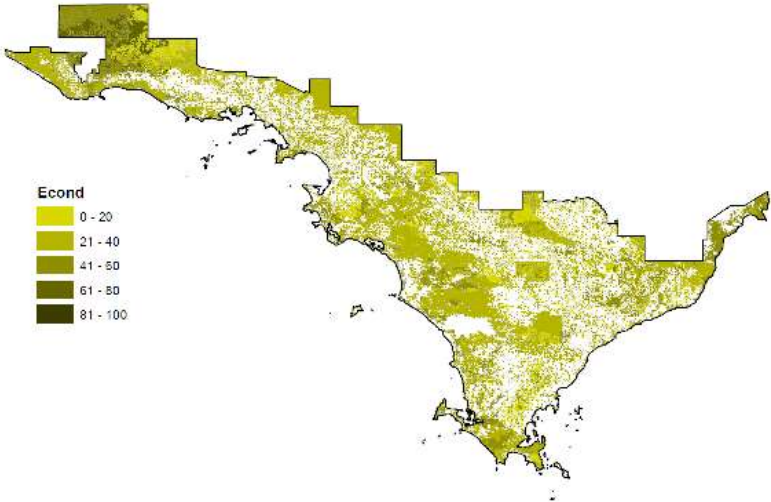
Eyre Peninsula, South Australia



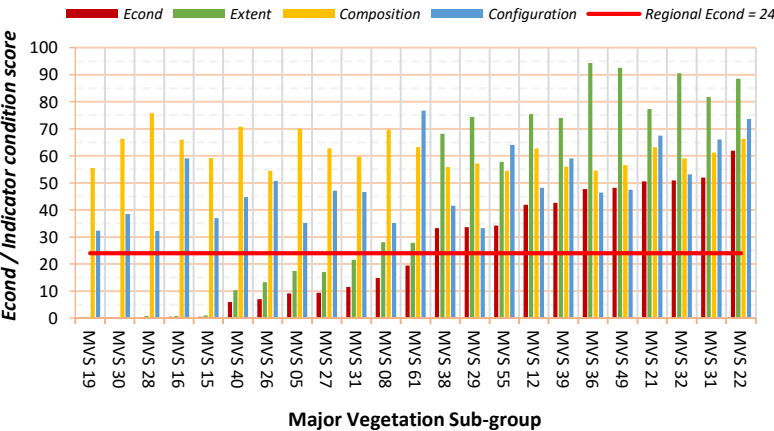
Native Vegetation Account

NATIVE VEGETATION ASSET ACCOUNT, 2012 EYRE PENINSULA, SOUTH AUSTRALIA					
Asset Table: Land > Native Vegetation					
Class (Major vegetation subgroup MVS)	Indicator (unit)	Reference Benchmark	Measure	Indicator Condition Score	Econd
Total					24
Arid & semi-arid acacia low open woodlands & shrublands with chenopods MVS 22					62
	Extent (Ha)	186,358	165,145.94	89	
	Composition (Index)	100	66.30	66	
	Configuration (Index)	100	73.62	74	
Arid & semi-arid hummock grasslands MVS 31					11
	Extent (Ha)	23,320	5,012.70	21	
	Composition (Index)	100	59.67	60	
	Configuration (Index)	100	46.67	47	
Calitria forests & woodlands MVS 12					42
	Extent (Ha)	23,320	17,594.58	75	
	Composition (Index)	100	62.80	63	
	Configuration (Index)	100	48.17	48	

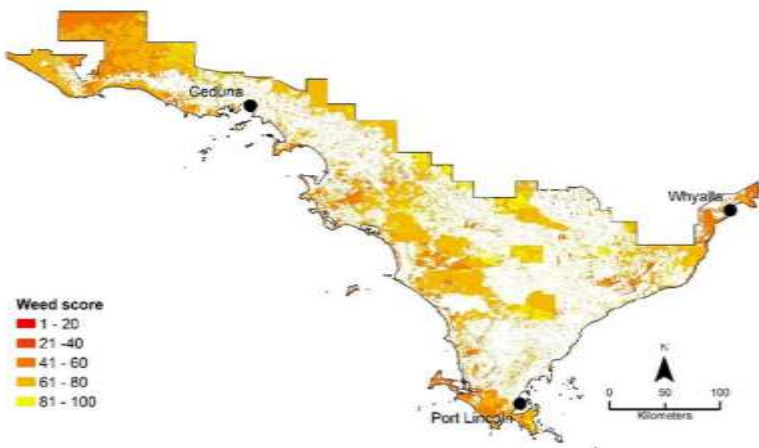
Map showing asset condition



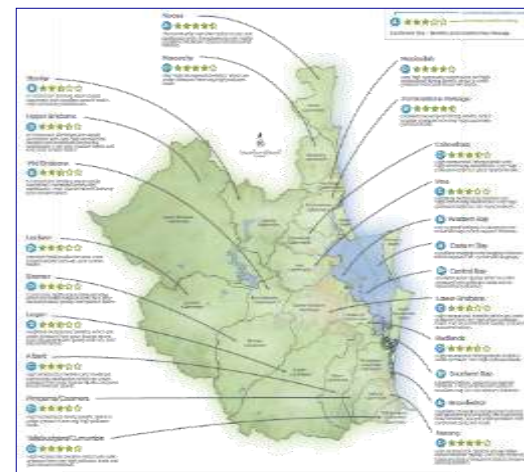
Detailed components



Map showing impact of weeds



Reporting progress



Productive Soils

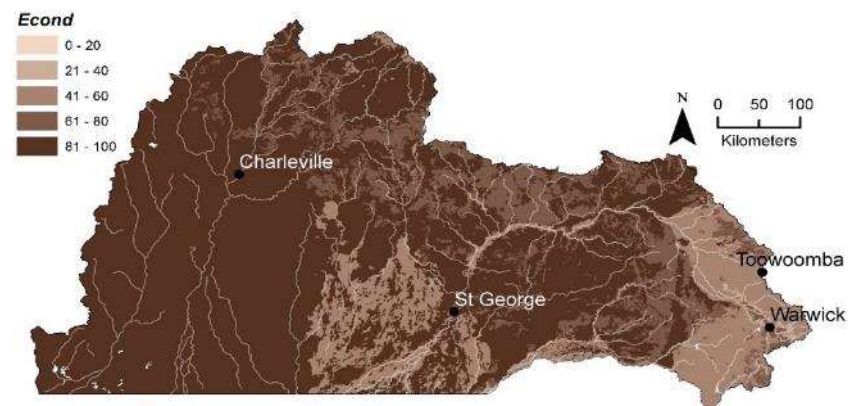
Queensland Murray Darling Region



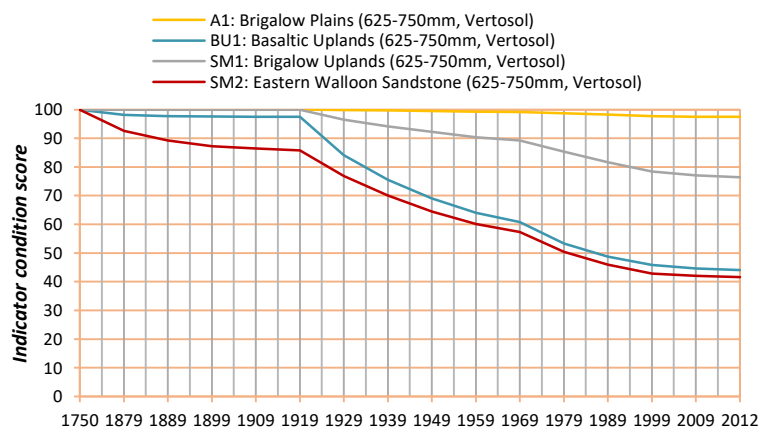
Soil Condition Account

SOIL ASSET ACCOUNT QUEENSLAND MURRAY-DARLING, QUEENSLAND					
Asset Tables (Land > Soil)					
Class (Landscape, Rainfall zone, ASC soil order)	Indicator (unit)	Reference Benchmark	2015		
			Measure	Indicator Condition Score	Econd
Total					83
A1: Brigalow Plains (625mm)					84
					81
Dermosol					97
	pH	7.50	6.20	100	
	Water erosion	3421.33	3307.46	97	
	Salinity	0	1	100	
	Carbon	1.6	1.6	100	
Sodosol					96
	pH	7.30	7.00	100	
	Water erosion	3365.17	3244.16	96	
	Salinity	0	0	100	
	Carbon	1.7	1.7	100	
Vertosol					77
	pH	4.85	7.20	100	
	Water erosion	4361.67	4303.22	99	
	Salinity	0	0	100	
	Carbon	1.5	1.2	77	

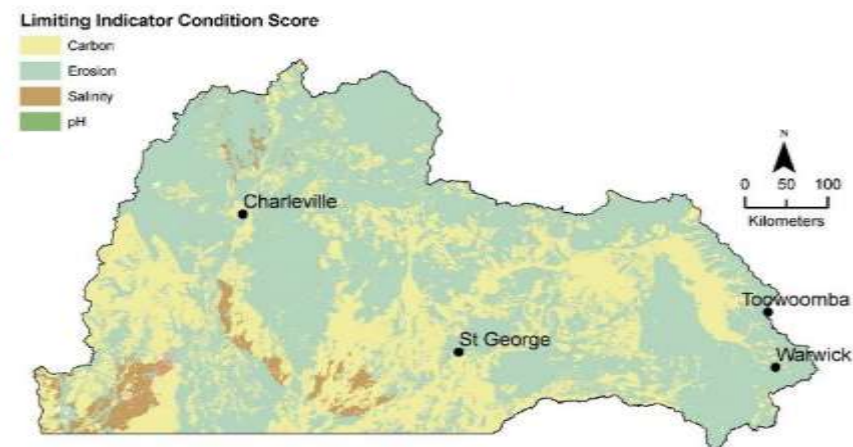
Soil condition across the region



Trend in soil erosion



Major causes of loss in condition

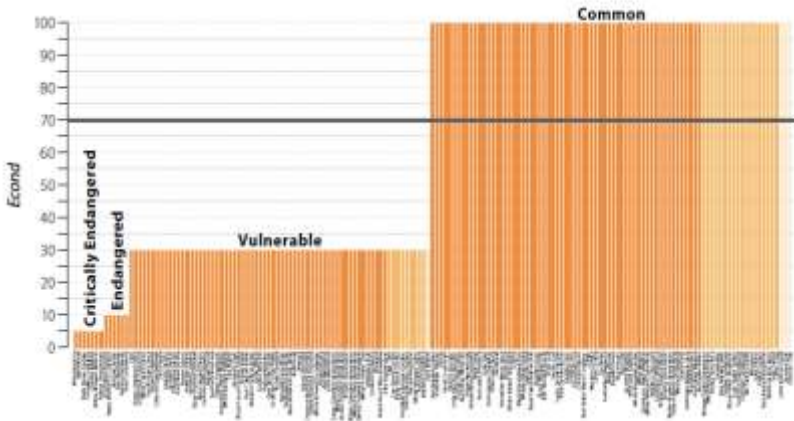




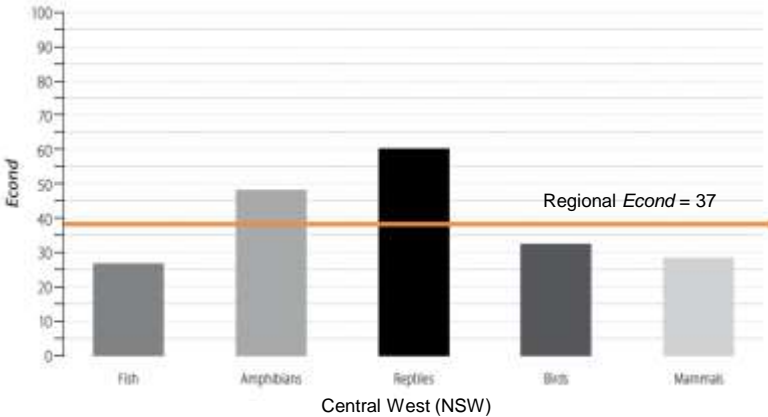
Native Animals Account

ASSET ACCOUNT				
LAND > NATIVE FAUNA				
Summary Table				
Class	Asset	Region	2007	2012
LAND	Native Fauna	Northern Agricultural Catchments Council (WA)		75
		Birds		75
		Residents		60
		Regular Visitors		81
		Irregular Visitors		84
		Central West CMA (NSW)	39	
		Birds	28	
		Residents	36	
		Regular Visitors	27	
		Irregular Visitors	22	
		Mammals	32	
		Amphibians	48	
		Reptiles	69	
		Fish	27	

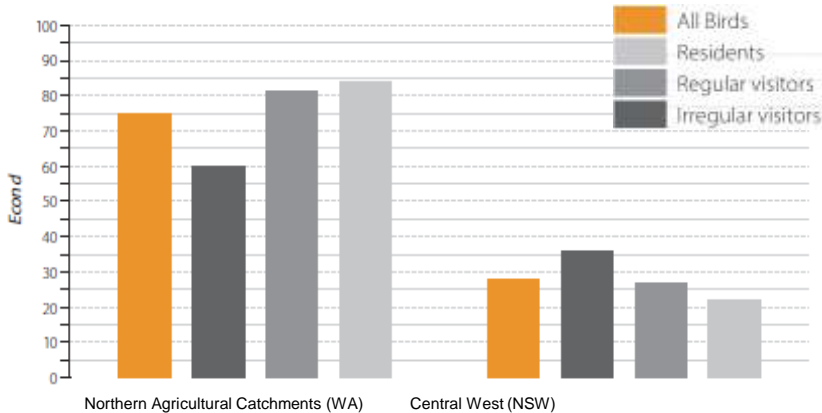
Status of Individual Species



Condition of different groups

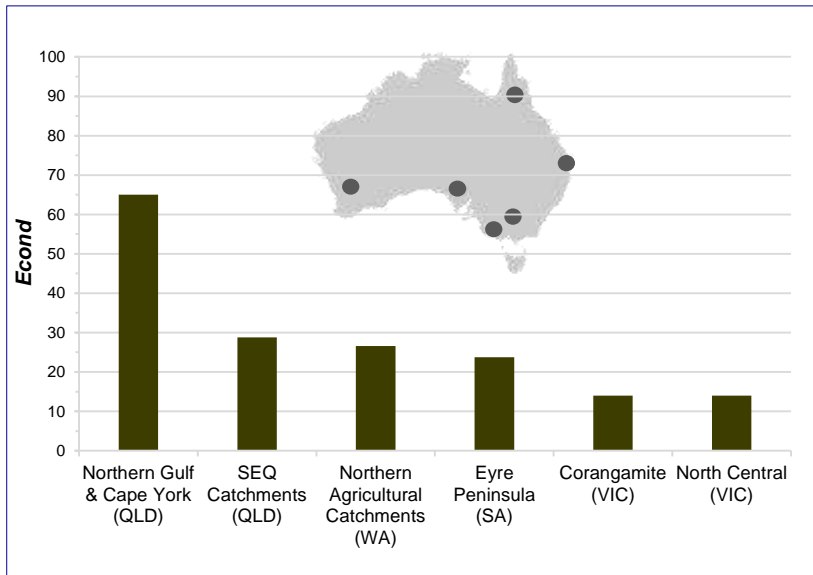


Comparison between regions

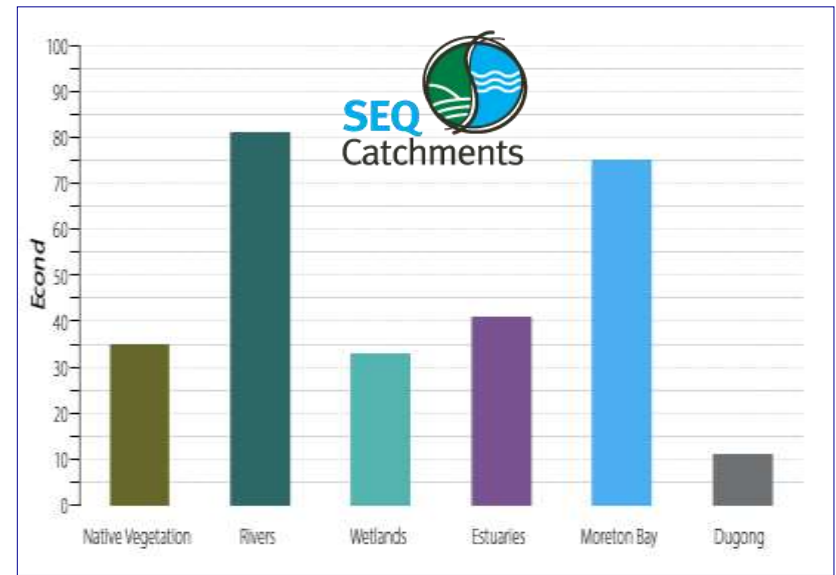


Simplifying Complex Information

Similar assets in different landscapes



Different assets within a landscape



The National Environmental Accounts of Australia

Summary Table

REGIONAL ENVIRONMENTAL ASSET ACCOUNT – SEQ CATCHMENTS, QUEENSLAND										
Class	Asset	Econd & ICS	2003	2004	2005	2006	2007	2008	2009	2010
LAND	Native Vegetation	Econd				29				
		Extent				53				
		Composition				53				
		Configuration								
FRESHWATER	Rivers	Econd	74			70	76	78	79	81
		Physical/chemical index	82			77	84	85	86	91
		Nutrient cycling index	64			60	75	70	73	61
		Macroinvertebrates index	76			69	74	79	82	88
		Fish index	62			68	65	69	71	76
COASTAL	Estuaries	Econd		57		55	42	44	39	41
		Physical/chemical index	51	57		57	39	40	34	36
		Biological Health Rating	58			51	50	53	51	49
		Foreshore/riparian habitat extent				48	51	51	51	51
	Moreton Bay	Econd		87	83	82	81	81	68	75
		Physical/chemical index		90	85	84	83	82	69	78
		Biological Health Rating		73	74	74	74	75	64	66

Asset Table

ESTUARIES ASSET TABLE – SEQ CATCHMENTS, QUEENSLAND										
Class/Indicator (unit)	Reference Benchmark	2009			2010			2011		
		Measure	ICS	Econd	Measure	ICS	Econd	Measure	ICS	Econd
TOTAL				39			41			41
Albert River estuary				22			18			20
Physical/chemical index	100	15.2	15		9.2	9		12.4	12	
Biological Health Rating	100	29.2	29		29.2	29		29.2	29	
Foreshore/riparian habitat	32.2	15.5	48		15.5	48		15.5	48	
Bremer River estuary				22			21			22
Physical/chemical index	100	15.2	15		13.0	13		14.2	14	
Biological Health Rating	100	33.3	33		33.3	33		33.3	33	
Foreshore/riparian habitat	34.8	15.3	44		15.3	44		15.3	44	
Brisbane River estuary				30			31			32
Physical/chemical index	100	26.2	26		24.8	25		29.4	29	
Biological Health Rating	100	47.2	47		55.6	56		47.2	47	
Foreshore/riparian habitat	160.6	51.4	32		51.4	32		51.4	32	

Every region
Every major asset
Every year

Data Table

ESTUARIES DATA TABLE – SEQ CATCHMENTS, QUEENSLAND			
Albert River estuary	Reference Benchmark	2010–2011	
		Measure	ICS
Physical/chemical index	100	12.4	12
Chlorophyll-a	100	2	2
Dissolved Oxygen	100	46	46
Total Nitrogen	100	14	14
Total Phosphorus	100	0	0
Turbidity	100	0	0
Biological Health Rating	100.0	29.2	29
Mixing Plots	3	1	33
TSN	4	1	25
Foreshore/riparian habitat extent	32.3	15.5	48
Total Foreshore/riparian habitat extent	32.29	15.50	48

Balance Sheet

RIVERS BALANCE SHEET – SEQ CATCHMENTS, QUEENSLAND						
Class/Indicator (unit)	ICS1	ICS2	ICS3	ICS4	ICS5	Econd
	Physical	Nutrients	Eco Process	Insects	Fish	
All Rivers in SEQ						
Opening stock (2010)	86	73	81	82	71	79
Closing stock (2011)	91	61	89	88	76	81
Net Change	+5	-12	+8	-6	+5	+2
Noosa River						
Opening stock (2010)	94	96	88	86	81	89
Closing stock (2011)	97	100	95	92	86	94
Net Change	+3	+4	+7	+6	+5	+5
Brisbane River						
Opening stock (2010)	95	29	91	93	100	81
Closing stock (2011)	96	20	72	77	95	72
Net Change	+1	-9	-19	-16	-5	-9