

GOLBURN-MURRAY
WATER



Water Resources and Outlooks

Effective with 15 July 2009 Allocation

#2689640



Outline

- Allocations
- Water resources
- Rainfall (outlook and actual)
- Inflows
- Operations planning



Allocations at 15 July 2009

Water System	2009/10 (%HRWS)	2008/09 (%HRWS)
Murray	0%	0%
Broken	0%	0%
Goulburn	0%	0%
Campaspe	0%	0%
Loddon	0%	0%
Bullarook	0%	0%



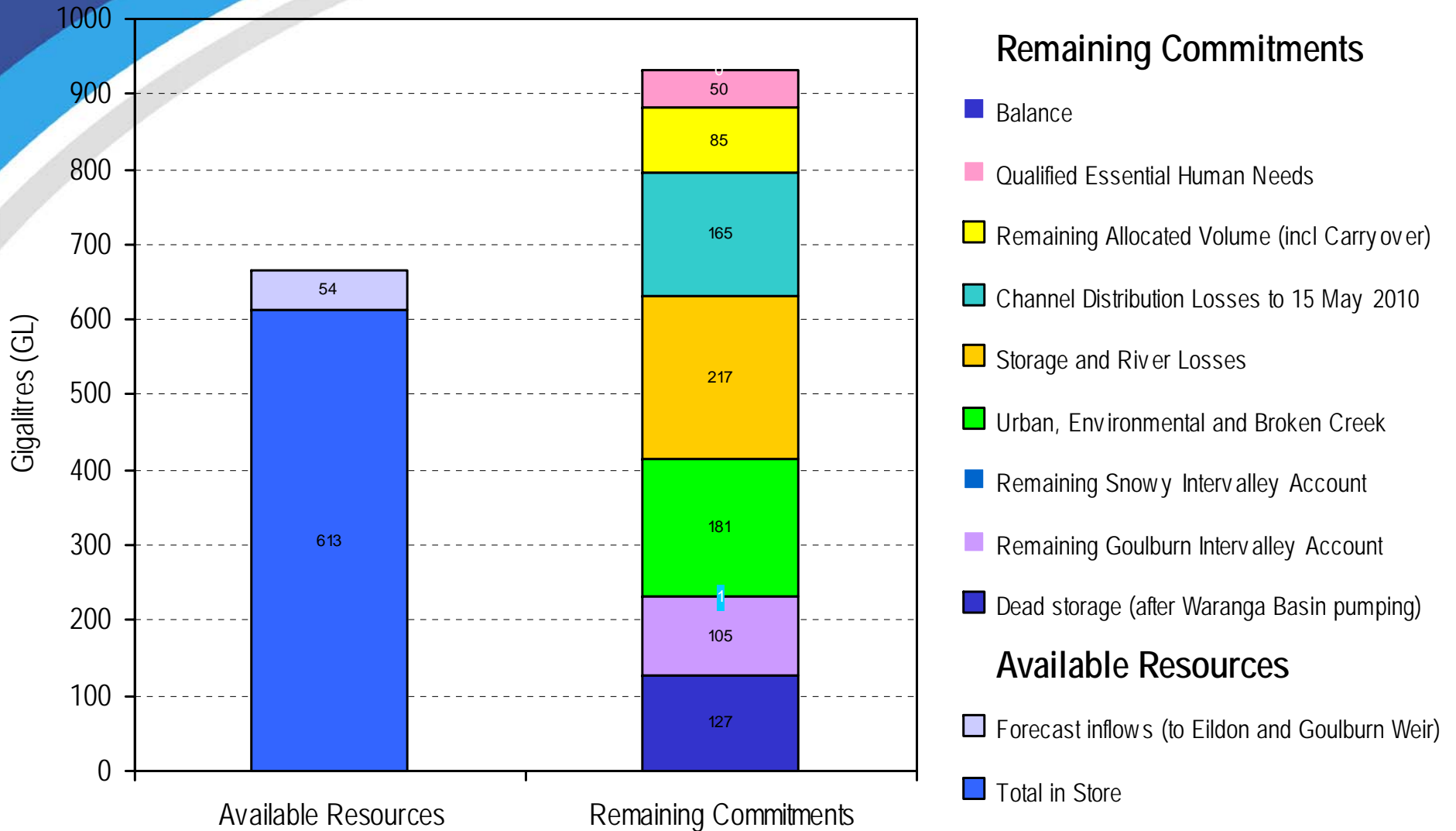
Allocations

- All systems have enough water to supply essential human needs
- Further inflows are needed to meet other commitments including system operating requirements



Goulburn System

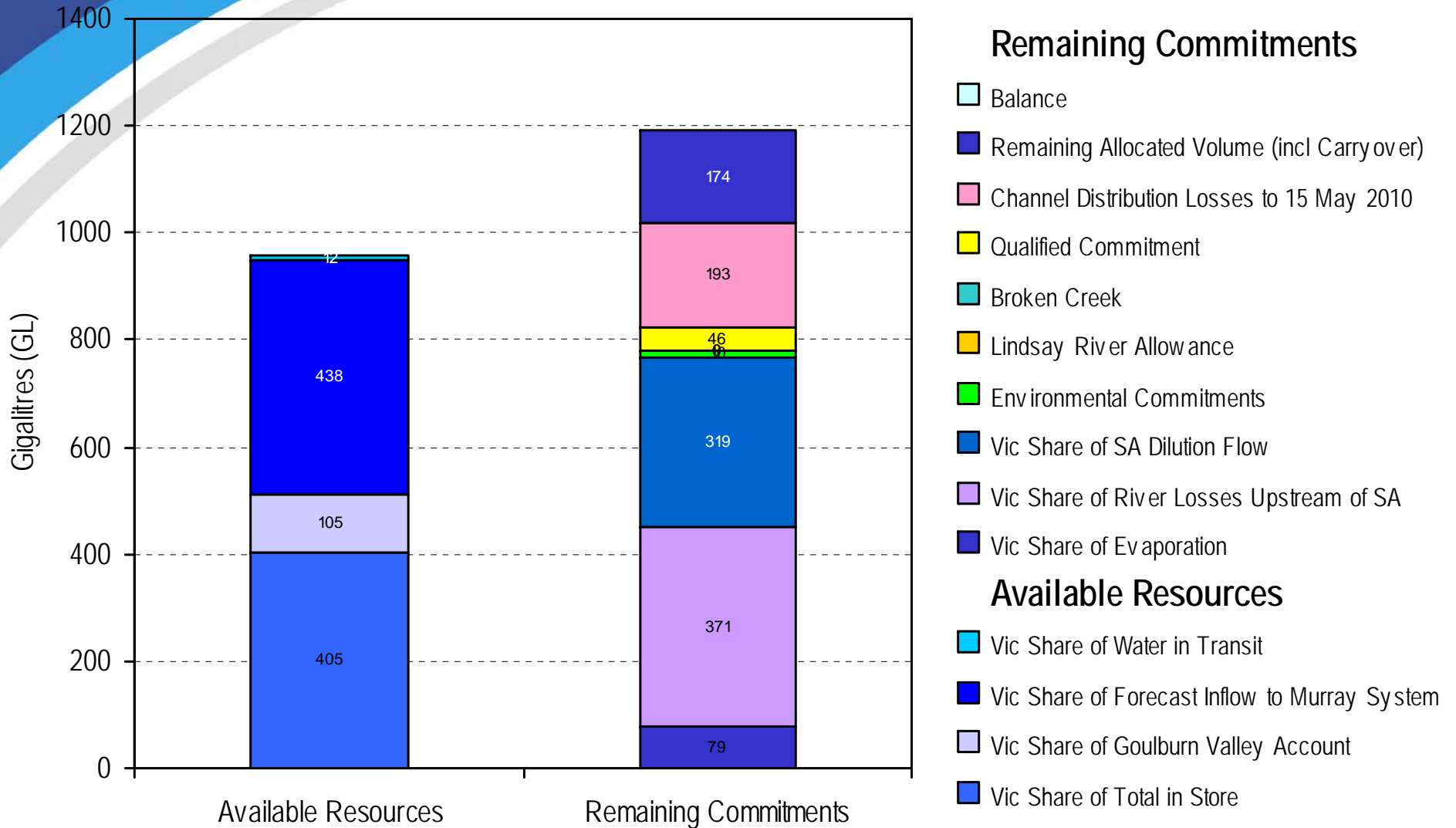
Breakdown of Water in Store and Commitments
15 July 2009





Murray System

Breakdown of Water in Store and Commitments
15 July 2009





Storage Volumes at 14 July

Storage	2009 (GL)	2008 (GL)
Eildon	502	521
Waranga Basin	92.2	63.5
Nillahcootie	5.0	9.5
Mokoan	0.0	15.0
Eppalock (G-MW)	1.8	1.9
Cairn Curran	2.7	7.0
Tullaroop	2.9	3.7

NOTE: 15 July 2009 allocations are based on 14 July 2009 volumes

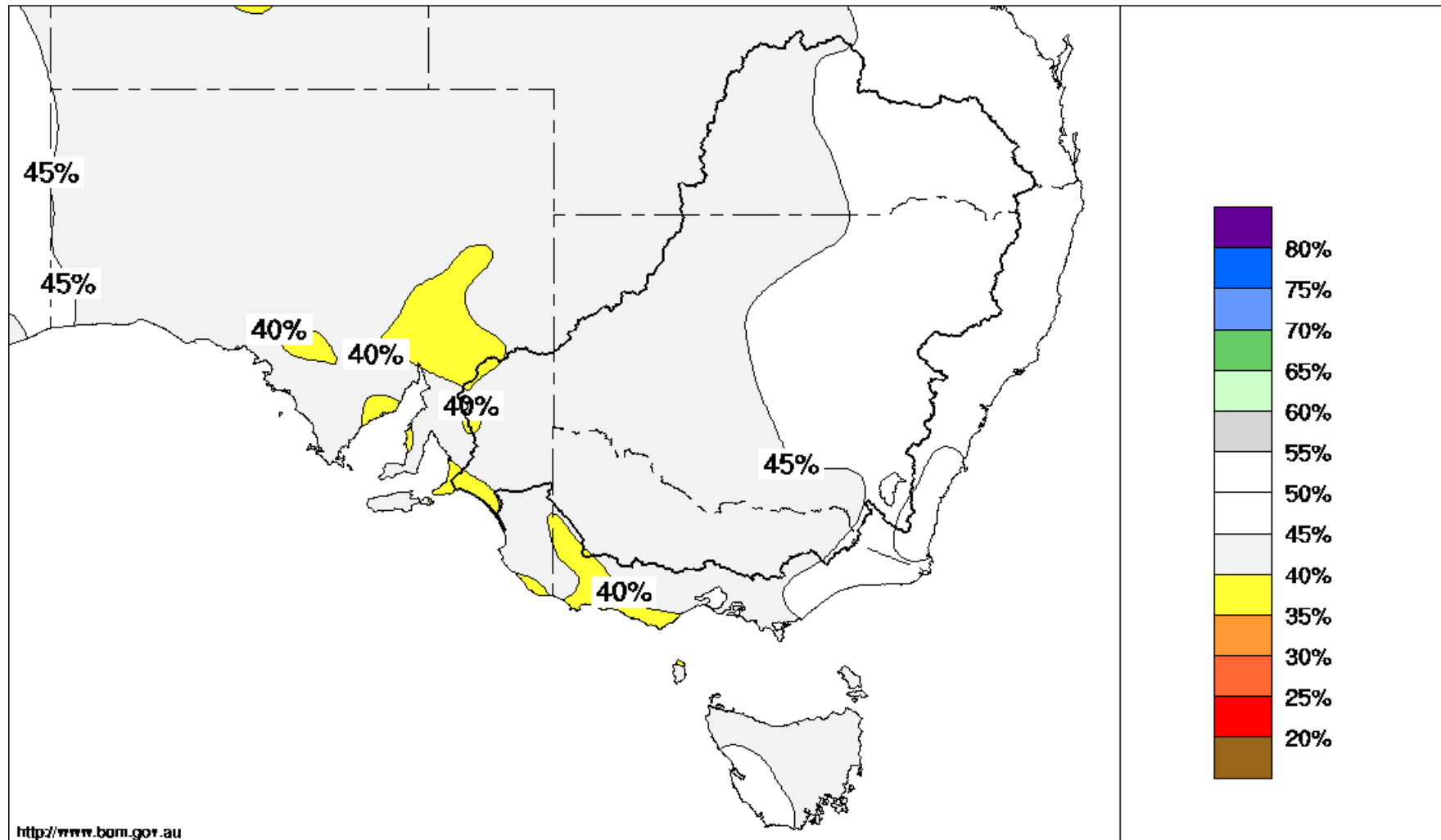


Storage Volumes at 14 July

Storage	2009 (GL)	2008 (GL)
Dartmouth (Total)	840	709
Dartmouth (Vic active)	397	425
Hume (Total)	330	550
Hume (Vic active)	135	270
Buffalo	18.3	18.4
William Hovell	13.9	13.9

Chance of exceeding the median Rainfall July to September 2009

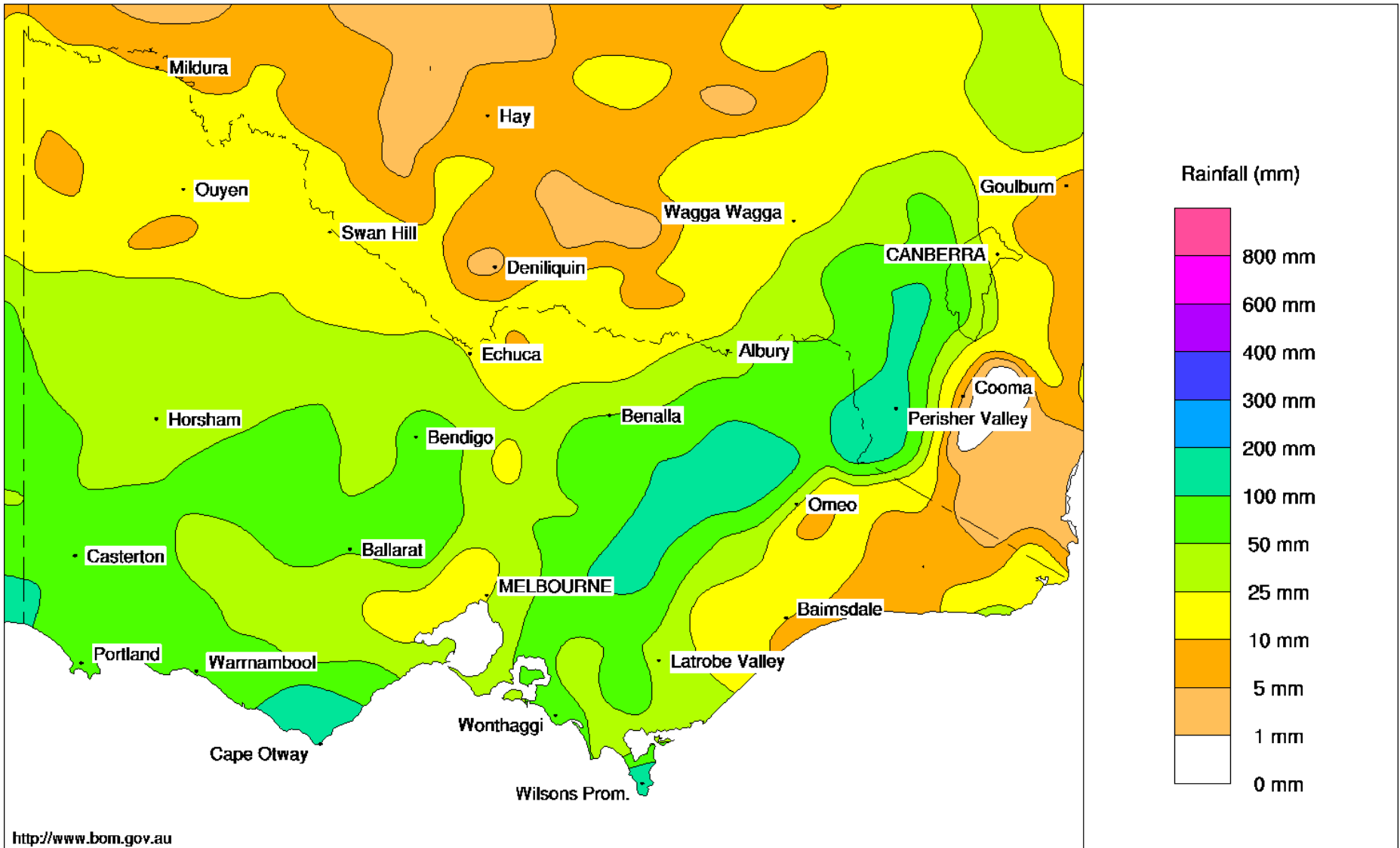
Product of the National Climate Centre



Victorian Rainfall (mm)

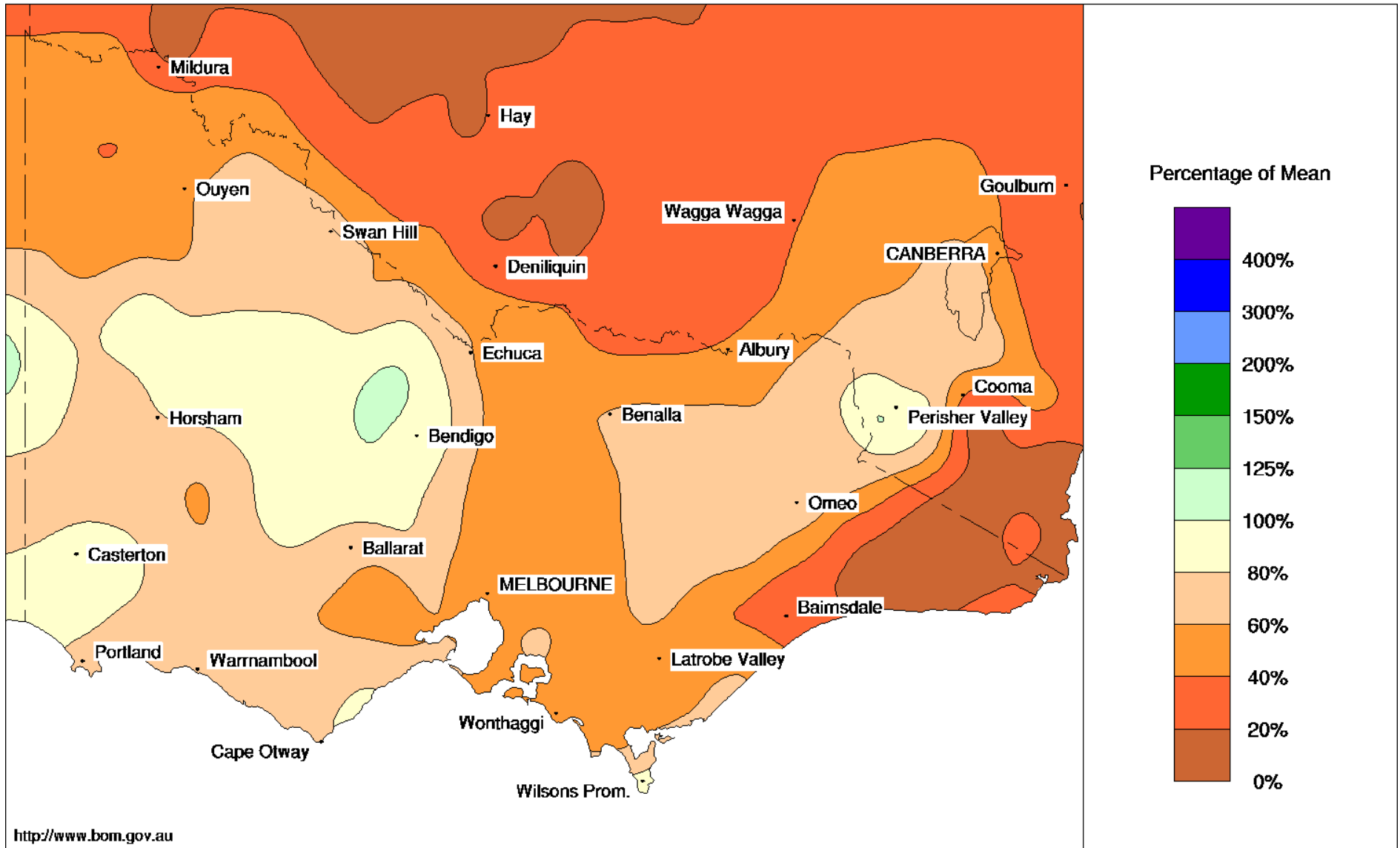
Fortnight Ending 14th July 2009

Product of the National Climate Centre



<http://www.bom.gov.au>

Rainfall Percentages - Month To Date Fortnight Ending 14th July 2009
Product of the National Climate Centre





Inflows to 15 July 2009

Storage	Inflow (GL)	% Average	% POE
Dartmouth	27.5	26%	67%
Eildon	73.7	32%	66%
Goulburn Weir	20.0	10%	95%
Nillahcootie	0.2	2%	96%
Eppalock	0.2	1%	95%
Loddon	0.2	1%	97%

% Average is calculated on inflows for month to date

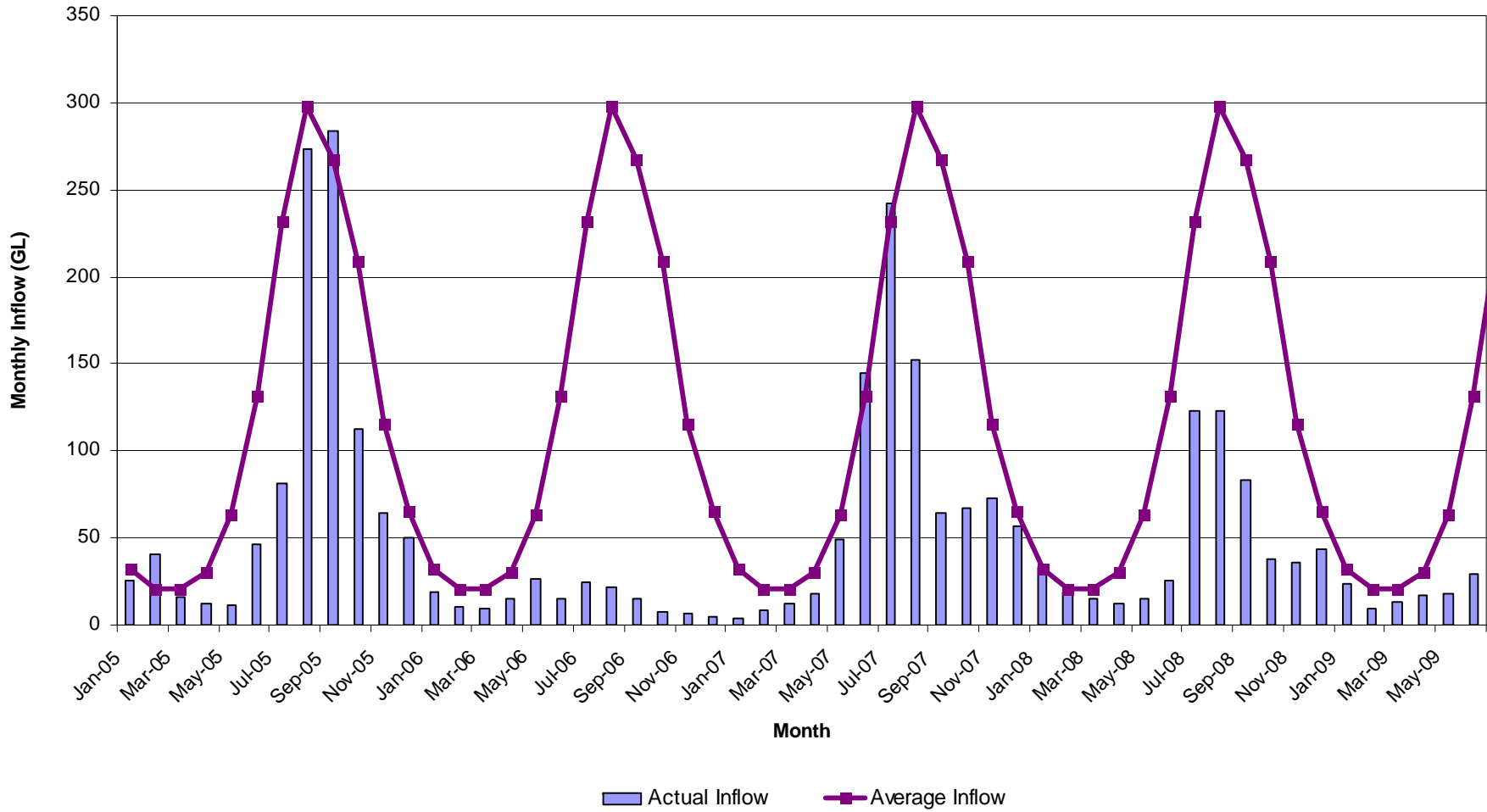
% POE is calculated based on projected monthly inflow (i.e. double inflow to date)



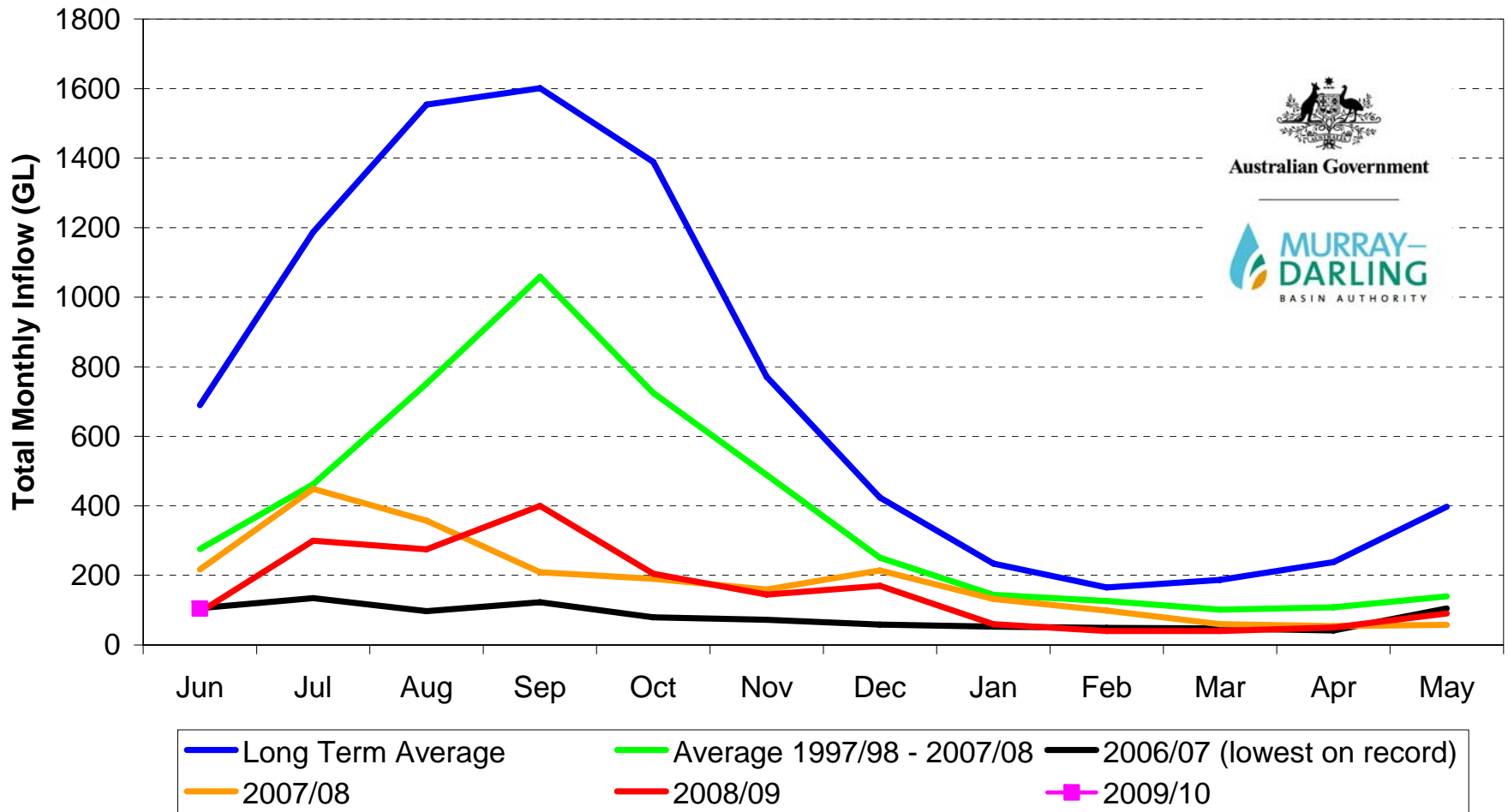
Implications of Recent Rainfall

- No significant impacts on inflows yet; still well below long-term averages
- Some benefit in Murray and Goulburn
- Slow inflow improvements in other systems

Inflows to Lake Eildon as at 30 June 09



Murray System Monthly Inflows (Excluding Snowy and Darling Inflows)





Outlook Tables

Murray System

Inflow Conditions	15 Aug 2009	15 Oct 2009	15 Dec 2009	15 Feb 2010
Wet	23%	95%	100%	100%
Average	0%	36%	61%	75%
Dry	0%	8%	18%	23%

Goulburn System (Note: Allocations include the Benefit of Pumping from Waranga Basin)

Inflow Conditions	15 Aug 2009	15 Oct 2009	15 Dec 2009	15 Feb 2010
Wet	27%	77%	100%	100%
Average	1%	43%	64%	71%
Dry	0%	10%	18%	23%



Outlook Tables

Broken System

Inflow Conditions	15 Aug 2009	15 Oct 2009	15 Dec 2009	15 Feb 2010
Wet	10%	100%	100%	100%
Average	0%	30%	56%	60%
Dry	0%	0%	0%	0%

Campaspe System

Inflow Conditions	15 Aug 2009	15 Oct 2009	15 Dec 2009	15 Feb 2010
Wet	0%	90%	100%	100%
Average	0%	0%	4%	5%
Dry	0%	0%	0%	0%

Loddon System

Inflow Conditions	15 Aug 2009	15 Oct 2009	15 Dec 2009	15 Feb 2010
Wet	35%	100%	100%	100%
Average	0%	23%	41%	64%
Dry	0%	0%	0%	0%



Qualification of Rights

- New instruments signed by Minister are effective for 2 years from 1 July 2009
- Provides water for specific purposes when allocations are low
- Reduces environmental flow commitments when allocations are low



2009/10 Operating Plans

- Murray and Goulburn irrigation areas and rivers
 - Allocated resource meets essential human needs
 - Customers may be have access to carryover when delivery systems in their location are operational
 - Strict system operations to minimise losses
- Broken, Campaspe, Loddon, Bullarook
 - Limited reserves
 - Essential human needs met



Conclusions

- Zero allocation for the 15 July 2009
- Winter and spring inflows will determine allocations and operations
- Priority supply to stock and domestic requirements