



RIVER MURRAY WEEKLY REPORT

FOR THE WEEK ENDING WEDNESDAY, 22 JUNE 2011

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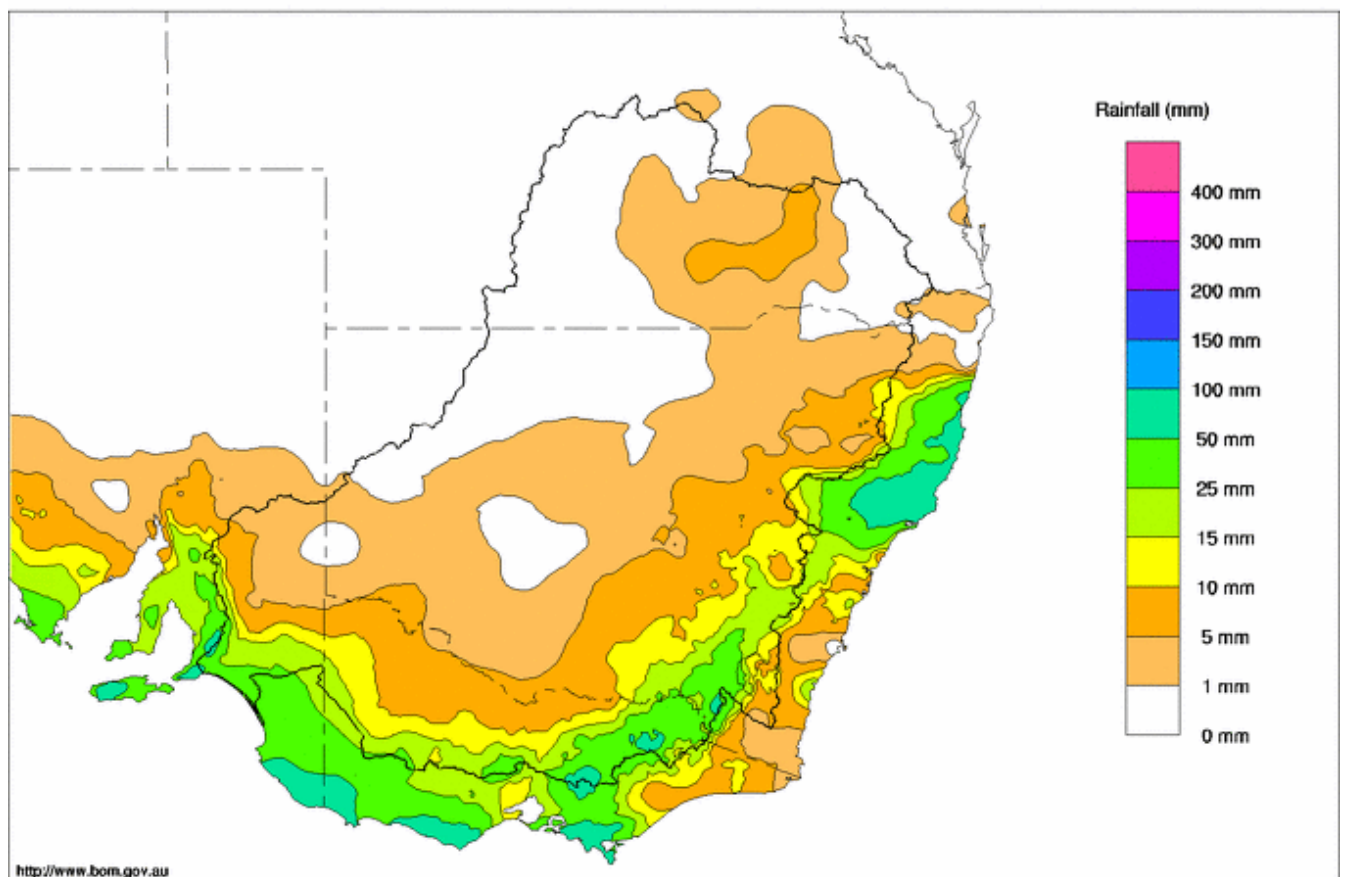
Rainfall and Inflows

A vigorous cold front during the latter part of the week brought strong winds, cold temperatures and good rainfall to much of the southern and elevated regions of the Murray-Darling Basin (Map 1). Some of the best rainfall totals for the week were in the Victorian Alps including 117 mm at Rocky Valley, 73 mm at Mt Buffalo and 68 mm at Lake William Hovell. The NSW Snowy Mountains recorded similar amounts, while in South Australia, Mt Barker received 58 mm which was typical of totals that fell over the Mt Lofty Ranges.

As is common for this time of year, there was a marked rainfall gradient towards the north and west of the Basin away from the ranges, with totals generally only between 0 and 5 mm over central NSW and southern Queensland.

Streamflows responded to the rain with flows increasing in most of the upper tributaries. For example, on the Mitta Mitta River, the flow at Hinnomunjie increased from 650 to 1,600 ML/day, while on the upper Murray the flow at Biggara jumped from 900 to 1,900 ML/day. On the Ovens River, the flow at Rocky Point increased from 1,200 to 2,700 ML/day.

Murray Darling Rainfall Totals (mm) Week Ending 22nd June 2011
Product of the National Climate Centre



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Map 1 - Murray-Darling Basin rainfall for the week ending 22 June 2011 (Source: Bureau of Meteorology).



River Operations

MDBA active storage (including Menindee Lakes) increased by 69 GL during the week to 6,989 GL (81% capacity).

The total storage at Dartmouth Reservoir increased by 11 GL to 2,468 GL (64% capacity) and release remains at the normal minimum of 200 ML/day.

At Hume Reservoir, the total storage increased by 5 GL to 2,803 GL (93% capacity). To maintain the current target of 200 GL airspace, the release averaged around 7,500 ML/day during the week to match inflow, and is currently around 8,800 ML/day. The release is expected to increase to around 14,000 ML/day in the coming days, as the higher flows in transit from the upper catchments arrive.

Downstream at Lake Mulwala, field surveys were taken last week to investigate whether the lake level was low enough to expose and control the aquatic weed, *Egeria densa*. The results showed the vast majority of the weed is exposed at the current level of around 122.0 m AHD (or 2.9 m below FSL) and therefore the lake level will be maintained between 122.0 and 122.2 m AHD over the coming week. Release from Yarrawonga Weir was reduced during the week from a peak of 15,800 ML/day and is now around 11,000 ML/day. Due to the rain, release is expected to increase to above 18,000 ML/day in the coming week.

On the Edward system, the flow at Deniliquin has fallen very slightly from 8,900 to 8,800 ML/day and is expected to continue to slowly recede during the week. Further downstream on the Wakool River at Kyalite, the flow peaked during the week at 7,100 ML/day and a very slow recession is expected to continue in the coming weeks.

At Torrumbarry on the River Murray, the flow has fallen from 17,300 to 15,000 ML/day and this trend is likely to continue over the coming few days before rising again in response to this week's rain.

On the Murrumbidgee River, the peak of an environmental water release from Blowering and Burrinjuck Reservoirs is now approaching Narrandera, where the flow is currently 29,700 ML/day. This water is expected to begin entering the Murray in early July and will cause some river level rise in the Murray downstream of the confluence with the Murrumbidgee.

Total storage at Menindee Lakes increased by 6 GL to 1,964 GL (113% capacity) and is expected to remain fairly steady over the coming week. The release (measured at Weir 32) is at the required minimum of 500 ML/day. Further downstream on the Darling at Burtundy, the flow has remained steady at around 1,800 ML/day and is expected to slowly recede over the coming weeks. At the confluence of the Murray and Darling Rivers, the flow at Wentworth has increased from 25,500 to 28,700 ML/day but is expected to begin falling slowly next week.

High flows into Lake Victoria continued during the week, and as a result the total storage increased by 46 GL to 428 GL (63% capacity). The flow into South Australia averaged around 20,000 ML/day during the week and is expected to remain around 21,000 ML/day during the coming week.

Flow over Lock 1 is currently around 17,000 ML/day and is expected to increase slightly in the coming week. The level of the Lower Lakes is around +0.68 m AHD and further Barrage closings this week have reduced the outflow into the Coorong to help raise the level of the lakes to around +0.80 m AHD.

For media inquiries contact the Media Officer on 02 6279 0141

DAVID DREVERMAN
Executive Director, River Murray

Water in Storage

Week ending Wednesday 22 Jun 2011

MDBA Storages	Full Supply Level	Full Supply Volume	Current Storage Level	Current Storage		Dead Storage (GL)	MDBA Active Storage (GL)	Change in Total Storage for the Week (GL)
	(m AHD)	(GL)	(m AHD)	(GL)	%			
Dartmouth Reservoir	486.00	3 856	461.91	2 468	64%	71	2 397	+11
Hume Reservoir	192.00	3 005	190.97	2 803	93%	23	2 780	+5
Lake Victoria	27.00	677	24.78	428	63%	100	328	+46
Menindee Lakes		1 731*		1 964	113%	(480 #)	1 484	+6
Total		9 269		7 663	83%	--	6 989	+69
Total Active MDBA Storage							81% ^	

Major State Storages

Burrinjuck Reservoir	1 026	897	87%	3	894	-99
Blowering Reservoir	1 631	1 562	96%	24	1 538	-19
Eildon Reservoir	3 334	2 838	85%	100	2 738	+27

* Menindee surcharge capacity – 2050 GL

** All Data is rounded to nearest GL **

NSW takes control of Menindee Lakes when storage falls below 480 GL, and control reverts to MDBA when storage next reaches 640 GL

^ % of total active MDBA storage

Snowy Mountains Scheme

Snowy diversions for week ending 21 Jun 2011

Storage	Active Storage (GL)	Weekly Change (GL)	Diversion (GL)	This Week	From 1 May 2011
Lake Eucumbene - Total	1 172	-1	Snowy-Murray	+18	175
Snowy-Murray Component	388	-9	Tooma-Tumut	+5	26
Target Storage	1 240		Net Diversion	13	149
			Murray 1 Release	+20	203

Major Diversions from Murray and Lower Darling (GL) *

New South Wales	This Week	From 1 July 2010	Victoria	This Week	From 1 July 2010
Murray Irrig. Ltd (Net)	0.0	478	Yarrowonga Main Channel (net)	0	111
Wakool Sys Allowance	0.0	-3	Torrumbarry System + Nyah (net)	0	177
Western Murray Irrigation	0.2	13	Sunraysia Pumped Districts	0.7	51
Licensed Pumps	0.9	80	Licensed pumps - GMW (Nyah+u/s)	0	22
Lower Darling	1.0	306	Licensed pumps - LMW	0.6	257
TOTAL	2.1	874	TOTAL	1.3	618

* Figures derived from estimates and monthly data. Please note that not all data may have been available at the time of creating this report.

** All data above is rounded to nearest 100 ML for weekly data and nearest GL for cumulative data**

Flow to South Australia (GL)

* Flow to SA will be greater than entitlement for June due to Additional Dilution Flow and Unregulated Flows.

Entitlement this month	90.0 *
Flow this week	140.6
Flow so far this month	471.0
Flow last month	946.1

(20 100 ML/day)

Salinity (EC) (microSiemens/cm at 25° C)

	Current	Average over the last week	Average since 1 August 2010
Swan Hill	120	100	210
Euston	130	140	170
Red Cliffs	140	140	160
Merbein	110	110	170
Burtundy (Darling)	340	350	290
Lock 9	140	150	230
Lake Victoria	260	240	200
Berri	280	270	240
Waikerie	-	-	210
Morgan	340	350	330
Mannum	340	360	330
Murray Bridge	360	360	330
Milang (Lake Alex.)	520	610	1 990
Poltalloch (Lake Alex.)	430	430	940
Meningie (Lake Alb.)	6 180	6 010	8 000
Goolwa Barrages	29 500	15 840	5 040

River Levels and Flows

Week ending Wednesday 22 Jun 2011

River Murray	Minor Flood Stage (m)	Gauge Height		Flow (ML/day)	Trend	Average Flow this Week (ML/day)	Average Flow last Week (ML/day)
		local (m)	(m AHD)				
Khancoban	-	-	-	5 900	F	2 740	3 130
Jingellic	4.0	2.16	208.68	8 510	R	7 170	7 600
Tallandoon (Mitta Mitta River)	4.2	1.80	218.69	1 470	R	860	740
Heywoods	5.5	2.47	156.10	8 750	R	7 650	9 130
Doctors Point	5.5	2.73	151.20	11 370	R	9 390	12 360
Albury	4.3	1.67	149.11	-	-	-	-
Corowa	7.0	2.33	128.35	10 620	R	9 970	13 400
Yarrowonga Weir (d/s)	6.4	1.80	116.84	11 120	R	12 450	15 260
Tocumwal	6.4	2.48	106.32	12 070	F	14 440	16 140
Torrumbarry Weir (d/s)	7.3	4.22	82.77	14 960	F	16 250	18 050
Swan Hill	4.5	2.71	65.63	15 960	F	16 440	17 100
Wakool Junction	8.8	5.77	54.89	23 090	F	23 360	22 500
Euston Weir (d/s)	8.8	3.90	45.74	23 280	S	23 410	20 160
Mildura Weir (d/s)	-	-	-	22 320	F	22 310	-
Wentworth Weir (d/s)	7.3	4.50	29.26	28 700	S	27 670	23 850
Rufus Junction	-	5.20	22.13	19 600	R	19 160	20 540
Blanchetown (Lock 1 d/s)	-	1.53	-	16 800	R	17 050	19 390
Tributaries							
Kiewa at Bandiana	2.7	1.83	155.06	1 820	R	1 250	1 260
Ovens at Wangaratta	11.9	8.96	146.64	3 630	R	2 660	2 700
Goulburn at McCoys Bridge	9.0	2.84	94.26	3 500	R	4 310	6 620
Edward at Stevens Weir (d/s)	-	3.41	83.19	4 880	F	4 910	5 210
Edward at Liewah	-	3.44	58.82	3 270	F	3 280	2 870
Wakool at Stoney Crossing	-	2.39	55.88	3 660	F	3 770	3 100
Murrumbidgee at Balranald	5.0	3.22	59.18	3 330	F	4 500	4 740
Barwon at Mungindi	-	3.22	-	110	F	110	170
Darling at Bourke	-	4.26	-	1 150	F	1 300	1 150
Darling at Burtundy Rocks	-	-	-	1 820	F	1 870	1 980

Natural Inflow to Hume (i.e. Pre Dartmouth & Snowy Mountains scheme)	6 210	6 940
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Weirs and Locks Pool levels above or below Full Supply Level (FSL)

Murray	FSL (m AHD)	u/s	d/s		FSL (m AHD)	u/s	d/s
Yarrowonga	124.90	-2.94	-	No. 7 Rufus River	22.10	+0.21	N/A
No. 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.08	+1.14
No. 15 Euston	47.60	-0.12	-	No. 5 Renmark	16.30	+0.04	+1.01
No. 11 Mildura	34.40	N/A	+1.50	No. 4 Bookpurnong	13.20	+0.02	+1.93
No. 10 Wentworth	30.80	N/A	+1.86	No. 3 Overland Corner	9.80	+0.15	+1.32
No. 9 Kulnine	27.40	+0.09	+0.84	No. 2 Waikerie	6.10	+0.04	+1.37
No. 8 Wangumma	24.60	+0.10	+1.29	No. 1 Blanchetown	3.20	+0.02	+0.78

Lower Lakes FSL = 0.75 m AHD

Lake Alexandrina average level for the past 5 days (m AHD)	0.68
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Barrages

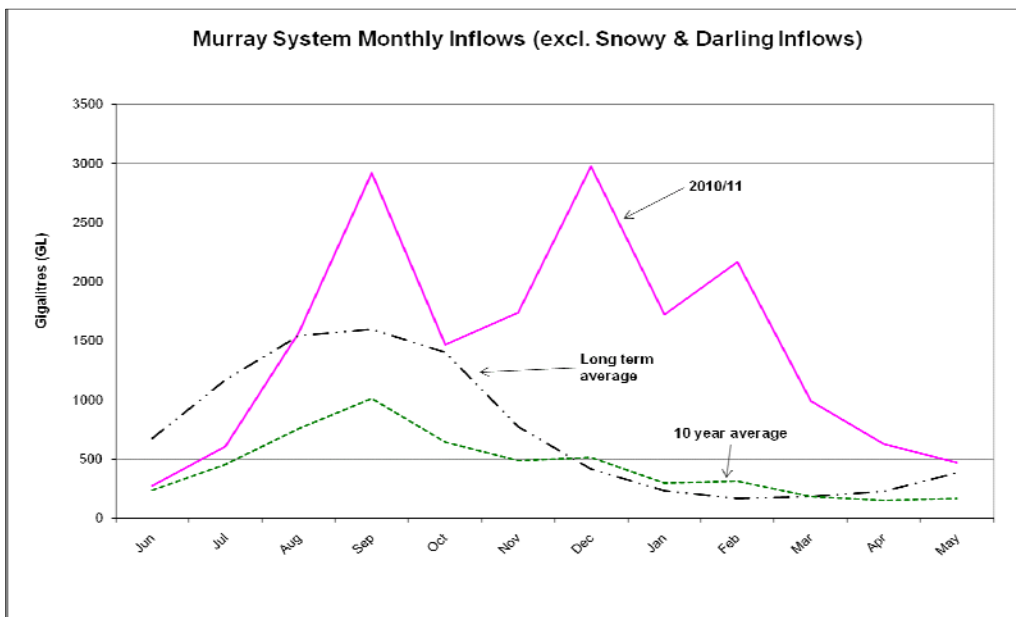
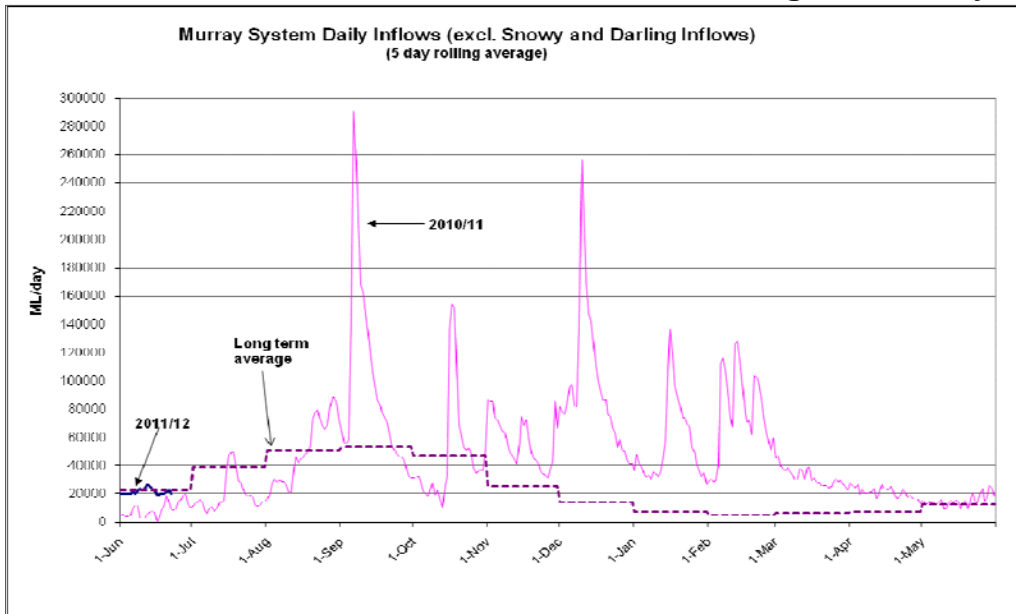
Fishways at Barrages

	Openings	Level (m AHD)	No. Open	Rock Ramp	Vertical Slot
Goolwa	128 openings	0.63	All closed	-	Open
Mundoo	26 openings	0.67	All closed	-	-
Boundary Creek	6 openings	-	1	-	-
Ewe Island	111 gates	-	2	-	-
Tauwitchere	322 gates	0.69	10	Open	Open

AHD = Level relative to Australian Height Datum, i.e. height above sea level



Week ending Wednesday 22 Jun 2011



State Allocations (as at 22 Jun 2011)

NSW - Murray Valley

High security	100%
General security	100%

NSW - Murrumbidgee

High security	100%
General security	100%

NSW - Lower Darling

High security	100%
General security	100%

Victoria - Murray Valley

High reliability	100%
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VIC - Goulburn

High reliability	100%
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SA - Murray

High security	67%
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NSW : <http://www.water.nsw.gov.au/About-us/Media-releases/media/default.aspx>

VIC : <http://www.g-mwater.com.au/water-resources/allocations/current.asp>

SA : <http://www.waterforgood.sa.gov.au/category/news/>