



RIVER MURRAY WEEKLY REPORT

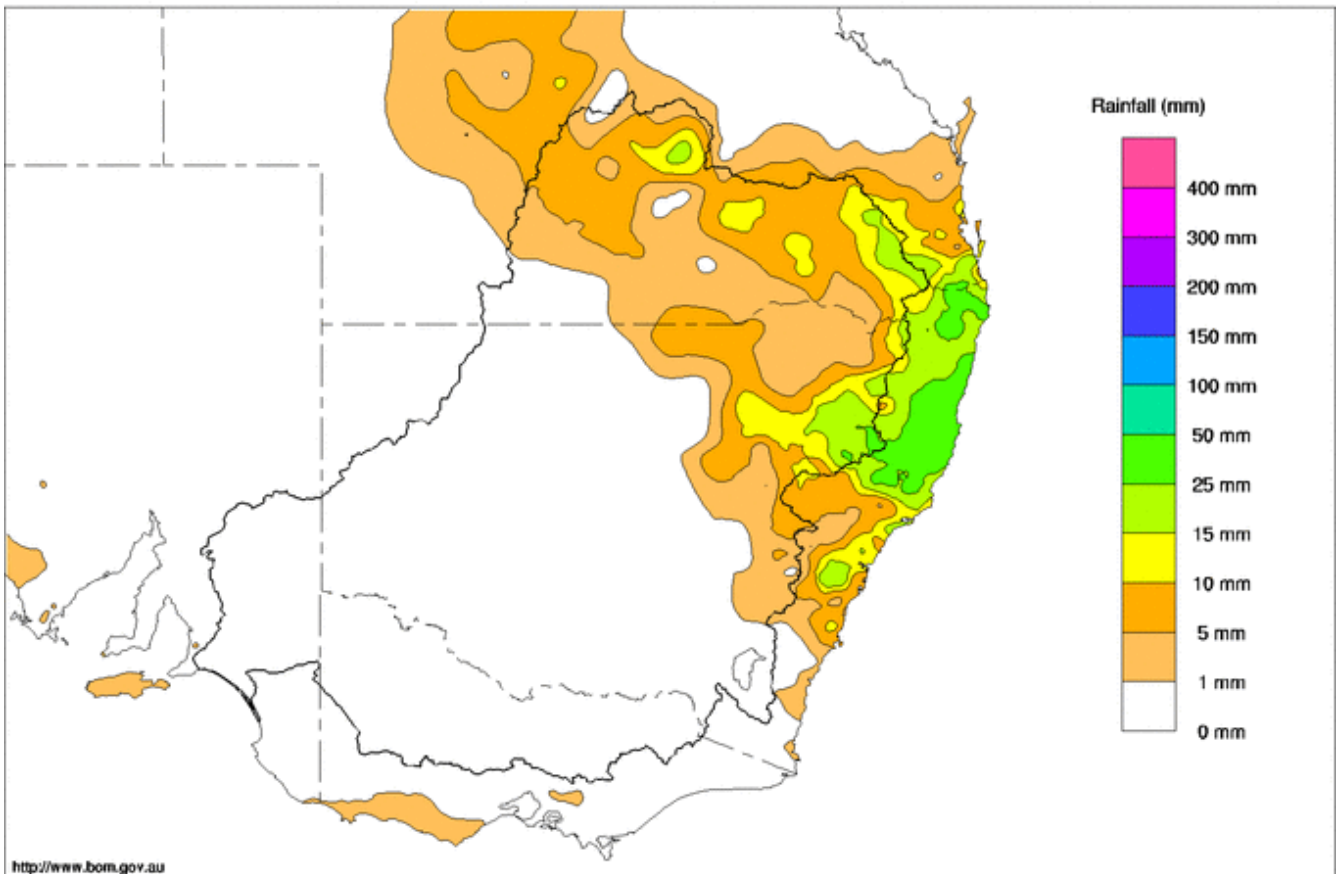
FOR THE WEEK ENDING WEDNESDAY, 12TH NOVEMBER* 2014

Trim Ref: D14/46767

Rainfall and Inflows

Conditions stayed dry this week for most of the Murray-Darling Basin, with no rain recorded across southern and western areas and above-average temperatures across the entire Basin. There was light rain in the north-east, with notable totals recorded across the New England and Liverpool Plains regions of NSW and on the Queensland Darling Downs (Map 1). Highest totals included 34 mm at Oakington, 32 mm at Nundle and Woolbrook, 24 mm at Guyra and 22 mm at Gunnedah and Tenterfield.

Murray-Darling Rainfall Totals (mm) Week Ending 12th November 2014
Australian Bureau of Meteorology



© Commonwealth of Australia 2014, Australian Bureau of Meteorology

Issued: 12/11/2014

Map 1- Murray-Darling Basin rainfall for the week ending 12th November 2014 (Source: Bureau of Meteorology).

Flows continue to recede across the upper system tributaries while the catchments remain dry. On the upper Murray, the flow at Biggara receded from 600 to 500 ML/day. On the Mitta Mitta River, the flow at Hinnomunjie Bridge receded from 450 to 350 ML/day. Downstream on the Ovens River, the flow at Rocky Point has dropped to below 500 ML/day for the first time since May 2014.

* The River Murray Operations team at MDBA is actively involved in November



River Operations

- Rain forecast for south-east Basin catchments
- Inter-Valley Transfer releases begin on the Campaspe
- Lock 8 weir level to drop 40 cm

River Operations

There is 15-25mm of rain forecast on the weekend for parts of the south-eastern Murray-Darling Basin (see [Bureau of Meteorology](#)). Given the dry condition of the catchments it is not expected that the rain will generate much runoff but it is possible that demands and system losses will be suppressed for a short period.

MDBA total storage fell by 120 GL this week, with the active storage now 5,927 GL (70% capacity).

At **Dartmouth Reservoir**, the storage volume has decreased by 25 GL to 3,484 GL (90% capacity). The release, measured at Colemans, was reduced to 3,000 ML/day early in the week for works in the Mitta Mitta reach. Releases are expected to begin increasing to 7,000 ML/day on the weekend.

At **Hume Reservoir**, the storage volume fell 82 GL to 2,065 GL (69% capacity) with releases averaging over 16,000 ML/day.

At **Yarrawonga Weir**, the total daily diversion through Mulwala Canal averaged 5,000 ML/day of which around 1,600 ML/day was diverted through Edward escape for delivery to Lake Victoria. Yarrawonga Main Channel averaged around 1,700 ML/day over the week. The release downstream of Yarrawonga Weir has been reduced by 300 ML/day to 10,000 ML/day ahead of the rain to reduce the likelihood of undesirable wetting of the Barmah-Millewa Forest.

On the **Edward River** system, the combined flow through the Edward and Gulpa offtakes is just over 1,900 ML/day. Diversions to the Wakool Main Canal are currently 950 ML/day. The flow downstream of **Stevens Weir** is near channel capacity at over 2,500 ML/day with the addition of water from the Edward escape.

On the **Goulburn River**, the flow at McCoys Bridge has receded below 1,000 ML/day and is forecast, over the next week, to remain below 1,000 ML/day under dry conditions.

On the **Campaspe River**, flows are currently increasing due to Inter-Valley Transfer (IVT) water en-route to Lake Victoria. The flow is expected to peak at 1,500 ML/day at Rochester on Saturday.

At **Torrumbarry Weir**, diversions to the National Channel have increased to 2,800 ML/day this week. The flow downstream of Torrumbarry is around 6,600 ML/day. Downstream at **Swan Hill**, the flow has eased this week to around 8,400 ML/day and should continue to recede over the coming week.

On the lower **Murrumbidgee River**, the flow at Balranald is steady at 1,100 ML/day. Inflows from the Murrumbidgee River will be above the normal end of system target during the remainder of November and December due to the delivery of IVT.

Downstream at **Euston Weir**, the flow in the Murray is 11,600 ML/day and falling slowly because the pulse from the Goulburn, which peaked at McCoys in late October, has now passed. At **Hattah Lakes** return flows of around 200 ML/day have commenced through Messengers regulator, see photo 1.

At **Lock 8**, the weir level will be progressively lowered by 40 cm this week to 40cm above full supply level (24.6 m AHD). This will coincide with the end of the water flowing to the Mulcra environmental complex.



At **Lake Victoria**, the storage volume decreased by 3 GL to 572 GL (84% capacity). The volume will continue to decrease in the coming weeks with the flow to South Australia targeting 10,000 ML/day this week.

At the **Lower Lakes**, the 5-day average level for Lake Alexandrina increased to 0.67 m AHD. Flows into the Coorong through the Barrages continue to target flows of 2,000 ML/day.



Photo 1. Hattah Lakes - return flows from Messengers regulator at 200ML/day (Source –Chan Chong Goulburn-Murray Water).

For media inquiries contact the Media Officer on 02 6279 0141

DAVID DREVERMAN
Executive Director, River Management



Water in Storage

Week ending Wednesday 12 Nov 2014

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	480.15	3 484	90%	71	3 413	-25
Hume Reservoir	192.00	3 005	186.81	2 065	69%	23	2 042	-82
Lake Victoria	27.00	677	26.12	572	84%	100	472	-3
Menindee Lakes		1 731*		256	15%	(- -) #	0	-9
Total		9 269		6 377	69%	--	5 927	-120
Total Active MDBA Storage							70% ^	

Major State Storages

Burrinjuck Reservoir	1 026	776	76%	3	773	-20
Blowering Reservoir	1 631	847	52%	24	823	-61
Eildon Reservoir	3 334	2 744	82%	100	2 644	-18

* 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 11 Nov 2014

Storage	Active Storage (GL)	Weekly Change (GL)	Diversions (GL)	This Week	From 1 May 2014
Lake Eucumbene - Total	2 216	n/a	Snowy-Murray	+0	202
Snowy-Murray Component	1 030	n/a	Tooma-Tumut	+1	172
Target Storage	1 450		Net Diversion	-1	31
			Murray 1 Release	+1	409

Major Diversions from Murray and Lower Darling (GL) *

New South Wales	This Week	From 1 July 2014	Victoria	This Week	From 1 July 2014
Murray Irrig. Ltd (Net)	21.5	324	Yarrowonga Main Channel (net)	10.8	105
Wakool Sys Allowance	2.1	22	Torrumbarry System + Nyah (net)	15.0	290
Western Murray Irrigation	0.9	6	Sunraysia Pumped Districts	3.8	30
Licensed Pumps	6.0	88	Licensed pumps - GMW (Nyah+u/s)	n/a	9
Lower Darling	2.8	19	Licensed pumps - LMW	10.5	69
TOTAL	33.3	459	TOTAL	25.3	503

* 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 delivery of additional environmental water.

Entitlement this month	180.0 *	
Flow this week	70.3	(10 000 ML/day)
Flow so far this month	120.1	
Flow last month	276.9	

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

	Current	Average over the last week	Average since 1 August 2014
Swan Hill	10	50	90
Euston	-	100	110
Red Cliffs	130	150	130
Merbein	140	140	140
Burtundy (Darling)	1 020	920	780
Lock 9	120	140	150
Lake Victoria	190	210	200
Berri	240	240	220
Waikerie	280	280	290
Morgan	270	280	280
Mannum	340	330	320
Murray Bridge	310	310	380
Milang (Lake Alex.)	790	780	740
Poltalloch (Lake Alex.)	640	620	580
Meningie (Lake Alb.)	2 300	2 320	2 290
Goolwa Barrages	1 100	1 190	1 170



River Levels and Flows

Week ending Wednesday 12 Nov 2014

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	-	-	-	430	F	690	2 210
Jingellic	4.0	1.23	207.75	1 580	S	1 740	2 300
Tallandoon (Mitta Mitta River)	4.2	2.24	219.13	3 180	S	3 450	6 310
Heywoods	5.5	3.18	156.81	17 070	R	16 170	14 980
Doctors Point	5.5	3.22	151.69	17 330	R	16 480	15 300
Albury	4.3	2.26	149.70	-	-	-	-
Corowa	3.8	3.39	129.41	16 740	F	16 040	15 900
Yarrowonga Weir (d/s)	6.4	1.69	116.73	10 310	S	10 310	10 300
Tocumwal	6.4	2.30	106.14	9 750	S	9 760	9 840
Torrumbarry Weir (d/s)	7.3	2.30	80.85	6 690	F	8 310	11 510
Swan Hill	4.5	1.59	64.51	8 430	F	9 910	12 010
Wakool Junction	8.8	3.88	53.00	11 760	F	12 660	12 950
Euston Weir (d/s)	8.8	2.19	44.03	11 660	R	12 310	11 490
Mildura Weir (d/s)	-	-	-	-	-	-	-
Wentworth Weir (d/s)	7.3	3.33	28.09	12 270	R	11 980	10 080
Rufus Junction	-	3.95	20.88	9 470	R	9 320	9 080
Blanchetown (Lock 1 d/s)	-	0.81	-	8 590	R	8 450	7 180
Tributaries							
Kiewa at Bandiana	2.7	0.95	154.18	470	F	710	710
Ovens at Wangaratta	11.9	8.00	145.68	630	F	740	1 060
Goulburn at McCoys Bridge	9.0	1.51	92.93	990	F	1 550	5 040
Edward at Stevens Weir (d/s)	-	2.37	82.14	2 580	F	2 510	2 480
Edward at Liewah	-	2.69	58.07	2 150	R	2 060	1 630
Wakool at Stoney Crossing	-	1.63	55.12	960	R	890	690
Murrumbidgee at Balranald	5.0	1.55	57.51	1 130	F	1 180	1 360
Barwon at Mungindi	-	2.84	-	0	F	0	0
Darling at Bourke	-	4.04	-	160	R	50	0
Darling at Burtundy Rocks	-	0.69	-	50	S	50	60

Natural Inflow to Hume	2 020	4 840
------------------------	-------	-------

(i.e. Pre Dartmouth & Snowy Mountains scheme)

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	-0.17	-	No. 7 Rufus River	22.10	+0.01	+1.63
No. 26 Torrumbarry	86.05	+0.00	-	No. 6 Murtho	19.25	+0.13	+0.30
No. 15 Euston	47.60	+0.22	-	No. 5 Renmark	16.30	+0.09	+0.39
No. 11 Mildura	34.40	+0.05	+0.44	No. 4 Bookpurnong	13.20	+0.02	+1.06
No. 10 Wentworth	30.80	+0.10	+0.69	No. 3 Overland Corner	9.80	+0.01	+0.72
No. 9 Kulnine	27.40	+0.24	+0.86	No. 2 Waikerie	6.10	+0.50	+0.71
No. 8 Wangumma	24.60	+0.75	+0.31	No. 1 Blanchetown	3.20	+0.47	+0.06

Lower Lakes FSL = 0.75 m AHD

Lake Alexandrina average level for the past 5 days (m AHD)	0.67
--	------

Barrages

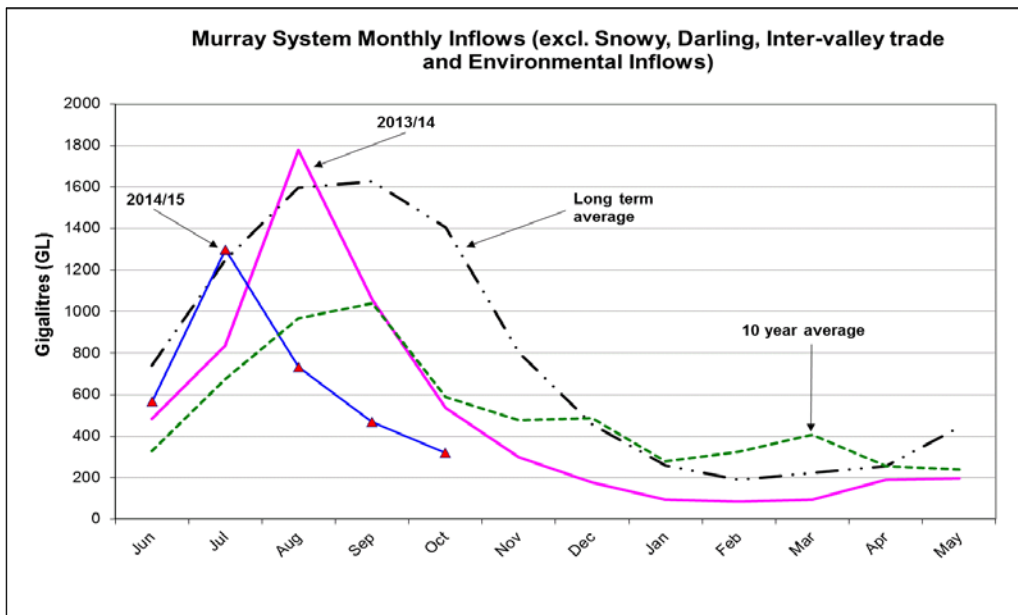
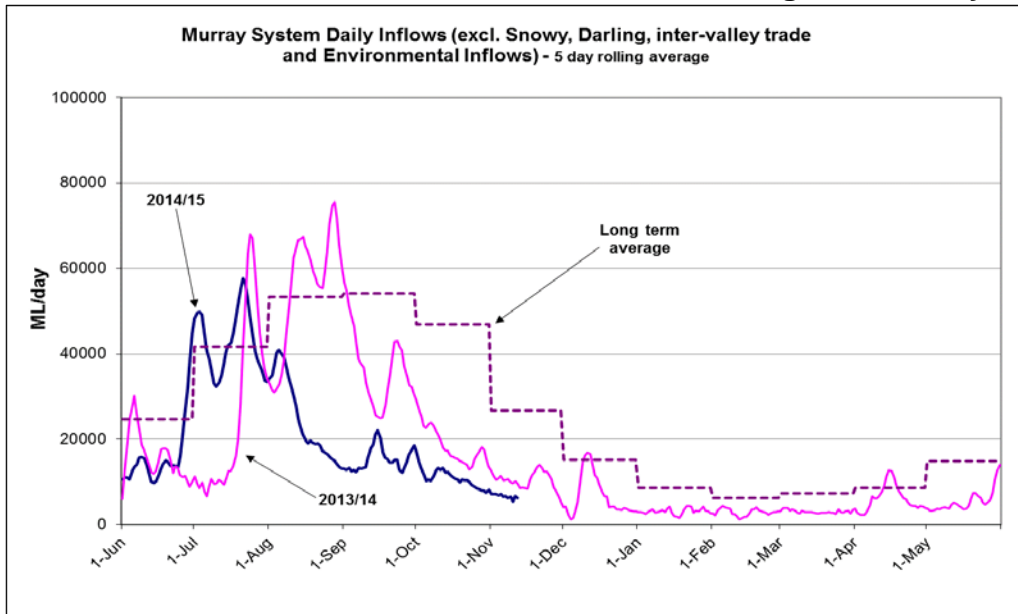
Fishways at Barrages

	Openings	Level (m AHD)	No. Open	Rock Ramp	Vertical Slot
Goolwa	128 openings	0.69	2	-	Open
Mundoo	26 openings	0.66	All closed	-	-
Boundary Creek	6 openings	-	0.1	-	-
Ewe Island	111 gates	-	All closed	-	-
Tauwichee	322 gates	0.67	5	Open	Open

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



Week ending Wednesday 12 Nov 2014



State Allocations (as at 12 Nov 2014)

NSW - Murray Valley

High security	97%
General security	39%

Victorian - Murray Valley

High reliability	100%
Low reliability	0%

NSW - Murrumbidgee Valley

High security	95%
General security	40%

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%
---------------	------

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>