



RIVER MURRAY WEEKLY REPORT

FOR THE WEEK ENDING WEDNESDAY, 11 SEPTEMBER 2013

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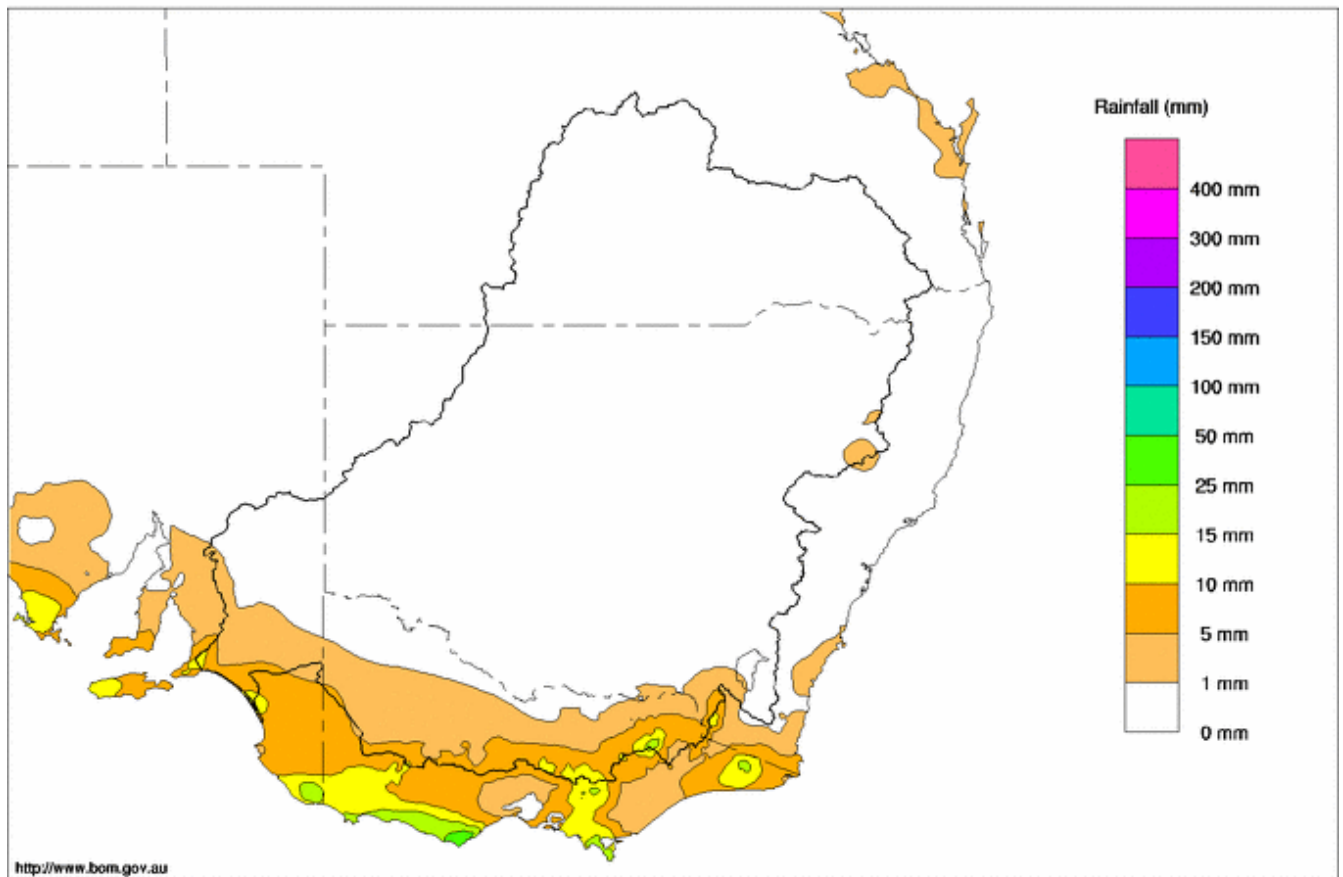
Rainfall and Inflows

The dry and very warm start to spring continued this week across the Murray-Darling Basin. The only region to record precipitation of any note was the far south, where light rain fell over northern Victoria and southern South Australia. In most other areas there was no rain at all (Map 1).

The highest weekly precipitation totals were in the Victorian Alps and included 25 mm at Mt Hotham, 21 mm at Rocky Valley and 14 mm at Mt Buller. There were totals up to 20 mm in the NSW Snowy Mountains, while elsewhere, only a handful of other locations received more than 10 mm.

Murray-Darling Rainfall Totals (mm) Week Ending 11th September 2013

Product of the National Climate Centre



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

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Map 1 - Murray-Darling Basin rainfall for the week ending 11 September 2013 (Source: Bureau of Meteorology).

Stream flows in upper Murray tributaries have continued to slowly recede. On the Mitta Mitta River at Hinnomunjie Bridge, the flow has receded from 2,900 to 2,300 ML/day. On the upper River Murray, the flow at Biggara decreased from 2,300 to 1,900 ML/day. Downstream at Jingellic, the flow has averaged 11,000 ML/day compared with 13,700 ML/day during the preceding week. On the Kiewa River at Bandiana, flows just above the minor flood level have continued through the week, however, the Bureau of Meteorology is forecasting levels to fall below minor flood in the next day or two. On the Ovens River, the flow at Rocky Point decreased from 6,200 to 4,000 ML/day.



River Operations

MDBA active storage increased by 16 GL this week and is currently 7,908 GL, which is 92% capacity.

At Dartmouth Reservoir, the storage increased by 3 GL to 3,790 GL (98% capacity). The release from Dartmouth, measured at Colemans, was reduced from 7,100 ML/day to 800 ML/day but has been increased to 3,000 ML/day (at 13 September) in anticipation of rain next week. The flow at Tallandoon has receded to 2,600 ML/day. Dartmouth releases and flows along the lower Mitta Mitta River will continue to depend on rainfall forecasts, inflows and any changes in release to manage the airspace in the reservoir.

Inflows to Hume Reservoir fell away gradually during the week, and releases were reduced to ensure the target of filling the reservoir prior to downstream demand exceeding inflow is met. However, with some rain forecast for the coming week, releases have been increased. The storage in Hume Reservoir is currently 2,969 GL (99% capacity), which is a gain of 1 GL since last week. The flow at Doctors Point is currently targeting 22,000 ML/day (at 13 September).

At Yarrawonga Weir, total diversions to Mulwala Canal and Yarrawonga Main Channel reached nearly 8,900 ML/day, but have now reduced ahead of forecast rain. The weir pool level is currently 124.85 m AHD. The release from Yarrawonga Weir was reduced from 28,000 ML/day last week down to 19,200 ML/day but is now 23,500 ML/day (at 13 September).

On the Edward River system, the flow at Toonalook has receded and is now 8,300 ML/day. The Bullatale Creek flow has also receded to 1,300 ML/day. At Stevens Weir, the gates have been reinstated and the weir pool level is currently 5.0 m (local gauge height). The flow downstream of Stevens Weir is currently 7,200 ML/day and generally receding. Further downstream, the flow is still rising on the Edward River at Liewah and the Wakool River at Stoney Crossing.

Inflow from the Goulburn River, at McCoys Bridge, has reduced from 8,700 ML/day to 1,700 ML/day during the week. At Torrumbarry Weir on the Murray, the flow has receded to 20,100 ML/day and diversions through National Channel have averaged 2,400 ML/day during the week.

At Swan Hill, the flow is 18,400 ML/day and expected to remain above 15,000 ML/day for the next week or two. The flow in the Murrumbidgee River at Balranald is steady at about 1,400 ML/day. Further downstream on the River Murray at Euston, the flow has risen steadily and is expected to peak at about 24,000 ML/day early next week.

Total storage at Menindee Lakes fell by 3 GL over the week to 1,223 GL (71% capacity). The release from the lakes has remained close to the seasonal minimum at about 210 ML/day.

At Lake Victoria, the volume increased by 15 GL during the week and is now 600 GL (89% capacity). The flow to South Australia has averaged 15,200 ML/day during the week but this flow is expected to be gradually increased early next week. At the Lower Lakes, the 5-day average level at Lake Alexandrina is 0.72 m AHD.

For media inquiries contact the Media Officer on 02 6279 0141

DAVID DREVERMAN
Executive Director, River Management



Water in Storage

Week ending Wednesday 11 Sep 2013

MDBA Storages	Full Supply Level	Full Supply Volume (GL)	Current Storage Level	Current Storage		Dead Storage (GL)	Active Storage (GL)	Change in Total Storage for the Week (GL)
	(m AHD)		(m AHD)	(GL)	%			
Dartmouth Reservoir	486.00	3 856	484.99	3 790	98%	71	3 719	+3
Hume Reservoir	192.00	3 005	191.82	2 969	99%	23	2 946	+1
Lake Victoria	27.00	677	26.36	600	89%	100	500	+15
Menindee Lakes		1 731*		1 223	71%	(480 #)	743	-3
Total		9 269		8 582	93%	--	7 908	+16
Total Active MDBA Storage							92% ^	

Major State Storages

Burrinjuck Reservoir	1 026	535	52%	3	532	+6
Blowering Reservoir	1 631	1 435	88%	24	1 411	-33
Eildon Reservoir	3 334	3 012	90%	100	2 912	+31

* 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 10 Sep 2013

Storage	Active Storage (GL)	Weekly Change (GL)	Diversions (GL)	This Week	From 1 May 2013
Lake Eucumbene - Total	1 703	+62	Snowy-Murray	+3	478
Snowy-Murray Component	635	+26	Tooma-Tumut	+10	152
Target Storage	1 240		Net Diversion	-7	326
			Murray 1 Release	+23	643

Major Diversions from Murray and Lower Darling (GL) *

New South Wales	This Week	From 1 July 2013	Victoria	This Week	From 1 July 2013
Murray Irrig. Ltd (Net)	50.8	137	Yarrowonga Main Channel (net)	0.4	2
Wakool Sys Allowance	0.0	-1	Torrumbarry System + Nyah (net)	18.4	65
Western Murray Irrigation	0.4	1	Sunraysia Pumped Districts	2.4	7
Licensed Pumps	6.2	14	Licensed pumps - GMW (Nyah+u/s)	1.2	3
Lower Darling	4.7	19	Licensed pumps - LMW	5	19
TOTAL	62.1	170	TOTAL	27.4	96

* 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 normal entitlement for this month due to the commencement of unregulated flows.

Entitlement this month	135.0 *
Flow this week	106.7
Flow so far this month	170.7
Flow last month	388.7

(15 200 ML/day)

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

	Current	Average over the last week	Average since 1 August 2013
Swan Hill	100	100	110
Euston	80	80	130
Red Cliffs	90	100	150
Merbein	90	110	150
Burtundy (Darling)	470	460	450
Lock 9	120	140	150
Lake Victoria	330	300	320
Berri	300	350	370
Waikerie	370	380	470
Morgan	370	420	480
Mannum	390	470	550
Murray Bridge	470	500	580
Milang (Lake Alex.)	630	630	610
Poltalloch (Lake Alex.)	600	750	710
Meningie (Lake Alb.)	2 700	2 690	2 620
Goolwa Barrages	-	-	-



River Levels and Flows

Week ending Wednesday 11 Sep 2013

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	-	-	-	6 050	R	5 970	6 010
Jingellic	4.0	2.32	208.84	9 670	R	11 010	13 700
Tallandoon (Mitta Mitta River)	4.2	2.10	218.99	2 580	F	5 560	9 490
Heywoods	5.5	2.95	156.58	14 790	F	18 250	14 760
Doctors Point	5.5	3.27	151.74	18 080	F	21 790	19 370
Albury	4.3	2.33	149.77	-	-	-	-
Corowa	3.8	4.03	130.05	21 600	F	22 180	17 500
Yarrowonga Weir (d/s)	6.4	2.75	117.79	19 190	F	23 130	32 060
Tocumwal	6.4	3.70	107.54	22 030	F	25 600	36 280
Torrumbarry Weir (d/s)	7.3	5.51	84.06	20 080	F	22 640	21 530
Swan Hill	4.5	3.15	66.07	18 380	R	17 900	15 470
Wakool Junction	8.8	6.04	55.16	22 690	R	21 450	17 600
Euston Weir (d/s)	8.8	3.58	45.42	22 460	R	20 970	18 080
Mildura Weir (d/s)	-	-	-	-	-	-	-
Wentworth Weir (d/s)	7.3	3.93	28.69	21 420	R	20 080	18 780
Rufus Junction	-	4.61	21.54	14 350	R	14 470	16 250
Blanchetown (Lock 1 d/s)	-	1.15	-	14 180	R	13 810	16 510
Tributaries							
Kiewa at Bandiana	2.7	2.72	155.95	3 820	F	4 040	4 750
Ovens at Wangaratta	11.9	9.62	147.30	5 430	F	6 500	12 180
Goulburn at McCoys Bridge	9.0	1.93	93.35	1 720	F	4 950	8 500
Edward at Stevens Weir (d/s)	-	4.23	84.00	7 240	F	9 150	9 550
Edward at Liewah	-	3.82	59.20	4 020	R	3 790	2 970
Wakool at Stoney Crossing	-	2.82	56.31	4 810	R	4 230	2 860
Murrumbidgee at Balranald	5.0	1.85	57.81	1 390	S	1 230	1 200
Barwon at Mungindi	-	3.28	-	270	S	300	490
Darling at Bourke	-	4.12	-	450	F	540	750
Darling at Burtundy Rocks	-	0.78	-	220	S	230	240

Natural Inflow to Hume (i.e. Pre Dartmouth & Snowy Mountains scheme)	17 980	26 140
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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	-0.05	-	No. 7 Rufus River	22.10	+0.02	+2.28
No. 26 Torrumbarry	86.05	+0.01	-	No. 6 Murtho	19.25	+0.04	+0.70
No. 15 Euston	47.60	-0.10	-	No. 5 Renmark	16.30	+0.02	+0.62
No. 11 Mildura	34.40	+0.05	+1.05	No. 4 Bookpurnong	13.20	-0.06	+1.55
No. 10 Wentworth	30.80	+0.08	+1.29	No. 3 Overland Corner	9.80	-0.04	+0.79
No. 9 Kulnine	27.40	+0.23	+0.89	No. 2 Waikerie	6.10	+0.01	+0.82
No. 8 Wangumma	24.60	+0.49	+0.81	No. 1 Blanchetown	3.20	-0.03	+0.40

Lower Lakes FSL = 0.75 m AHD

Lake Alexandrina average level for the past 5 days (m AHD)	0.72
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Barrages

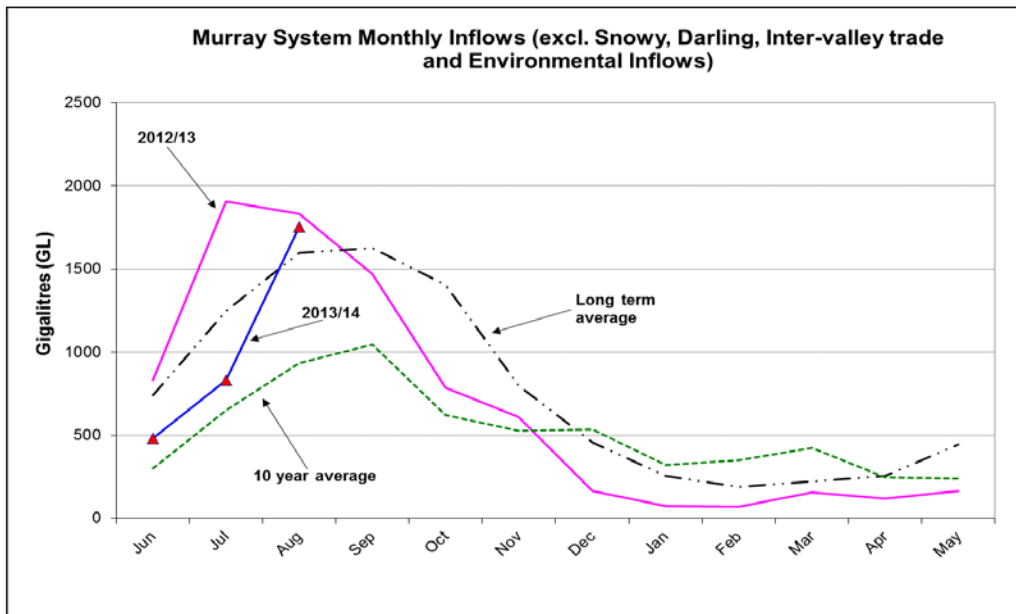
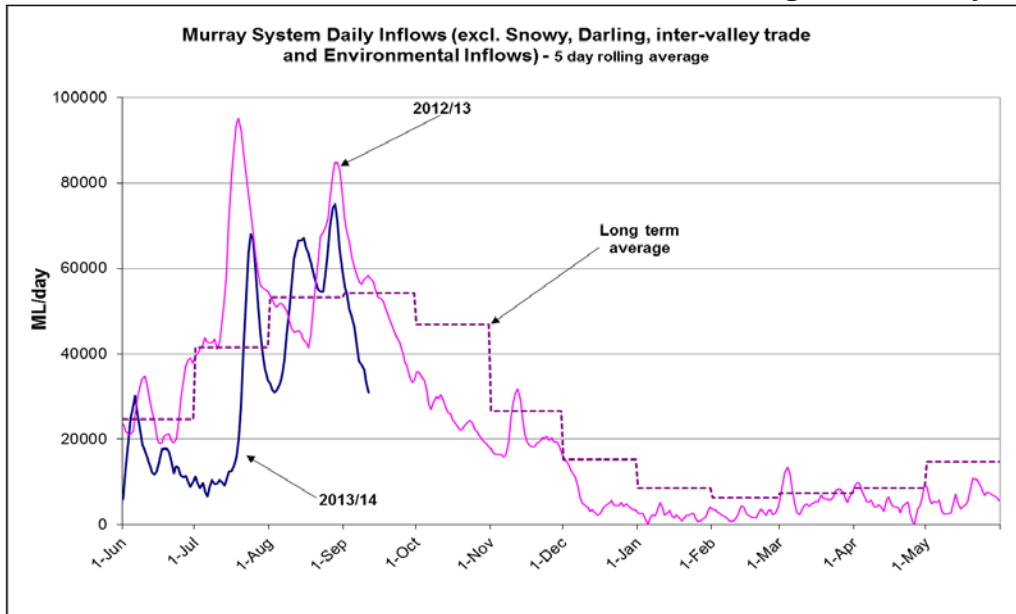
Fishways at Barrages

	Openings	Level (m AHD)	No. Open	Rock Ramp	Vertical Slot
Goolwa	128 openings	0.69	All closed	-	Open
Mundoo	26 openings	0.67	All closed	-	-
Boundary Creek	6 openings	-	0.1	-	-
Ewe Island	111 gates	-	5	-	-
Tauwichee	322 gates	0.70	20	Open	Open

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



Week ending Wednesday 11 Sep 2013



State Allocations (as at 11 Sep 2013)

NSW - Murray Valley

High security	97%
General security	79%

Victorian - Murray Valley

High reliability	66%
Low reliability	0%

NSW - Murrumbidgee Valley

High security	95%
General security	28%

Victorian - Goulburn Valley

High reliability	100%
Low reliability	0%

NSW - Lower Darling

High security	100%
General security	100%

South Australia - Murray Valley

High security	100%
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NSW : <http://www.water.nsw.gov.au/Water-management/Water-availability/Water-allocations/Water-allocations-summary/water-allocations-summary/default.aspx>

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

SA : <http://www.environment.sa.gov.au/managing-natural-resources/river-murray>